SONY

INTEGRATED ROUTING SYSTEM

IXS-6600
IXS-6700

ROUTING SWITCHER PROCESSOR

HDS-X5800

ROUTING SWITCHER CONTROLLER

HKSP-R80

IKS-6030M **IKS-A6011** **IKS-A6012**
IKS-A6013 **IKS-A6015** **IKS-A6050**
IKS-A6061 **IKS-A6062** **IKS-A6063**
IKS-V6010M **IKS-V6010SD** **IKS-V6050M**
IKS-V6060M **IKS-V6060SD** **IKS-RS6010**
IKS-V6050SD **IKS-RS6060** **IKS-TC6010**
IKS-TC6060
HKS-5810M **HKS-5810SD** **HKS-5811M**
HKS-5811SD **HKS-5820M** **HKS-5830M**
HKS-5830SD **HKS-5860M** **HKS-5860SD**
HKSP-R81

SYSTEM SETUP MANUAL
1st Edition (Revised 7)

セットアップ時の注意

ソフトウェアのバージョンアップ（機能改善）により，マニュアルに記載されている動作と異なる場合があります。

Note on System Setting

Actual operation may be different from the operation described in this manual by the software upgrade.

Table of Contents

Manual Structure

Purpose of this manual

This manual is the system setup manual of Integrated Routing System ISX-6600/IXS-6700, Routing Switchers Controller HKSP-R80 and Routing Switcher Processor HDS-X5800.
It contains information on the initial settings and confirmation of function of the software when installing the IXS-6600/IXS-6700.
This manual is intended for system and service engineers. But operators can also refer to it when setting and changing the system.
Refer to installation manual supplied with IXS-6600/IXS-6700 for information on installing the hardware.

Related manuals

Besides this System Setup Manual, the following manuals are prepared for each device.

- **Operation Manual (Supplied with each device)**
  This manual describes the application and operation of each device.

- **Installation Manual (Supplied with each device)**
  This manual describes information on each device installing.

- **Maintenance Manual (Available on request)**
  This manual describes the information that premises the parts level service (adjustment, parts list, diagrams, etc.).
  If this manual is required, please contact your local Sony Sales Office/Service Center.

- **Protocol Manual (Available on request)**
  This manual describes the protocol for controlling this unit.
  The following manuals are available for the protocols compatible with this manual.
  If this manual is required, please contact your local Sony Sales Office/Service Center.

  SONY ROUTING SWITCHER SYSTEM
  REMOTE1 (S-BUS/ROT16) PROTOCOL and COMMAND SPECIFICATIONS
  Part No. : 9-977-477-xx

  SONY ROUTING SWITCHER SYSTEM
  REMOTE2 (Cart++) PROTOCOL and COMMAND SPECIFICATIONS
  Part No. : 9-967-261-2x

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- Ethernet is a registered trademark of Xerox Corporation.
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Terminology

- Routing Switcher
  Indicates the name of the product category. IXS-6600/IXS-6700 and HDS-X5800 belong to routing switcher.
- Routing Switcher System
  Indicates the configuration where multiple devices are connected to the Routing Switcher. (Refer to “1-6. System Connection Example”.)
- Integrated Routing Switcher
  This is the product name of IXS-6600/IXS-6700.

Contents

The following is a summary of all the sections of this manual.

Section 1 Overview

This section outlines the basic structure of the routing switcher system and control mechanism using the S-BUS.

Section 2 Setup

This section explains the setting menus of the primary station and the secondary station and how to set each item in the menus, in detail.
Also it explains how to backup the table data.

Section 3 Confirmation of Function

This section explains the error messages and how to check the operations of the system after completing setting.

Section 4 Technical Information

This section explains the following contents:

- Switching sequence of the cross-points
- Concept of a new system enabled by introducing the optional BZR-IF830 software
- Control of the RS-422 ROUTER

Appendix A Functions and Menu Items

Describes the functions and menu items list.

Appendix B Glossary

Describes the terminology that is used in this manual.

Section 1
Overview

1-1. What is the Routing Switcher System?

Routing switcher system is the system that has the functions of switching and control of signals using routing switchers.
The main devices that constitute the integrated routing system

- Routing switcher
- Remote control panel (routing switcher control unit)
- Personal computer

1-2. Functions of the Routing Switcher System

The routing switcher system has the following functions.
Refer to “Appendix B Glossary” for details.

Secret function

Protect function

Cross-point input system limit function

Password function

Naming function

Virtual mapping function

Free assignment function

Tie line function

Phantom function

Self-diagnosis function

Presence or absence of input/output signals and occurrence of error can be sent to a personal computer that is connected to the primary station and display them.

Other functions

- When the optional Subnet Interface (BZR-IF810) and the optional System Setup Software (BZR-2000) are used, a maximum of 60,000 devices can be controlled by a single routing switcher system.
- IXS-6600/IXS-6700 and HDS-X5800 has the built-in system controller (primary station function). Therefore, there is no need to prepare a controller to control the routing switcher system.
- HDS-X5800 can increase the number of inputs by cascade connection, and the number of outputs by the signal distributor up to 1024 channels each.

Note

The IXS-6600/IXS-6700, HKSP-R80 and HDS-X5800 does not have the control function for the monitoring S-BUS system.

1-3. Compatibility between the S-BUS P1 (S-P1) Type and S-BUS P2 (S-P2) Type

There are two types of Sony Routing Switcher. One is the “S-BUS P1” type (abbreviated as S-P1 hereafter) that supports the virtual matrix size 512, and the other is the “S-BUS P2” type (abbreviated as S-P2 hereafter) that supports the virtual matrix size 1024. The IXS-6600/IXS-6700, HKSP-R80 and HDS-X5800 are the S-P2 type.

The S-P2 type has the upward compatibility with the S-P1 type but has the several limitations.
The S-P2 type is realized by extending the type number of the terminal names from 16 to 32, and by changing the data structure of the terminal names. The 16 types of the terminal number data that are used in the S-P1 type do not have reversibility from the 32 types of terminal number data that are used in the S-P2 type. The S-P2 device supports two types of data i.e., both the 16 type data and the 32 type data for each terminal of terminal number 1 to 512.

Likewise, with the S-P2 controller, the 16 type data must be used for the terminal number of 1 to 512 when the S-P1 type display unit (BKS-R3280/R3281) and the remote control panel (routing switcher control unit) are used in the system. The 32 type data must be used for the terminal numbers of 513 to 1024.
When all of the display units and the remote control panels within the system are of the S-P2 type, the 32 type data can also be operated for the terminal numbers of 1 to 512.

When use of the remote control panels of the S-P1 and S-P2 types are mixed, use of the S-P1 type remote control panel is limited within the range of terminal number from 1 to 512. In such a case, the S-P2 type remote control panel can handle the 32 type data with the terminal number of 513 to 1024.

This manual describes information of only the S-P2 type machine.
For the information on the S-P1 type machines, refer to the following manual.

- Installation Manual (Software) : 3-194-351-xx
  It is supplied with the routing switcher of the S-P1 type machine.

Notes

All of the following models currently available belong to the S-P2 device.

- Routing switcher: IXS-6600/IXS-6700/HDS-X5800
- Remote control panel: BKS-R1617/BKS-R1617A/BKS-R1618/BKS-R3216/BKS-R3219/BKS-R3219A/BKS-R3220/BKS-R6010

1-4. Constituent Devices of Routing Switcher System

The routing switcher system consists of the following four types of equipment.

- **Routing switcher controller (HKSP-R80)**
  It controls the signal switching for the routing switcher in accordance with the commands from the host controller (such as host computer) and remote control panel.

- **Routing switcher (IXS, HDS, DVS, BVS series)**
  The switcher with a built-in controller and the one without it are available.
  The built-in controller type switches signals according to the command from the controller (such as host computer) and the remote control panel. The routing switcher without a built-in controller (such as a secondary station) switches signals by following the commands from the controller. Varied switchers are available for different types of signals such as serial digital video, digital audio, time code, RS-422A, etc.

- **Routing switcher control unit (Remote control panel) (BKS-R series)**
  It is used to switch signals and to display the name of the selected signal. It is sometimes simply called as “remote control panel”.

- **Personal computer**
  A personal computer is required in order to establish the various setups that are necessary for configuring and running the routing switcher system using a terminal emulator. The setup data are backed up and restored with the BZR-20 that is supplied with the IXS-6600/IXS-6700, HKSP-R80 and HDS-X5800.
  A personal computer having the following specifications is recommended for use with the routing switcher system.
  - IBM PC/AT compatible personal computer
  - Windows XP (English version or Japanese version)
  - RS-232C port or Ethernet is installed.
  - Terminal emulator (VT100 or higher) is installed.
  - The codes of F1 to F5 are already set.
    Note
    For the code setting procedure, refer to Section 2-2.

  - BZR-20 (V2.11 or higher) is installed.
    Note
    For the BZR-20 installation procedure, refer to the Installation Manual in the CD-ROM supplied with the IXS-6600/IXS-6700, HKSP-R80 and HDS-X5800 .

  - Microsoft Excel is installed.
  - DirectX (V6.1a or higher) is installed.
  - BZR-2000 (V1.70 or higher) is installed when using GUI for setup.

1-5. Controls by Routing Switcher System

1-5-1. Specifications and Functions of Control Port

The Routing Switcher System is equipped with four kinds of remote ports REMOTE 1 (standard S-BUS), REMOTE 2 (RS-422A), REMOTE 3 (RS-232C), and NETWORK (Ethernet)[*1].

∗1 : NETWORK (Ethernet) : IXS-6600/IXS-6700
DATE (Ethernet) : HKSP-R80 and HDS-X5800

The specifications and functions of the control ports are as follows.

REMOTE 1 BNC 75 Ω

Protocol : S-BUS control

Data Transfer Speed	312.5 kbps/1250 kbps
Max Cable Length	500 m/125 m (BELDEN 8281 cable or equivalent)

Function : Control of the equipment is executed by the S-BUS data link.
The various types of equipment related to the control, such as remote control panel, routing switcher, and display unit are connected to this data link.

REMOTE 2 D-sub 9-pin

Protocol : RS-422A

Transfer speed	38.4 kbps
Data bit	8 bits
Parity	EVEN

Protocol	Controllable size		
	16 × 16	256 × 256	4093 × 4093
CART	○	–	–
CART+	○	○	–
CART++	○	○	○

Function : With this, the one-to-one port communication between two units is performed. It is used when a Sony routing switcher is used as a simple matrix switcher when receiving controls from the controller of other manufacturers via RS-422A.

REMOTE 3 D-sub 9-pin

Protocol : RS-232C

Transfer speed	38.4 kbps
Data bit	8 bits
Parity	none
Check	none

Function : When connected with a personal computer, it performs the system setups, program downloading, setup data downloading/uploading, and signal switching.
In order to perform system setup and program downloading, the optional terminal emulator program must be installed in a personal computer. In order to perform the setup data uploading/downloading and the signal switching, install the BZR-20 and the BZR-21 that are supplied with the each model and use them.

NETWORK/DATA RJ-45 8-pin modular jack

Protocol : TCP/IP transfer (100BASE-TX)

Function : Using the IP network and control the routing switcher system from remote location.
This function is not suited to the real-time operation because communication may take some time depending on the network environment.
Functions other than that, remain the same as those of REMOTE 3.

1-5-2. S-BUS Control

The Sony routing switcher system uses the Sony unique remote control protocol called S-BUS (Sony serial bus) for controlling the switcher system.

In the S-BUS control, the multiple routing switchers and remote control panels are connected to a single bus line to form a control network called the S-BUS data link.

The devices on the S-BUS data link are designated to a primary station which controls the whole system (only one unit is set as this) and secondary stations. The primary station not only controls the communication between the secondary stations, it converts the output request signals from the secondary station after converting them in accordance with the internally set conditions.

Note

Be sure to attach the 75 Ω terminator to all of the un-used S-BUS line connector regardless of the primary/secondary stations.

Features of S-BUS Control System

The main features of the S-BUS control are as follows.

- LAN type control signal communication using one 75 Ω coaxial cable (S-BUS line)
- The coaxial cable can be extended to 500 m. (BELDEN 8281 cable or equivalent)
- Up to 128 units of routing switchers and remote control panels can be added to the S-BUS line or removed from it.
- The routing switcher/routing switcher controller set as a primary station can control up to 253 units of routing switchers and remote control panels using multiple S-BUS lines.
- Without stopping the system, the switchers and remote control panels can be added to the S-BUS line or removed from it.

Basic Configuration of S-BUS Control System

S-BUS control is configured as follows.

Name	Equipment	Quantity	Function
Primary station	Routing switcher controller Routing switcher (P)*1	1 1	Communication control in data link
Secondary station	Remote control panel and routing switcher (S)*2	253 (max.)	Implements communication control of individual equipment.
Personal computer	Terminal emulator BZR-20	1	Sets up system settings and backs up/ restores the setting data.

*1 : It means a switcher whose S/P select switch[Note)] on CPU board is set to the P position.
*2 : It means a switcher whose S/P select switch[Note)] on CPU board is set to the S position.

1-5-3. RS-422A Control

SONY Routing switcher system can be controlled from an external control equipment that is connected to the REMOTE2 (D-sub 9-pin) connector with the RS-422A interface. In addition, the protocol (CART++) can be added so that up to 4093 inputs × 4093 outputs × 8 levels can be controlled.
When the extended protocol is the CART++ that has the control size of 256 or less, it is compatible with the existing protocol (CART, CART+).
Two operation modes are available: S-BUS conversion mode, which converts the commands received via RS-422 into the S-BUS protocol, and the direct mode, which controls the commands received via RS-422A inside the reception station. When the switcher is set as a primary station, the mode is fixed to the S-BUS conversion mode. When the switcher is set as a secondary station, the mode is fixed to the direct mode.

Notes

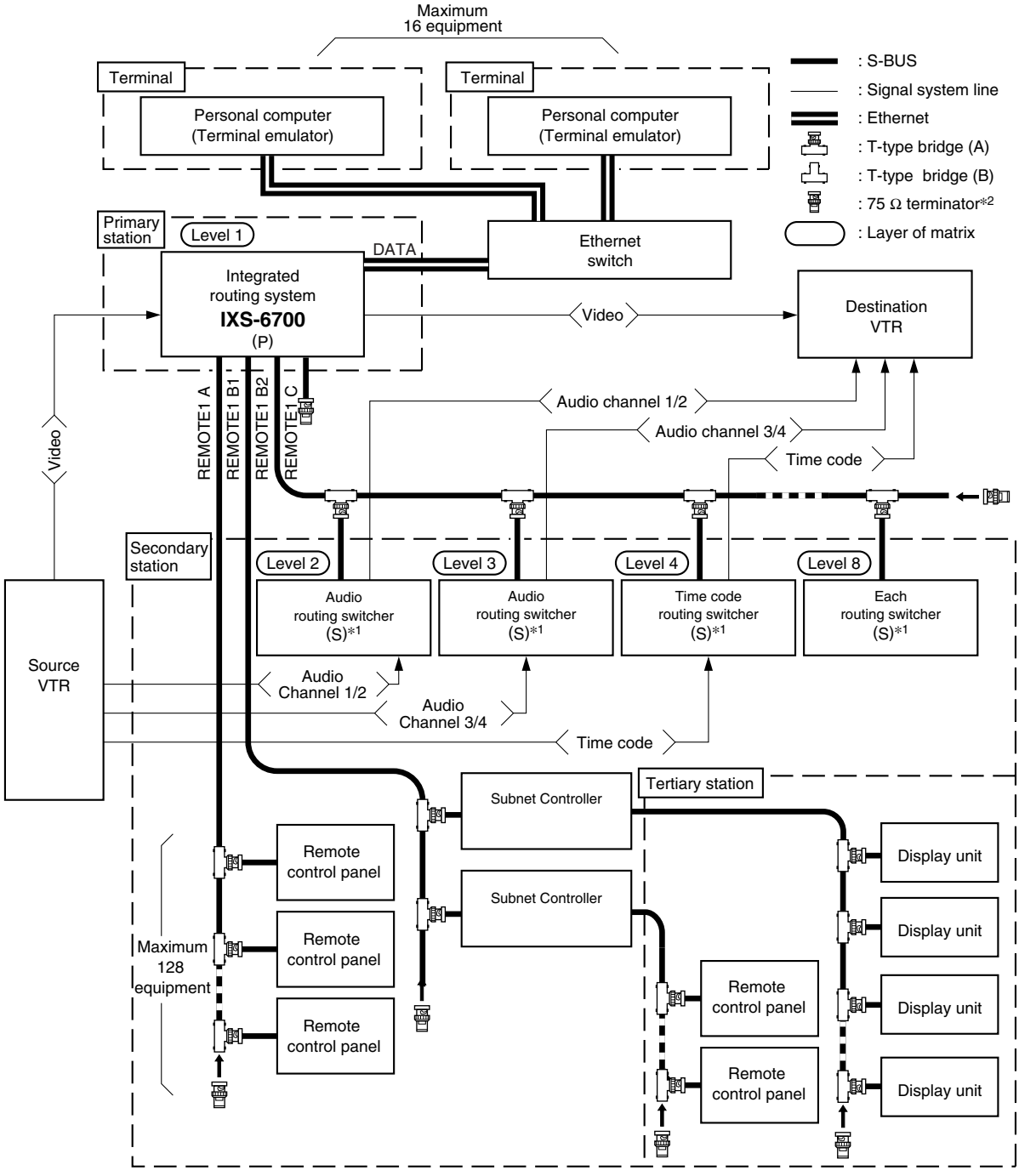
- In the direct mode, the protect and secret functions set on the S-BUS protocol are not available.
- In the S-BUS conversion mode, the protect and secret functions set on S-BUS protocol are available. However, these functions cannot be set from the 9-pin remote control and the contents of the setting cannot be checked from the 9-pin remote control.

Note) : In IXS-6600/IXS-6700, “S/P select switch on CPU board” means S1203-2 and 3 on the CA-65 board.
In HKSP-R80, it means S803-2 and 3 on the CPU-355 board. In HDS-X5800, it means S702-1, 2, 3, and 4 on the CPU-339 board.

1-6. System Connection Example

1-6-1. S-BUS Control System Connection Example

The connection example of the S-BUS data link using the IXS-6700 as the primary station is shown.



Either one of the REMOTE 1 connectors of the secondary station routing switchers can be used.

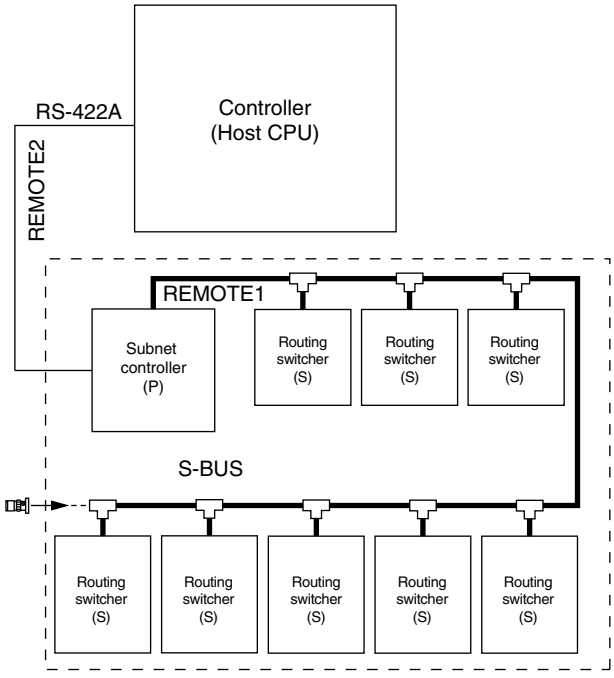
*1 : (S) indicates the secondary station. For the secondary stations, set the station ID in the range of ID = 2 to 254 in the manner that the same ID must not be duplicated.

*2 : Install the 75 Ω terminators to the T type bridge of the last device on the S-BUS data link and to the unused REMOTE 1 connector.

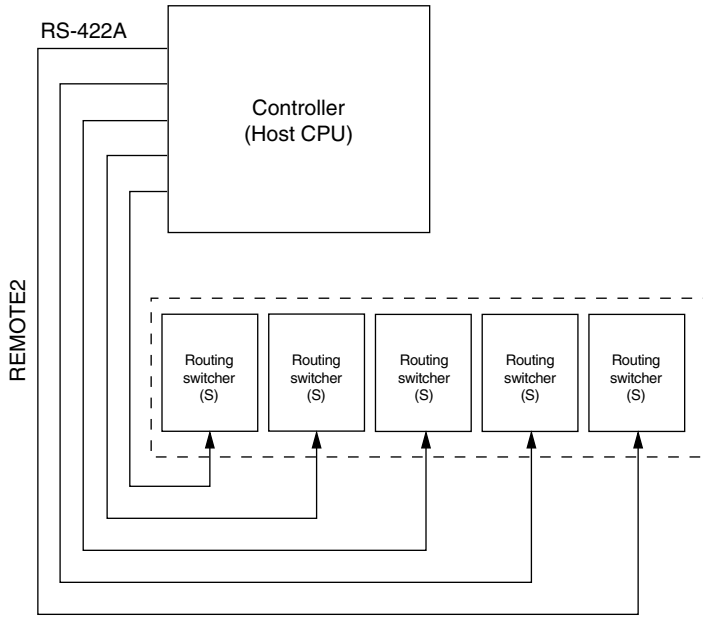
1-6-2. REMOTE2 (RS-422A) Control System Connection Example

The connection example of the REMOTE 2 (RS-422A) control system is shown.

S-BUS conversion mode connection example



Direct mode connection example



: S-BUS : 75 Ω terminator

: RS-422A : T-type bridge

: Standard units making up Sony routing system

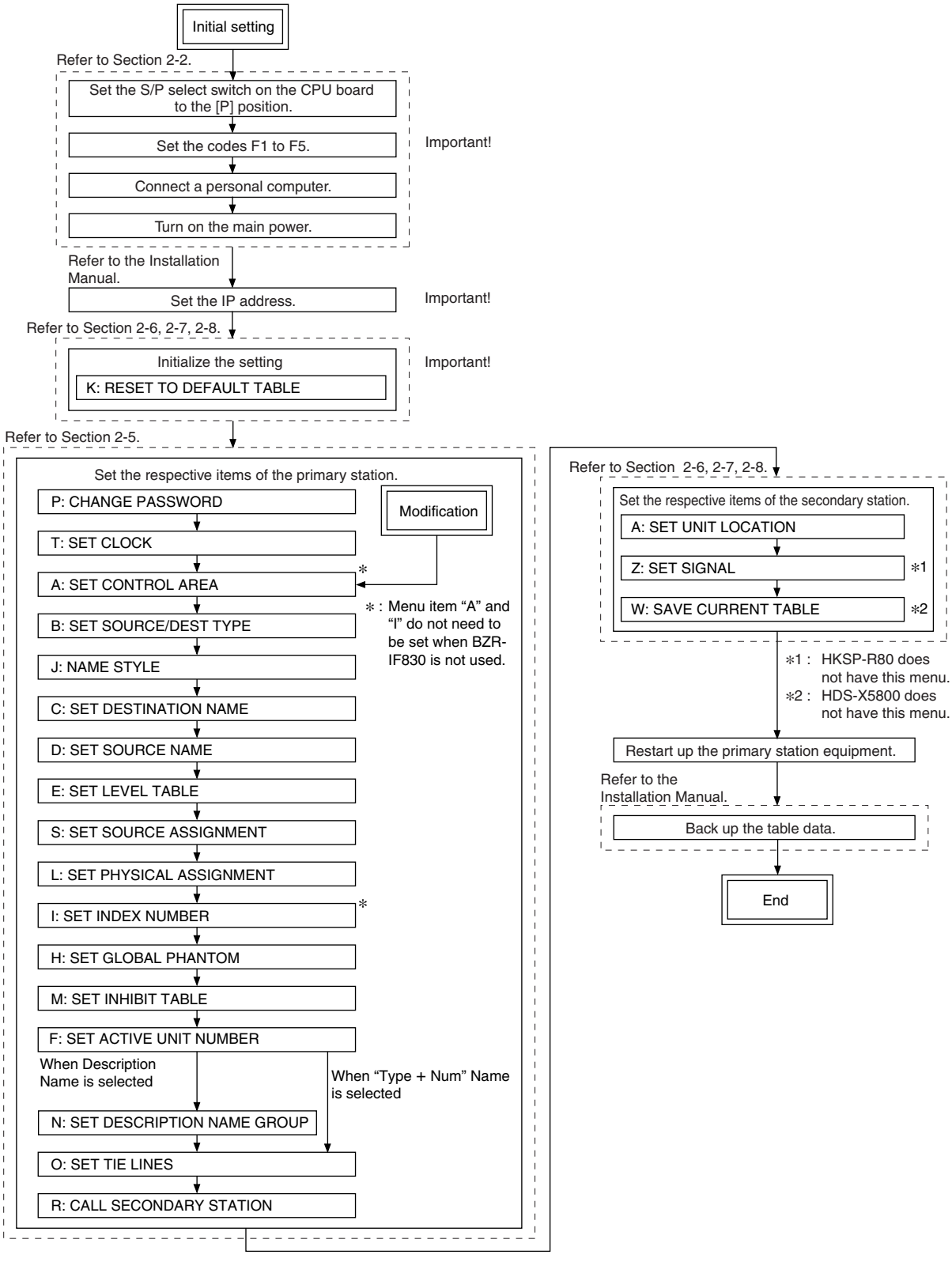
(P) (S) : The setting of S/P select switch on the CPU board.

Section 2
Setup

2-1. Introduction

2-1-1. Flow Chart of Setup Procedure

Flow chart of the setup procedure is shown.



2-1-2. Symbols Used in This Manual

The symbols used for the control terminal emulator keys in this manual are as follows.

- All keys are enclosed in boxes. (Ex. [Ctrl], [Enter])
- The numerical keys in the text mean keys [0] to [9].
- The alphabet keys in the text mean keys [A] to [Z].
- The cursor key in the text mean the [↑], [↓], [←], and [→] keys.
- When two keys are to be pressed together, they are joined by the "–". (Ex. [Ctrl] – [X])
- In IXS-6600/IXS-6700, "S/P select switch on CPU board" means S1203-2 and 3 on the CA-65 board. In HKSP-R80, it means S803-2 and 3 on the CPU-355 board. In HDS-X5800, it means S702-1, 2, 3, and 4 on the CPU-339 board.

2-2. Preparation

When the IXS-6600/IXS-6700, HKSP-R80 and HDS-X-5800 is Used as the Primary Station

1. Setting the primary station
   Switch the S/P select switch on CPU board of each model to the "P" side. (Refer to Section 2-1-2.) (Refer to the Installation Manual.)
   Note
   When setting the primary station, only a single primary station can exist on a single S-BUS remote line. If two or more primary stations are set on a single S-BUS remote line, the routing switcher system will not work properly.

2. Setting the secondary station. Set the station ID (2 to 254). (Refer to manual of the secondary station.)
3. Connect the primary station to the secondary station. (Refer to Section 1-6-1.)
4. Set a personal computer. (Setting the F1 to F5 codes.)
   Set the codes of F1 to F5 in accordance with the following table referring to the document of terminal emulator.

	Key Name	Command	HEX Data
F1	F1	ESC [17 ~	1B, 5B, 31, 37, 7E
F2	F2	ESC [18 ~	1B, 5B, 31, 38, 7E
F3	F3	ESC [19 ~	1B, 5B, 31, 39, 7E
F4	F4	ESC [20 ~	1B, 5B, 32, 30, 7E
F5	F5	ESC [21 ~	1B, 5B, 32, 31, 7E

∗ESC = 16 hexadecimal number 1B
10 decimal number 27

5. Connecting the personal computer to the primary station
   In the case of RS-232C :
   Use the RS-232C cable and connect the personal computer to the REMOTE3 connector.
   In the case of Ethernet :
   Use the dedicated cable and connect the LAN Ethernet switch to the DATA terminal (IXS-6700/6600 : NETWORK terminal).

6. Setting the communication conditions of the personal computer
   In the case of RS-232C :
   Transfer speed : 38.4 kbps, Data bit : 8 bits, No parity, No check.
   In the case of Ethernet :
   Set the destination IP address of the terminal emulator to the same address of the primary station. Set the port No. to 1001 (default).

7. Turning on the power.
   Turn on the power of all the equipment on the S-BUS data link.
   The system status screen appears on the personal computer monitor. (Refer to Section 2-3.)
   Note
   Wait for about one minute or more after turning on the power, before starting the setting.
   Operation of the equipment may be unstable immediately after the power is turned on.

8. Let the primary station menu screen appear on the display. (Refer to Section 2-3.)
   When the Ctrl – X are pressed on the system status screen, the display shows the primary station menu screen.
   Perform the respective settings that are shown in Section 2-5 from the primary station menu screen.

When the system is connected using Ethernet, up to 16 people (4 people for HDS-X5800) can work to configure settings at the same time. However, two or more people cannot work on the same item at the same time.
If you want to disconnect the Ethernet LAN cable, you should terminate all of the terminal emulators and BZR-2000 that you have started up. Then, disconnect the Ethernet LAN cable.

Note
When all setups are completed, return to the system status screen. Turn the power of the primary station off and then on again.
Note that if the routing switcher is the primary station, when the power turns on or off, the cross-point signal is cut for an instant. The signal is not cut if the external device contains the primary station.

When the IXS-6600/IXS-6700, HKSP-R80 and HDS-X-5800 is Used as the Secondary Station

1. Setting the as the secondary station
   Set the S/P select switch Note) on the CPU board to the [S] position in each device (Refer to the Installation Manual.)
2. Setting the station ID
   Set the switch on the CPU board in each device. (Refer to the Installation Manual.)
   Set the switch to the desired station ID in the range of 2 to 254 so that it is not duplicated with the station IDs of other secondary equipment.
3. Setting the primary station equipment
   Set the S/P select switch Note) on the CPU board of the primary station equipment to the [P] position.
4. Connecting the primary station equipment to the other secondary station equipment
   Connect the REMOTE 1 connectors each other using the BNC coaxial cables.
5. Set a personal computer (Setting the F1 to F5 code)
   Set the codes of F1 to F5 in accordance with the following table referring to the document of terminal emulator.

	Key Name	Command	HEX Data
F1	F1	ESC [17 ~	1B, 5B, 31, 37, 7E
F2	F2	ESC [18 ~	1B, 5B, 31, 38, 7E
F3	F3	ESC [19 ~	1B, 5B, 31, 39, 7E
F4	F4	ESC [20 ~	1B, 5B, 32, 30, 7E
F5	F5	ESC [21 ~	1B, 5B, 32, 31, 7E

∗ESC = 16 hexadecimal number 1B
10 decimal number 27

6. Connecting the personal computer to the primary station equipment
   Connect the personal computer to the REMOTE 3 connector using the RS-232C cable.
7. Set the communication conditions of the personal computer
   Transfer speed : 38.4 kbps, Data bit : 8 bits, No parity, No check.
8. Turning on the power
   Turn on the power of all the equipment on the S-BUS data link.
   The system status screen appears on the personal computer monitor. (Refer to Section 2-3.)
   Note
   Wait for about one minute or more after turning on the power, before starting the setting.
   Operation of the equipment may be unstable immediately after the power is turned on.

9. Let the secondary station menu screen appear on display. (Refer to Section 2-3.)
   When the Ctrl – X are pressed on the system status screen, the display shows the primary station menu screen.
   When you want to call the menu screen of the each model that is the secondary station, select the [R: CALL SECONDARY STATION] from the primary station menu screen. Then enter the station ID of the each model.
   Perform the respective setups of Section 2-6, 2-7, 2-8 from the secondary station menu screen.

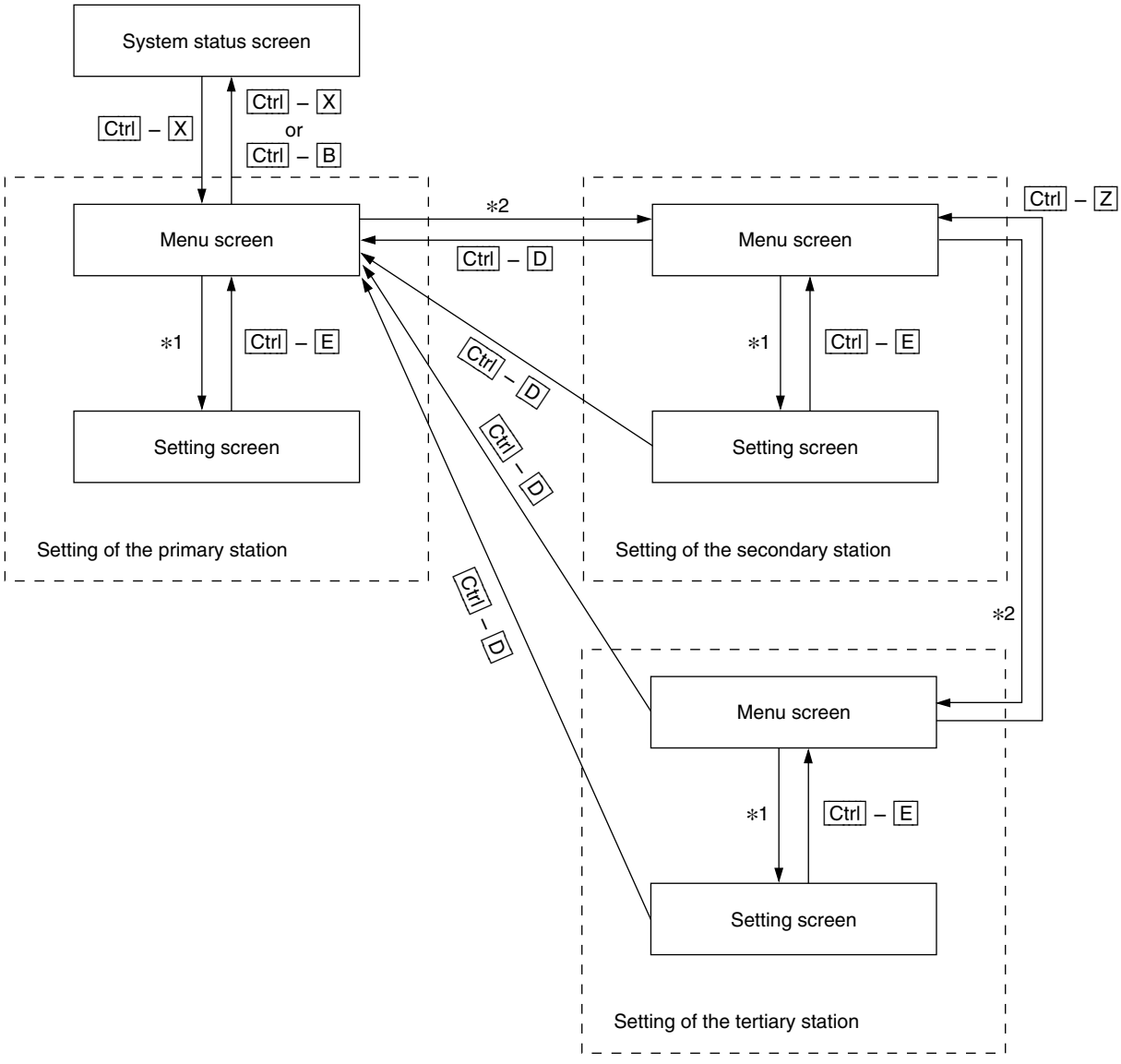
Note
When all setups are completed, return to the system status screen. Turn the power of the primary station off and then on again.

Note) In IXS-6600/IXS-6700, “S/P select switch on CPU board” means S1203-2 and 3 on the CA-65 board.
In HKSP-R80, it means S803-2 and 3 on the CPU-355 board. In HDS-X5800, it means S702-1, 2, 3, and 4 on the CPU-339 board.

2-3. Display Screens, and Moving between the Display Screens

The setup display consists of the following three types of screen.

- System status screen : Displays the status in which the routing system is operating.
- Menu screen : Displays the menu for setting the router system.
- Setting screen : Displays the setting items of each menu.



∗1 : The menu items can be selected in the following two ways. See the “Menu screen” on the next page.

∗2 : See the “Menu screen/Secondary station” on page 2-7.

System Status Screen

The system status screen appears when the main power of the primary station is turned on.
When Ctrl – X are pressed, the menu screen appears.
When Ctrl – X or Ctrl – B are pressed on the menu screen, the display returns to the system status screen.

Note

When password is set, a message appears prompting you to enter password when Ctrl – X are pressed to enter the menu screen. Enter the correct password.

On the system status screen, result of the self-diagnostics that is performed at the power-on is displayed. The status messages are displayed while the system is operating. Refer to "3-2. Function Check".

```
SONY INTEGRATED ROUTING SYSTEM IXS-6700 V1.0
          ITEM
    ROM CHECK SUM               A43F
    RAM READ AND WRITE          OK
    REFERENCE SIGNAL            OK
    S-BUS LINK TERMINATE
    REAL TIME CLOCK             OK
  STARTED
  Ctrl-X to SYSTEM SETUP MENU
2001.06.23-20.16 S-BUS LINK DISCONNECTED TO CHANNEL A
2001.06.23-20.16 S-BUS LINK DISCONNECTED TO CHANNEL B1
2001.06.23-20.16 S-BUS LINK DISCONNECTED TO CHANNEL B2
```

System status screen when the main power is turned on (IXS-6600/IXS-6700, HKSP-R80, HDS-X5800)

```
SONY ROUTING SYSTEM BZR-IF810 V1.00
          ITEM
    ROM CHECK SUM               A43F
    RAM READ AND WRITE          OK
    S-BUS LINK TERMINATE
    REAL TIME CLOCK             OK
  STARTED

  Ctrl-X to SETUP MENU
```

System status screen when the main power is turned on (BZR-IF810)

Menu Screen

The menu screen appears when Ctrl – X are pressed on the system status screen. (Primary station menu screen)
All of the menu items that are used for system setup are displayed on the primary station menu screen.
When a menu item is selected by any of the following methods, the display changes to the setting screen.

- Select the desired menu item with the cursor key and press Enter. (There are some terminal emulators that cannot execute this method.)
- Press the alphabet keys that are assigned to the respective menu items.

Perform the respective settings that are shown in Section 2-5 on the primary station menu screen.

When Ctrl – X or Ctrl – B are pressed on the primary station menu screen, the display returns to the system status screen.

```
SONY ROUTING SYSTEM SETUP MENU          IXS-6700 V1.00   STATION NUMBER 1


                    MODIFICATION COMMAND

  A: SET CONTROL AREA                   B: SET SOURCE/DEST TYPE
  C: SET DESTINATION NAME               D: SET SOURCE NAME
  E: SET LEVEL TABLE                    F: SET ACTIVE UNIT NUMBER
  G: UPDATE BACKUP CONTROLLER           H: SET GLOBAL PHANTOM
  I: SET INDEX NUMBER                   J: NAME STYLE (Type + Num  )
  L: SET PHYSICAL ASSIGNMENT            M: SET INHIBIT TABLE
  N: SET DESCRIPTION NAME GROUP         O: SET TIE LINES
  Q: CHANGE CROSSPOINT                  R: CALL SECONDARY STATION
  S: SET SOURCE ASSIGNMENT

                    MAINTENANCE COMMAND
  P: CHANGE PASSWORD                    T: SET CLOCK
  U: DISPLAY ETHERNET STATION           W: SYSTEM STATUS LOG
  X: DISPLAY S-BUS COMMUNICATION        Z: SET UNIT DETECTABLE


                                        Ctrl-X/B:QUIT  SETUP MENU
```

Primary station menu screen (IXS-6600/IXS-6700)

```
SONY ROUTING SYSTEM SETUP MENU          HKSP-R80  V1.10    STATION NUMBER 1


                    MODIFICATION COMMAND

  A: SET CONTROL AREA                   B: SET SOURCE/DEST TYPE
  C: SET DESTINATION NAME               D: SET SOURCE NAME
  E: SET LEVEL TABLE                    F: SET ACTIVE UNIT NUMBER
  G: UPDATE BACKUP CONTROLLER           H: SET GLOBAL PHANTOM
  I: SET INDEX NUMBER                   J: NAME STYLE (Type + Num  )
  L: SET PHYSICAL ASSIGNMENT            M: SET INHIBIT TABLE
  N: SET DESCRIPTION NAME GROUP         O: SET TIE LINES
  Q: CHANGE CROSSPOINT                  R: CALL SECONDARY STATION
  S: SET SOURCE ASSIGNMENT

                    MAINTENANCE COMMAND

  P: CHANGE PASSWORD                    T: SET CLOCK
  W: SYSTEM STATUS LOG                  X: DISPLAY S-BUS COMMUNICATION
  Z: SET UNIT DETECTABLE

                                        Ctrl-X/B:QUIT SETUP MENU
```

Primary station menu screen (HKSP-R80 V1.10)

```
SONY ROUTING SYSTEM SETUP MENU          BZR-IF810  V1.00    STATION NUMBER 3


                        MODIFICATION COMMAND

 F: SET ACTIVE UNIT NUMBER               Q: CHANGE CROSSPOINT
 R: CALL SECONDARY STATION               Z: SET UNIT DETECTABLE









                        MAINTENANCE COMMAND

 K: RESET TO DEFAULT TABLE               T: SET CLOCK
 V: DISPLAY UNIT STATUS                  W: SYSTEM STATUS LOG
 X: DISPLAY S-BUS COMMUNICATION          Y: DISPLAY TABLE DATA


                                                Ctrl-X/B:QUIT SETUP MENU
```

Subnet primary station menu screen (BZR-IF810)

```
SONY ROUTING SYSTEM SETUP MENU          HDS-X5800  V1.00    STATION NUMBER 1


                        MODIFICATION COMMAND

 A: DISPLAY CONTROL AREA                 B: SET SOURCE/DEST TYPE
 C: SET DESTINATION NAME                 D: SET SOURCE NAME
 E: SET LEVEL TABLE                      F: SET ACTIVE UNIT NUMBER
 G: UPDATE BACKUP CONTROLLER             H: SET GLOBAL PHANTOM
 J: NAME STYLE (Type + Num  )            L: SET PHYSICAL ASSIGNMENT
 M: SET INHIBIT TABLE                    N: SET DESCRIPTION NAME GROUP
 O: SET TIE LINES                        Q: CHANGE CROSSPOINT
 R: CALL SECONDARY STATION               S: SET SOURCE ASSIGNMENT

                        MAINTENANCE COMMAND

 P: CHANGE PASSWORD                      T: SET CLOCK
 W: SYSTEM STATUS LOG                    X: DISPLAY S-BUS COMMUNICATION
 Z: SET UNIT DETECTABLE




                                                Ctrl-X/B:QUIT SETUP MENU
```

Example of primary station menu screen (HDS-X5800 V1.00-V1.41)

```
SONY ROUTING SYSTEM SETUP MENU          HDS-X5800 V1.42   STATION NUMBER 1


                        MODIFICATION COMMAND

 A: SET CONTROL AREA                     B: SET SOURCE/DEST TYPE
 C: SET DESTINATION NAME                 D: SET SOURCE NAME
 E: SET LEVEL TABLE                      F: SET ACTIVE UNIT NUMBER
 G: UPDATE BACKUP CONTROLLER             H: SET GLOBAL PHANTOM
 I: SET INDEX NUMBER                     J: NAME STYLE (DESCRIP.NAME)
 L: SET PHYSICAL ASSIGNMENT              M: SET INHIBIT TABLE
 N: SET DESCRIPTION NAME GROUP           O: SET TIE LINES
 Q: CHANGE CROSSPOINT                    R: CALL SECONDARY STATION
 S: SET SOURCE ASSIGNMENT
                        MAINTENANCE COMMAND
 P: CHANGE PASSWORD                      T: SET CLOCK
 W: SYSTEM STATUS LOG                    X: DISPLAY S-BUS COMMUNICATION
 Z: SET UNIT DETECTABLE


                                                Ctrl-X/B:QUIT SETUP MENU
```

Example of primary station menu screen (HDS-X5800 V1.42 and higher)

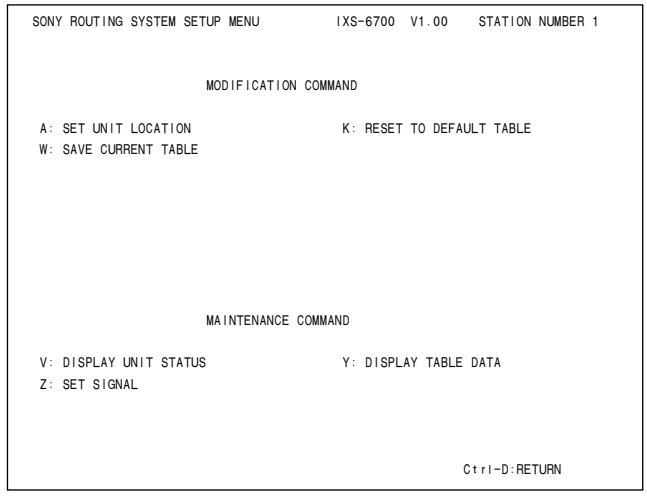
Menu screen/secondary station

When you want to call the secondary station menu screen, select the [R: CALL SECONDARY STATION] from the menu of the primary station and enter the station ID of the secondary station.
When you want to set the secondary station function into the primary station routing switcher, enter "1" as the station ID of the secondary station.
Perform the respective settings that are shown in Section 2-6, 2-7, 2-8 on the secondary station menu screen.

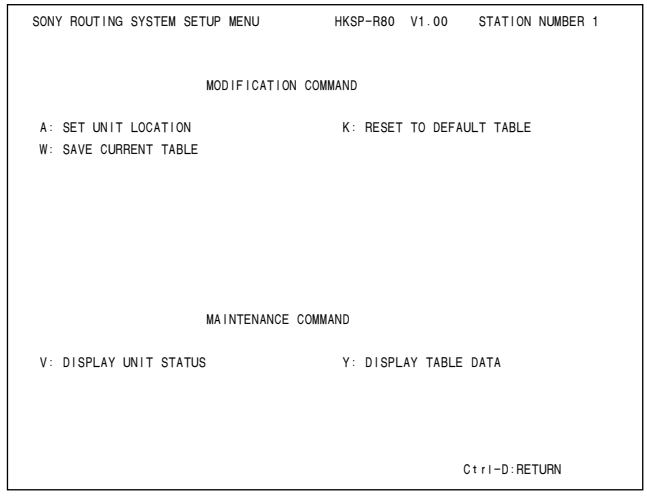
When Ctrl – D are pressed on the secondary station menu screen, the display returns to the primary station menu screen.

Note

Response of the routing switcher system becomes slower while the menu screen or the setup screen is being displayed when compared with the response on the system status screen. For avoiding this trouble, return the display to the system status screen when the setting up is completed.



Secondary station menu screen (IXS-6600/IXS-6700)



Secondary station menu screen (HKSP-R80)

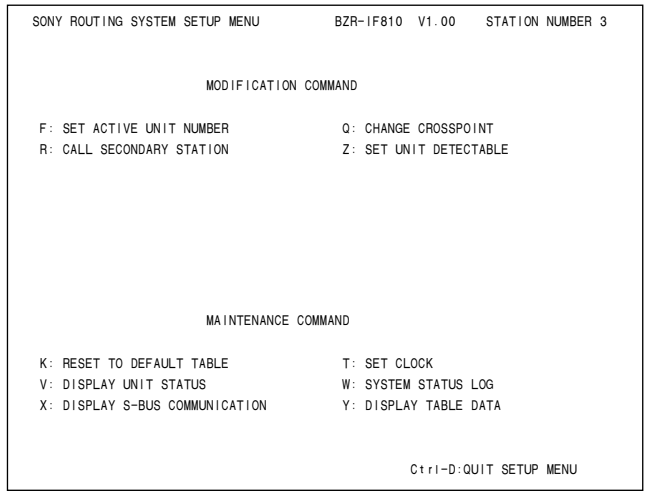
Setting Screen

The setting screen appears when any of the setup item is selected from the primary station or the secondary station menu screen.
The actual setting is performed on this screen.
Because the screens are different depending upon the setting items, the screen examples are shown in the respective setting items (Sections 2-5 and 2-6, 2-7, 2-8.)

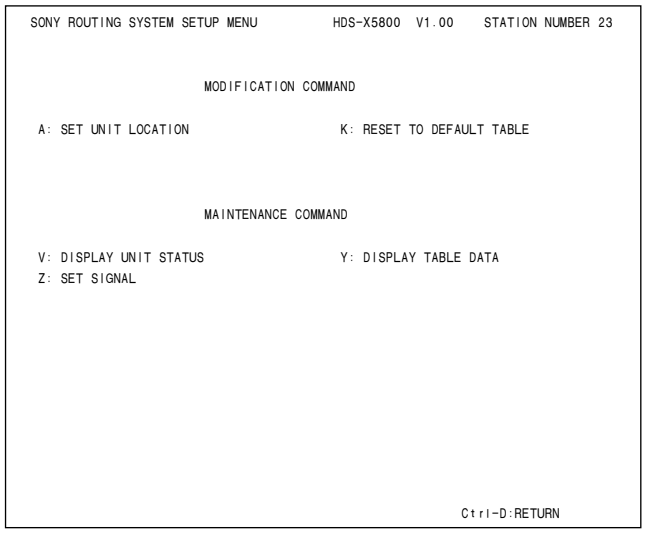
When Ctrl – E are pressed on the secondary station setting screen, the display returns to the secondary station menu screen. When Ctrl – D are pressed, the display returns to the primary station menu screen.
When Ctrl – E are pressed on the primary station setting screen, the display returns to the primary station menu screen.

Note

Response of the routing switcher system becomes slower while the menu screen or the setup screen is being displayed when compared with the response on the system status screen. For avoiding this trouble, return the display to the system status screen when the setting up is completed.



Secondary station menu screen (BZR-IF810)



Example of secondary station menu screen (HDS-X5800)

Menu identity

Primary station menu	IXS	R80	X5800
A : SET CONTROL AREA	○	○	○
B : SET SOURCE/DEST TYPE	○	○	○
C : SET DESTINATION NAME	○	○	○
D : SET SOURCE NAME	○	○	○
E : SET LEVEL TABLE	○	○	○
F : SET ACTIVE UNIT NUMMBER	○	○	○
G : UPDATE BACKUP CONTROLLER	○	○	○
H : SET GLOBAL PHATOM	○	○	○
I : SET INDEX NUMBER	○	○	○*1
J : NAME STYLE	○	○	○
L : SET PHYSICAL ASSIGNMENT	○	○	○
M : SET INHIBIT TABLE	○	○	○
N : SET DESCRIPTION NAME GROUP	○	○	○
O : SET TIE LINES	○	○	○
P : CHANGE PASSWORD	○	○	○
Q : CHANGE CROSSPOINT	○	○	○
R : CALL SECONDARY STATION	○	○	○
S : SET SOURCE ASSIGNMENT	○	○	○
T : SET CLOCK	○	○	○
U : DISPLAY ETHERNET SECONDARY STATION	○	○*2	None
W : SYSTEM STATUS LOG	○	○	○
X : DISPLAY S-BUS COMMUNICATION	○	○	○
Z : SET UNIT DETECTABLE	○	○	○

∗1 : Added to HDS-X5800 in V1.42.
∗2 : Added to HKSP-R80 in V1.14.

Secondary station menu	IXS	R80	X5800
A : SET UNIT LOCATION	○	△	□
K : RESET TO DEFAULT TABLE	○	○	○
V : DISPLAY UNIT STATUS	○	△	□
W : SAVE CURRENT TABLE	○	○	None
Y : DISPLAY TABLE DATE	○	○	○
Z : SET SIGNAL	○	None	□

2-4. Web Setting

The setting menu of the primary station and the secondary station can be set on the Web browser.

Applicable models:

Primary station: IXS-6600/IXS-6700 (V2.0 or higher)
Secondary station: IXS-6600/IXS-6700 (V2.0 or higher), HDS-X5800

Supported browser: Internet Explorer 6 or higher

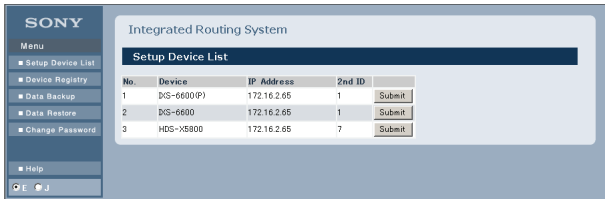
Setting procedure

1. Check the network settings and connection.
   (For details, refer to “Section 1-9-2. Network connection” and “Section 1-11. Setting the IP Address” in the Installation Manual (CD-ROM) supplied with IXS-6600/IXS-6700.)

   Note

   Be sure to connect both the NETWORK A and B Connectors to the Ethernet.

2. Open Internet Explorer.
3. Enter the IP address of the backup area specified on IXS-6600/6700 (the value entered in IPADRS B on the screen displayed when S1204 on the CA-65 board is set to E) after “http://”, and press Enter.
4. You will be asked your account name and password. Enter “webuser” for the account name, and “sonyrouter” for the password. The following screen appears. For details on the Web setting menu, refer to Help on the lower left side of the screen.



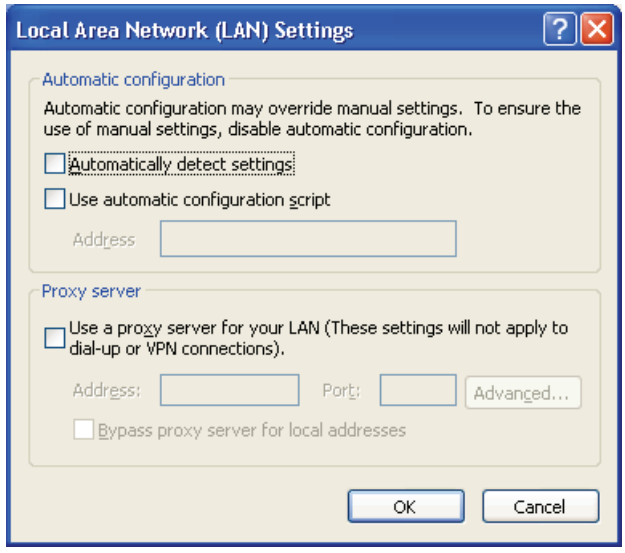
Note

If you are not asked your account name or password, check whether the following items are correctly set on Internet Explorer.

1) IP address specification
2) Internet connection settings
3) Security settings
4) Java Script ON/OFF

Note

The following screen shows a setting example for displaying the Web setting screen.



Procedure

1. Open [Internet Options] from [Tools] in the Menu bar, and select the [Connections] tab.
2. Click [LAN Settings], and deselect all the check boxes in the [Local Area Network (LAN) Settings] window.

Note

The Web setting function uses Java Script. In the Web setting screen, do not click [Refresh] or [Back] button of the browser.

2-5. Setting Items of the Primary Station

A : SET CONTROL AREA

(IXS-6600/6700 V1.00 and higher)
(HKSP-R80 V1.10 and higher)
(HDS-X5800 V1.42 and higher)

Purpose

Sets the sources range and the destinations range of the whole routing switcher system to be controlled by the primary station. An arbitrary name of primary station for this controller can also be set on this screen.
Normally, 1 to 1024 is set for both source and destination. But in a large system that uses a 4093 × 4093 controller, this item sets where the matrix space that the primary station controls is located in the 4093 × 4093 space.

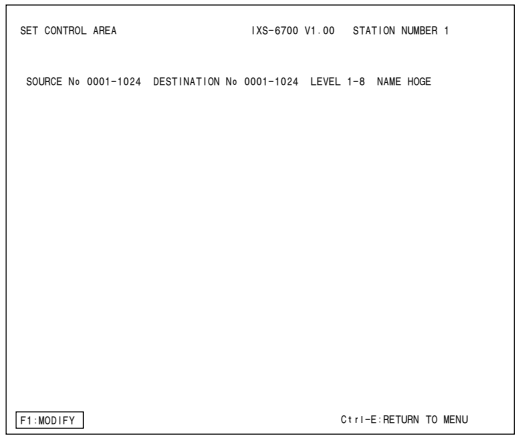
Setting procedure

1. Select [A] from the menu screen.
2. Select the desired setting item using the cursor.
3. Press Enter. Range of sources, range of destinations, and name (item [NAME]) for the primary station become ready to be set.
4. Enter the range of sources and the range of destinations using the numeric keys. Input the desired name for primary station using alphanumeric keys (four characters at a maximum). The maximum values that can be set for the range of sources and for the range of destinations are shown below.

	Source	Destination
Maximum value that can be set	4093	4093
Maximum size (range) that can be set	1024	1024

Example : "1025-2048" (Setup size 1024): OK
"0001-2048" (Setup size 2048): NG

5. Press Enter. The setup values are registered.
If Ctrl – F are pressed before pressing the Enter, the values return to the original value before entering the data.



Example of setting screen

Operating function keys

F1 : MODIFY
Press F1. The source value and the destination value that are assigned to the index number (INDEX) indicated by the menu item "I: SET INDEX NUMBER" are changed. The top values of the source and destination ranges that are set by this menu are added respectively to the values set as the source and destination by the menu item "I". For example, assume that case that you set the source to "SOURCE No. 0001-1025". If the top value of the source changed from 0001 to 1024, the difference between the top values becomes 1024 (1025 − 1 = 1024). When the original indication of SRC in the menu item "I" starts with 0001, 0002, 1001, 1002, and so on, the indication is changed to 1025, 1026, 2025, 2026, and so on after F1 is executed. This occurs because the difference between the top values (i.e., 1024 in this example) is added to every source number.

Note

The control area of the menu item [A] means the control area of the whole routing system, and not the input/output areas of the primary station routing switcher.
To set the location of the input/output terminal of the primary station routing switcher, call the secondary station menu screen by selecting [R : CALL SECONDARY STATION] from the menu screen and type the station number [1], and then select [A : SET UNIT LOCATION].

To return to the menu screen

Press Ctrl – E.

Notes

- When LEVEL : 1-16* is selected, DESTINATION No. is fixed to 0001-0512.
  When the level is changed from LEVEL : 1-8* to LEVEL : 1-16* , the destination value already set for LEVEL : 1-8* changes to 0001-0512.
  When the level is changed to LEVEL : 1-8* , the original setting value is displayed.

∗ : You can change the level in "E : SET LEVEL TABLE". Pressing F3 (LEVEL) toggles between LEVEL : 1-18 and LEVEL : 1-16.

- BZR-IF830 does not support LEVEL : 1-16.

A : DISPLAY CONTROL AREA

(HKSP-R80 V1.00-V1.01)
(HDS-X5800 V1.00-V1.42)

Purpose

Checks the source and destination area of the whole routing system to be controlled by the primary station. There are no items to be typed or to be set on this screen.

Checking procedure

1. Select [A] from the menu screen.
2. The following screen appears.

Example of setting screen

```
DISPLAY CONTROL AREA                HKSP-R80  V1.00  STATION NUMBER 1

SOURCE No 0001-1024    DESTINATION No 0001-1024  LEVEL 1-8

                                                  Ctrl-E:RETURN TO MENU
```

When LEVEL: 1-16 is set on the [E : SET LEVEL TABLE] screen, the message [SOURCE No 0001-1024 DESTINATION No 0001-0512 LEVEL 1-16] appears.

Note

The control area of the menu item [A] means the control area of the whole routing system, and not the input/output areas of the primary station.
To set the location of the primary station input/output terminal, call the secondary station menu screen by selecting [R : CALL SECONDARY STATION] from the menu screen and type the station number [1], and then select [A : SET UNIT LOCATION] of the secondary station.

To return to the menu screen

Press Ctrl – E.

B : SET SOURCE/DEST TYPE

Purpose

Sets the type name of the source and destination, and that of the global phantom. (For details about the type name, refer to Appendix B “Type + Number” name mode (Type + Num)).
Set the type names in accordance with the types and usage of the input/output signals.
In addition, this item sets the data type of terminal numbers 1 to 512 to the 16 type data or the 32 type data.

Setting procedure of type name

1. Select [B] from the menu screen.
2. Use the cursor or alphabet/numerical keys and select the codes for the type name to be registered from the 32 character codes (0 to 9 and A to V) displayed on the screen.
3. When Ctrl – P are pressed, the setting of the type name will be canceled, and “. . . .” will be displayed.
4. Press Enter to enter the type name entry mode. To cancel the type name entry mode, press Enter before inputting the type name. The screen shows “. . . .” and the cursor moves to the next code.
5. Use the alphabet and numerical keys to enter the type name (within four letters).
6. Press Enter. The type name is set and the cursor moves to the next position.
   If Ctrl – F are pressed before the setting, the type name returns to the original type name before entry.

```
SOURCE/DEST/PHANTOM TYPE          IXS-6700   V1.00   STATION NUMBER 1

TYPE:32

0=IN    1=OUT   2=....  3=....  4=....  5=....  6=....  7=....
8=....  9=....  A=....  B=....  C=....  D=....  E=....  F=....
G=....  H=....  I=....  J=....  K=....  L=....  M=....  N=....
O=....  P=....  Q=....  R=....  S=....  T=....  U=....  V=....

F1:TYPE                                          Ctrl-E:RETURN TO MENU
```

Example of setting screen

Setting procedure of number of types

1. Press [F1].
   [Do you change the type number? Y or N] appears.
2. Press [Y]. Number of types is changed to 16.
   If you want to return the number of types to 32, repeat steps 1 and 2.

   Note

   If number of types is changed from 32 to 16, names of the terminals to which the type number of 17 to 32 are given, cannot be returned to the original names.

The terminal name from No. 1 to No. 512

- TYPE : 16 The names up to 16 types can be used. When the S-P1 type remote control panel or the display unit is used in the system, select the TYPE 16.
- TYPE : 32 The names up to 32 types can be used. When the S-P1 type remote control panel or the display unit is used in the system, the correct display or correct operation cannot be performed.

Name of the terminals from No.513 to No.1024 are fixed to type 32 without affected by this setting.

To return to the menu screen

Press [Ctrl] – [E].

C : SET DESTINATION NAME

Purpose

Sets the destination name and protect function of each output. (For details about the protect function, refer to Appendix B “Protect”.)
A number between 001 to 999 and a type name set at the menu item [B : SET SOURCE/DEST TYPE] can be set to each destination as the destination name. Description name can be set by changing the name mode at the menu item [J : NAME STYLE]. For details of setting the name, refer to [J] in the menu. (For details about the Description name, refer to Appendix B “Description name mode”.)

Setting procedure of destination name

1. Select [C] from the menu screen.
2. Press the cursor keys or the function keys to select the desired destination number.
3. Press [Ctrl] – [P]. The set destination name will be deleted and “ . . . . ” will be displayed.
4. Press [Enter]. The destination name can be typed.

   Note

   If [Enter] is pressed again before entering a name, the entry will be canceled and the cursor moves to the next terminal number.

5. Select a type name that you want to set, from the corresponding code (0 to 9, A to V) in the bottom of screen and type the code. Then type a number (0 to 999) that you want to set using numeric keyboard.

   Note

   “000” cannot be added to the name of the type number “0”.
   For example, in the case of 0=IN (the name of the type number “0” is IN), “IN000” cannot be set.

6. Press [Enter]. The destination name will be set and the cursor moves to the next terminal number.
   If [Ctrl] – [F] are pressed before the setting, the original destination name will be returned.

Note

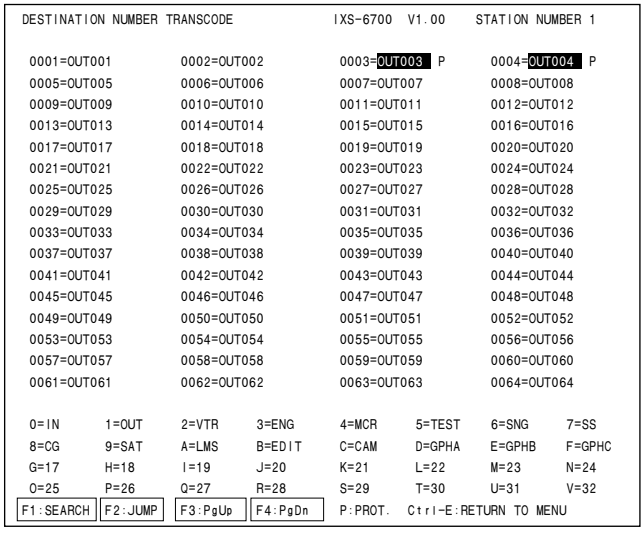
The same destination name cannot be set at more than two destinations. If this is done, an error message will be displayed at the bottom of the screen.
Display example : “＊＊＊＊＊ is used already; Ignored”
Destination name

Setting procedure of protect function

1. Select the destination name using the cursor, and then press [P]. "P" is displayed after the selected destination name and the protect function is set.
   Protect function cannot be set for a number whose destination name has not been assigned.
2. To release the protect function, select the destination name and press [P] once again.

Notes

- If a destination name is high-lighted, it indicates that the protect function is set from control terminal. If the protect is set from a remote control panel, the destination name is not high-lighted.
- To change the protected destination name, release the protection first before beginning the modification process.



Example of setting screen

Operating function keys

[F1] : SEARCH (To move the cursor to the desired destination name.)

1. Press [F1]. "Please Input DEST NAME =" will be displayed.
2. Input the destination name ([Code number in the bottom of the screen] + [numeral (0 to 999]) to be retrieved.
3. Press [Enter]. The cursor will move to the desired destination name.

Note

When menu item [J] is set to the Description name mode, [F1] (SEARCH) will have the following functions.

1. Press [F1]. "Please Input DEST NAME =" will be displayed.
2. Enter the Description name (within seven characters) from the head.
3. Press [Enter]. The Description name entered will be searched and the page including the name appears on the screen.
4. If the desired name does not exist in the screen, press [F1] again. Then the cursor moves to the next description name containing the character string that you want to retrieve.

[F2] : JUMP (To move the cursor to the destination number.)

1. Press [F2]. "Please Input DEST NUMBER =" will be displayed.
2. Input the destination number to be retrieved.
3. Press [Enter]. The cursor will move to the desired number.

[F3] : PgUp
When [F3] is pressed, the screen will display the 16 lines previous to the 16 lines displayed currently.

[F4] : PgDn
When [F4] is pressed, the screen will display the 16 lines next to the 16 lines displayed currently.

To return to the menu screen

Press [Ctrl] – [E].

D : SET SOURCE NAME

Purpose

Sets the source name and secret function. (For details about the secret function, refer to Appendix B “Secret”.) A number between 001 to 999 and a type name set at the [B : SET SOURCE/DEST TYPE] can be set to each source name. Description name can be set by changing the name mode at [J : NAME STYLE] in the menu. For details of setting the name, refer to [J] in the menu. (For details about the Description name, refer to Appendix B “Description name mode”.)

Setting procedure of source name

1. Select [D] from the menu screen.
2. Select a terminal number of source you want to set using the cursor key or function key.
3. Press Ctrl – P. The set source name will be deleted, and “. . . .” will be displayed.
4. Press Enter. The entry mode of source name is set.

   Note

   If Enter is pressed before inputting the source name, the entry mode is cancelled and the indication changes to “. . . .”, and the cursor moves to the next terminal number.

5. Select a type name that you want to select from the corresponding code (0 to 9, A to V) in the bottom of screen and type the code. Then type a number (0 to 999) that you want to set using numeric keyboard.

   Note

   “000” cannot be added to the name of the type number “0”.

   For example, in the case of 0=IN (the name of the type number “0” is IN), “IN000” cannot be set.

6. Press Enter. The input source name is set and the cursor moves to the next terminal number.
   If Ctrl – F are pressed before the setting, the source name returns to the original source name before entry.

Note

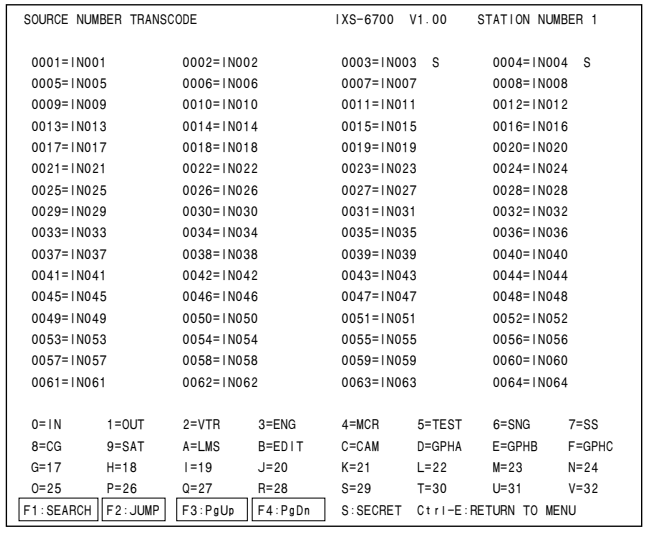
The same name cannot be given to assigned to two or more sources. If this is done, an error message will be displayed at the bottom of the screen.

Display example : “＊＊＊＊＊ is used already; Ignored”

Source name

Setting procedure of secret function

1. Select the source name using the cursor, and press S. “S” is displayed after the source name, and the secret is set. Secret cannot be set for a number whose source name has not been assigned.
2. To release the secret function, select the source name and press S once again.



Example of setting screen

Operating function keys

F1 : SEARCH (To move the cursor to the desired source name.)

1. Press F1. "Please Input SOURCE NAME =" will be displayed.
2. Input the source name ([Code number in the bottom of the screen] + [numeral (0 to 999]) to be retrieved.
3. Press Enter. The cursor will move to the desired source name.

Note

When menu item [J] is set to the Description name mode, F1 (SEARCH) will have the following functions.

1. Press F1. "Please Input SOURCE NAME =" will be displayed.
2. Enter the Description name (within seven characters) from the head.
3. Press Enter. The corresponding Description name will be searched in the range of the entered characters and the page including the name appears on the screen.
4. If the desired name does not exist in the screen, press F1 again. Then the cursor moves to the next description name containing the character string that you want to retrieve.

F2 : JUMP (To move the cursor to the source number.)

1. Press F2. "Please Input SOURCE NUMBER=" will be displayed.
2. Input the source number to be retrieved.
3. Press Enter. The cursor will move to the desired number.

F3 : PgUp

When F3 is pressed, the screen will display the 16 lines previous to the 16 lines displayed currently.

F4 : PgDn

When F4 is pressed, the screen will display the 16 lines next to the 16 lines displayed currently.

To return to the menu screen

Press Ctrl – E.

E : SET LEVEL TABLE

Purpose

Sets level name, sets whether the levels that are set for the respective terminals are made valid or invalid, and sets number of levels.

Level name setting procedure

1. Select [E] from the menu screen.
2. Press the cursor keys to select the level number.
3. Press Enter to enter the level name entry mode.
4. Enter the level name using the alphabet and numerical keys (within four characters).
5. Press Enter. The level name will be set.
   If Ctrl – F are pressed before the setting, the original level name will be returned.

Procedure to make the levels valid or invalid

When level names are set, these names appear automatically in the level column of the respective output terminals. In this status, all the levels are set to be valid at each output terminal.

If you want to make the level invalid, move the cursor to the level name that you want to make invalid and press Enter. The level name changed to ". . . ." and the setting of the level is made invalid.

If you want to return the invalidated level to valid, move the cursor to ". . . ." and press Enter. The original level will be restored.

Note

If the destination name is not set, the number of the destination will not be displayed.

Setting number of levels

Every pressing of F3 toggles between the LEVEL: 1-8 display and the LEVEL : 1-16 display on the 2nd line.

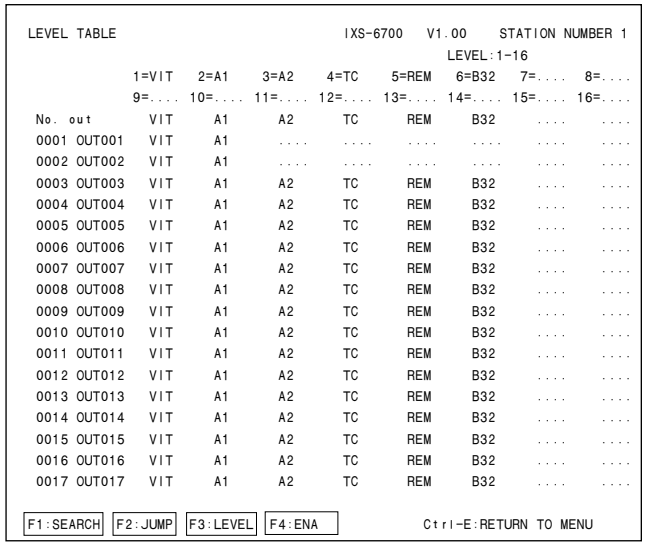
About LEVEL: 1-16

When the system is used with the LEVEL 1-16, the remote control panel that supports the LEVEL 1-16 becomes necessary.

To realize 16 levels, the number of outputs of eight levels is halved and overlapped. Therefore, the number after 513 does not exist.

The following table shows the range of the level 8 and level 16 destinations.

	Destination	level
Level 8	1 to 1024	8
Level 16	1 to 512	16



```
LEVEL TABLE                              IXS-6700   V1.00    STATION NUMBER 1
                                                          LEVEL:1-16
            1=VIT   2=A1    3=A2    4=TC    5=REM   6=B32   7=....  8=....
            9=....  10=.... 11=.... 12=.... 13=.... 14=.... 15=.... 16=....
 No. out      VIT     A1      A2      TC      REM     B32     ....    ....
 0001 OUT001  VIT     A1      ....    ....    ....    ....    ....    ....
 0002 OUT002  VIT     A1      ....    ....    ....    ....    ....    ....
 0003 OUT003  VIT     A1      A2      TC      REM     B32     ....    ....
 0004 OUT004  VIT     A1      A2      TC      REM     B32     ....    ....
 0005 OUT005  VIT     A1      A2      TC      REM     B32     ....    ....
 0006 OUT006  VIT     A1      A2      TC      REM     B32     ....    ....
 0007 OUT007  VIT     A1      A2      TC      REM     B32     ....    ....
 0008 OUT008  VIT     A1      A2      TC      REM     B32     ....    ....
 0009 OUT009  VIT     A1      A2      TC      REM     B32     ....    ....
 0010 OUT010  VIT     A1      A2      TC      REM     B32     ....    ....
 0011 OUT011  VIT     A1      A2      TC      REM     B32     ....    ....
 0012 OUT012  VIT     A1      A2      TC      REM     B32     ....    ....
 0013 OUT013  VIT     A1      A2      TC      REM     B32     ....    ....
 0014 OUT014  VIT     A1      A2      TC      REM     B32     ....    ....
 0015 OUT015  VIT     A1      A2      TC      REM     B32     ....    ....
 0016 OUT016  VIT     A1      A2      TC      REM     B32     ....    ....
 0017 OUT017  VIT     A1      A2      TC      REM     B32     ....    ....

 F1:SEARCH  F2:JUMP  F3:LEVEL  F4:ENA          Ctrl-E:RETURN TO MENU
```

Example of setting screen

Operating function keys

F1 : SEARCH (To move the cursor to the desired destination name.)

1. Press F1. "Please Input DEST NAME =" will be displayed.
2. Input the destination name ([Code number in the bottom of the screen] + [numeral (0 to 999]) to be retrieved.
3. Press Enter. The cursor will move to the desired destination name.

Note

When menu item [J] is set to the Description name mode, F1 (SEARCH) will have the following functions.

1. Press F1. "Please Input DEST NAME =" will be displayed.
2. Enter the Description name (within seven characters) from the head.
3. Press Enter. The corresponding Description name will be searched in the range of the entered characters and the page including the name appears on the screen.
4. If the desired name does not exist in the screen, press F1 again. Then the cursor moves to the next description name containing the character string that you want to retrieve.

F2 : JUMP (To move the cursor to the number of the desired destination.)

1. Press F2. "Please Input DEST NUMBER =", will be displayed.
2. Input the destination number to be retrieved.
3. Press Enter. The cursor will move to the desired destination number.

F3 : LEVEL (Display is switched between LEVEL : 1-8 and LEVEL : 1-16.)
Each time F3 is pressed, the screen display toggles between LEVEL : 1-8 and LEVEL : 1-16 on the 2nd line.

F4:ENA (ENABLE/DISABLE)
On the terminal menu Q: CHANGE CROSSPOINT screen (to be abbreviated simply as Q screen hereunder), the cross-points can be switched in the same way as from remote control panel. When the F4 display is DISABLE, the terminal menu E: SET LEVEL TABLE setup (specifying which level is used for switching the respective outputs) is reflected on the operations on the Q screen. For example, when the output No. 57 is set to level 3 only from the E screen, only the level 3 command is output when the output No. 57 is switched from the All Level Selector screen of the Q screen. When the F4 display is ENABLE, the setup of the E screen will not affect operations of the Q screen.
Whenever F4 is pressed, the display is toggled between F4:ENA and F4:DIS.

To return to the menu screen

Press Ctrl – E.

F : SET ACTIVE UNIT NUMBER

Purpose

Enables the units that are connected to the S-BUS data link for mutual communication with S-BUS protocol. (For details, refer to Appendix B “Active: Decide remote control panels that can be active on the S-BUS”.)

Setting procedure

1. Select [F] from the menu screen.
2. Select the station ID of the secondary station that you want to make the communication valid using the cursor key.
   For example, if you want to set the station ID21, select the line “1” from the lines “021 - 040”.
3. Every time the Enter button is pressed, it toggles between “E” and blank. Select “E” to make the communication valid. The display “M” means the primary station. 255 and later, which are outside of the connection range, is displayed as “*”. When A is pressed, all communications are made valid. When C is pressed, all communication are made invalid.

Note

The response will become slower if there are many secondary stations.

```
ENABLE ACTIVE UNIT FOR STATION NUMBER   IXS-6700  V1.00    STATION NUMBER 1

          1  2  3  4  5   6  7  8  9 10  11 12 13 14 15  16 17 18 19 20
             +
001-020   M  E  E  E  E   E  E  E  E  E   E  E  E  E  E   E  E  E  E  E
021-040   E  E  E  E  E   E  E  E  E  E   E  E  E  E  E   E  E  E  E  E
041-060   E  E  E  E  E   E  E  E  E  E   E  E  E  E  E   E  E  E  E  E
061-080   E  E  E  E  E
081-100
101-120
121-140
141-160
161-180
181-200
201-220
221-240
241-254                                              *   *  *  *  *  *

                                                  Ctrl-E:RETURN TO MENU
```

Example of setting screen

To return to the menu screen

Press Ctrl – E.

G : UPDATE BACKUP CONTROLLER

Purpose

Use this menu to copy the table data stored in the main CPU board of the primary station to the backup CPU board.

Note

With HKSP-R80 and HDS-X5800, this item is only valid when the backup CPU board is installed in the primary station.

Setting procedure

1. Select [G] from the menu screen. The message “This process requires about * minutes. Execute? (y/n)” will be displayed at the bottom of the screen. The value “*” in the message “* minutes” is different depending on the version number or the type.
2. Press Y. Table data copying is performed. To cancel copying, press Ctrl – D.

Note

The ROM version of the main CPU board and that of the backup CPU board must be the same. The versions can be checked by the “V: DISPLAY UNIT STATUS” menu item of the secondary station. If different versions are used, the unit may hang up due to copying. Remove the backup CPU board when this occurs.
The data will be copied in one hour approximately by the auto backup function even if the copying operation is not executed.

To return to the menu screen

Press Ctrl – E.

H : SET GLOBAL PHANTOM

Purpose

Sets the phantom data in the primary station as the global phantom. A maximum of 2800 cross-points can be registered in the phantom data. (For details about phantom, refer to Appendix B "Phantom".)

Setting procedure

1. Select [H] from the menu screen. The global phantom list will be displayed.

```
GLOBAL PHANTOM LIST                          IXS-6700  V1.00   STATION NUMBER 1
                                                       (2001 REMAIN)
 No.  NAME          No.  NAME           No.  NAME          No.  NAME

 0001 GPHA001       0002 GPHA002        0003 GPHA003       0004 GPHA004
 0005 GPHA005       0006 GPHA006        0007 GPHA007       0008 GPHA008
 0009 .......       0010 GPHA010        0011 GPHA011       0012 GPHA012
 0013 GPHA013       0014 GPHA014        0015 .......       0016 GPHA016
 0017 GPHA017       0018 GPHA018        0019 GPHA019       0020 GPHA020
 0021 GPHA021       0022 .......        0023 GPHA023       0024 GPHA024
 0025 GPHA025       0026 GPHA026        0027 GPHA027       0028 .......
 0029 GPHA029       0030 GPHA030        0031 GPHA031       0032 GPHA032
 0033 GPHA033       0034 GPHA034        0035 .......       0036 GPHA036
 0037 GPHA037       0038 GPHA038        0039 GPHA039       0040 GPHA040
 0041 .......       0042 GPHA042        0043 GPHA043       0044 GPHA044
 0045 GPHA045       0046 GPHA046        0047 GPHA047       0048 GPHA048
 0049 GPHA049       0050 GPHA050        0051 GPHA051       0052 GPHA052
 0053 GPHA053       0054 .......        0055 GPHA055       0056 .......
 0057 GPHA057       0058 GPHA058        0059 GPHA059       0060 GPHA060
 0061 GPHA061       0062 GPHA062        0063 GPHA063       0064 GPHA064

F1:SEARCH  F2:JUMP  F3:PgUp  F4:PgDn              Ctrl-E:RETURN TO MENU
```

Example of Global Phantom List Screen

2. Select any global phantom number with the cursor or function key and press [Enter]. The edit screen will be displayed.
   The cursor moves where the global phantom name is typed.
   ① : Global phantom number
   ② : Global phantom name

```
EDIT GLOBAL PHANTOM                          IXS-6700  V1.00   STATION NUMBER 1
(0001)(GPHC001)——②                                      (1055 REMAIN)
①        LEVEL: 1=VIT   2=A1    3=A2     4=TC    5=REM   6=B32   7=....  8=....
OUT001 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT002 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT003 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT004 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT005 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT006 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT007 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT008 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT009 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT010 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT011 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT012 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT013 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT014 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....
OUT015 <IN001    VIT     A1      A2       TC      REM     B32     ....    ....

 0=IN     1=OUT    2=VTR    3=ENG    4=MCR    5=TEST   6=SNG    7=SS
 8=CG     9=SAT    A=LMS    B=EDIT   C=CAM    D=GPHA   E=GPHB   F=GPHC
 G=17     H=18     I=19     J=20     K=21     L=22     M=23     N=24
 O=25     P=26     Q=27     R=28     S=29     T=30     U=31     V=32
F1:SEARCH  F2:ADD  F3:DELETE  F4:DstLvl     Ctrl-E:RETURN TO LIST MENU
```

Example of Global Phantom Edit Screen

3. Press [Enter] to enter the global phantom name entry mode.
4. Select a type name that you want to select from the corresponding code (0 to 9, A to V) in the bottom of screen and type the code. Then type a number (0 to 999) that you want to set using numeric keyboard.
   Press [Enter] to set it. Press [Ctrl] – [P] to delete the phantom name.
5. Move the cursor to the place (OUTxxx column on the edit screen example) to input the destination and press [Enter]. The entry mode is established.
6. Input the destination name in the same way as setting the destination name and press [Enter] to set it.
7. Input the source name in the same way as setting the destination name and press [Enter].
8. Move the cursor to the cross-point level entry position. The cross-points where the level names are shown, are in the status that the cross-point level is already set (made valid). If you want to make it invalid, press [Enter]. The message ". . . ." appears and the level is made invalid.
   Press [Ctrl] – [E] to return the menu to the initial screen [H].

Operating function keys (Global phantom list screen)

[F1] : SEARCH (To move the cursor to the desired global phantom name.)

1. Press [F1]. "Please Input PHANTOM NAME =" will be displayed.
2. Input the global phantom name ([Code number in the bottom of the screen] + [numeral (0 to 999]) to be retrieved.
3. Press [Enter]. The cursor will move to the desired name.

Note

When the menu item [J] is set to the description name mode, [F1] (SEARCH) will have the following function.

1. Press [F1]. "Please Input DEST NAME =" is displayed on the screen.
2. Enter the description name that you want to retrieve within 7 characters from the top.
3. Press [Enter]. The corresponding description name within the range of the entered character will be retrieved, and the pages containing the name will be displayed on the screen.
4. If the desired name cannot be found on the displayed page, press [F1] again. Then the cursor moves to the next description name containing the character string that you want to retrieve.

F2 : JUMP (To move the cursor to the desired global phantom number.)
1. Press F2. "Please Input PHANTOM NUMBER =" will be displayed.
2. Input the global phantom to be retrieved.
3. Press Enter. The cursor will move to the desired number.

F3 : PgUp
When F3 is pressed, the screen will display the 16 lines previous to the 16 lines displayed currently.

F4 : PgDn
When F4 is pressed, the screen will display the 16 lines next to the 16 lines displayed currently.

Operating function keys (Edit screen of global phantom)

F1 : SEARCH (To move the cursor to any source name or destination name.)
All of the operating procedures remains the same as those of other F1 operations.

F2 : ADD (To add the row of cross-points to be registered as the global phantom.)

F3 : DELETE (To delete the cross-points)
1. Select the destination name to be deleted using the cursor.
2. Press F3.

F4 : DstLvl (To return the level of the cross-point where the cursor is located, to the level of the destination, that is set by the menu item [E : SET LEVEL TABLE].)
1. Select the destination name to be returned to the initial level using the cursor.
2. Press F4.

Note

When the name mode of menu item [J] is switched, the destination and source names displayed on the global phantom edit screen will change.

To return to the menu screen

Press Ctrl – E.

I : SET INDEX NUMBER

(IXS-6600/6700 V1.00 and higher)
(HKSP-R80 V1.10 and higher)
(HDS-X5800 V1.42 and higher)

Purpose

Assigns the virtual terminal numbers of the virtual space in the S-BUS space (i.e., the S-BUS space of the maximum 4093 × 4093 controlled by the 4093 × 4093 controller) to the source index numbers and destination index numbers of the index space (maximum 1024 × 1024) that is the space to which the remote control panel refers.
(Refer to "4. Technical Information".)

Setting procedure

1. Select [I] from the menu screen.
2. Every time F1 is pressed, the screen toggles between the source index number setting screen ↔ the destination index number setting screen.

Source index number setting procedure

3. Select the source index number setting screen.
4. Select the desired index terminal number using the cursor key. Press Enter to enter the entry mode.
5. Input the virtual terminal number (1 to 4093) using the numeric keys.
6. Press Enter again to set the entry.
If Ctrl – F are pressed before pressing the Enter, the index number returns to the original number before entry.

SET SOURCE INDEX NUMBER IXS-6700 V1.00 STATION NUMBER 1

INDEX	SRC	INDEX	SRC	INDEX	SRC	INDEX	SRC
0001	0001	0002	0002	0003	0003	0004	0004
0005	0005	0006	0006	0007	0007	0008	0008
0009	0009	0010	0010	0011	0011	0012	0012
0013	0013	0014	0014	0015	0015	0016	0016
0017	0017	0018	0018	0019	0019	0020	0020
0021	0021	0022	0022	0023	0023	0024	0024
0025	0025	0026	0026	0027	0027	0028	0028
0029	0029	0030	0030	0031	0031	0032	0032
0033	0033	0034	0034	0035	0035	0036	0036
0037	0037	0038	0038	0039	0039	0040	0040
0041	0041	0042	0042	0043	0043	0044	0044
0045	0045	0046	0046	0047	0047	0048	0048
0049	0049	0050	0050	0051	0051	0052	0052
0053	0053	0054	0054	0055	0055	0056	0056
0057	0057	0058	0058	0059	0059	0060	0060
0061	0061	0062	0062	0063	0063	0064	0064
0065	0065	0066	0066	0067	0067	0068	0068
0069	0069	0070	0070	0071	0071	0072	0072
0073	0073	0074	0074	0075	0075	0076	0076
0077	0077	0078	0078	0079	0079	0080	0080

F1:DEST F2:JUMP F3:PgUp F4:PgDn F5:INIT Ctrl-E:RETURN TO MENU

Example of source index number setting screen

Destination index number setting procedure

7. Press F1 to select the destination index number setting screen.
8. Select the desired destination index number using the cursor key. Press Enter to enter the entry mode.
9. Input the virtual terminal number (1 to 4093) using the numeric keys.
10. Press Enter again to set the entry.
If Ctrl – F are pressed before pressing the Enter, the index number returns to the original number before entry.

```
SET DESTINATION INDEX NUMBER          IXS-6700  V1.00    STATION NUMBER 1

 INDEX    DEST      INDEX    DEST      INDEX    DEST      INDEX    DEST
 0001  =  0001      0002  =  0002      0003  =  0003      0004  =  0004
 0005  =  0005      0006  =  0006      0007  =  0007      0008  =  0008
 0009  =  0009      0010  =  0002      0011  =  0003      0012  =  0004
 0013  =  0013      0014  =  0014      0015  =  0015      0016  =  0016
 0017  =  0017      0018  =  0018      0019  =  0019      0020  =  0020
 0021  =  0021      0022  =  0022      0023  =  0023      0024  =  0024
 0025  =  0025      0026  =  0026      0027  =  0027      0028  =  0028
 0029  =  0029      0030  =  0030      0031  =  0031      0032  =  0032
 0033  =  0033      0034  =  0034      0035  =  0035      0036  =  0036
 0037  =  0037      0038  =  0038      0039  =  0039      0040  =  0040
 0041  =  0041      0042  =  0042      0043  =  0043      0044  =  0044
 0045  =  0045      0046  =  0046      0047  =  0047      0048  =  0048
 0049  =  0049      0050  =  0050      0051  =  0051      0052  =  0052
 0053  =  0053      0054  =  0054      0055  =  0055      0056  =  0056
 0057  =  0057      0058  =  0058      0059  =  0059      0060  =  0060
 0061  =  0061      0062  =  0062      0063  =  0063      0064  =  0064
 0065  =  0065      0066  =  0066      0067  =  0067      0068  =  0068
 0069  =  0069      0070  =  0070      0071  =  0071      0072  =  0072
 0073  =  0073      0074  =  0074      0075  =  0075      0076  =  0076
 0077  =  0077      0078  =  0078      0079  =  0079      0080  =  0080
 F1:SRC  F2:JUMP  F3:PgUp  F4:PgDn  F5:INIT      Ctrl-E:RETURN TO MENU
```

Example of destination index number setting screen

Operating function keys

F1 : SRC (DEST)
Every time F1 is pressed, the screen toggles between the source index number setting screen and the destination index number setting screen.

F2 : JUMP (To move the cursor to the desired destination or to the desired source number)
1. Press F2. "Please Input DEST (SOURCE) NUMBER=" is displayed.
2. Input the destination (source) number to be retrieved.
3. Press Enter. The cursor moves to the desired number.

F3 : PgUp
When F3 is pressed, the screen will display the 20 lines previous to the 20 lines displayed currently.

F4 : PgDn
When F4 is pressed, the screen will display the 20 lines next to the 20 lines displayed currently.

F5 : INIT
1. Press F5. "RESET TO DEFAULT OK? y/n" is displayed.
2. Press Y. The value of the SRC (DEST) is changed in accordance with the value set by the menu item "A" (A: SET CONTROL AREA). The SRC value and the DEST value are initialized using the top value of the range of source and destination that is set by the menu item "A". For example, if you set "SOURCE No. 1025-2048", and when the original indication of SRC starts with 0001, 0002, 1001, 1002..., and so on, the indication is changed to 1025, 1026, 1027, 1028... and so on after F5 is executed.

To return to the menu screen

Press Ctrl – E.

J : NAME STYLE

Purpose

Switches the name styles of the destination and source. The "Type + Number" name (Type + Num) or "Description" name (DESCRIP. NAME) can be set. (For details about the "Type + Number" name and the Description name, refer to Appendix B "Type + Number" name mode and Description name mode respectively.)
Names on the setting screen of menu items [C], [D], [E], [H], [L], [M], [Q] and [S] are switched according to this menu.

Setting procedure

1. Select [J] from the menu screen.
2. Every time Enter or J is pressed, the message on the screen will toggle between "Type + Num" ↔ "DESCRIP. NAME". To enter the Description name mode, select "DESCRIP. NAME".

Destination name setting procedure using the Description name

3. Set menu item [J] to the Description name mode.
   Ex. [J : NAME STYLE (DESCRIP. NAME)]
4. Select the menu item [C].
5. Select the desired destination number with the cursor key.
6. Press Enter to enter the entry mode. If the Description name is set already, delete it by BS.
7. Enter the Description name using the alphabet keys or the numerical keys. When Enter is pressed, the Description name will be set.

Note

The maximum number of 16 characters can be entered. Some remote control panel and other devices cannot display the 16 characters. In such models, the maximum number of characters that can be displayed, are displayed starting from the top of the characters.

```
DESTINATION NUMBER TRANSCODE          IXS-6700  V1.00    STATION NUMBER 1

                  1.....7.....                        1.....7.....
0001=OUT001       Edit Room 34    |   0002=OUT002     News Room 590000 |
0003=OUT003       Edit Room VTR32 |   0004=OUT004     BB               |
0005=OUT005       OUT005          |   0006=OUT006     OUT006           |
0007=OUT007       OUT007          |   0008=OUT008     OUT008           |
0009=OUT009       OUT009          |   0010=OUT010     OUT010           |
0011=OUT011       OUT011          |   0012=OUT012     OUT012           |
0013=OUT013       OUT013          |   0014=OUT014     OUT014           |
0015=OUT015       OUT015          |   0016=OUT016     OUT016           |
0017=OUT017       OUT017          |   0018=OUT018     OUT018           |
0019=OUT019       OUT019          |   0020=OUT020     OUT020           |
0021=OUT021       OUT021          |   0022=OUT022     OUT022           |
0023=OUT023       OUT023          |   0024=OUT024     OUT024           |
0025=OUT025       OUT025          |   0026=OUT026     OUT026           |
0027=OUT027       OUT027          |   0006=OUT028     OUT028           |
0029=OUT029       OUT029          |   0010=OUT030     OUT030           |
0031=OUT031       OUT031          |   0012=OUT032     OUT032           |
                  ^   ^                               ^   ^

F1:SEARCH  F2:JUMP  F3:PgUp  F4:PgDn  F5:PASTE      Ctrl-E:RETURN TO MENU
```

Example of Destination Name setting screen

Operating function keys

F1 : SEARCH (To move the cursor to the desired destination name.)
1. Press F1. "Please Input DEST NAME =" will be displayed.
2. Input the destination name to be retrieved.
3. Press Enter. The cursor will move to the desired destination name.

F2 : JUMP (To move the cursor to the desired destination number.)
1. Press F2. "Please Input DEST NUMBER =" will be displayed.
2. Input the destination number to be retrieved.
3. Press Enter. The cursor will move to the desired number.

F3 : PgUp
When F3 is pressed, the screen will display the 16 lines previous to the 16 lines displayed currently.

F4 : PgDn
When F4 is pressed, the screen will display the 16 lines next to the 16 lines displayed currently.

F5 : PASTE (To copy the Description name)
1. Move the cursor to the destination number to be copied.
2. Press Space.
3. Move the cursor to the destination number to be pasted, and press F5.

Source name setting procedure using Description name

3. Set menu item [J] to the Description name mode.
4. Select the menu item [D].
   The following operations must be performed in the same manner as those of the destination.

To return to the menu screen

Press Ctrl – E.

L : SET PHYSICAL ASSIGNMENT

Purpose

Assigns the physical terminal numbers of the switcher to the destination terminal numbers, source terminal numbers and the virtual levels of the virtual matrix.
Do not assign the same number.

Setting procedure

1. Select [L] from the menu screen.
2. Each time F5 is pressed, the setting screen will change as follows.
   Source terminal number setting screen → destination terminal number setting screen → source terminal number setting screen.

Source terminal number setting procedure

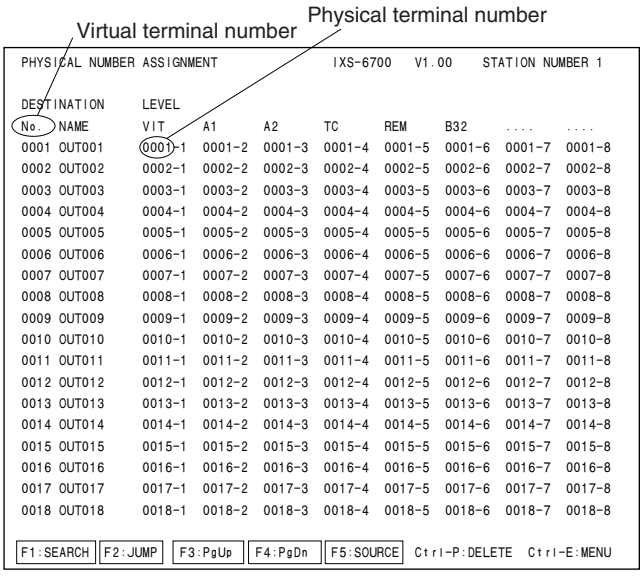
3. Select the source terminal number setting screen.
4. Select the physical terminal number and the physical level that are assigned to the terminal number row of the virtual matrix using the cursor. Press Enter to enter the entry mode.
5. Enter the physical terminal number using numerical keys, and press Enter.
6. Next, enter the physical level, and press Enter to set it.
   If Ctrl – F are pressed before setting, the physical number and level will be returned to the previous values.
   If the physical number and physical level to be set have been already used, cancel their settings first before setting new ones.
   To cancel, move the cursor to the terminal number and level that you want to cancel, and press Ctrl – P. The selected physical terminal number and level will be deleted.

Notes

- The physical number is the input/output number specified at [A : SET UNIT LOCATION] menu screen of the secondary station.
- The virtual input/output name and the virtual level name are assigned to the buttons on the remote control panel.
- If the un-used physical terminal numbers are kept set as they are, the system response will be slow.

Destination number setting procedure

Press F5 to set the destination number setting screen. Then, perform the same procedure as for source.



Example of setting screen

Operating function keys

F1 : SEARCH (To move the cursor to the desired destination name)

1. Press F1. "Please Input ∗ ∗ ∗ ∗ NAME =" will be displayed.
2. Input the destination or source name ([Code number in the bottom of the screen] + [numeral (0 to 999]) to be retrieved.
3. Press Enter. The cursor will move to the desired name.

Note

When menu item [J] is set to the Description name mode, F1 (SEARCH) will have the following functions.

1. Press F1. "Please Input ∗ ∗ ∗ ∗ NAME =" will be displayed.
2. Enter the description name (within seven characters) from the head.
3. Press Enter. The corresponding Description name will be searched in the range of the entered characters and the page including the name appears on the screen.
4. If the desired name does not exist in the screen, press F1 again. Then the cursor moves to the next description name containing the character string that you want to retrieve.

F2 : JUMP (To move the cursor to the desired destination number or the desired source number.)

1. Press F2. "Please Input DEST (SOURCE) NUMBER=" will be displayed.
2. Input the destination or source number to be retrieved.
3. Press Enter. The cursor will move to the desired number.

F3 : PgUp

When F3 is pressed, the screen will display the 16 lines previous to the 16 lines displayed currently.

F4 : PgDn

When F4 is pressed, the screen will display the 16 lines next to the 16 lines displayed currently.

F5 : SOURCE (DEST)

When F5 is pressed, the terminal number setting screen toggles between the destination terminal number setting screen and source terminal number setting screen.

To return to the menu screen

Press Ctrl – E.

M : SET INHIBIT TABLE

Purpose

Protects source numbers not to be connected for each destination.

The secret function prohibits a particular source from being selected from any of the destinations. On the other hand, the inhibit function prohibits individual destinations from selecting particular sources. (For details, refer to Appendix B “Cross-point input system limit function”.)

Setting procedure

1. Select [M] from the menu screen.
2. Select the source number for each destination name using the cursor. When Enter is pressed, the setting will be switched.
   “×” : Connectable cross-point
   “–” : Unconnectable cross-point

```
SET INHIBIT TABLE                    IXS-6700  V1.00 STATION NUMBER 1

 DEST.  SOURCE
  001    0001    0009    0017    0025    0033    0041    0049    0057
OUT001  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
OUT002  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
OUT003  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xx----xx xxxx---x xxxxxxxx xxxxxxxx
OUT004  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xx----xx xxxxxxxx xxxxxxxx xxxxxxxx
OUT005  xxx-xxxx xxxxxxxx x------- -------- xxxxxxxx xxxxxxxx xxxxxxxx xxxx---x
OUT006  xxxxxxxx xxx-xxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
OUT007  xxxxxxxx xxxxxxxx x------- xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
OUT008  xxxxxxxx xxxxxxxx xx------ xxxxxxxx xxxxxxxx xxxxxx-- ------xx xxxxxxxx
 DEST.  SOURCE
  009    0001    0009    0017    0025    0033    0041    0049    0057
OUT009  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
OUT010  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xx------ -----xxx xxxxxxxx xxxxxxxx
OUT011  xxxxx-xx xxxxxxxx xxxxxxxx xxxxxxxx xx------ -----xxx xxxxxxxx xx--xxxx
OUT012  xxxx-xxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
OUT013  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx x---xxxx --xxxxxx xxxxxxxx
OUT014  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx x---xxxx --xxxxxx xxxxxxxx
OUT015  xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
OUT016  xxxxxxxx xxxx--xx xxxx-xxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx

F1:SEARCH | F2:JUMP | F3:LEFT | F4:RIGHT        Ctrl-E:RETURN TO MENU
```

Example of setting screen

Operating function keys

F1 : SEARCH (To move the cursor to the desired destination name.)

1. Press F1 . “Please Input DEST NAME =” will be displayed.
2. Input the destination name ([Code number in the bottom of the screen] + [numeral (0 to 999]) to be retrieved.
3. Press Enter. The cursor will move to the desired destination name.

Note

When menu item [J] is set to the Description name mode, F1 (SEARCH) will have the following functions.

1. Press F1. “Please Input DEST NAME =” will be displayed.
2. Enter the Description name (within seven characters) from the head.
3. Press Enter. The corresponding Description name will be searched in the range of the entered characters and the page including the name appears on the screen.
4. If the desired name does not exist in the screen, press F1 again. Then the cursor moves to the next description name containing the character string that you want to retrieve.

F2 : JUMP (To move the cursor to the desired destination number.)

1. Press F2. “Please Input DEST NUMBER =” will be displayed.
2. Input the destination number to be retrieved.
3. Press Enter. The cursor will move to the desired number.

F3 : LEFT
When F3 is pressed, to scroll to the next 64 sources on the left.

F4 : RIGHT
When F4 is pressed, to scroll to the next 64 sources on the right.

To return to the menu screen

Press Ctrl – E.

N : SET DESCRIPTION NAME GROUP

Purpose

To assign the Description names for each remote control panel, set the group of Description names to the destination and the source individually.
Total of 160 names for the destination and the source can be registered as one group, and up to eight groups of data can be registered in the primary station.
The top half of the screen is for setting the group and the bottom half displays the list of Description names. (For details about the Description name, refer to Appendix B "Description name mode".)

Setting procedure

1. Select [N] from the menu screen.
2. Press [B] to move the cursor to the group number.
3. Enter the group number using the numerical keys, and press [Enter] to set it.
4. Press [F1] (MOVE) to move the cursor to the lower side of screen.
5. Select desired terminal number and press [Enter]. The Description name will be copied to the space of the lowest terminal number on the group setting screen. Select names from the Description name list displayed in the lower half of the screen, and register each of them to the upper half of the screen in proper order. To delete the Description names on the group setting screen, move the cursor to the number and press [BS], [DEL] or [Ctrl] – [P].

```
DESCRIPTION NAME GROUP                    IXS-6700  V1.00    STATION NUMBER 1

 GROUP 1  (  0 REMAIN)
  0001=NET001    OUT001                    0002=NET002    OUT002
  0003=NET003    OUT003                    0004=NET004    OUT004
  0005=NET005    OUT005                    0006=NET006    OUT006
  0007=NET007    OUT007                    0008=NET008    OUT008
  0009=NET009    OUT009                    0010=NET010    OUT010
  0011=NET011    OUT011                    0012=NET012    OUT012
  0013=NET013    OUT013                    0014=NET014    OUT014
  0015=NET015    OUT015                    0016=NET016    OUT016

================================================================================

  0001 CC001     IN001                     0002 CC002     IN002
  0003 CC003     IN003                     0004 CC004     IN004
  0005 CC005     IN005                     0006 CC006     IN006
  0007 CC007     IN007                     0008 CC008     IN008
  0009 CC009     IN009                     0010 CC010     IN010
  0011 CC011     IN011                     0012 CC012     IN012
  0013 CC013     IN013                     0014 CC014     IN014
  0015 CC015     IN015                     0016 CC016     IN016

F1:MOVE  F2:JUMP  F3:DEST   B:Group    L:Copy  S:Send  Ctrl-E:RETURN TO MENU
```

Example of setting screen

Notes

- In the remote control panel, the transferred data are all controlled and displayed as input/output terminal numbers. This is because data are transferred using input/output terminal numbers instead of input/output terminal names.
- Contents of the group data of the primary and secondary stations' must be always the same.
  If the primary station data are changed after the transfer, be sure to transfer the new data to the secondary station.

Operating function keys

[F1] : MOVE (To move the cursor up and down between the group setting screen in the upper half and description name list in the lower half.)

[F2] : JUMP (To move the cursor to the desired element number.)

1. Press [F2]. "Please Input ELEMENT NUMBER =" will be displayed.
2. Input the element number to be retrieved.
3. Press [Enter]. The cursor will move to the desired number.

[F3] : SOURCE (DEST)
When [F3] is pressed, the description name list will toggle between destination and source.

[B] : GROUP
Press [B] to move the cursor to the group number on the group setting screen.

[L] : COPY (To copy all data in the Description name group to other groups.)

1. Press [L]. The message "Please Input Original Group Number =" will be displayed to ask for the group number to be copied.
2. Input the group number to be copied with the numerical keys and press [Enter].
3. All data are copied from the specified group to the group that is in the process of setting.

[S] : SEND (Transfers all data on the group setting screen currently displayed to a secondary station.)

1. Press [S]. A message "Please Input Station Number =" will be displayed to ask for the number of a secondary station to which the data is to be transferred.
2. Input the station number of desired the secondary station using the numerical keys and press [Enter].
   The group data will be transferred to the secondary station. When data transfer is complete, the message "Please Input Station Number =" disappears.

Transferring data to all secondary stations

- If [A] is input into the message box at step 2, the group data are transferred to all of the secondary station.
- If the subnet controller is used in the routing switcher system, the group data that are transferred to the subnet controller only, are transferred to all of the devices that are connected under it. (For details about the subnet controller, refer to Section 4 "Technical Information".)

To return to the menu screen

Press [Ctrl] – [E].

O : SET TIE LINES

Purpose

Change/addition/deletion/status display of the TIE LINE data are performed here. (For details about the tie line, refer to Appendix B “Tie line”.)

```
SET TIE LINES                          IXS-6700  V1.00  STATION NUMBER 1

--PATHS 1-------------------------------------------------------------------
SOURCE: SOURCE No.   DESTINETION No.    ROUTE:    SOURCE No.   DESTINETION No.
  L1    0001 - 0080  0001 - 0004          L2     0081 - 0084  0080 - 0086
                                    DESTINATION:SOURCE No.   DESTINETION No.
                                          L1     0083 - 0089  0100 - 0130
--PATHS 2-------------------------------------------------------------------
SOURCE:  SOURCE No.  DESTINETION No.    ROUTE:    SOURCE No.   DESTINETION No.
  L2     0001 -  0040 0005 - 0006          L.     .... - ....  .... - ....
                                    DESTINATION:SOURCE No.   DESTINETION No.
                                          L1     0200 - 0201  0300 - 0400
--PATHS 3-------------------------------------------------------------------
SOURCE:  SOURCE No.   DESTINETION No.    ROUTE:    SOURCE No.   DESTINETION No.
  L.     .... - ....  .... - ....          L.     .... - ....  .... - ....
                                    DESTINATION:SOURCE No.   DESTINETION No.
                                          L.     .... - ....  .... - ....
--PATHS 4-------------------------------------------------------------------
SOURCE:  SOURCE No.   DESTINETION No.    ROUTE:    SOURCE No.   DESTINETION No.
  L.     .... - ....  .... - ....          L.     .... - ....  .... - ....
                                    DESTINATION:SOURCE No.   DESTINETION No.
                                          L.     .... - ....  .... - ....

F1:PgUp  F2:PgDn  F3:Status  Ctrl-P:DELETE  Ctrl-E:RETURN TO MENU
```

Example of setting screen

Setting procedure

1. Select [O] from the menu screen.
2. Move the cursor to the item that you want to set.
3. Press Enter to enter the number entry mode.
4. Type a number (1 to 1024) and press Enter. The entered value is set.
   If duplication of the number with other setting is found, the entered number becomes invalid so that the former number remains as it is. Also, if Enter is pressed without inputting a number, the former number remains as it is. To delete the previous setting, move the cursor to the position of the number you want to delete, and press Ctrl – P. The number is deleted and the cursor moves to the next entry item.
   The maximum number of the signals that can be set is shown below.

SOURCE	TRUNK	DESTINATION	PATHS
1024	255	255	16

(For details about the trunk, refer to Appendix B “Trunk”.)

To return to the menu screen

Press Ctrl – E.

Operating function keys

F1 : PgUp
When F1 is pressed, the previous four paths before the path number that is being displayed at present, are displayed.

F2 : PgDn
When F2 is pressed, the next four paths after the path number that is being displayed at present, are displayed.

F3 : Status
When F3 is pressed, status of the signal-connection that are being connected by the TIE LINE, are displayed.

Status display

```
STATUS TIE LINE                    IXS-6700 V1.00    STATION NUMBER 1

      PATH  SOURCE (L:S-D)      ROUTE (L:S-D)       DEST (L:S-D)
0001  01    1:0012-0067        2:0056-0104         1:0917-0201
0002  01    1:0018-0068        .:... -...          1:0918-0202
0003  01    1:0019-0069        .:... -...          1:0919-0203
0004  01    1:0020-0070        .:... -...          1:0920-0204
0005  01    1:0021-0071        .:... -...          1:0921-0205
0006  01    1:0022-0072        .:... -...          1:0922-0206
0007  02    1:0023-0073        1:0057-0105         1:0923-0207
0008  02    1:0024-0074        1:0058-0106         1:0924-0208
0009  02    1:0025-0075        1:0059-0107         1:0925-0209
0010  ..    .:... -...         .:... -...          .:... -...
0011  ..    .:... -...         .:... -...          .:... -...
0012  ..    .:... -...         .:... -...          .:... -...
0013  ..    .:... -...         .:... -...          .:... -...
0014  ..    .:... -...         .:... -...          .:... -...
0015  ..    .:... -...         .:... -...          .:... -...
0016  ..    .:... -...         .:... -...          .:... -...
0017  ..    .:... -...         .:... -...          .:... -...
0018  ..    .:... -...         .:... -...          .:... -...
0019  ..    .:... -...         .:... -...          .:... -...
0020  ..    .:... -...         .:... -...          .:... -...

F1:PgUp  F2:PgDn                    Ctrl-E:RETURN TO SET TIE LINE
```

Purpose

Displays details of the signal path that are connected by the TIE LINE.
This menu enables display only. You cannot enter any setting from this screen. The terminal numbers on the screen are the virtual terminal numbers.

Operating function keys

When the number of the crosspoints that are used as the TIE LINE reaches 20 or more, the F1 and F2 keys become valid.

F1 : PgUp
When F1 is pressed, the screen will display the 20 lines previous to the 20 lines display currently.

F2 : PgDn
When F2 is pressed, the screen will display the 20 lines next to the 20 lines display currently.

To return to the TIE LINE setting menu

Press Ctrl – E.

Description of displayed contents
<Display example-1>
In the case that a signal passes through the three crosspoints

```
      PATH   SOURCE (L:S-D)      ROUTE (L:S-D)      DEST (L:S-D)
0001  01     1:0012-0067         2:0056-0104        1:0917-0201
```

The remote control panel display shows the message [IN012 – OUT201].
This message indicates that the signal input to IN012 is output from OUT201 after passing through the three crosspoints shown below.

Crosspoint 1 : [IN012 – OUT067]
The signal input to IN012 is sent to OUT067.

Crosspoint 2 : [IN056 – OUT104]
OUT067 is connected to IN056 with an external cable. The signal output from OUT067 is sent to OUT104 via IN056.

Crosspoint 3 : [IN917 – OUT201]
OUT104 is connected to IN917 with an external cable. The signal output from OUT104 is sent to OUT201 via IN917 and the signal is output from OUT201.

<Display example-2>
In the case that a signal passes through the two crosspoints

```
      PATH   SOURCE (L:S-D)      ROUTE (L:S-D)      DEST (L:S-D)
0002  01     1:0018-0068        .:....  -...       1:0918-0202
```

The remote control panel display shows the message [IN018 – OUT202].
This message indicates that the signal input to IN018 is output from OUT202 after passing through the two crosspoints shown below.

Crosspoint 1 : [IN018 – OUT068]
The signal input to IN018 is sent to OUT068.

Crosspoint 2 : [IN918 – OUT202]
OUT068 is connected to IN918 with an external cable. The signal output from OUT068 is sent to OUT202 via IN918 and the signal is output from OUT202.

Notes

- The number before each crosspoint indicates the level number.
  Example) 2:0056-0104 indicates level 2.
- There are several versions of the TIE LINE function because the TIE LINE has the different functions depending on usage.
- They cannot recognize whether the level is matched at SOURCE, ROUTE or DEST in one PATHS. Therefore, Source numbers cannot be set duplicated.

P : CHANGE PASSWORD

Purpose

Changes the password.

Note

If you forget the password, you cannot enter the setting screen unless you return all the setup values to default. When the values are returned to default, all the setting contents will be cleared. Be very careful in handling the password.

Setting procedure

1. Select [P] from the menu screen.
2. Input the password currently set, and press Enter.
   In the default status, password is not set.
   Once the password is set, the menu items cannot be set or changed unless the password is entered.
   If a wrong password is input, the demand for password input will be displayed again.
3. Enter a new password, and press Enter. The message appears prompting you to re-enter the new password. Enter the new password and press Enter.

After the new password has been confirmed twice, the screen will return to the menu screen.
If not confirmed, the password is demanded again.

```
CHANGE PASSWORD                    IXS-6700 V1.00 STATION NUMBER 1

Please Input New Password  = _____________*

                                        Ctrl-E:RETURN TO MENU
```

Example of setting screen

Note

Password of the subnet controller is the same as that of the primary station to which the connection is made.

To return to the menu screen

Press Ctrl – E.

Q : CHANGE CROSSPOINT

Purpose

Displays the present status of cross-points and also change the cross-points.

Note

Moreover, names set with the protect function cannot be changed either.

Setting procedure

1. Select [Q] from the menu screen.
2. Select the source name using the cursor. Changing only the source name is possible.
3. Press Enter. The source name entry mode will be set. When Enter key is pressed before entering the source name, the mode will be canceled and the previous display will be returned.
4. Enter the source name using the alphabet keys and numerical keys.
5. When Enter is pressed, the entered source name will be set. If Ctrl – F are pressed before the setting, the source name returns to the original setting before entry.

Notes

- When the power of the primary station is turned on, ". . . ." will be displayed for a while at the source name position. But once the status of the crosspoint is detected, the source name will be displayed.
  The modified cross-points will be displayed even immediately after power-on.
- The output terminals to which destination name is not set, show ". . . .", and the cross-point cannot be changed.
- When entering the Description name, enter 7 characters from the head.
- With BZR-IF810, the source cannot be selected for the Description name.

```
CHANGE CROSSPOINT                          IXS-6700  V1.00    STATION NUMBER 1
                                                                    LEVEL=1
 DEST    SOURCE      DEST    SOURCE      DEST    SOURCE      DEST    SOURCE
 OUT001 -IN005       OUT002 -IN005       OUT003 -IN005       OUT004 -IN005
 OUT005 -IN005       OUT006 -IN005       OUT007 -IN005       OUT008 -IN005
 OUT009 -IN005       OUT010 -IN005       OUT011 -IN005       OUT012 -IN005
 OUT013 -IN005       OUT014 -IN005       OUT015 -IN005       OUT016 -IN005
 OUT017 -IN005       OUT018 -IN005       OUT019 -IN005       OUT020 -IN005
 OUT021 -IN005       OUT022 -IN005       OUT023 -IN005       OUT024 -IN005
 OUT025 -IN005       OUT026 -IN005       OUT027 -IN005       OUT028 -IN005
 OUT029 -IN005       OUT030 -IN005       OUT031 -IN005       OUT032 -IN005
 OUT033 -IN005       OUT034 -IN005       OUT035 -IN005       OUT036 -IN005
 OUT037 -IN005       OUT038 -IN005       OUT039 -IN005       OUT040 -IN005
 OUT041 -IN004       OUT042 -IN004       OUT043 -IN004       OUT044 -IN004
 OUT045 -IN004       OUT046 -IN004       OUT047 -IN004       OUT048 -IN004
 OUT049 -IN004       OUT050 -IN004       OUT051 -IN004       OUT052 -IN004
 OUT053 -IN004       OUT054 -IN004       OUT055 -IN004       OUT056 -IN004
 OUT057 -IN004       OUT058 -IN004       OUT059 -IN004       OUT060 -IN004
 OUT061 -IN004       OUT062 -IN004       OUT063 -IN004       OUT064 -IN004
 0=IN      1=OUT     2=VTR     3=ENG     4=MCR     5=TEST    6=SNG     7=SS
 8=CG      9=SAT     A=LMS     B=EDIT    C=CAM     D=GPHA    E=GPHB    F=GPHC
 G=17      H=18      I=19      J=20      K=21      L=22      M=23      N=24
 O=25      P=26      Q=27      R=28      S=29      T=30      U=31      V=32
F1:SEARCH | F2:JUMP | F3:PgUp | F4:PgDn | F5:Level | Ctrl-E:RETURN TO MENU
```

Example of setting screen

Operating function keys

F1 : SEARCH

1. Press F1. "Please Input DEST NAME =" is displayed on the screen.
2. Enter the destination name ([Code number in the bottom of the screen] + [numeral (0 to 999]) of DEST that you want to retrieve.
3. Press Enter. The cursor moves to the desired Destination name.

Notes

When the menu item [J] is set to the description name mode, F1 (SEARCH) will have the following function.

1. Press F1. "Please Input DEST NAME =" is displayed on the screen.
2. Enter the description name that you want to retrieve within 7 characters from the top.
3. Press Enter. The corresponding description name within the range of the entered character will be retrieved, and the pages containing the name will be displayed on the screen.
4. If the desired name cannot be found on the displayed page, press F1 again. Then the cursor moves to the next description name containing the character string that you want to retrieve.

F2 : JUMP (To move the cursor to the desired destination number.)

1. Press F2. "Please Input DEST NUMBER =" will be displayed.
2. Input the destination number to be retrieved.
3. Press Enter. The cursor will move to the desired destination number.

F3 : PgUp

When F3 is pressed, the screen will display the 16 lines previous to the 16 lines displayed currently.

F4 : PgDn

When F4 is pressed, the screen will display the 16 lines next to the 16 lines displayed currently.

F5 : Level

When F5 is pressed, a level can be selected. Input the level number using the numerical key and press Enter. If A is pressed instead of the numerical key and press Enter here, the screen will display a list of all levels. The function keys F1, F2, and F5 on the ALL screen have the same functions as those of the initial screen menu item [Q].

With BZR-IF810, pressing F5 displays a list of all levels. Pressing F5 once again displays the Level 1 screen.

```
CHANGE CROSSPOINT                          IXS-6700  V1.00    STATION NUMBER 1
              LEVEL:                                          LEVEL=ALL
 No. out      1=VIT   2=A1    3=A2     4=TC    5=REM   6=B32   7=....  8=....
 0001 inputs  IN005   ....... ....... ....... ......  ....... ....... .......
 0002 OUT002  IN005   ....... ....... ....... ......  ....... ....... .......
 0003 OUT003  IN005   ....... ....... ....... ......  ....... ....... .......
 0004 OUT004  IN005   ....... ....... ....... ......  ....... ....... .......
 0005 OUT005  IN005   ....... ....... ....... ......  ....... ....... .......
 0006 OUT006  IN005   ....... ....... ....... ......  ....... ....... .......
 0007 OUT007  IN005   ....... ....... ....... ......  ....... ....... .......
 0008 OUT008  IN005   ....... ....... ....... ......  ....... ....... .......
 0009 OUT009  IN005   ....... ....... ....... ......  ....... ....... .......
 0010 OUT010  IN005   ....... ....... ....... ......  ....... ....... .......
 0011 OUT011  IN005   ....... ....... ....... ......  ....... ....... .......
 0012 OUT012  IN005   ....... ....... ....... ......  ....... ....... .......
 0013 OUT013  IN005   ....... ....... ....... ......  ....... ....... .......
 0014 OUT014  IN005   ....... ....... ....... ......  ....... ....... .......
 0015 OUT015  IN005   ....... ....... ....... ......  ....... ....... .......
 0016 OUT016  IN005   ....... ....... ....... ......  ....... ....... .......
 0=IN      1=OUT     2=VTR     3=ENG     4=MCR     5=TEST    6=SNG     7=SS
 8=CG      9=SAT     A=LMS     B=EDIT    C=CAM     D=GPHA    E=GPHB    F=GPHC
 G=17      H=18      I=19      J=20      K=21      L=22      M=23      N=24
 O=25      P=26      Q=27      R=28      S=29      T=30      U=31      V=32
[F1:SEARCH][F2:JUMP][F3:PgUp][F4:PgDn][F5:Level] Ctrl-E:RETURN TO MENU
```

Example of setting screen

To return to the menu screen

Press Ctrl – E.

R : CALL SECONDARY STATION

Purpose

Calls the menu screen of the secondary station connected to the S-BUS of the primary station.

Operating procedure

1. Select [R] from the menu screen.
   A message will be displayed on the screen.
2. Enter the station number of the secondary station that you want to set, and press Enter. The screen will be changed to the menu screen of the secondary station.

```
CALL STATION NUMBER ? 78

     Ctrl-E:RETURN TO MENU
```

Example setting screen

Notes

- If the specified secondary station does not exist on the S-BUS data link, the following message will be displayed.
  Display: “Station dose not exist”
- If the specified secondary station is not available for communication, the following message will be displayed.
  Check at the menu item [F : SET ACTIVE UNIT NUMBER].
  Display: “Disable Station”

To return to the menu screen

Press Ctrl – E.

S : SET SOURCE ASSIGNMENT

Purpose

Change/addition/deletion of the multiple source name are performed here. When the signal name that has been set as level 1 from the remote control, is selected by entering [T] (TAKE), the signals whose source numbers are set here, can be selected in the level 2 and later.
The source name of level 1 is fixed in the same way as the source name setting. The source names of the level 2 to 8 are set using this screen. (For details, refer to Appendix B "Free assignment/multi source assignment".

```
SET SOURCE ASSIGNMENT                IXS-6700  V1.00    STATION NUMBER 1

      VID     A-A1     A-A2     A3       A4       REM      TBC      SAPS
0001 IN001    IN001    IN001    IN001    IN001    IN001    IN001    IN001
0002 IN002    IN002    IN002    IN002    IN002    IN002    IN002    IN002
0003 IN003    IN002    IN002    IN002    IN002    IN003    IN003    IN003
0004 IN004    IN002    IN002    IN002    IN002    IN004    IN004    IN004
0005 IN005    IN005    IN005    IN005    IN005    IN005    IN005    IN005
0006 IN006    IN006    IN006    IN006    IN006    IN006    IN006    IN006
0007 C1       M1       .......  .......  .......  .......  .......  .......
0008 C2       M1       .......  .......  .......  .......  .......  .......
0009 C3       M2       .......  .......  .......  .......  .......  .......
0010 C4       M3       .......  .......  .......  .......  .......  .......
0011 C5       M1       .......  .......  .......  .......  .......  .......
0012 IN012    IN012    IN012    IN012    IN012    IN012    IN012    IN012
0013 IN013    IN013    IN013    IN013    IN013    IN013    IN013    IN013
0014 IN014    IN014    IN014    IN014    IN014    IN014    IN014    IN014
0015 IN015    IN015    IN015    IN015    IN015    IN015    IN015    IN015

 0=IN     1=OUT    2=VTR    3=ENG    4=MCR    5=TEST   6=SNG    7=SS
 8=CG     9=SAT    A=LMS    B=EDIT   C=CAM    D=GPHA   E=GPHB   F=GPHC
 G=17     H=18     I=19     J=20     K=21     L=22     M=23     N=24
 O=25     P=26     Q=27     R=28     S=29     T=30     U=31     V=32
F1:SEARCH F2:JUMP F3:PgUp F4:PgDn          Ctrl-E:RETURN TO MENU
```

Example of setting screen

Setting procedure

1. Select [S] from the menu screen.
2. Move the cursor to the item that you want to set and press [Enter]. The name entry mode is selected.
3. Select a type name that you want to set from the corresponding code (0 to 9, A to V). Then type the number (0 to 999) that you want to set, using numeric keys.
4. Press [Enter].
   If an invalid name is set, the message "The name is not defined" appears and the screen returns to the original name. If you want to delete a name, press [Ctrl] – [P]. If [Enter] is pressed without inputting any name, the setting is deleted and ". . . ." appears.

To return to the menu screen

Press [Ctrl] – [E].

T : SET CLOCK

Purpose

Sets of the time. The time set at this menu will be used for recording the time of log occurrence.

Setting procedure

1. Select [T] from the menu screen.
2. Enter the time using the numerical keys, and press [Enter] to set it.
   The screen will be changed to the menu screen automatically.

Notes

- If [Ctrl] – [E] are pressed without pressing [Enter], the screen will return to the menu screen and the setting modification becomes invalid.
- When battery is replaced or when low voltage occurs, the clock time must be set using this menu.

```
2001.02.03-22:24 (Y.M.D-H:M)  READ TIME
CHANGE TO = 2001.02.03-22:24

                                        Ctrl-E:RETURN TO MENU
```

Example of setting screen

U: DISPLAY ETHERNET SECONDARY STATION

(IXS-6600/6700 V1.00 and higher)
(HKSP-R80 V1.14 and higher)

Purpose

Displays the connection state of the secondary station device connected via Ethernet.

Setting procedure

1. Select [U] from the menu screen.
   The DISPLAY ETHERNET SECONDARY STATION screen is displayed.

```
DISPLAY ETHERNET SECONDARY STATION     IXS-6700  V1.00      STATION NUMBER 1

  SBUS-ID  IP-ADDRESS       DEVICE       SBUS-ID  IP-ADDRESS       DEVICE
  002      172.160.200.062  64           003      172.160.200.063  64
  004      172.16.2.64      64           005      172.16.2.65      64
  006      172.16.2.66      64           007      172.16.2.67      65
  008      172.16.2.68      65           009      172.16.2.69      65
  010      172.16.2.70      64           011      172.16.2.71      64
  012      172.16.2.72      64           013      172.16.2.73      64
  014      172.16.2.74      65           015      172.16.2.75      65
  016      172.16.2.76      64           017      172.16.2.77      65

  01:DVS-V1616   02:DVS-V3232   03:DVS-A3232   04:BKS-R1601   05:BKS-R3202
  06:BKS-R3203   07:BKS-R3281   08:DVS-V6464   09:BKS-R5000   0A:DVS-RS1616
  0B:DVS-TC3232  0C:BKDM-5080   0D:BKS-R3204   0E:BKS-R3205   0F:BKS-R3206
  10:BKS-R3280   11:BZR-1000    12:DVS-V3232B  13:DVS-V6464B  14:BVS-V3232

F1:PgUp  F2:PgDn                                  Ctrl-E:RETURN TO MENU
```

Example of setting screen

Description of the displayed contents

SBUS-ID : Displays the station IDs (2 to 254) of the secondary station device.
(IXS-6600/6700 V2.10 and higher)
(HKSP-R80 V1.17 and higher)
The device that has "C" at the right side of its SBUS-ID is a Client, in the remote controller group (*).

IP-ADDRESS : Displays the IP addresses of the secondary station device.
(IXS-6600/6700 V2.10 and higher)
(HKSP-R80 V1.17 and higher)
The device that has "C" at the right side of its SBUS-ID shows the IP address of the Delegate in the same remote controller group (*).

DEVICE : Displays the device code of the secondary station device connected via Ethernet.

- Delegate
  The remote control group (*) built on the Ethernet is connected with a direct linkup to the primary station.
- Client
  The remote control group (*) built on the Ethernet is not connected with a direct linkup to the primary station, but instead communicates with the primary station through a delegate.

(*) : Refer to the Installation Manual of the BKS-R6010 for details of the remote controller group.

Operating function keys

F1:PgUp
When F1 is pressed, the next page of the device code list is displayed.

F2:PgDn
When F2 is pressed, the previous page of the device code list is displayed.

F3:LstUp (IXS-6600/6700 V2.10 and higher)
(HKSP-R80 V1.17 and higher)
When F3 is pressed, the next page of the connection state list of the secondary station device is displayed.

F4:LstDn (IXS-6600/6700 V2.10 and higher)
(HKSP-R80 V1.17 and higher)
When F4 is pressed, the previous page of the connection state list of the secondary station device is displayed.

To return to the menu screen

Press Ctrl – E.

W : SYSTEM STATUS LOG

Purpose

Displays the log each station with the day, hour, minute information.

```
SYSTEM STATUS LOG                IXS-6700 V1.00 STATION NUMBER 1

2001.05.07-17:40 STARTED BY BZR-IF810 Ver1.00 IN STATION 3
2001.05.07-17:40 STARTED BY BZR-IF810 Ver1.00 IN STATION 5
2001.05.07-17:40 S-BUS LINK CONNECTED CHANNEL A
2001.05.07-17:40 S-BUS LINK DISCONNECTED CHANNEL A
2001.05.07-17:40 S-BUS LINK CONNECTED CHANNEL A
-- more  --
                                          Ctrl-E:RETURN TO MENU
```

Example of screen

Operating procedure

1. Select [W] from the menu screen.
2. When all status cannot be displayed on the screen, " – – more – – " will be displayed at the bottom of the screen. Press Space key to display the next status. When all status have been displayed, "– – end – –" will be displayed.

Refer to “Section 3. Confirmation of Function” for detail of the system status screen.

To return to the menu screen
Press Ctrl – E.

X : DISPLAY S-BUS COMMUNICATION

Purpose
Displays the S-BUS data received at the primary station.

Setting procedure
1. Select [X] from the menu screen.
2. To stop the scroll, press Ctrl – E. (“TRACE OFF” will be displayed at the bottom of the screen.)

```
S-BUS COMMUNICATION   TRACE ON

 STATION No.003 01 0C 03 BE
 STATION No.003 01 0C 03 97 53 54 41 52 54 45 44 20 42 59 20 42 5A 52 2D 49 46
 STATION No.005 01 0C 05 BE
 STATION No.005 01 0C 05 97 53 54 41 52 54 45 44 20 42 59 20 42 5A 52 2D 49 46

                                                    Ctrl-E:RETURN TO MENU
```

Example of screen

Note

For details on the displayed contents, refer to the S-BUS Protocol Manual.

To return to the menu screen
Press Ctrl – E.

Z : SET UNIT DETECTABLE

Purpose
Checks the possibility of communication of secondary stations connected to the S-BUS data link.

Setting procedure
1. Select [Z] from the menu screen.
2. Select a secondary station you want to check using the cursor.
3. Press Enter, and “?” appears.
   To cancel “?”, press Enter again.
4. Press Ctrl – E, and the display is changed.
5. After about ten seconds, select the menu item [Z]. If the secondary station is ready for communication, “?” changes to a device code number.
   If the secondary station does not communicate for a given period, the message below appears.

“STATION ✻✻✻ FAILURE (DISCONNECT OR POWER DOWN)”
Station number

6. When checking is complete, press Ctrl – E. The screen returns to the menu display.
7. Move the cursor to the secondary station (on which “?” is displayed), and press Enter. “?” is canceled.

Note

A secondary station to be checked should be set available for communication in advance at menu item [F : SET ACTIVE UNIT NUMBER]

```
SET UNIT DETECTABLE                IXS-6700 V1.00 STATION NUMBER 1

          1  2  3  4  5    6  7  8  9 10   11 12 13 14 15   16 17 18 19 20
             +
001-020   M  ?  ?  ?  ?    ?  ?  ?  ?  ?    ?  ?  ?  ?  ?    ?  ?  ?  ?  ?
021-040   ?  ?  ?  ?  ?    ?  ?
041-060
061-080
081-100
101-120
121-140
141-160
161-180
181-200
201-220
221-240
241-254                                                  *   * * * * *

  01:DVS-V1616   02:DVS-V3232   03:DVS-A3232   04:BKS-R1601   05:BKS-R3202
  06:BKS-R3203   07:BKS-R3281   08:DVS-V6464   09:BKS-R5000   10:DVS-RS1616
  11:DVS-TC3232  12:BKDM-5080   13:BKS-R3204   14:BKS-R3205   15:BKS-R3206
  16:BKS-R3280   17:BZR-1000    18:DVS-V3232B  19:DVS-V6464B  20:BVS-V3232

 F1:PgUp  F2:PgDn                                  Ctrl-E:RETURN TO MENU
```

Example of setting screen

To return to the menu screen
Press Ctrl – E.

2-6. Setting Items of the Secondary Station (IXS-6600/6700)

Table of slot No. and the corresponding displays

The slot Nos. (SLOT1 to SLOT16) displayed on the menu screen are different from the actual rear/front panel slot indication on IXS-6600/IXS-6700. Check the following table for the correspondence.

IXS-6700

Menu screen display	Display of Rear panel	Display of Front panel
SLOT 1	OUT 1	
SLOT 2	OUT 2	1 (IKS-V6050M, IKS-V6050SD or IKS-A6050)
SLOT 3	IN 1	
SLOT 4	IN 2	2 (IKS-6030M)
SLOT 5	OUT 3	
SLOT 6	OUT 4	3 (IKS-V6050M, IKS-V6050SD or IKS-A6050)
SLOT 7	IN 3	
SLOT 8	IN 4	4 (IF-20 board)
SLOT 9	OUT 5	
SLOT 10	OUT 6	5 (IKS-V6050M, IKS-V6050SD or IKS-A6050)
SLOT 11	IN 5	
SLOT 12	IN 6	6 (IKS-6030M)
SLOT 13	OUT 7	
SLOT 14	OUT 8	7 (IKS-V6050M, IKS-V6050SD or IKS-A6050)
SLOT 15	IN 7	
SLOT 16	INs 8	8 (SG-28 board, CA-65 board)
SLOT 17	Standard connector board	9 (SG-28 board, CA-65 board)

IXS-6600

Menu screen display	Display of Rear panel	Display of Front panel
SLOT 1	OUT 1	
SLOT 2	OUT 2	1 (IKS-V6050M, IKS-V6050SD or IKS-A6050)
SLOT 3	IN 1	2 (IF-20 board)
SLOT 4	IN 2	3 (IKS-6030M)
SLOT 5	OUT 3	
SLOT 6	OUT 4	4 (IKS-V6050M, IKS-V6050SD or IKS-A6050)
SLOT 7	IN 3	5 (SG-28 board, CA-65 board)
SLOT 8	IN 4	6 (SG-28 board, CA-65 board)

A: SET UNIT LOCATION

Purpose

Sets router level and the location of the input terminals. The size of the matrix and the types of signals that can be handled are different depending on the optional mounting status. Set each type of signal.

Setting procedure

1. Select [A] from the menu screen.
2. Select the desired setup item using the cursor key and press Enter.
   The virtual matrix size of the sources (input terminals) and the destinations (output terminals) and level become ready to be set.
3. Enter the top value of the unit location using the numeric keys.
   Only the top value of the location is set to source and destination. The end value of the location is calculated automatically and displayed on the screen.
   Note
   If the end value of the location automatically calculated from the specified top value exceeds the range of 1024, the top value is automatically adjusted so that the end value is 1024.
4. Enter the level with the numeric keys.
   The values 1 to 8 can be set.
5. Press Enter. The setup values are registered. (If Enter is pressed before entering values, the values return to the ones entered beforehand.)
   If Ctrl – F is pressed, the values return to the set values before entering the data.

```
SET UNIT LOCATION                    IXS-6700  V1.20     STATION NUMBER 1

VIDEO       SOURCE No 0001-0128    DESTINATION No 0001-0136    LEVEL No  1
AUDIO       SOURCE No 0001-0256    DESTINATION No 0001-0272    LEVEL No  2
RS-422      SOURCE No 0001-0128    DESTINATION No 0001-0128    LEVEL No  3
TIMECODE    SOURCE No 0001-0128    DESTINATION No 0001-0136    LEVEL No  4

                                                    Ctrl-E:RETURN TO MENU
```

Example of setting screen

To return to the menu screen of the secondary station

Press Ctrl – E.

K : RESET TO DEFAULT TABLE

Purpose

Initializes all the setup values.

Note

Be careful that all of the cross-points that have been set, the internal status and the contents of the error messages that are stored in memory, will be erased if the menu item [K] is executed.
However, the IP address is not initialized.

Setting procedure

1. Select [K] from the menu screen. The message “Reset to Default table? (y/n)” will be displayed at the bottom of the screen.
2. Initialization is performed when Y is pressed.
   When initialization is complete, the message “Reset to Default table? (y/n) y” disappears.

To return to the menu screen of the secondary station

Press Ctrl – E.

V: DISPLAY UNIT STATUS

Purpose

Displays the status of each unit inside the integrated routing system.

BOARD DETECT screen

Setting procedure

1. Select [V] from the menu screen.
   The BOARD DETECT screen appears.

Purpose

Displays the status of the optional boards in real time.

```
DISPLAY UNIT STATUS                    IXS-6700  V1.00    STATION NUMBER 1

BOARD DETECT
        REAR   Type     REV   REF   SRC    FRONT  Type     REV
SLOT1   CNO    -------  ---   A
SLOT2   CNO    M-SDI    1.0   A             PROC   M-SDI    1.0
SLOT3   CNI    SD-SDI   1.0
SLOT4   CNI    AES-DSUB 1.0         SRC     MTX    MTX      1.0
SLOT5   CNO    PSFAIL   ---   B
SLOT6   CNO    SLOTERR  ---   B             PROC   AUDIO    1.0
SLOT7   CNI    SD-SDI   1.0
SLOT8   CNI    M-SDI    1.0
SLOT9   CNO    -------- ---   -
SLOT10  CNO    M-SDI    1.0   -             PROC   M-SDI    1.0
SLOT11  CNI    SD-SDI   1.0
SLOT12  CNI    AES-DSUB 1.0         ---     MTX    MTX      1.0
SLOT13  CNO    PSFAIL   ---   A
SLOT14  CNO    SLOTERR  ---   A             PROC   SD-SDI   1.0
SLOT15  CNI    SD-SDI   1.0
SLOT16  CNI    M-SDI    1.0

 F1:PgUp   F2:PgDn                                  Ctrl-E:RETURN TO MENU
```

Example of setting screen

Operating function keys

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

To return to the menu screen of the secondary station

Press Ctrl – E.

Description of the displayed contents

SLOT1 to SLOT16: Shows the slot numbers for boards on the rear panel.

Note

IXS-6600 only displays up to SLOT 8.

REAR BOARD

REAR: Shows the types of slots for boards on the rear panel.

Display	Displayed contents
CNO	Slot for output board
CNI	Slot for input board

TYPE: Displays whether there is a board inserted in the rear. Also displays the type of board and board status.

Display	Displayed contents	
-------	For slots for input boards	Board is not inserted. Or, there is an error on the front board.
	For slots for output boards	Front board is not inserted.
PSFAIL	There is an error in the power circuitry of the board, regardless of the type of board input.	
TEMP	The board temperature is unusually high.	
SLOTERR	The board inserted is one that should not have been inserted.	
M-SDI	HD/SD video board is inserted.	
SD-SDI	SD video board is inserted.	
AES-BNC	AES/EBU audio (BNC) board is inserted.	
AES-DSUB	AES/EBU audio (D-sub) board is inserted.	
RS-422	RS-422 (DATA) board is inserted.	
TIMECODE	TIMECODE board is inserted.	
ANALOG-A	ANALOG audio board is inserted.	

REV: Displays the revision of the circuit rear board.

Notes

- When the board inserted is not one that should be inserted into the front board, or when there is an error in the front board, the board revision is not displayed.
- When a front board corresponding to the slot for rear output boards is not inserted, the board revision is not displayed.

REF: Indicates which of the two types of reference signals (A/B) is selected.

Display	Displayed contents
A	Uses the system A reference signal.
B	Uses the system B reference signal.
–	Does not use either the system A or B reference signal.

SRC: Displays whether the sampling rate converter board is present or not.

Display	Displayed contents
SRC	Sampling rate converter board is installed.
–	Sampling rate converter board is not installed.

FRONT BOARD

FRONT: Displays the types of the Front board.

Display	Displayed contents
PROC	Processor board is inserted.
MTX	Matrix board is inserted.

TYPE: Displays whether there is a board inserted in the front slot. Also displays the type of board and board status.

Display	Displayed contents
-------	Board is not inserted.
PSFAIL	There is an error in the power circuitry of the board, regardless of the type of board input.
TEMP	The board temperature is unusually high.
SLOTERR	The board inserted is one that should not have been inserted.
MTX	Matrix board is inserted.
M-SDI	HD/SD video processor board is inserted.
SD-SDI	SD video processor board is inserted.
AUDIO	Audio processor board is inserted.

REV: Displays the revision of the circuit board.

DISPLAY UNIT STATUS screen

Purpose

This screen displays the status of each unit in the system.

Setting procedure

1. Select [V] from the menu screen.
2. Press F1.
   The DISPLAY UNIT STATUS screen appears.

```
DISPLAY UNIT STATUS                    IXS-6700  V1.00     STATION NUMBER 1

CONTROL BOARD   BOOT   SYS    S-BUSA S-BUSB S-BUSC  IP-ADDRESS      SLOT-ID
MAIN            V1.00  V1.00  V1.13  V1.13  V1.13   43.25.113.135        16
BACKUP          -------

SUB CPU  BOOT  SYS     SUB CPU  BOOT  SYS     SUB CPU  BOOT  SYS
M-SDI    ---- ----     MTX      1.00 1.00     AUDIO    1.00 1.00
M-SDI    ---- ----     MTX      1.00 1.00     AUDIO    1.00 1.00


REMOTE1 STATUS              FAN STATUS                    BOARD STATUS
   ID  BAUDRATE  MODE          1       2       3          SG-A  SG-B  HUB
A   1  1250kbps  ASYNC       L GOOD    GOOD    GOOD        1.0   1.0   1.0
B   1  1250kbps  SYNC        R STOP    LOWER   GOOD
C   1   312kbps              SPEED:    SLOW


REFERENCE SIGNAL                       POWER SUPPLY UNIT
Vref-A  Vref-B   WORD-A  WORD-B        A-1     A-2     B-1     B-2
525i    UNKNOWN  UNKNOWN 48kHz         OK      OK      FAIL    -------
ASYNC   ODD

F1:PgUp  F2:PgDn                                  Ctrl-E:RETURN TO MENU
```

Setting screen

Operating function keys

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

To return to the menu screen of the secondary station

Press Ctrl – E.

Description of the displayed contents

CONTROL BOARD (MAIN/BACKUP)

Displays the status of the main board and backup board for the control board (CPU board).

Notes

When a backup board is not inserted, "------" is displayed in the BACKUP side BOOT version position and nothing else is displayed to the right.

BOOT	Displays the software version for the system boot. Displays FAIL if an error is detected.
SYS	Displays the software version of the main application. Displays FAIL if an error is detected.
S-BUSA/ S-BUSB/ S-BUSC	Displays the software version of the S-BUS control module (S-BUS A/S-BUS B/S-BUS C). Displays FAIL if an error is detected.
IP-ADDRESS	Displays the IP address for network communication. Displays FAIL if an error is detected. **Note** The IP addresses for MAIN and BACKUP do not change even if MAIN/BACKUP are switched. When switching MAIN/BACKUP, the IP address of MAIN and the IP address of BACKUP also switch. This ensures that from outside of the IXS system, the IP addresses of the system as a whole do not seem to change even when MAIN/BACKUP switch.
SLOT-ID	Displays the slot number where the control board is inserted.

SUB CPU

Displays the matrix slot and processor slot board types and the software version of the CPU.

SUB CPU	Displays the type of board. MTX: Matrix board M-SDI: HD/SD video processor board SD-SDI: SD video processor board AUDIO: Audio processor board
BOOT	Displays the software version for system boot. Displays FAIL if an error is detected.
SYS	Displays the software version for the application system. Displays FAIL if an error is detected.

REMOTE 1 STATUS

Indicates the setup status of each channel (A/B/C) of REMOTE 1.

ID	Displays the specified station ID (1 to 254). **Note** When operating as the primary station, the station ID is "1" regardless of the switch setting on the CA-65 board.
BAUDRATE	Displays the communication speed (1250 kbps/312 kbps) of each channel of REMOTE 1.
MODE	Displays whether each channel of REMOTE 1 is set to enable synchronized communication with REFERENCE when the IXS-6000 series is set as the primary station. Nothing is displayed when the channel is set to the secondary station. ASYNC: Communicates asynchronously with the reference signal. SYNC: Communicates synchronously with the reference signal.

FAN STATUS

Displays locations of the cooling fans.

	1	2	3
L	Left top row	Left middle row	Left bottom row
R	Right top row	Right middle row	Right bottom row

Note

IXS-6600 is not equipped with L2/R2/L3/R3.

Displays the status of cooling fan.

–	The fan unit is not inserted.
HIGHER	The revolution speed is faster than normal.
LOWER	The revolution speed is slower than normal.
GOOD	The fan is rotating correctly.
STOP	The fan rotation is stopped.

Controls the fan rotation speed.

SLOW	The rotation speed is slowed to reduce noise (at normal temperatures).
FAST	The rotation speed is accelerated.

BOARD STATUS

Displays the status of each board. Also displays the revision of the circuit board when operating normally. Displays "FAIL" if there are any problems. Displays "------" if a board is not inserted.

SG-A	Status of the SG-281 board inserted in slot A for SG
SG-B	Status of the SG-281 board inserted in slot B for SG
HUB	State of the IF-20 board inserted in SLOT8 (IXS-6700) or SLOT3 (IXS-6600)

REFERENCE SIGNAL

Indicates which of the two types of reference signals (A/B) is selected.

Vref-A/Vref-B	Displays the type of video reference signal. -------: Reference input board is not input. NO-SIG: A reference is not input. 525i: NTSC interlace is input. 525p: NTSC progressive is input. 625i: PAL (interlace) is input. 750p: HD progressive (750 horizontal scanning lines) is input. 1125i: HD interlace (1125 horizontal scanning lines) is input. 1125p: HD progressive (1125 horizontal scanning lines) is input. UNKNOWN: A reference other than one listed above is input.
	Displays the switch-over timing set for the reference of each channel. ASYNC: Set to asynchronous switching. ODD: Switch-over timing is set to ODD. EVEN: Switch-over timing is set to EVEN. FILED: Switch-over timing is set to FILED.
WORD-A/ WORD-B	Displays the type of the audio word sync signal. NO-SIG: Word sync is not input. 48KHz: 48 KHz is input. 96KHz: 96 KHz is input. 192KHz: 192 KHz is input. UNKNOUWN: A signal other than one listed above is input. UNLOCK: Word sync is not locked.

POWER SUPPLY UNIT

Displays the status of each of the power supply units (IXS-6700: A1/A2/B1/B2, IXS-6600: A1/B1).

Note

The power supply units A and B of IXS-6600 are displayed as A1 and B1 on the menu screen.

Display	Displayed contents
-------	Power supply unit is not attached.
FAIL	There is an error in the power display unit.
OK	Unit is operating correctly.

AVAILABLE CHANNEL screen

Purpose

Displays the attachment status of the connector boards of rear.

(Refer to the Installation Manual supplied with the IXS-6600/6700, “Appendix A. Terminal No. Quick Reference List”.)

Setting procedure

1. Select [V] from the menu screen.
2. Press F1 twice.
   The AVAILABLE CHANNEL screen appears.

```
DISPLAY UNIT STATUS                    IXS-6700 V1.20  STATION NUMBER 1
AVAILABLE CHANNEL
VIDEO                        AUDIO                      RS-422
SRC        DEST              SRC        DEST            SRC        DEST
--- - ---  --- - ---         001 - 016  001 - 017       --- - ---  --- - ---
--- - ---  --- - ---         --- - ---  --- - ---       --- - ---  --- - ---
033 - 048  035 - 051         --- - ---  --- - ---       --- - ---  --- - ---
--- - ---  --- - ---         --- - ---  --- - ---       --- - ---  --- - ---
--- - ---  --- - ---         --- - ---  --- - ---       033 - 039  033 - 039
--- - ---  --- - ---         161 - 176  171 - 187       --- - ---  --- - ---
097 - 112  103 - 119         --- - ---  --- - ---       --- - ---  --- - ---
--- - ---  --- - ---         --- - ---  --- - ---       --- - ---  --- - ---

TIMECODE
SRC        DEST                                        SRC        DEST
--- - ---  --- - ---                                   SLOT3      SLOT1
017 - 032  018 - 034                                   SLOT4      SLOT2
--- - ---  --- - ---                                   SLOT7      SLOT5
049 - 064  052 - 068                                   SLOT8      SLOT6
--- - ---  --- - ---                                   SLOT11     SLOT9
--- - ---  --- - ---                                   SLOT12     SLOT10
--- - ---  --- - ---                                   SLOT15     SLOT13
--- - ---  --- - ---                                   SLOT16     SLOT14
F1:PgUp  F2:PgDn                          Ctrl-E:RETURN TO MENU
```

Example of setting screen

Operating function keys

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

To return to the menu screen of the secondary station

Press Ctrl – E.

Displayed contents

Divides each type of attachment status of the connector boards into source and destination, and displays them.
Refer to the diagram below the screen for the slot numbers.
Source consists of slot 3 to slot 16.
Destination consists of slot 1 to slot 14.
The following table corresponds to the actual rear panel display.

SRC	Rear panel display	DEST	Rear panel display
SLOT3	OUT 1	SLOT1	IN 1
SLOT4	OUT 2	SLOT2	IN 2
SLOT7	OUT 3	SLOT5	IN 3
SLOT8	OUT 4	SLOT6	IN 4
SLOT11	OUT 5	SLOT9	IN 5
SLOT12	OUT 6	SLOT10	IN 6
SLOT15	OUT 7	SLOT13	IN 7
SLOT16	OUT 8	SLOT14	IN 8

Note

IXS-6600 is not equipped with slot 9 to slot 16.

W : SAVE CURRENT TABLE

Purpose

Writes the present setup data in the flash memory.

Operating procedure

1. Select [W] from the menu screen.
   The message “Save Current Table? (y/n)” appears in the bottom right of screen.
2. Press [Y].
   All of the setup data except for the cross-point information of the matrix that is set in the IXS-6600/IXS-6700, are written in the flash memory.
   When writing is complete, the message “Save current table? (y/n) y” disappears.
   Press [N] to cancel.

Notes

- While writing data in flash memory is in progress, the S-BUS control is interrupted.
- It does not give any effects on the setups of the backup boards.

Note

When the DIP switch S1202-8 on the CA-65 board is set to ON, the setup written in the flash memory becomes valid at the next startup and later.

To return to the menu screen of the secondary station

Press [Ctrl] – [E].

Y : DISPLAY TABLE DATA

Purpose

Displays the internally set table data.

Operating procedure

1. Select [Y] from the menu item. The following message will be displayed at the bottom of the screen.
   Display : DISPLAY TABLE DATA?

```
SONY ROUTING SYSTEM SETUP MENU          IXS-6700  V1.00     STATION NUMBER 23


                                  DISPLAY TABLE DATA ?
                                                    Ctrl-D:RETURN
```

Example of display screen

2. Type the top address of the display in the hexadecimal number and press the Enter key. Then the internally set data is displayed.
   If Space is pressed during the display, the display will be interrupted. When Space is pressed once again, the display will resume.

```
DISPLAY TABLE DATA                      IXS-6700  V1.00     STATION NUMBER 23

0000:43 43 00 00 00 00 00 00 4E 45 54 00 00 00 00 00 : CC......NET.....
0010:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0020:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0030:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0040:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0050:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0060:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0070:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0080:56 49 54 00 00 00 00 00 41 31 00 00 00 00 00 00 : VIT.....A1......
0090:41 32 00 00 00 00 00 00 54 43 00 00 00 00 00 00 : A2......TC......
00A0:52 45 4D 00 00 00 00 00 42 33 32 00 00 00 00 00 : REM.....B32.....
00B0:5F 00 00 00 00 00 00 00 5F 00 00 00 00 00 00 00 : _........_.......
00C0:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
00D0:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
00E0:00 00 00 00 00 00 00 00 00 00 02 FF FF 10 00 00 02 : ................
00F0:FF FF 10 00 08 48 80 00 10 48 00 00 00 20 83 FD : .....H...H......
0100:00 01 00 01 00 02 00 02 00 03 00 03 00 04 00 04 : ................
0110:00 05 00 05 00 06 00 06 00 07 00 07 00 08 00 08 : ................


                                                    Ctrl-E:RETURN TO MENU
```

Example of setting screen

Note

For the contents of the table data, refer to the S-BUS Protocol Manual.

To return to the menu screen of the secondary station

Press Ctrl – E.

Z: SET SIGNAL

Purpose

Displays the internal settings and status of the equipment.

SELECT SWITCHING FIELD screen

Purpose

Sets the cross point switch-over timing.

Setting procedure

1. Select [Z] from the menu screen.
   The SELECT SWITCHING FIELD screen from the menu appears.

```
SELECT SWITCHING FIELD                  IXS-6700  V1.00    STATION NUMBER 1

DESTINATION UNIT                        SOURCE UNIT
        FORMAT  REV   REF                       FORMAT  REV   REF
SLOT1   ------- ---    A        SLOT3   ------- ---    A
SLOT2   M-SDI   1.0   (A)        SLOT4   ------- ---    A
SLOT5   PSFAIL  ---    B        SLOT7   ------- ---    A
SLOT6   SLOTERR ---   (B)        SLOT8   ------- ---    A
SLOT9   ------- ---    -        SLOT11  ------- ---    A
SLOT10  SD-SDI  1.0    -        SLOT12  ------- ---    A
SLOT13  AES-DSUB---    A        SLOT15  ------- ---    A
SLOT14  AES-DSUB---   (A)        SLOT16  ------- ---    A


REFERENCE SIGNAL
 REF     TIMING  SWITCHING LINE
  A      ODD     MANU  LINE : 7     DELAY : 30uSec
  B      ASYNC

F1:PgUp | F2:PgDn | F3:REFERE | F4:FIELD      S:Table Set   Ctrl-E:RETURN TO MENU
```

Example of display screen

Operating function keys (SELECT SWITCHING FIELD)

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

F3:REFERE (REFERENCE)

In this mode, the reference for the switch-over timing of the cross points can be selected for every two slots on the board.

1. When F3 is pressed, the cursor moves to the “REF” item on the screen.
2. Select the desired item to set and press Enter. Then the setup item changes as follows: A → B → A...
3. Press S to confirm the setting.

F4:FIELD

In this mode, the cross point switch-over timing can be set.

1. When F4 is pressed, the cursor moves to the "REFERENCE SIGNAL" item on the screen.
2. Then move the cursor to the "TIMING" (cross point switch-over field) row and press Enter. The setup status changes as follows every time Enter is pressed: ODD → EVEN → FIELD → ASYNC → ODD...
3. Then move the cursor to the "SWITCHING LINE" (setting the cross point switch-over line number) row and press Enter. The setup status changes as follows every time Enter is pressed: AUTO → MANU

AUTO	Automatically detects an input reference signal and automatically sets the proper settings for cross point switch-over timing. (Recommended setting)
MANU	Can manually set the cross-point switch-over timing. Setting "MANU" displays new "LINE:" and "DELAY:".

4. Press S to confirm the setting.

For Manual Settings

1. Move with cursor into the column left of "LINE:" with the right cursor key and press Enter. Input enters numerical input mode. Set the cross point switch-over line (1 to 1125) and press Enter to confirm the settings.
   If Ctrl – F is pressed, the values return to the set values before entering the data.
2. Move the cursor into the column right of "DELAY:" with the right cursor key and press Enter. The switch-over point can be finely adjusted. The setup status changes as follows every time Enter is pressed: AUTO → 30uSec → 15uSec → 10uSec → AUTO...
3. Press S to confirm the setting.

Note

Noise may appear if MANU is selected and subsequent settings are implemented. Do not execute the subsequent steps unless otherwise required.

```
REFERENCE SIGNAL
 REF  TIMING  SWITCHING LINE
   A  ODD     MANU  LINE : 7    DELAY : 30uSec
   B  ASYNC
```

⇩ Setup pattern table

REF	TIMING	AUTO/ MANUAL	LINE	DELAY
A B	FIELD	MANU	AUTO	Toggle display of AUTO/10uSec/15uSec/30uSec
			Numeric value entry	
		AUTO	This item cannot be set.	This item cannot be set.
	ASYNC	This item cannot be set.	This item cannot be set.	This item cannot be set.
	ODD	MANU	AUTO	Toggle display of AUTO/10uSec/15uSec/30uSec
			Numeric value entry	
		AUTO	This item cannot be set.	This item cannot be set.
	EVEN	MANU	Fixed AUTO	Toggle display of AUTO/10uSec/15uSec/30uSec
		AUTO	This item cannot be set.	This item cannot be set.

S

Writes all of the set contents to the S-BUS table.

To return to the menu screen of the secondary station

Press Ctrl – E.

Displayed contents

DESTINATION UNIT/SOURCE UNIT

Displays the types of signals of the connector board of rear.

Display	Displayed contents
M-SDI	HD/SD video board is inserted.
SD-SDI	SD video board is inserted.
AES-BNC	AES/EBU audio (BNC) board is inserted.
AES-DSUB	AES/EBU audio (D-sub) board is inserted.
RS-422	RS-422 board is inserted.
TIMECODE	TIMECODE board is inserted.
ANALOG-A	ANALOG audio board is inserted.

Note

Displays "------" when the status of the front board (matrix board) is as follows.

Display	Displayed contents
-------	Board is not inserted.
PSFAIL	There is an error in the power circuitry of the board, regardless of the type of board input.
SLOTERR	The board inserted is one that should not have been inserted.

Displays "------" when the status of the connector board is as follows.

Display	Displayed contents	
-------	For slots for input boards	Board is not inserted. Or, there is an error on the front board.
	For slots for output boards	Front board is not inserted.
PSFAIL	There is an error in the power circuitry of the board, regardless of the type of board input.	
TEMP	The board temperature is unusually high.	
SLOTERR	The board inserted is one that should not have been inserted.	

REV

Displays the revision of the circuit board.

REF

Indicates which of the two types of reference signals (A/B) is selected.

Display	Displayed contents
A	Uses the system A reference signal.
B	Uses the system B reference signal.
-	Does not use either the system A or B reference signal.

Note

In the reference settings, each input board can be set individually. For the output board, the settings for the even slots 2, 6, 10, and 14 become ineffective and comply with the settings for the odd slots.

SELECT ALARM screen

Set the conditions for alarm contact.
For IXS-6700, there are six alarm channels in the ALARM connector on the rear panel. For IXS-6600, there are four alarm channels in the REMOTE2/ALARM connector on the rear panel.

Setting procedure

1. Select [Z] from the menu screen.
2. Press [F1]. The SELECT ALARM screen appears.
3. Move the cursor to the item that you want to set and press [Enter]. The item changes from – to ○ or × to – every time [Enter] is pressed.

Notes

- In IXS-6600, the rows numbered 5 and 6 in the screen below are inactive.
- In this menu, the [Enter] key is used for two types of modes. In one of the two modes, pressing [Enter] toggles between – and ○. In the other mode, pressing [Enter] toggles between – and ×. Press [F3] (INVERT) to change the mode.
  – : The selected item is exempted from the conditions to issue an alarm contactor output.
  ○ : If any of the set conditions (to issue any of the errors listed in ERROR CONTENTS) are detected, the alarm contact is closed.
  × : If any of the set conditions are detected, the alarm contact is opened.

Note

When no conditions are set as a result of changing ○ to –, the alarm contact is opened. When no conditions are set as a result of changing × to –, the alarm contact is closed.

```
SELECT ALARM                          IXS-6700  V1.00    STATION NUMBER 1

                                  ALARM NUMBER
 ERROR CONTENTS          1    2    3    4    5    6

SYNC SIGNAL              -    -    O    -    X    -
CONTROL                  -    -    -    O    X    -
POWER SUPPLY A           O    -    -    O    X    -
POWER SUPPLY B           -    O    -    O    X    -
BATTERY BACKUP           -    -    O    O    X    -
CROSSPOINT               -    -    O    O    X    -
FAN FAIL                 -    -    O    O    X    -
BOARD FAIL               -    -    O    O    X    -
ROM CHECK SUM            -    -    O    O    X    -
TEMPERATURE RISE         -    -    O    O    X    -
REMOTE1 COMMUNICATION    -    -    O    O    X    -
REOMTE1 TERMINATION      -    -    O    O    X    -

 F1:PgUp  F2:PgDn  F3:INVERT                    Ctrl-E:RETURN TO MENU
```

Example of setting screen

Operating function keys (SELECT ALARM)

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

F3:INVERT

Changes the mode. (– ⇔ ○ or × ⇔ –)

1. When F3 is pressed, the "ALARM NUMBER" item is highlighted on the screen.
2. Select the desired setup item and press Enter. The setup status changes as follows every time Enter is pressed: – ⇔ ○ or × ⇔ –.

To return to the menu screen of the secondary station

Press Ctrl – E.

Description of displayed content

Display	Displayed contents
SYNC SIGNAL	The reference signal is not input even though the item REFERENCE is selected.
CONTROL	Either the main CPU board or the backup CPU board is not working.
POWER SUPPLY A	One or more system-A power supply units are defective.
POWER SUPPLY B	One or more system-B power supply units are defective.
BATTERY BACKUP	The backup batter for the settings has run out.
CROSSPOINT	Signals at the input terminal do not match with the signals at the output terminal.
FAN FAIL	One or more fans inside the main unit is defective among the fans.
BOARD FAIL	The fuse has blown in one of the circuit boards that are inserted in the main unit.
ROM CHECK SUM	An abnormality is detected during the ROM checksum and RAM write test at startup.
TEMPERATURE RISE	Temperature inside the main unit has exceeded the rated temperature.
REMOTE1 COMMUNICATION	S-BUS REMOTE1 has stopped for 10 seconds or longer. (Valid at the primary station.)
REOMTE1 TERMINATION	S-BUS remote cable has a short circuit. (Valid at the primary station.)

SELECT VIDEO MODE screen

Purpose

Sets whether to equalize the input signal or bypass without equalizing on the multi-bit rate compatible input connector board. Sets whether to perform reclocking on the output signal or bypass without reclocking on the multi-bit rate compatible video processing board. Sets the reclocking mode (SMPTE/DVB-ASI) for the output signal.

Setting Procedure

1. Select [Z] from the menu screen.
2. Press F1 twice. SELECT VIDEO MODE appears.

Equalize Settings

1. Press F3.
2. Move the cursor to the item that you want to set (EQUALIZE) and press Enter. The setting switches between AUTO and BYPASS every time Enter is pressed.

AUTO	Automatic equalize circuit operates. Sets the item to equalize automatically detected input signals.
BYPASS	Sets to bypass the equalize circuit.

3. Press S to confirm the settings.

Format Settings

1. Press F4.
2. Move the cursor to the item that you want to set (FORMAT) and press Enter. The setting switches between DVB-ASI and SMPTE every time Enter is pressed.

SMPTE	Sets the SMPTE standard SDI signal as the locked condition of the reclocker.
DVB-ASI	Sets the DVB-ASI signal as the locked condition of the reclocker.

3. Press S to confirm the settings.

Relocking Settings

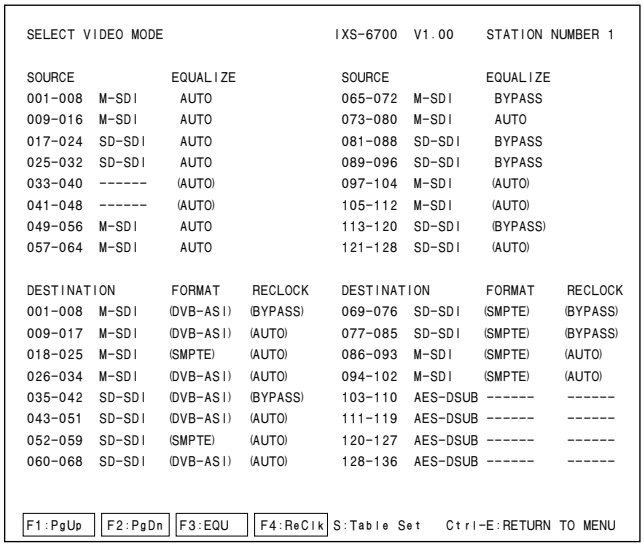
1. Press F4.
2. Move the cursor to the item that you want to set (RECLOCK) and press Enter. The setting switches between AUTO and BYPASS every time Enter is pressed.

AUTO	Reclocks the input signal and then outputs it.
BYPASS	Bypasses the signal without reclocking.

3. Press S to confirm the settings.

Notes

- If the item that you want to set is surrounded by parentheses (), it means that the setting cannot be enabled in the specified item because the dip switch setting on each board has priority.
- When the symbol "---" is displayed, it indicates that the circuit board is not installed in the slot, or any circuit board that can handle the signal format that is different (for example, AUDIO) from the digital video is inserted.



Example of display screen

Operating function keys (SELECT VIDEO MODE)

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

F3:EQU

Press F3 to enable setting of Equalizer.

F4:ReCIK

Press F4 to enable setting of Formatting and Re-Clocking.

S

Writes all of the set contents to the S-BUS table.

To return to the menu screen of the secondary station

Press Ctrl – E.

Displayed contents

SOURCE

Displays the types of signal format (types for input connect board) corresponding to each slot.

Display	Displayed contents
M-SDI	HD/SD video board
SD-SDI	SD video board
AES-BNC	AES/EBU audio (BNC) board is inserted.
AES-DSUB	AES/EBU audio (D-sub) board is inserted.
RS-422	RS-422 board is inserted.
TIMECODE	TIMECODE board is inserted.
ANALOG-A	ANALOG audio board is inserted.

Note

Displays "------" when the status of the connector board is as follows.

Display	Displayed contents
-------	Board is not inserted.
PSFAIL	There is an error in the power circuitry of the board, regardless of the type of board input.
SLOTERR	The board inserted is one that should not have been inserted.

EQUALIZE

Displays the set conditions of the equalizer mode for the source signal.

DESTINATION

Displays the types of signal format (types for the corresponding matrix board).
Displays "------" when the status of the front board (matrix board) is as follows.

Display	Displayed contents
-------	Board is not inserted.
PSFAIL	There is an error in the power circuitry of the board, regardless of the type of board input.
SLOTERR	The board inserted is one that should not have been inserted.

FORMAT

Sets the lock condition of the reclocker.

RECLOCK

Sets whether the output signal is reclocked or whether it bypasses the reclocking circuit.

ENABLE SAMPLE RATE CONVERTOR screen

Purpose

This setting turns the SRC (sampling rate converter) on and off, sets Matched-Phase Mode. This screen is valid only when the sampling rate converter board IKS-A6015 is mounted on the AES/EBU input board.

Setting procedure

1. Select [Z] from the menu screen.
2. Press F1 three times.
3. The ENABLE SAMPLE RATE CONVERTOR screen appears.

Sampling Rate Converter On/Off Settings

Move to the item that you want to set with the cursor keys and press Enter. The * in the setting appears and disappears every time Enter is pressed. Perform the settings for each input channel.

Matched-Phase Mode Settings

Move to the item that you want to set with the cursor keys and press S. The == in the setting appears and disappears every time S is pressed. Perform the settings for each input channel.

Note

The settings cannot be set for input channels where the phases are synchronized across boards.

```
ENABLE SAMPLING RATE CONVERTOR          IXS-6700  V1.00    STATION NUMBER 1

INPUT                1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16
SLOT3    (001-016)   *==*==*                    *==*==*           *==
SLOT3    (017-032)   *==*        *==*==*
SLOT4    (033-048)   *==*==*==*==*==*==*==*==*==*==*==*==*==*==*==*==
SLOT4    (049-064)   *==*==*==*==*==*==*==*==*==*==*==*==*==*==*==*
SLOT7    (065-080)
SLOT7    (081-096)
SLOT8    (097-112)
SLOT8    (113-128)
SLOT11   (129-144)
SLOT11   (145-160)
SLOT12   (161-176)
SLOT12   (177-192)
SLOT15   (193-208)
SLOT15   (209-224)
SLOT16   (225-240)
SLOT16   (241-256)



F1:PgUp  F2:PgDn                    F5:GND         Ctrl-E:RETURN TO MENU
```

Example of display screen

Operating function keys (ENABLE SAMPLING RATE CONVERTOR)

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

F5:GND (GROUND/NO SIGNAL)

This key enables to output the ground potential from the output terminal of the audio output board, or AES/EBU format signal when no input is connected. When F5 is set to “GND”, the ground potential is output from the audio output board. When F5 is set to “NOSIG”, the AES/EBU format signal with data 0 is output from the audio output board. Pressing F5 toggles between F5:GND display and F5:NOSIG display.

To return to the menu screen of the secondary station

Press Ctrl – E.

Description of the displayed contents

INPUT

Enables or disables the sampling rate converter function to each input signal on the input board.

∗ :	Turns the sampling rate converter function on.
No display:	Turns the sampling rate converter function off.

Sets the Matched-Phase Mode.

==:	The Matched-Phase Mode function is enabled between the channels shown in the left side and the right side of the equal symbol (= =).
No display:	Turns the Matched-Phase Mode function off.

Matched-Phase Mode

This function retains the phase difference between the adjacent channels of the audio signal that is input to the sampling rate converter.

Notes

- Valid in the identical board. This does not function between the signals that go to multiple inputs.
- Valid only for the input of the synchronized, identical frequency.

AUDIO OUTPUT CHANNEL EFFECT screen (V1.10 or higher)

Purpose

Sets the L/R mix with the channels for the audio board output.
Turns on or off the CRC regeneration of the AES/EBU output signal.

Setting procedure

1. Select [Z] from the menu screen.
2. Press F1 four times.
3. The AUDIO OUTPUT CHANNEL EFFECT screen appears.

Settings for audio output combinations

The audio signal is a stereo channel. There are four methods to output the 2-channel audio source: Lboth, Rboth, swap, and Mix(L+R).

1. Press F3.
2. Use the cursor key to select the setting item, and press Enter. Then enter a value 0 to 4 (0: stereo, 1: Lboth, 2: Rboth, 3: Swap, 4: Mix).
3. Press Enter to confirm the settings.

Note

The channel for compressed audio is set to stereo regardless of this setting.

CRC regeneration on/off settings

The channel status of the AES/EBU output signal is regenerated to prevent muting from happening in the device to which the signal is output due to the CRC error or other reasons when the audio signal is switched.

1. Press F4.
2. Use the cursor key to select the setting item, and press Enter. The setting toggles once only between ON and OFF when Enter is pressed.

```
AUDIO OUTPUT CHANNEL EFECT                IXS-6700  V1.10     STATION NUMBER 1

OUTPUT              1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17
SLOT1    ( 1- 17)   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT1    ( 18- 34)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT2    ( 35- 51)  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4
SLOT2    ( 52- 68)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT5    ( 69- 85)  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
SLOT5    ( 86-102)  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
SLOT6    (103-119)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT6    (120-136)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT9    (137-153)  0  1  2  3  4  0  1  2  3  4  0  1  2  3  4  0  1
SLOT9    (154-170)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT10   (171-187)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT10   (188-204)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT13   (205-221)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT13   (222-238)  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
SLOT14   (239-255)  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
SLOT14   (256-272)  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
        0 : stereo, 1 : Lboth, 2 : Rboth, 3 : swap, 4 : Mix(L+R)

        SLOT3  SLOT4  SLOT7  SLOT8  SLOT11  SLOT12  SLOT15  SLOT16
REGEN   ON     ON     OFF    OFF    ON      ON      ON      OFF
F1:PgUp  F2:PgDn  F3:MONO  F4:REGEN                  Ctrl-E:RETURN TO MENU
```

Example of display screen

Operation function keys (AUDIO OUTPUT CHANNEL EFFECT)

F1: PgUp

When F1 is pressed, the next screen is displayed.

F2: PgDn

When F2 is pressed, the previous screen is displayed.

F3: MONO

Pressing F3 enables setting of audio output combinations.

F4: REGEN

Pressing F4 enables turning on or off CRC regeneration.

To return to the menu screen of the secondary station

Press Ctrl - E.

SELECT RS-422 MODE screen

Purpose

This is the setup menu for RS-422 Router.

Setting procedure

1. Select [Z] from the menu screen.
2. Press F2 four times.
   The SELECT RS-422 MODE screen appears.

Master/Subordinate Settings

1. Press F3.
2. Move to the item that you want to set with the cursor keys and press Enter. The setting changes from M to S every time Enter is pressed.
3. Press S to confirm the settings.

RS-422 Router Control Function Settings

1. Press F4.
2. Move to the item that you want to set with the cursor keys and press Enter. The setting changes from ON to OFF every time Enter is pressed. For details of the respective functions, refer to section “4. Technical Information: 4-3. RS-422 Router Control”.
3. Press S to confirm the settings.

```
SELECT RS-422 MODE                          IXS-6700  V1.00    STATION NUMBER 1

OUTPUT (INPUT)                                  INPUT
No : Dir No : Dir No : Dir No : Dir   No : Dir No : Dir No : Dir No : Dir

01 : S   17 : S   33 : S   49 : S  |  01 : M   17 : M   33 : M   49 : M
02 : S   18 : S   34 : S   50 : S  |  02 : M   18 : M   34 : M   50 : M
03 : S   19 : S   35 : S   51 : S  |  03 : M   19 : M   35 : M   51 : M
04 : S   20 : S   36 : S   52 : S  |  04 : M   20 : M   36 : M   52 : M
05 : S   21 : S   37 : S   53 : S  |  05 : M   21 : M   37 : M   53 : M
06 : S   22 : S   38 : S   54 : S  |  06 : M   22 : M   38 : M   54 : M
07 : S   23 : S   39 : S   55 : S  |  07 : M   23 : M   39 : M   55 : M
09 : S   25 : S   41 : S   57 : S  |  09 : M   25 : M   41 : M   57 : M
10 : S   26 : S   42 : S   58 : S  |  10 : M   26 : M   42 : M   58 : M
11 : S   27 : S   43 : S   59 : S  |  11 : M   27 : M   43 : M   59 : M
12 : S   28 : S   44 : S   60 : S  |  12 : M   28 : M   44 : M   60 : M
13 : S   29 : S   45 : S   61 : S  |  13 : M   29 : M   45 : M   61 : M
14 : S   30 : S   46 : S   62 : S  |  14 : M   30 : M   46 : M   62 : M
15 : S   31 : S   47 : S   63 : S  |  15 : M   31 : M   47 : M   63 : M

  SOURCE PROTECT   ON
  I/O MIX          ON

F1:PgUp  F2:PgDn  F3:Dir  F4:MODE    S:Table Set  Ctrl-E:RETURN TO MENU
```

Example of display screen (V1.00 / V1.01)

```
SELECT RS-422 MODE                          IXS-6700  V2.01    STATION NUMBER 1

OUTPUT                  1  2  3  4  5  6  7  8
SLOT1   (OUT  1 -  8)   S  S  S  S  S  S  S  S
SLOT2   (OUT  9 - 16)   S  S  S  S  S  S  S  S
SLOT3   (IN   1 -  8)   M  M  M  M  M  M  M  M
SLOT4   (IN   9 - 16)   M  M  M  M  M  M  M  M
SLOT5   (OUT 17 - 24)   S  S  S  S  S  S  S  S
SLOT6   (OUT 25 - 32)   S  S  S  S  S  S  S  S
SLOT7   (IN  17 - 24)   M  M  M  M  M  M  M  M
SLOT8   (IN  25 - 32)   M  M  M  M  M  M  M  M
SLOT9   (OUT 33 - 40)   S  S  S  S  S  S  S  S
SLOT10  (OUT 41 - 48)   S  S  S  S  S  S  S  S
SLOT11  (IN  33 - 40)   M  M  M  M  M  M  M  M
SLOT12  (IN  41 - 48)   M  M  M  M  M  M  M  M
SLOT13  (OUT 49 - 56)   S  S  S  S  S  S  S  S
SLOT14  (OUT 57 - 64)   S  S  S  S  S  S  S  S
SLOT15  (IN  49 - 56)   M  M  M  M  M  M  M  M
SLOT16  (IN  57 - 64)   M  M  M  M  M  M  M  M

  SOURCE PROTECT   ON                MULTI DROP       ON
  I/O MIX          ON                M/S AUTO         ON

F1:PgUp  F2:PgDn  F3:Dir  F4:MODE    S:Table Set  Ctrl-E:RETURN TO MENU
```

Example of display screen (V1.10 or higher)

Note

M/S AUTO is added from V2.01.

Operating function keys (SELECT RS-422 MODE)

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

F3:Dir

Pressing F3 enables setting of Master/Subordinate.

F4:MODE

Pressing F4 enables ON/OFF setting of RS-422 Router Control (SOURCE PROTECT, I/O MIX, MULTI DROP, M/S AUTO).

S

Press S to write all of the set contents to the S-BUS table.

To return to the menu screen of the secondary station

Press Ctrl – E.

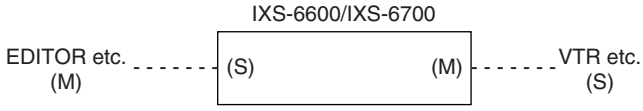
Description of the displayed contents

INPUT/OUTPUT

Indicates the number of the 9-pin connector on the RS-422 input board or RS-422 output board.

Direction

This menu must be used to set whether the output location of each 9-pin connector of terminal Nos. 1 to 63 controls (M) the unit, or is controlled (S) by the unit. If the connected unit is M, set the output location to S. If the connected unit is S, set the output location to M.



M : Control side (Master)
S : Controlled side (Subordinate)

SOURCE PROTECT

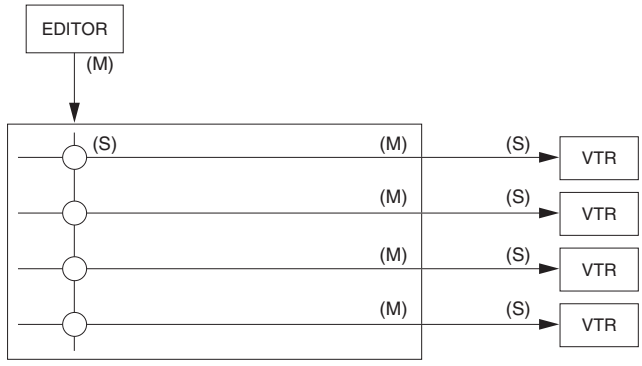
This function protects the source that has already been assigned to a specific destination from being selected by any other destinations.
The source already assigned to a destination in which source protection is activated cannot be selected by other destinations.

Note

If IXS-6700/6600 is used as the secondary station, the corresponding primary station should be IXS-6700/6600, HDS-X5800, or HKSP-R80. Furthermore, this function can only be used if the following versions of the main software are used with the different primary stations: V1.0 or above for IXS-6700/6600, V1.44 or above for HDS-X5800, or V1.14 or above for HKSP-R80.

MULTI DROP (V1.10 or higher)

MULTI DROP is a function that allows one source to connect to multiple destinations like a normal video router.
The source connected to a protected destination cannot be connected to other destinations.

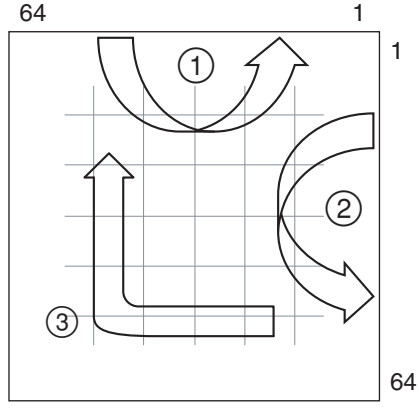


Note

Relationship between SOURCE PROTECT and MULTI DROP
The SOURCE PROTECT function only works on devices that connect to each other in both directions. On the other hand, if a protected VTR is connected one-way through MULTI DROP, the protection function will not be active. As the result, other VTRs also can be connected to the editor.

I/O MIX

This function enables the following connections.
① SOURCE → SOURCE
② DESTINATION → DESTINATION
③ DESTINATION → SOURCE (possible when M/S AUTO is also set to ON)



Note

Setting M/S Auto to ON changes the source to the master and the destination to the subordinate automatically.
The values set in this menu overwrite the old setting.

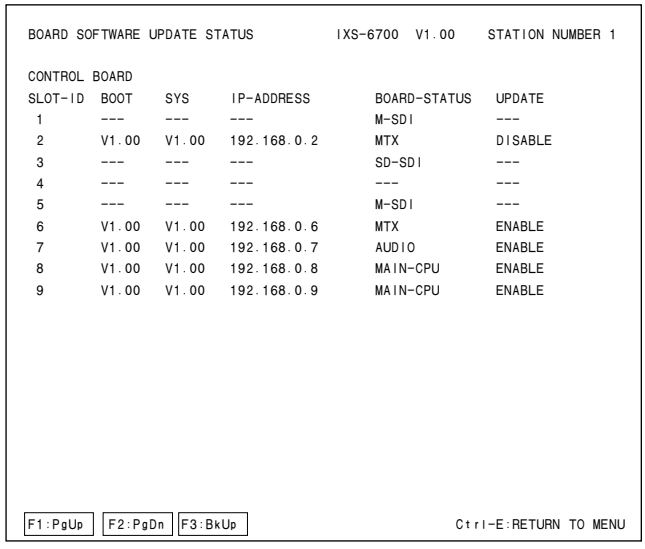
BOARD SOFTWARE UPDATE STATUS screen

Purpose

This screen checks the status of the loaded CPU and turns on and off the software upgraded as a batch, for the CPU port.

Setting procedure

1. Select [Z] from the menu screen.
2. Press F2 three times.
3. Move the cursor to the item that you want to set (UPDATE) and press Enter. Pressing Enter toggles between ENABLE display and DISBLE display.



Example of display screen

Operating function keys (BOARD SOFTWARE UPDATE)

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

F3:BKUp

A flash memory consists of the two memory areas of the normal area and the back area. When Y is pressed, memory contents of the normal area are backed up in the backup area.

The backup area can be started up as the normal area when the on-board switch of the desired board is changed, the memory contents can be recovered from the backup area even when the normal area becomes faulty.

(For the on-board switch of the respective boards, refer to the Installation Manual.)

1. Press F3. The message “Copy Program to Backup? (y/n)” appears on the screen.
2. Press Y. The memory contents of the normal area are copied into the backup area. When copying is complete, the message “Copy Program to Backup? (y/n) y” disappears.

To return to the menu screen of the secondary station

Press Ctrl – E.

Setting Contents

CONTROL BOARD

Displays the boards loaded on the CPU. Displays the versions for BOOT and SYS, the IP ADDRESS, and the type of board.

BOARD-STATUS

M-SDI	HD/SD video processor board
SD-SDI	SD video processor board
AUDIO	Audio processor board
MIX	Matrix board
MAIN CPU	CA-65 board

UPDATE

When software version of the CPU is going to be upgraded, version upgraded as a batch, is going to be executed or not can be set for each circuit board as follows.

ENABLE	Upgrades the board.
DISABLE	Does not upgrade the board.

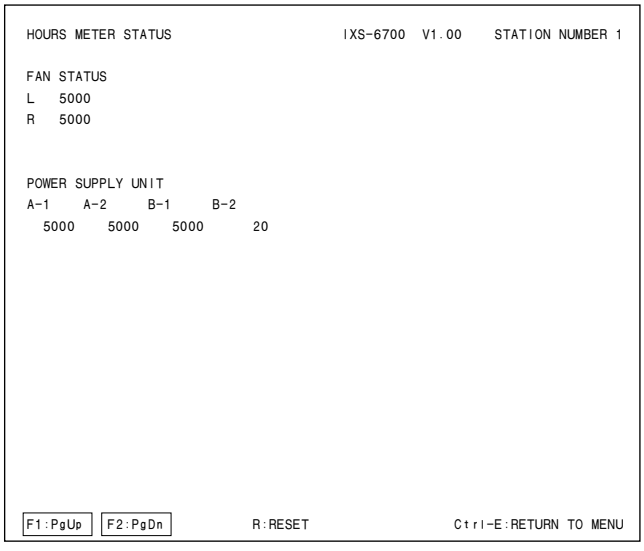
HOURS METER STATUS screen

Purpose

The accumulated hours meters of the fan unit and the power supply unit of the console can be reset.

Setting procedure

1. Select [Z] from the menu screen.
2. Press F2 two times. The HOURS METER STATUS screen of the menu appears.
3. Select the fan unit and the power supply unit that you want to reset, using the cursor key.
4. When R is pressed, the message “Reset this time? (y/n)” appears.
5. When Y is pressed, the accumulated hours reading is reset.



Example of display screen

Operating function keys (HOURS METER STATUS screen)

F1:PgUp
When F1 is pressed, the next screen is displayed.

F2:PgDn
When F2 is pressed, the previous screen is displayed.

To return to the menu screen of the secondary station

Press Ctrl – E.

Description of the displayed contents

FAN STATUS

Displays locations (L: Left, R: Right) of the cooling fans.

POWER SUPPLY UNIT

Displays locations of the power supply units.
IXS-6700 : A1, A2, B1, B2
IXS-6600 : A1, B1

Note

The power supply units A and B of IXS-6600 are displayed as A1 and B1 respectively on the menu screen.

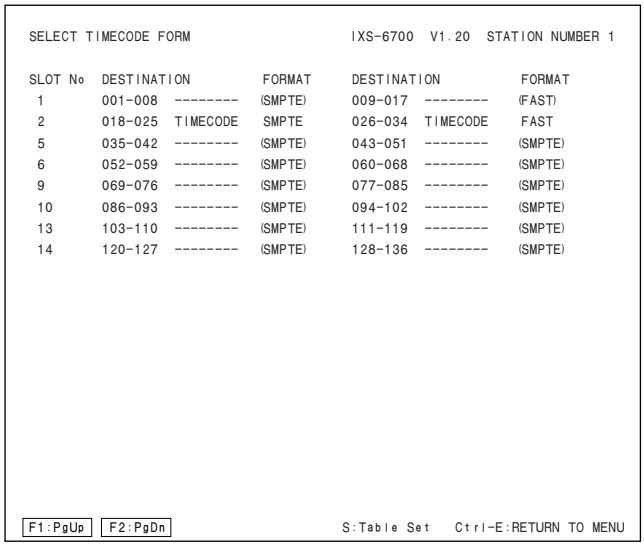
SELECT TIMECODE FORM screen (V1.20 and higher)

Purpose

Sets the waveform characteristic for the time code output signal.

Setting procedure

1. Select [Z] from the menu screen.
2. When F2 is pressed, the SELECT TIMECODE FORM screen is displayed.
3. Every time the Enter is pressed on the setting item at which the arrow key points, the option toggles between SMPTE and FAST.
4. Press S to confirm the settings.



Example of display screen

Operating function keys (SELECT TIMECODE FORM)

F1:PgUp

When F1 is pressed, the next screen is displayed.

F2:PgDn

When F2 is pressed, the previous screen is displayed.

S

When S is pressed, the setting contents are written in the S-BUS table.

To return to the menu screen of the secondary station

Press Ctrl – E.

Description of the displayed contents

Display	Description
SMPTE	SMPTE mode : 1000 bps to 10 kbps (Normal setting)
FAST	Fast transfer mode : 1000 bps to 50 kbps

Note

In the fast transfer mode*, the slope of the output signal waveform is steep, so the electrical characteristic defined in section 8.6.1 in SMPTE 12M-1999 cannot be satisfied. To output the signal conforming to this characteristic, use the SMPTE mode.

∗ : The fast transfer mode is the state where the frequency has changed such as in the time code output on the analog track during the shuttle operation.

2-7. Setting Items of the Secondary Station (HKSP-R80)

A : SET UNIT LOCATION

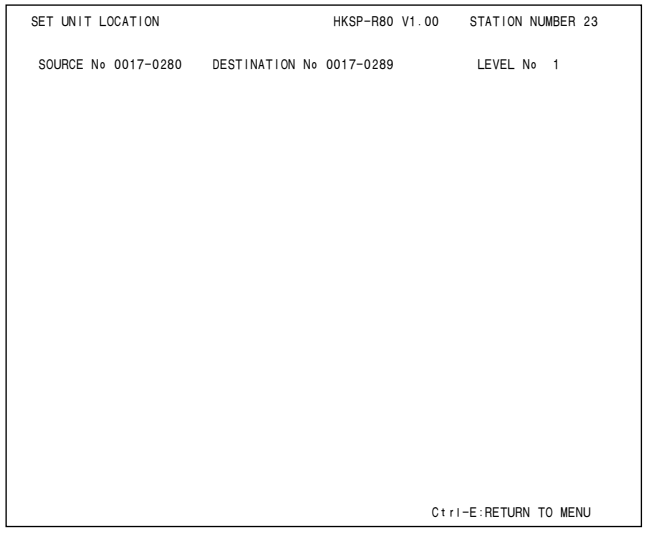
Purpose

Size and level of the virtual matrix, and locations of the input/output terminals can be set.

Setting procedure

1. Select [A] from the menu screen.
2. Select the desired setup item using the cursor key.
3. Press Enter. The virtual matrix size of the sources (input terminals) and the destinations (output terminals), and level become ready to be set.
4. Enter the value using the numeric key. The maximum values that can be input, are shown below.
   - Source : 4093
   - Destination : 4093
   - Level : 8

5. Press Enter. The setup values are registered.
   If Ctrl – F is pressed before pressing Enter, the values return to the original values before entering the data.



Example of setting screen

To return to the menu screen of the secondary station

Press Ctrl – E.

K : RESET TO DEFAULT TABLE

Purpose

Initializes all the setup values.

Note

Be careful that all of the cross-points that have been set, the internal status and the contents of the error messages that are stored in memory, will be erased if the menu item [K] is executed.
However, the IP address is not initialized.

Setting procedure

1. Select [K] from the menu screen. The message “Reset to Default table? (y/n)” will be displayed at the bottom of the screen.
2. Initialization is performed when Y is pressed.

To return to the menu screen of the secondary station

Press Ctrl – E.

V : DISPLAY UNIT STATUS

Purpose

Displays the setup data and status inside the routing switcher system.

Operating procedure

1. Select [V] from the menu screen.

```
DISPLAY UNIT STATUS                      HKSP-R80  V1.00    STATION NUMBER 1

CONTROL BOARD
        BOOT   SYS    S-BUSA S-BUSB IP-ADDRESS  SLOT-ID
MAIN    V1.00  V1.00  V2.07  V2.07  10.129.6.1   3
BACKUP  V1.00  V1.00  V2.07  V2.07  10.129.6.1   4

REMOTE1 STATUS
   ID  BAUDRATE  MODE
A   1  1250kbps  ASYNC
B   1   312kbps  ASYNC

SWITCH STATUS
S801 S802 S803 ROTARY
03H  09H  97H  0H

REFERENCE SIGNAL
A NO-SIG

TIMECODE
OK

                                                Ctrl-E:RETURN TO MENU
```

Example of screen

To return to the menu screen of the secondary station

Press Ctrl – E.

Description of the displayed contents

CONTROL BOARD (MAIN, BACKUP) :
Indicates the program version name of the respective boards, their IP addresses for the network communication and the installation slot number.
If any abnormality is detected, the message FAIL is displayed.

REMOTE 1 STATUS :
Indicates the setup status of the respective channels (A/B) of REMOTE 1.

ID : Indicates the station IDs that are set.

BAUDRATE :
Indicates the communication speed (baud rate) of the respective channels of REMOTE 1.

MODE :
Indicates whether the respective channels of REMOTE 1 are set or not to enable the communication in synchronization with the REFERENCE when the HKSP-R80 is assigned to primary station. Nothing is displayed when the channel is set to the secondary station.

SWITCH STATUS :
Indicates the present setup values of the DIP switches S801, S802 and S803 and those of the rotary switch S804 on the CPU-355 board.

REFERENCE SIGNAL :
Indicates the number of lines of the detected reference signal.

TIMECODE :
Indicates the timecode input status.
“OK” appears when the timecode is normally input. The symbols “————” appear in any other statuses.

W : SAVE CURRENT TABLE

Purpose

Writes the present setup data in the flash memory.

Operating procedure

1. Select [W] from the menu screen.
   The message “Save Current Table? (y/n)” appears in the bottom right of screen.
2. Press [Y].
   All of the setup data that have been set in the HKSP-R80 are written in the flash memory.
   Press [N] to cancel.

Notes

- While writing data in flash memory is in progress, the S-BUS control is interrupted.
- It does not give any effects on the setups of the backup boards.

Note

When the DIP switch S802-8 on the CPU-355 board is set to ON, the setup written in the flash memory becomes valid at the next startup and later.

To return to the menu screen of the secondary station

Press [Ctrl] – [E].

Y : DISPLAY TABLE DATA

Purpose

Displays the internally set table data.

Operating procedure

1. Select [Y] from the menu item. The following message will be displayed at the bottom of the screen.
   Display : DISPLAY TABLE DATA?

```
SONY ROUTING SYSTEM SETUP MENU          HKSP-R80  V1.00     STATION NUMBER 23


                                  DISPLAY TABLE DATA ?
                                                    Ctrl-D:RETURN
```

Example of display screen

2. Type the top address of the display in the hexadecimal number and press the [Enter] key. Then the internally set data is displayed.
   If [Space] is pressed during the display, the display will be interrupted. When [Space] is pressed once again, the display will resume.

```
DISPLAY TABLE DATA                      HKSP-R80  V1.00     STATION NUMBER 23

0000:43 43 00 00 00 00 00 4E 45 54 00 00 00 00 00 : CC.....NET.....
0010:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
0020:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
0030:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
0040:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
0050:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
0060:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
0070:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
0080:56 49 54 00 00 00 00 00 41 31 00 00 00 00 00 : VIT.....A1.....
0090:41 32 00 00 00 00 00 00 54 43 00 00 00 00 00 : A2......TC.....
00A0:52 45 4D 00 00 00 00 00 42 33 32 00 00 00 00 : REM.....B32.....
00B0:5F 00 00 00 00 00 00 00 5F 00 00 00 00 00 00 : _........_.....
00C0:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
00D0:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ...............
00E0:00 00 00 00 00 00 00 00 00 02 FF FF 10 00 02 : ...............
00F0:FF FF 10 00 08 48 80 00 10 48 00 00 00 20 83 FD : .....H...H.....
0100:00 01 00 01 00 02 00 02 00 03 00 03 00 04 00 04 : ...............
0110:00 05 00 05 00 06 00 06 00 07 00 07 00 08 00 08 : ...............



                                                Ctrl-E:RETURN TO MENU
```

Example of setting screen

Note

For the contents of the table data, refer to the S-BUS Protocol Manual.

To return to the menu screen of the secondary station

Press [Ctrl] – [E].

2-8. Setting Items of the Secondary Station (HDS-X5800)

A : SET UNIT LOCATION

Purpose

Sets the signal level of routing switcher and also sets the locations of the input terminals and the output terminals.

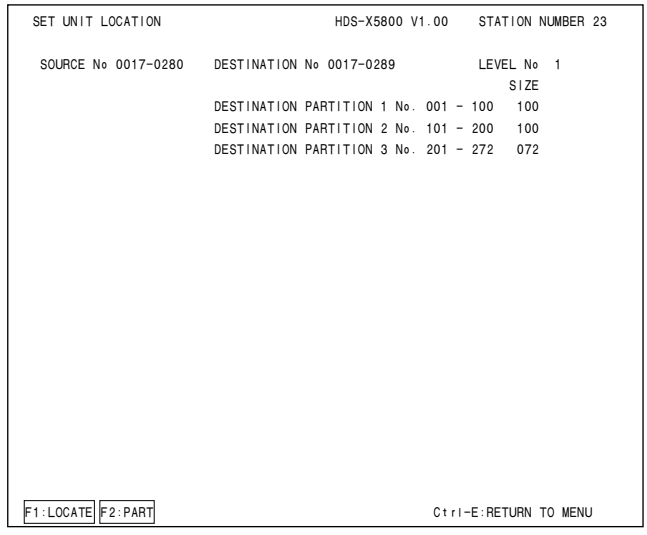
Setting procedure

1. Select [A] from the menu screen.
2. Select the desired setup item using either F1, F2, or the cursor key.
3. Press Enter. The offset value of the source side (input terminal) and that of the destination side (output terminal) become ready to be set, and the signal level of the routing switcher become ready to be set.
4. Enter the top value of the location using the numeric key. The maximum values that can be input, are shown below.
   - Source : 4093
   - Destination : 4093
   - Destination partition : 272
   - Level : 8

   Note

   When Ctrl – P is pressed in the setup item position of DESTINATION PARTITION 1, all destinations are assigned to PARTITION 1 and it becomes the general purpose matrix of 264 × 272.
   If division (setting the PARTITION) of the DESTINATION is set, the PARTITION 1 can be controlled only by REMOTE 1 (S-BUS) A, B1 and B2 channels. The PARTITION 2 can be controlled only by REMOTE 1 (S-BUS) C channel, and the PARTITION 3 can be controlled only by REMOTE 1 (S-BUS) D channel.

5. Press Enter. The setup values are registered.
   If Ctrl – F is pressed before pressing Enter, the values return to the original values before entering the data.



Example of setting screen

To return to the menu screen of the secondary station

Press Ctrl – E.

K : RESET TO DEFAULT TABLE

Purpose

Initializes all the setup values.

Note

Be careful that all of the cross-points that have been set, the internal status and the contents of the error messages that are stored in memory, will be erased if the menu item [K] is executed.
However, the IP address is not initialized.

Setting procedure

1. Select [K] from the menu screen. The message “Reset to Default table? (y/n)” will be displayed at the bottom of the screen.
2. Initialization is performed when Y is pressed.

To return to the menu screen of the secondary station

Press Ctrl – E.

V : DISPLAY UNIT STATUS

Purpose

Displays the setup data and status inside the routing switcher system.

Operating procedure

1. Select [V] from the menu screen.
   When F1 is pressed, the next screen is displayed.
   When F2 is pressed, the previous screen is displayed.

```
DISPLAY UNIT STATUS                    HDS-X5800 V1.00    STATION NUMBER 23

BOARD DETECT
INPUT            FRONT  REV     CN 1-17 REV      CN18-33 REV
SLOT1 (  1- 33) ------- ---     ------- ---      ------- ---
SLOT2 ( 34- 66) SD-SDI  1.0     SD-SDI  1.0      SD-SDI  1.0
SLOT3 ( 67- 99) SD-SDI  1.0     SD-SDI  1.0      SD-SDI  1.0
SLOT4 (100-132) SD-SDI  1.0     SD-SDI  1.0      SD-SDI  1.0
SLOT5 (133-165) PSFAIL  ---     ------- ---      ------- ---
SLOT6 (166-198) SLOTERR ---     SD-SDI  1.0      ------- ---
SLOT7 (199-231) SD-SDI  1.0     -------          SD-SDI  1.0
SLOT8 (232-264) SD-SDI  1.0     SLOTERR ---      PSFAIL  ---

OUTPUT           FRONT  REV     CN 1-17 REV REF  CN18-34 REV REF
SLOT1 (  1- 34) ------- ---     ------- ---  A   ------- ---  D
SLOT2 ( 35- 68) SD-SDI  1.0     SLOTERR ---  B   SD-SDI  1.0  C
SLOT3 ( 69-102) SD-SDI  1.0     SD-SDI  1.0  C   SD-SDI  1.0  B
SLOT4 (103-136) SD-SDI  1.0     SD-SDI  1.0  D   SD-SDI  1.0  A
SLOT5 (137-170) PSFAIL  ---     ------- ---  A   ------- ---  D
SLOT6 (171-204) SLOTERR ---     SD-SDI  1.0  B   ------- ---  D
SLOT7 (205-238) SD-SDI  1.0     -------      C   SD-SDI  1.0  A
SLOT8 (239-272) SD-SDI  1.0     SLOTERR ---  D   PSFAIL  ---  B

F1:PgUp  F2:PgDn                                  Ctrl-E:RETURN TO MENU
```

Example of DISPLAY UNIT STATUS screen

To return to the menu screen of the secondary station

Press Ctrl – E.

Description of the displayed contents

FRONT, CN1-17/CN18-34 :
Whether the plug-in boards that shall be inserted to the front slots and the connector boards are inserted or not, and presence/absence, type, and status of the board, are displayed.

REV : Displays the revision of the circuit board.

REF :
Indicates which of the 4 types of reference signals is selected.

```
DISPLAY UNIT STATUS                    HDS-X5800  V1.00    STATION NUMBER 23

CONTROL BOARD
        BOOT   SYS    S-BUSA S-BUSB S-BUSC S-BUSD  IP-ADDRESS
MAIN    V1.00  V1.00  V1.13  V1.13  V1.13  V1.13   255.255.000.023
BACKUP  -------

DISPLAY PANEL V1.00                    FAN-FRONT L       C       R
                                         TOP     1 RUN     RUN     -------
REMOTE1 STATUS                                   2 STOP    RUN     -------
   ID  BAUDRATE  MODE
A   1  1250kbps  ASYNC                            L       C       R
B   1   312kbps  SYNC                  BOTTOM 1 RUN     RUN     STOP
C 200   312kbps                                  2 STOP    RUN     RUN
D   1   312kbps  SYNC
                                       FAN-REAR  1       2
                                                 RUN     RUN
REFERENCE SIGNAL
A       B       C       D              POWER SUPPLY UNIT
525i    UNKNOWN NO-SIG  1125p          A-1     A-2     B-1     B-2
ASYNC   ODD     ASYNC   FIELD          ------- OK      FAIL    -------

F1:PgUp  F2:PgDn                                  Ctrl-E:RETURN TO MENU
```

Example of CONTROL BOARD screen

Description of the displayed contents

CONTROL BOARD (MAIN, BACKUP) :
Indicates the program version name of the respective boards and their IP addresses for the network communication.
If any abnormality is detected, the message FAIL is displayed.

DISPLAY PANEL :
Indicates status of the STATUS display board (FP-129/LE-251) and the software version.
If any abnormality is detected, the message FAIL is displayed.

REMOTE 1 STATUS :
Indicates the setup status of the respective channels (A/B/C/D) of REMOTE 1.

ID : Indicates the station IDs that are set.

BAUDRATE :
Indicates the communication speed (baud rate) of the respective channels of REMOTE 1.

MODE :
Indicates whether the respective channels of REMOTE 1 are set or not to enable the communication in synchronization with the REFERENCE when the HDS-X5800 is assigned to primary station. Nothing is displayed when the channel is set to the secondary station.

REFERENCE SIGNAL :
Indicates the number of lines of the detected reference signal and the switch timings that are set to the respective channels.

FAN FRONT, FAN REAR :

Indicates whether the fans of the HDS-X5800 (except for the power supply unit) are rotating or not.
For location of fans, refer to "2-1. Location of Main Parts" of Installation Manual.

POWER SUPPLY UNIT :

Indicates whether the power supply units are working normally or not.
For location of power supply units, refer to "2-1. Location of Main Parts" of Installation Manual.

```
DISPLAY UNIT STATUS                    HDS-X5800 V1.00    STATION NUMBER 23

CASCADE
OUTPUT          EQ-BOARD REV    CAS 1-17  CAS18-34
SLOT1  (  1- 34) ------- ---    -------   -------
SLOT2  ( 35- 68) SD-SDI   1.0    SLOT-IN   -------
SLOT3  ( 69-102) SD-SDI   1.0    SLOT-IN   SLOT-IN
SLOT4  (103-136) SD-SDI   1.0    -------   SLOT-IN
SLOT5  (137-170) PSFAIL   ---    -------   -------
SLOT6  (171-204) ------- ---    -------   -------
SLOT7  (205-238) ------- ---    -------   -------
SLOT8  (239-272) SD-SDI   1.0    -------   -------

 F1:PgUp   F2:PgDn                          Ctrl-E:RETURN TO MENU
```

CASCAPDE screen

Description of the displayed contents

EQ-BOARD :

Indicates presence/absence, type, and status of the cascade equalizer board.

REV :

Indicates the revision of the cascade equalizer board.

CAS1-17/CAS18-34 :

Presence/absence of the cascade input connector, and type, and status of the board are displayed.

Y : DISPLAY TABLE DATA

Purpose

Displays the internally set table data.

Operating procedure

1. Select [Y] from the menu item. The following message will be displayed at the bottom of the screen.
   Display : DISPLAY TABLE DATA?

```
SONY ROUTING SYSTEM SETUP MENU         HDS-X5800  V1.00    STATION NUMBER 23



                                       DISPLAY TABLE DATA ?
                                                    Ctrl-D:RETURN
```

Example of display screen

2. Type the top address of the display in the hexadecimal number and press the Enter key. Then the internally set data is displayed.
   If Space is pressed during the display, the display will be interrupted. When Space is pressed once again, the display will resume.

```
DISPLAY TABLE DATA                     HDS-X5800  V1.00    STATION NUMBER 23

0000:43 43 00 00 00 00 00 00 4E 45 54 00 00 00 00 00 : CC......NET.....
0010:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0020:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0030:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0040:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0050:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0060:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0070:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
0080:56 49 54 00 00 00 00 00 41 31 00 00 00 00 00 00 : VIT.....A1......
0090:41 32 00 00 00 00 00 00 54 43 00 00 00 00 00 00 : A2......TC......
00A0:52 45 4D 00 00 00 00 00 42 33 32 00 00 00 00 00 : REM.....B32.....
00B0:5F 00 00 00 00 00 00 00 5F 00 00 00 00 00 00 00 : _......._.......
00C0:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
00D0:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 : ................
00E0:00 00 00 00 00 00 00 00 00 00 02 FF FF 10 00 00 02 : ................
00F0:FF FF 10 00 08 48 80 00 10 48 00 00 00 20 83 FD : .....H...H......
0100:00 01 00 01 00 02 00 02 00 03 00 03 00 04 00 04 : ................
0110:00 05 00 05 00 06 00 06 00 07 00 07 00 08 00 08 : ................



                                                    Ctrl-E:RETURN TO MENU
```

Example of setting screen

Note

For the contents of the table data, refer to the S-BUS Protocol Manual.

To return to the menu screen of the secondary station

Press Ctrl – E.

Z : SET SIGNAL

Purpose

Implements the various settings as follows; sets the switching timing of various signals (SELECT SWITCHING FIELD), sets the alarm output contact conditions (ALARM SETUP), sets the dummy signal input channel at the cascade connection (SELECT CASCADE FORMAT), sets the input equalizer (SELECT INPUT EQUALIZER MODE) and sets re-clocking of output (SELECT RECLOCKING MODE).

Setting procedure (SELECT SWITCHING FIELD)

1. Select [Z] from the menu screen.
   The SELECT SWITCHING FIELD screen appears.
2. Press [S] to confirm the setting.

```
SELECT SWITCHING FIELD                    HDS-X5800  V1.00   STATION NUMBER 23

 DESTINATION UNIT
 DEST              REF            DEST              REF
 001 - 017  SD-SDI    A           018 - 034  SD-SDI   A
 035 - 051  SD-SDI    A           052 - 034  SD-SDI   A
 069 - 085  SD-SDI    A           086 - 034  SD-SDI   A
 103 - 119  SD-SDI    A           120 - 136  SD-SDI   A
 137 - 153  SD-SDI    A           154 - 170  SD-SDI   A
 171 - 187  --------  A           188 - 204  -------- A
 205 - 221  --------  A           222 - 238  -------- A
 239 - 255  --------  A           256 - 272  -------- A


 REFERENCE SIGNAL
  REF  TIMING  SWITCHNG LINE
    A   FIELD    AUTO
    B   FIELD    AUTO
    C   FIELD    AUTO
    D   FILED    AUTO


F1:PgUp F2:PgDn F3:REFERE F4:FIELD      S:Table Set  Ctrl-E:RETURN TO MENU
```

Example of SELECT SWITCHING FIELD screen

Operating function keys (SELECT SWITCHING FIELD)

[F1] : PgUp
When [F1] is pressed, the next screen is displayed.

[F2] : PgDn
When [F2] is pressed, the previous screen is displayed.

[F3] : REFERE (In this mode, the reference that is the switch-over timing of the cross-points can be selected in units of the 17 output channels.)

1. When [F3] is pressed, the cursor moves to the "REF" item on the screen.
2. Select the desired item of setting and press [Enter]. Then the setup status changes as follows. (A → B → C → D → A ...)

[F4] : FIELD (In this mode, the cross-points switch-over field can be selected.)

1. When [F4] is pressed, the cursor moves to the "REFERENCE SIGNAL" item on the screen.
2. Then move the cursor to the "TIMING" (setting the cross-points switch-over field) row and press [Enter]. Then the setup status changes as follows. (ODD → EVEN → FIELD → ASYNC → ODD ...)
3. Then move the cursor to the "SWITCHING LINE" (setting the cross-points switch-over line number) row and press [Enter]. Then the setup status changes as follows. (AUTO → MANU)

Note

Noise may appear if the MANU is selected and the subsequent settings are implemented. Do not execute the subsequent steps unless otherwise required.

```
REFERENCE SIGNAL
 REF  TIMING  SWITCHING LINE
   A  ODD     MANU  LINE : 7    DELAY : 30uSec
   B  ASYNC
   C  EVEN    MANU  LINE : AUTO DELAY : AUTO
   D  FIELD   AUTO
```

⇩ Setup pattern table

A B C D	FIELD	MANU	AUTO Numeric value entry	Toggle display of AUTO/10uSec/15uSec/30uSec
		AUTO	This item cannot be set.	This item cannot be set.
	ASYNC	This item cannot be set.	This item cannot be set.	This item cannot be set.
	ODD	MANU	AUTO Numeric value entry	Toggle display of AUTO/10uSec/15uSec/30uSec
		AUTO	This item cannot be set.	This item cannot be set.
	EVEN	MANU	Fixed AUTO	Toggle display of AUTO/10uSec/15uSec/30uSec
		AUTO	This item cannot be set.	This item cannot be set.

To return to the menu screen of the secondary station

Press [Ctrl] – [E].

Setting procedure (ALARM SETUP)

Six channels of the alarm contact are prepared in the ALARM connector on the rear panel. Sets the conditions as shown below to close the alarm contact each.

1. Select [Z] form the menu screen.
2. Press [F1]. The SELECT ALARM screen appears.
3. Move the cursor to the item that you want to set and press [Enter]. Every pressing [Enter] toggles between − ↔ ○ or × ↔ −.

   Note

   In this mode, the [Enter] key is used in the two different modes. In one of the two modes, pressing [Enter] toggles between − and ○. In the other mode, pressing [Enter] toggles between − and ×.
   Press [F3] (INVERT) to change the mode.

   − : The selected item is exempted from the conditions to issue an alarm contactor output.

   ○ : If any of the set conditions (to issue any of the errors listed in ERROR CONTETNS) is detected, the alarm contactor is closed.

   × : If any of the set conditions is detected, the alarm contactor is opened.

   When no conditions are set as a result of changing ○ to −, the alarm contact is opened. When no conditions are set as a result of changing × to −, the alarm contact is closed.

```
ALARM SETUP                          HDS-X5800 V1.00    STATION NUMBER 23

                                ALARM NUMBER
  ERROR CONTENTS          1    2    3    4    5    6

SYNC SIGNAL               -    -    0    -    X    -
CONTROL                   -    -    -    0    X    -
POWER SUPPLY A            0    -    -    0    X    -
POWER SUPPLY B            -    0    -    0    X    -
BATTERY BACKUP            -    -    0    0    X    -
CORSSPOINT                -    -    0    0    X    -
FAN STOP                  -    -    0    0    X    -
BOARD FAIL                -    -    0    0    X    -
ROM CHECK SUM             -    -    0    0    X    -
TEMPERATURE RISE          -    -    0    0    X    -
REOMTE1 TERMINATION       -    -    0    0    X    -

F1:PgUp  F2:PgDn  F3:INVERT                    Ctrl-E:RETURN TO MENU
```

Example of SELECT ALARM screen

Description of displayed content

SYNC SIGNAL :
The reference signal is not input even though the item REFERENCE is selected.

CONTROL :
Either main CPU board or backup CPU board is not working.

POWER SUPPLY A :
One or more of the two power supply units of system A is defective.

POWER SUPPLY B :
One or more of the two power supply units of system B is defective.

BATTERY BACKUP :
The backup battery for the setup data has run out.

CROSSPOINT :
Signals at the input terminal does not match with the signal at the output terminal.

FAN STOP :
One or more fans is defective among the fans inside the main unit.

BOARD FAIL :
Fuse has blown in the any of the circuit boards that are inserted in the main unit.

ROM CHECK SUM :
An abnormality is detected during the ROM checksum and RAM write test at the startup.

TEMPERATURE RISE :
Temperature inside the main unit has exceeded the rated temperature.

REMOTE 1 COMMUNICATION :
S-BUS REMOTE1 has stopped for 10 seconds or longer.

REMOTE 1 TERMINATION :
The S-BUS remote cable has open circuit. (Valid at the primary station.)

Operating function keys (ALARM SETUP)

[F1] : PgUp
When [F1] is pressed, the next screen is displayed.

[F2] : PgDn
When [F2] is pressed, the previous screen is displayed.

[F3] : INVERT
1. When [F3] is pressed, the "ALARM NUMBER" item is high-lighted on the screen.
2. Select the desired setup item and press [Enter]. Then the setup status changes as follows. (− → ○ or × → −)

To return to the menu screen of the secondary station

Press [Ctrl] – [E].

Setting procedure (SELECT CASCADE FORMAT)

Sets the dummy signal input channel at the cascade connection. It also sets slot of the matrix board in which these settings are valid.

1. Select [Z] from the menu screen.
2. Press F1 twice. The SELECT CASCADE FORMAT screen appears.
3. Move the cursor to the item that you want to set and press Enter. The screen changes to the numeric value entry mode. If Enter is pressed without inputting any numeric value, the former number remains as it is.
4. Type the input terminal number and press Enter to register the data.
   If Ctrl – F are pressed before pressing Enter, the data returns to the previous setup value and the numeric value entry is cancelled.
   When Ctrl – P are pressed, the setup value are deleted.

   Notes

   - If the format type is deleted at FORMAT, the output terminal that is supplied the signal of the deleted format type selects the cascade input by cascade switching.
   - If the setup value is deleted at NO EQUIPMENT SLOT No., all of the outputs always select the CASCADE input regardless of the setup of the CASCADE dummy input terminal.

```
SELECT CASCADE FORMAT                HDS-X5800 V1.20    STATION NUMBER 23

 FORMAT        SOURCE
 143Mbps        257
 177Mbps        258
 270Mbps        259
 360Mbps        260
 540Mbps        261
 1.5Gbps        262
 DVB-ASI        255
 BYPASS         256

 NO EQUIPMENT SLOT No.
               0

 F1:PgUp  F2:PgDn                    Ctrl-P:DELETE  Ctrl-E:RETURN TO MENU
```

Example of SELECT CASCADE FORMAT screen

Setup item

FORMAT/SOURCE :

Sets the dummy signal input channel.
Type the physical terminal number of the source side.

NO EQUIPMENT SLOT No. :

Type the top slot number of the uninstalled slots when the matrix boards (option) are not installed in the all slots at the cascade connection.
For example, when the matrix boards are installed in the slots of OUT1 through OUT4 and are not installed in the slots of OUT5 through OUT8, type “5” as the NO EQUIPMENT SLOT No.

Operating function keys (SELECT CASCADE FORMAT)

F1 : PgUp
When F1 is pressed, the next screen is displayed.

F2 : PgDn
When F2 is pressed, the previous screen is displayed.

To return to the menu screen of the secondary station

Press Ctrl – E.

Setting procedure (SELECT INPUT EQUALIZER MODE)

Note

This setting applies to the HDS-X5800 having a CPU board whose software version is 1.20 and higher.

Sets whether the input signal receives equalization on the input connector boards (HKS-5810M) supporting the multi bit rate signal or bypasses the equalizer circuit.

1. Select [Z] from the menu screen.
2. Press F1 three times.
   The SELECT INPUT EQUALIZER MODE screen appears.
3. Move the cursor to the item that you want to set and press Enter. Every pressing of Enter toggles between AUTO ↔ BYPASS.
   AUTO : It enables the automatic equalizer circuit. Types of the input signal are identified automatically to apply equalization.
   BYPASS : It sets the input signal to bypass the equalizer circuit.
4. Press S to confirm the setting.

   Note

   If the item that you want to set is surrounded by parenthesis ( ), it means that the setting cannot be enabled in the specified item.
   Example : When the inserted connector board does not support yet the setting that you have entered.

```
SELECT INPUT EQUALIZER MODE          HDS-X5800  V1.20   STATION NUMBER 23

 SOURCE             EQUALIZE          SOURCE             EQUALIZE
 001 - 008  M-SDI     AUTO            133 - 140  M-SDI     BYPASS
 009 - 017  ------    (AUTO)          141 - 149  ------    (AUTO)
 018 - 025  M-SDI     AUTO            150 - 157  M-SDI     BYPASS
 026 - 033  SD-SDI    (AUTO)          158 - 165  SD-SDI    (AUTO)
 034 - 041  M-SDI     AUTO            166 - 173  M-SDI     BYPASS
 042 - 050  M-SDI     AUTO            174 - 182  M-SDI     AUTO
 051 - 058  M-SDI     AUTO            183 - 190  M-SDI     BYPASS
 059 - 066  M-SDI     AUTO            191 - 198  M-SDI     AUTO
 067 - 074  M-SDI     AUTO            199 - 206  M-SDI     BYPASS
 075 - 083  M-SDI     AUTO            207 - 215  M-SDI     AUTO
 084 - 091  ------    (AUTO)          216 - 223  ------    (BYPASS)
 092 - 099  ------    (AUTO)          224 - 231  ------    (AUTO)
 100 - 107  SD-SDI    (AUTO)          232 - 239  SD-SDI    (BYPASS)
 108 - 116  SD-SDI    (AUTO)          240 - 248  SD-SDI    (AUTO)
 117 - 124  SD-SDI    (AUTO)          249 - 256  SD-SDI    (BYPASS)
 125 - 132  SD-SDI    (BYPASS)        257 - 264  SD-SDI    (BYPASS)

F1:PgUp F2:PgDn                    S:Table Set  Ctrl-E:RETURN TO MENU
```

Example of SELECT INPUT EQUALIZER MODE screen

Description of displayed contents

SOURCE :

It indicates the types of signal format (i.e., types of the corresponding input connector boards).

EQUALIZE :

It indicates the set condition of the equalizer mode for the source signal.

Operating function keys (SELECT INPUT EQUALIZER MODE)

F1 : PgUp
When F1 is pressed, the next screen is displayed.

F2 : PgDn
When F2 is pressed, the previous screen is displayed.

To return to the menu screen of the secondary station

Press Ctrl – E.

Setting procedure (SELECT RECLOCKING MODE)

Note

This setting applies to the HDS-X5800 having a CPU board whose software version is 1.20 and higher.

Sets the re-clocking mode for the output signal of the matrix board (HKS-5830M) supporting the multi bit rate signal.

1. Select [Z] from the menu screen.
2. Press F1 four times.
   The SELECT RECLOCKING MODE screen appears.
3. Move the cursor to the item (FORMAT) that you want to set and press Enter. Every pressing of Enter toggles between DVB-ASI ↔ SMPTE.
   SMPTE : It sets the SMPTE standard as the lock-in condition of re-clocker.
   DVB-ASI : It sets the DVB-ASI standard as the lock-in condition of re-clocker.
4. Press S to confirm the setting.
5. Move the cursor to the item (RECLOCK) that you want to set and press Enter. Every pressing of Enter toggles between AUTO ↔ BYPASS.
   AUTO : It enables the re-clocking mode in which the input signal is re-clocked and is output.
   BYPASS : It sets the output signal to bypass the re-clocking circuit.
6. Press S to confirm the setting.

Note

If the item that you want to set is surrounded by parenthesis ( ), it means that the setting cannot be enabled in the specified item.
Example : When the DIP switch on the inserted matrix board has priority to set the mode.

SELECT RECLOCKING MODE HDS-X5800 V1.20 STATION NUMBER 23

DESTINATION	FORMAT	RECLOCK	DESTINATION	FORMAT	RECLOCK
001 - 008 ------	(DVB-ASI)	(BYPASS)	137 - 144 ------	(SMPTE)	(BYPASS)
009 - 017 ------	(DVB-ASI)	(AUTO)	145 - 153 ------	(SMPTE)	(BYPASS)
018 - 025 ------	(SMPTE)	(AUTO)	154 - 161 ------	(SMPTE)	(AUTO)
026 - 034 ------	(DVB-ASI)	(AUTO)	162 - 170 ------	(SMPTE)	(AUTO)
035 - 042 M-SDI	DVB-ASI	AUTO	171 - 178 M-SDI	SMPTE	(BYPASS)
043 - 051 M-SDI	DVB-ASI	BYPASS	179 - 187 M-SDI	SMPTE	(BYPASS)
052 - 059 M-SDI	DVB-ASI	(AUTO)	188 - 195 M-SDI	SMPTE	AUTO
060 - 068 M-SDI	DVB-ASI	(BYPASS)	196 - 204 M-SDI	SMPTE	AUTO
069 - 076 M-SDI	DVB-ASI	(BYPASS)	205 - 212 M-SDI	SMPTE	BYPASS
077 - 085 M-SDI	DVB-ASI	AUTO	213 - 221 M-SDI	SMPTE	AUTO
086 - 093 ------	(DVB-ASI)	AUTO	222 - 229 M-SDI	(SMPTE)	AUTO
094 - 102 ------	(DVB-ASI)	BYPASS	230 - 238 M-SDI	(SMPTE)	(BYPASS)
103 - 110 SD-SDI	(DVB-ASI)	(AUTO)	239 - 246 SD-SDI	(SMPTE)	(BYPASS)
111 - 119 SD-SDI	(DVB-ASI)	(AUTO)	247 - 255 SD-SDI	(SMPTE)	(AUTO)
120 - 127 SD-SDI	(DVB-ASI)	(AUTO)	256 - 263 SD-SDI	(SMPTE)	(AUTO)
128 - 136 SD-SDI	(DVB-ASI)	(BYPASS)	264 - 272 SD-SDI	(DVB-ASI)	(AUTO)

F1:PgUp F2:PgDn S:Table Set Ctrl-E:RETURN TO MENU

Example of SELECT RECLOCKING MODE screen

Description of displayed contents

DESTINATION :
It indicates the types of signal format (i.e., types of the corresponding matrix board).

FORMAT :
It sets the lock-in condition of re-clocker.

RECLOCK :
It sets whether the output signal is re-clocked or bypasses the re-clocking circuit.

Operating function keys (SELECT SWITCHING FIELD)

F1 : PgUp
When F1 is pressed, the next screen is displayed.
F2 : PgDn
When F2 is pressed, the previous screen is displayed.

To return to the menu screen of the secondary station

Press Ctrl – E.

2-9. Table Data Backup

The table data that are set by a personal computer, are stored in the RAM on the CPU board.
However, backing up the set data is recommended as the measure against damage or loss of data.
The data can be easily backed up by using the software BZR-20 that is supplied with the HDS-X5800.
Refer to the Installation Manual for details.

Backup procedure

1. Start the BZR-20.
2. Select File, and select a folder where the table data is saved. Press OK.
3. Press RECEIVE→Primary.
4. Press RECEIVE→Description.
5. Press Exit.

Section 3
Confirmation of Function

3-1. Outline

When all of the setups of the routing switcher are complete, check if the system is working properly.

Each routing switcher is equipped with the self-diagnosis function to check the system connection and status of each unit. As soon as the power of the unit is supplied or the system is reset, this function begins operations which check internal conditions and connections automatically. If a fault is detected, this is immediately displayed via the following three methods.
For the error code indication on the CPU board, refer to the Installation Manual supplied with the IXS-6600/IXS-6700.

- Front panel status indication*1
- Error code indication on the CPU board
- Internal status screen (secondary station menu : V: DISPLAY UNIT STATUS)
- System status log (Primary station menu W : SYSTEM STATUS LOG)

*1 : The front panel status display exists in IXS-6600/IXS-6700 and HDS-X5800.

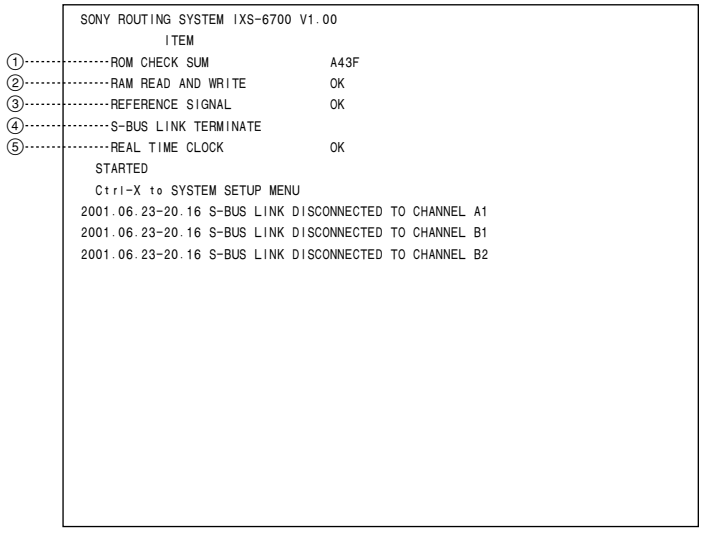
3-2. Function Check

There are two types of display modes for operation check from personal computer, which can be selected depending upon the purpose. The first type of display mode is provided by the system status screen and the other is provided by the [W] menu on the menu display of the primary station.
The system status screen shows result of self-diagnosis that is performed automatically by the primary station when the power of the system is turned on. It also shows the logs that are issued by the respective stations on the S-BUS data link in real time, enabling to use the system status display as the monitor of system operation during system run.

To check the old system status, open the menu screen and call the menu item [W : SYSTEM STATUS LOG].
This menu takes out only the system status from the memory, and displays the status, corresponding station and time of occurrence. Therefore, the [W] menu is used to check the status and to find the station issuing the error and the time of error occurrence.

3-2-1. Function Check after Power On

When the power of the primary station is turned on, results of the self-diagnosis of the primary station and the ROM checksum value, will be displayed as shown below.
If the result of the self-diagnosis is normal, “OK” will be displayed for the item. If errors have been detected, the corresponding item will be the high-lighted on screen.



Example of the system status screen after power on

Display contents

① ROM checksum value on the CPU board of the primary station.
② Condition of the reading/writing operations of the RAM in the primary station.
③ The result of detecting the reference signal in the primary station.*1
④ Presence of the 75 Ω termination in the S-BUS data link.
⑤ Detection that oscillation of REAL TIME CLOCK IN has stopped.

*1 : HKSP-R80 detects the REF input of the selected PFV-SP3100, PFV-SP3300/1.

3-2-2. Function Check with Menu Item [V : DISPLAY UNIT STATUS]

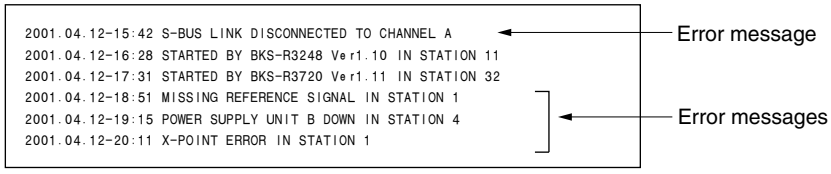
The internal settings can be checked if they contain an error or not, using the secondary station menu [V : DISPLAY UNIT STATUS] by referring to Section 2-6, 2-7, 2-8.

3-2-3. Function Check with Menu Item [W : SYSTEM STATUS LOG]

When you want to check details of the log content and time of error occurrence, select the menu item [W : SYSTEM STATUS LOG]. The log information that is stored in the memory of the primary station can be displayed.

3-2-4. System Status Log

When a message is output to the S-BUS data link, the system status screen will display the message with the date and time of occurrence. When any change takes place during the operation of the system, the error message will be displayed.



Example of system status screen during system operation

The personal computer will display several types of the system status log according to the error content. Standard error messages and their remedies are as follows.

OK

```
X-POINT RECOVERED IN STATION xx
```

NG

```
X-POINT ERROR IN STATION xx
```

Content : Faulty cross-point hardware
As a result of comparing the presence/absence of the cross-point signal connected to the station being displayed, this message will be displayed if the input signal was found to be present without the output signal, and vice versa, or if the input/output board has not been inserted correctly.
When the input/output boards are inserted securely, the OK screen appears.

Countermeasure : The cross-point of station xx is faulty. Check the input/output board has been properly installed.

OK

```
TEMPERATURE RECOVERED IN STATION xx
```

NG

```
TEMPERATURE RISE IN STATION xx
```

Content : This message is displayed when the temperature inside of the station being displayed has risen.

Countermeasure : Promptly turn off the power supply of station xx, and check for short-circuits, power leakage, faults of the mechanical parts surrounding the fan, etc.

OK

```
BACKUP CPU TEMPRATURE RECOVERED IN STATION X
```

NG

```
BACKUP CPU TEMPRATURE RISE IN STATION X
```

Content: This message is displayed when the temperature of the backup CPU rises above the rated value.

Countermeasure: Check the ambient temperature and ventilation. If that does not solve the problem, remove the backup CPU board, and repair or replace it with a new one.

OK

```
REFERENCE SIGNAL x CORRECTLY FED TO STATION xx
```

NG

```
MISSING REFERENCE SIGNAL x IN STATION xx
```

Content : This message is displayed when the SYNC/ASYNC select switch on the CPU board of the switcher has been set to the sync switching mode (SYNC), and the reference video signal has not been input to the REF IN connector.

Countermeasure : Supply the sync signal to the REF IN connector of station xx.

OK

```
WORD SYNC SIGNAL X CORRECTLY FED TO STATION XX
```

NG

```
MISSING WORD SYNC SIGNAL X IN STATION XX
```

Content: This message is displayed when SYNC/ASYNC select switch for the CPU board on the unit is set to synchronous mode (SYNC) and a audio word sync signal is not entering the WORD SYNC IN connector.

Countermeasure: Connect a synchronous signal to the WORD SYNC IN connector for station XX.

OK

```
POWER SUPPLY UNIT RECOVERED IN STATION xx
```

NG

```
POWER SUPPLY UNIT DOWN IN STATION xx
```

Content : This message is displayed when the power supply output voltage during operations has lowered and it is changed over to the backup power supply.

Countermeasure : Remove the main power supply unit of station xx, and repair or replace it with a new one.

```
DIFFERENT CHECK SUM= ????  IN STATION xx
                     ↑
                     └── checksum
```

Content: This message is displayed when an error occurs after performing the check sum test for the ROM with the CPU board on the main area after resetting the unit.

Note

This error message will be displayed only once after the software version is upgraded in the CPU board on the main area. This is normal.

```
BACKUP CPU DIFFERENT CHECK SUM XX IN STATION X
```

Content: This message is displayed when an error occurs after performing the check sum test for the ROM with the CPU board on the backup area after resetting the unit.

Note

This error message will be displayed only once after the software version is upgraded in the CPU board on the backup area. This is normal.

OK

```
S-BUS LINK CONNECTED TO CHANNEL xx
```

NG

```
S-BUS LINK DISCONNECTED TO CHANNEL xx
```

Content : This message is displayed when the S-BUS data link has been disconnected somewhere.

Countermeasure : Check the connections between the S-BUS line and each station, and check that unused S-BUS ports or the ends of S-BUS lines have been terminated in 75 Ω.
One method to search for the disconnected sections is using the menu item [R : CALL SECONDARY STATION] and checking for responses.

Note

Be sure to terminate unused S-BUS ports in 75 Ω. When a disconnection has been detected, the primary station automatically performs 75 Ω termination and restarts communication with the stations just before the disconnection. In this case, some stations may not be able to communicate even though they are connected.

```
CHANGED OVER TO BACKUP CPU IN STATION xx
```

Content : This message is displayed when an error has occurred in the CPU board during operations, and it is changed over to the sub CPU board.

Countermeasure : Remove the main CPU board, and repair or replace it with a new one.

```
STARTED BY xx – xxxxx  Ver x.xx IN STATION xx
```

Content : This message is displayed when the switcher is restarted due to instantaneous power failure, etc., or when the power is turned ON.

```
STATION xx FAILURE (DISCONNECTED OR POWER DOWN)
```

Content : This message is displayed when communication with the station set at the menu item [F] is stopped.

Countermeasure : Check the status indicator of station xx, and perform the remedies corresponding to the symptom.

```
VALID INPUT OR OUTPUT BOARD IN STATION xx
```

```
INVALID INPUT OR OUTPUT BOARD IN STATION xx
```

Content : This message is displayed when the input/output board has been inserted to and removed from the station xx.

```
VALID POWER SUPPLY UNIT x IN STATION xx
```

```
INVALID POWER SUPPLY UNIT x IN STATION xx
```

Content : This message is displayed when the power supply unit is removed or inserted.

```
FAN RECOVERED IN STATION xx
```

```
FAN STOP IN STATION xx
```

Content : This message is displayed when the fan stops or rotates.

```
COMMAND ERROR RX xxbyte XX XX XX XX XX XX XX
```

Content: This message is displayed when there is a command error on the S-BUS data link.

```
BACKUP CPU BATTERY ERROR IN STATION X
```

Content: This message is displayed when turning on the power or after resetting if the battery power is low and cannot guarantee that setup data will be backed up.

Countermeasure: Replace the lithium battery for the CPU board on the backup area.

```
BACKUP CPU DIFFERENT SWITCH SETTING IN STATION X
```

Content: The DIP switch configuration on the CPU board is different in the backup area and the main area.

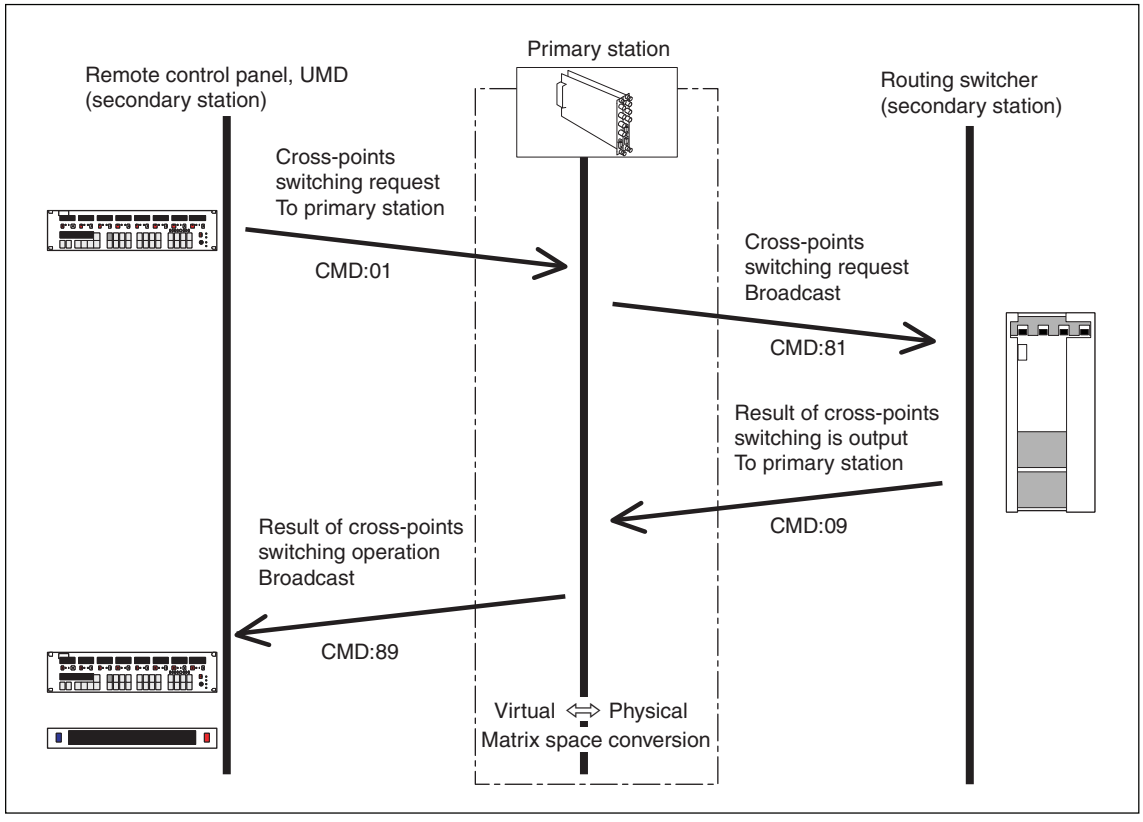
Countermeasure: Change the settings of the switches in the backup area to match the main area.

Section 4
Technical Information

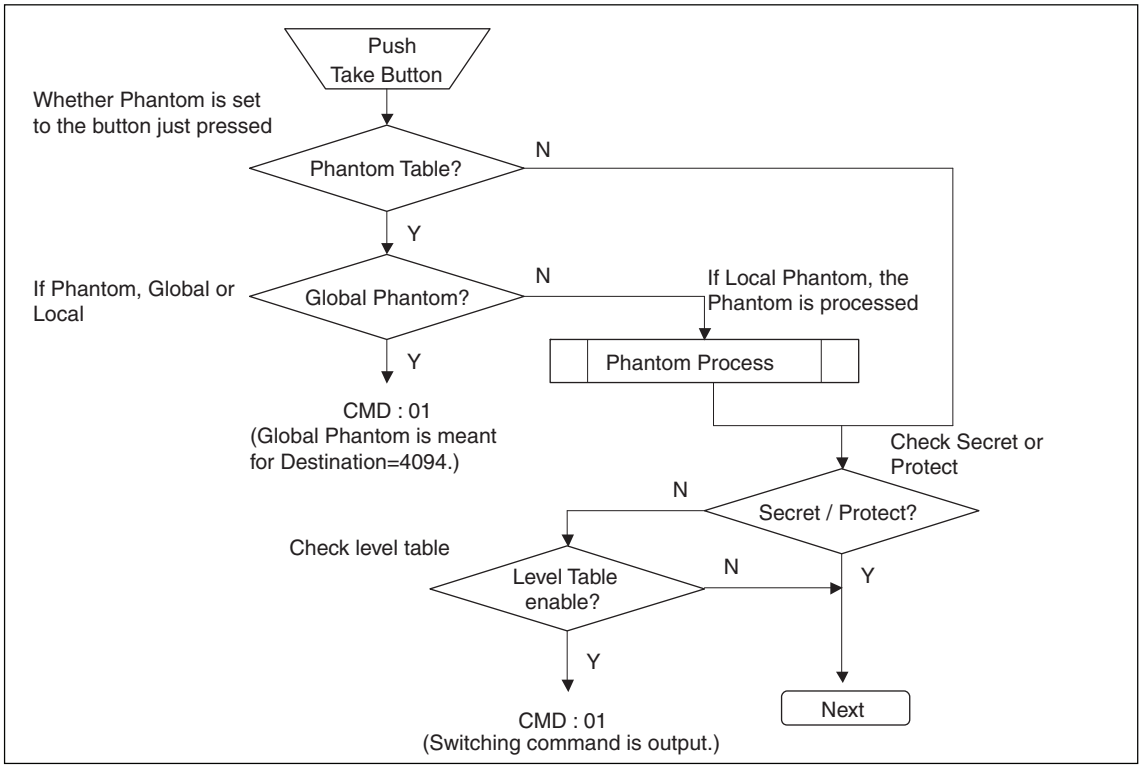
4-1. Cross-point Switching Sequence

This section describes the flow of the S-BUS commands within the S-BUS data link.

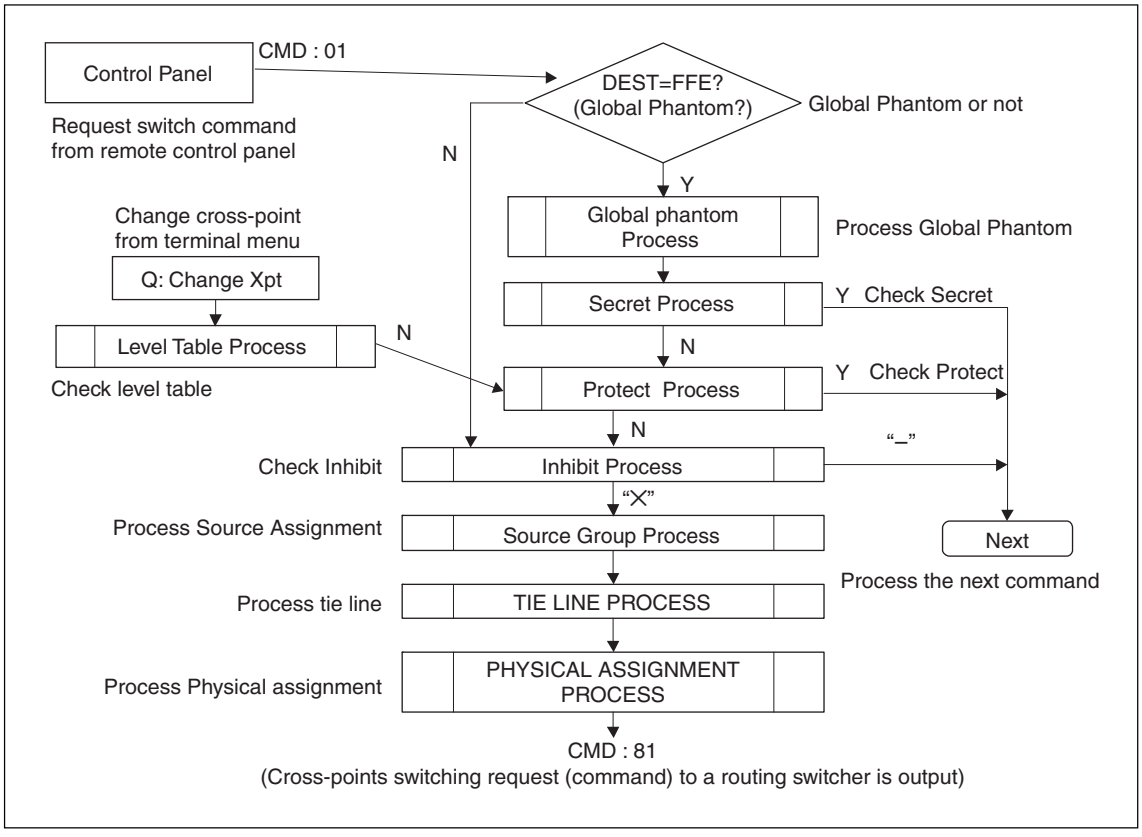
Flow of S-BUS command



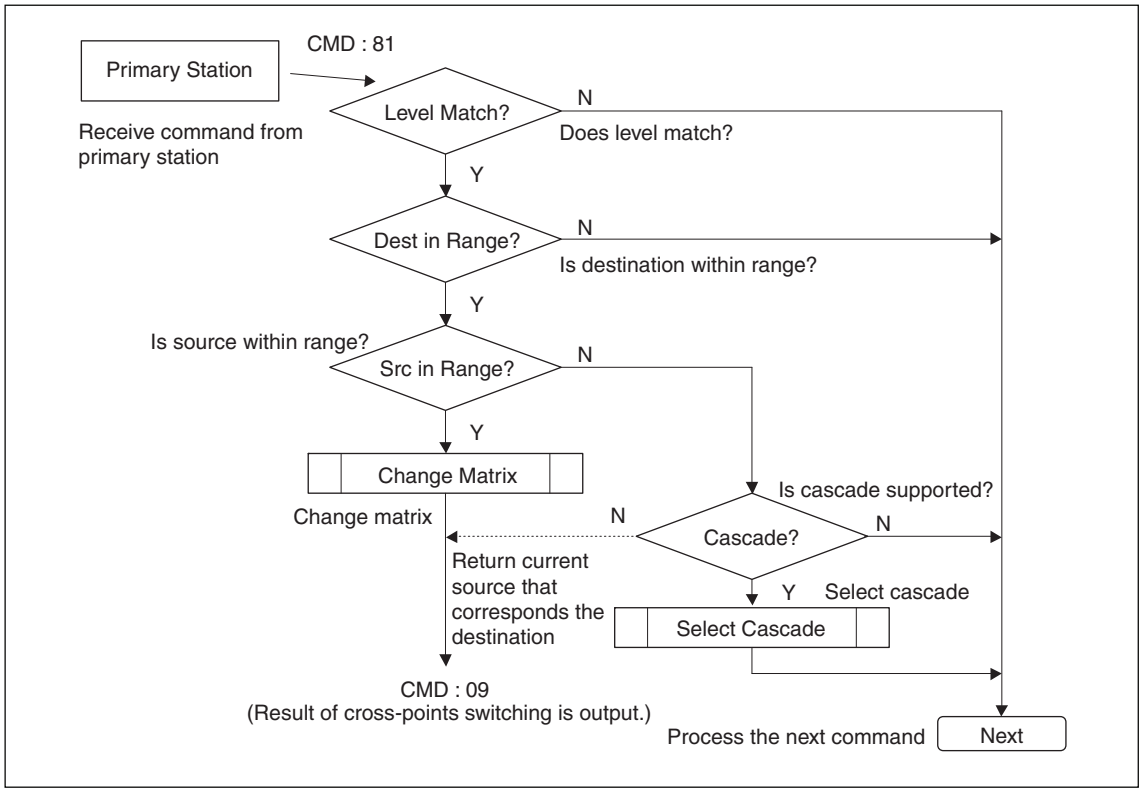
Sequence when remote control unit (remote control panel) outputs a command



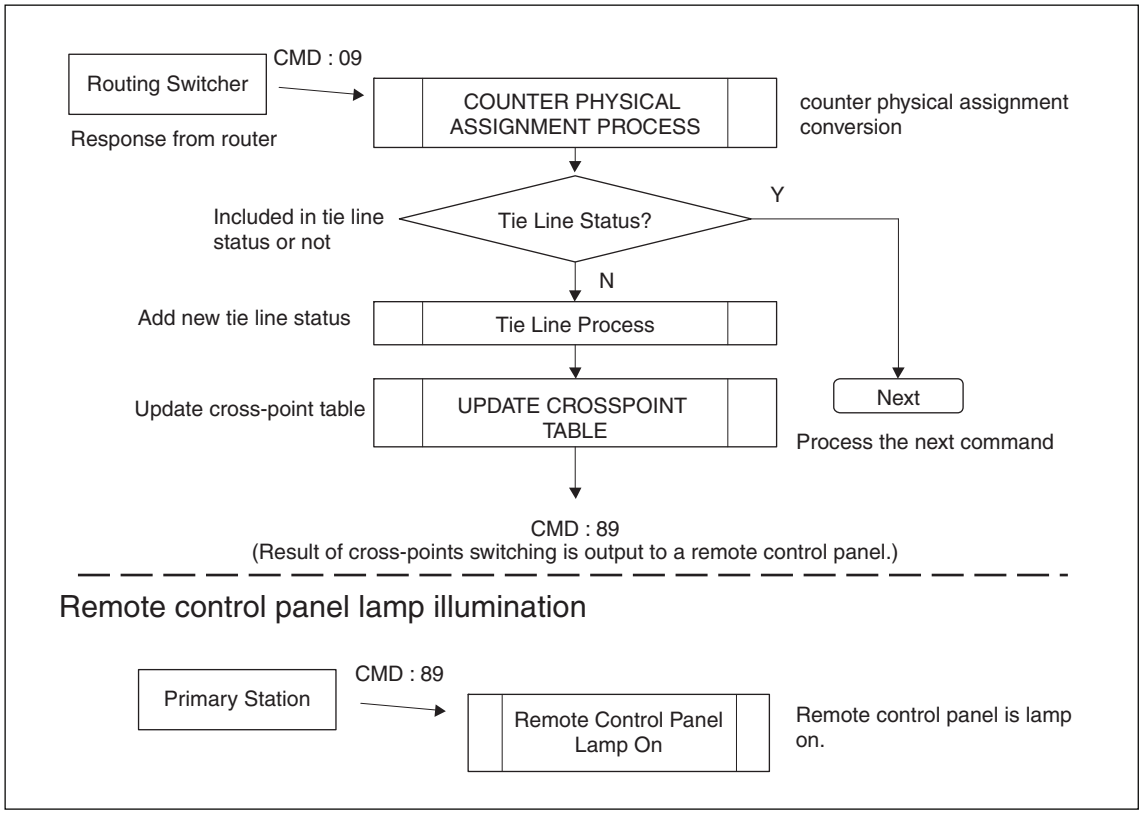
Sequence when primary station executes physical assignment conversion



Routing switcher cross-point switch sequence



Primary station counter physical assignment conversion sequence



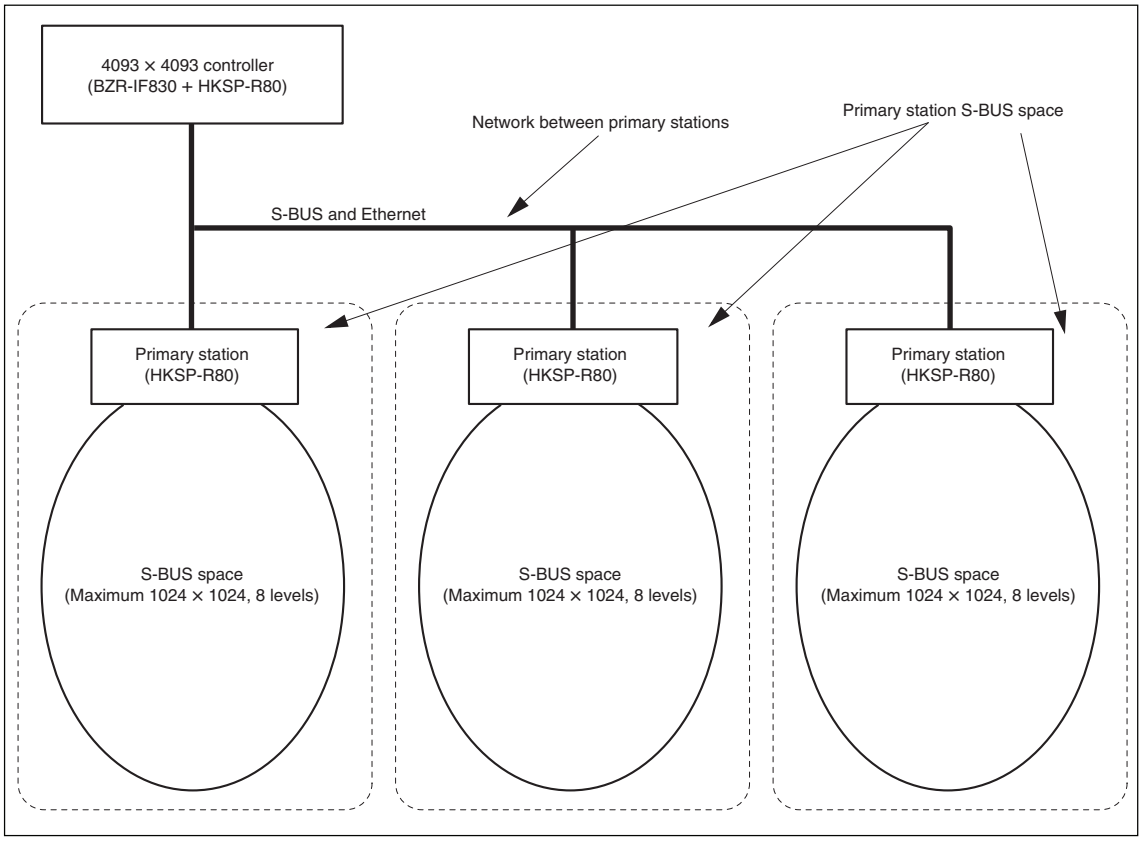
4-2. Concept of a New System Enabled by the Introduction of the BZR-IF830

This section describes the new concept that enables construction of the system containing the multiple primary stations to control the S-BUS space by introducing the 4093 × 4093 controller and the primary station* supporting the 4093 × 4093 controller.

∗: IXS-6600/IXS-6700 : V1.00 or higher
HKSP-R80 : V1.14 or higher
HDS-X5800 : V1.42 or higher

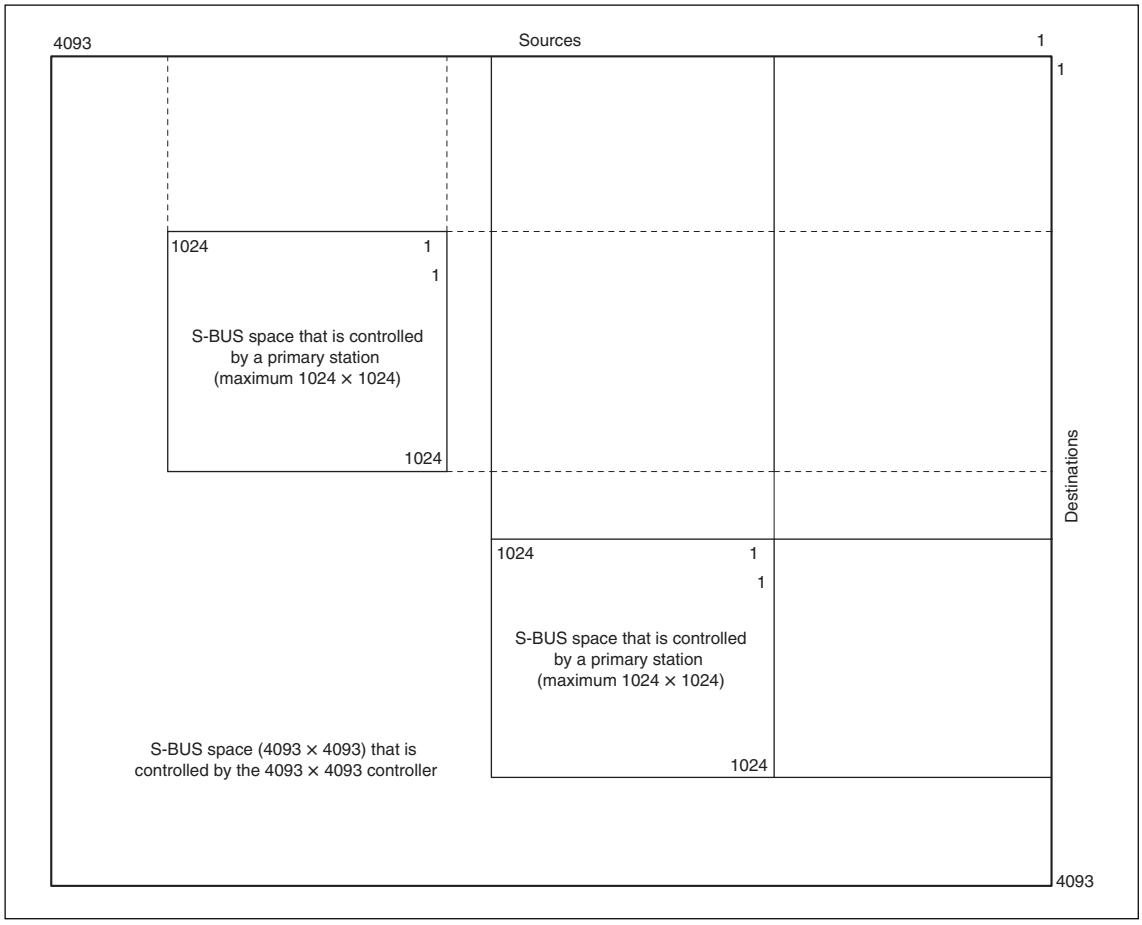
Systems connection

Conceptual drawing of the system that is connected to the 4093 × 4093 controller and the primary station supporting the 4093 × 4093 controller (to be called simply “primary station” hereafter) is shown below. The S-BUS space of maximum 1024 × 1024 controlled by a single primary station is called “Primary station S-BUS space”. The S-BUS data link and the Ethernet that are connected to the 4093 × 4093 controller and the multiple primary stations is called “Network between primary stations”.

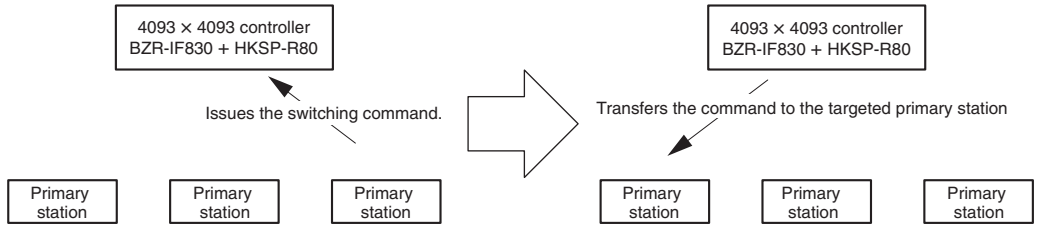


Connection with the respective primary stations

The primary station S-BUS spaces (maximum 1024 × 1024) that are connected to the 4093 × 4093 controller implement mapping on the S-BUS space of 4093 × 4093 that is controlled by the 4093 × 4093 controller. (Refer to primary station menu item “A: SET CONTROL AREA” of Section 2-5.) Each primary station judges whether a various incoming command is targeted for its own primary station S-BUS area matrix or for other S-BUS area matrix based on this mapping information.



When each of primary station receives the control command that is targeted outside the own control area whereas the control command is issued from secondary station or from third-level station equipment (such as remote control panel) that are under the primary station's own control, the primary station sends the command to the S-BUS and Ethernet connected to the 4093 × 4093 controller.
The 4093 × 4093 controller relays this command to the targeted primary station. The primary station that has received this command accepts the command only when the command is targeted at the control area of its own, and implements the corresponding control over the primary station S-BUS space of its own as requested by the command.

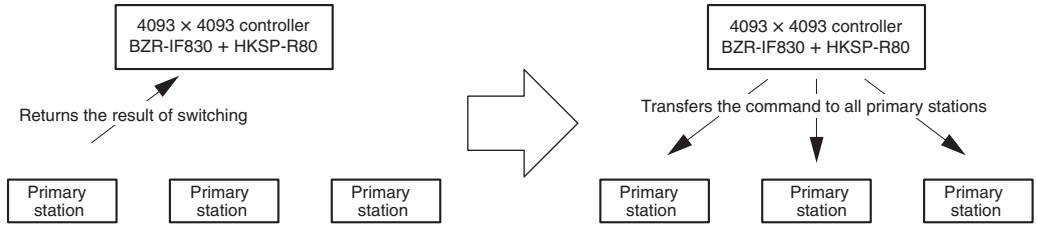


Note

This illustration shows the concept of controls. It is different from the actual operation of the system.

When a command that the 4093 × 4093 controller is going to relay, is targeted to the "Tie line connecting the different primary stations", the 4093 × 4093 controller converts the commands to the appropriate commands based on the tie line information that is set within the 4093 × 4093 controller. The 4093 × 4093 controller then sends the converted command to each primary station.
All the time, each primary station returns the result of control within its own primary station S-BUS space to the S-BUS and Ethernet to which the 4093 × 4093 controller is connected. The 4093 × 4093 controller transfers this information to all other primary stations.

If the information that is the 4093 × 4093 controller is going to relay, is the result of execution of the "Tie line connecting the different primary stations", the 4093 × 4093 controller converts the information based on the tie line information that is set within the 4093 × 4093 controller, and sends the information to each primary station.
Thus the whole system that is controlled by the 4093 × 4093 controller can share the information of all cross-points each other.



Note

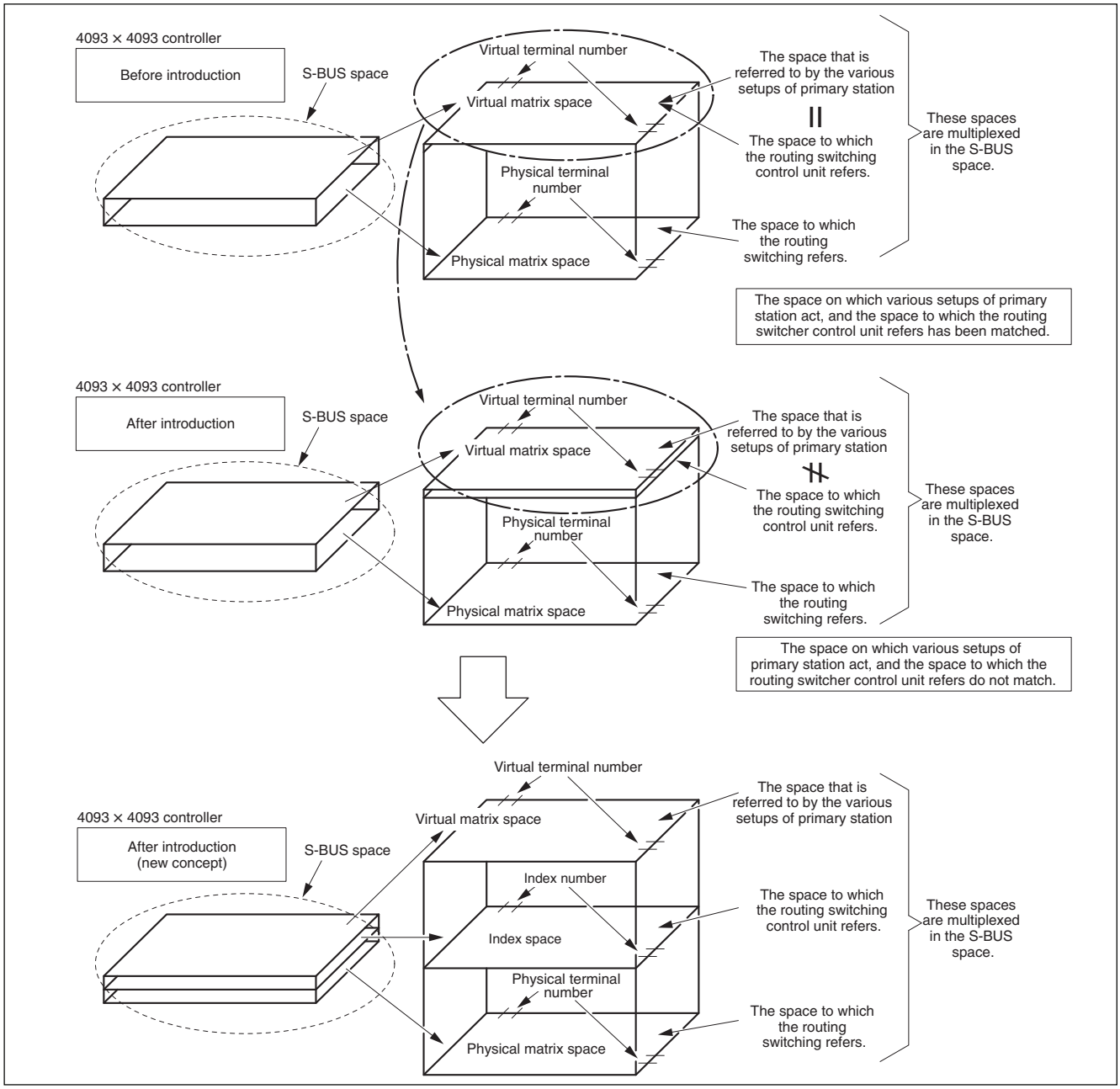
This illustration shows the concept of controls. It is different from the actual operation of the system.

Index space in the S-BUS space

After the 4093 × 4093 controller is introduced, a new index space is created as the constituent element of the S-BUS space.

In the conventional concept, the S-BUS space controlled by primary station contains the physical matrix space and the virtual matrix space. The physical matrix space means the space that is used to assign the routing switcher actually. The virtual matrix space is the space on which almost all of the setup information of primary station are reflected. At the same time, the virtual matrix space is the space to which the routing switcher control unit refers when it issues the switching command. By the introduction of 4093 × 4093 controller, the virtual matrix space is separated into the two spaces. One is the space on which the primary station setup information are reflected. The other is the space to which the routing switcher control unit refers when it issues the switching command. The former space (the space on which the primary station setup information are reflected) is called virtual matrix space. The latter space (the space to which the routing switcher control unit refers when it issues the switching command) is called index space.

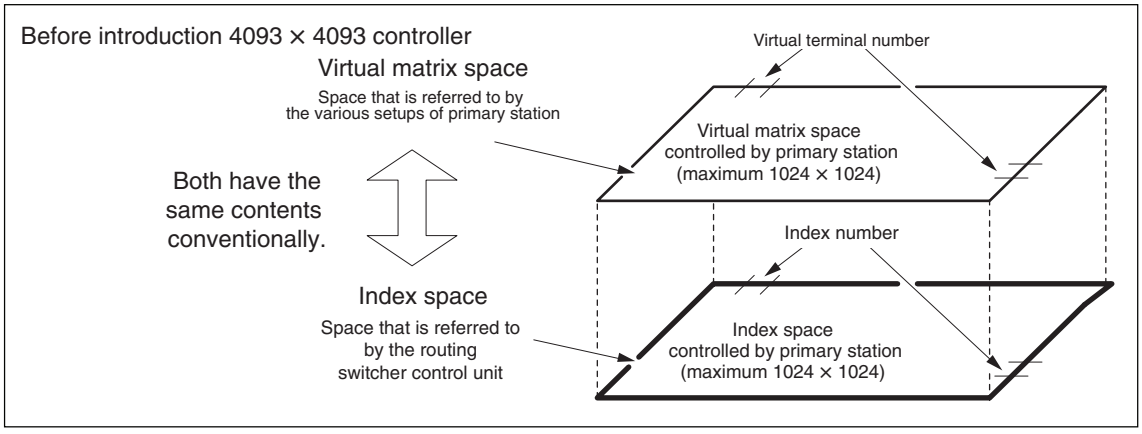
In the system that has introduced 4093 × 4093 controller, the S-BUS space consequently indicates an integrated space in which the spaces of the physical matrix space, the virtual matrix space and the index space are multiplexed.



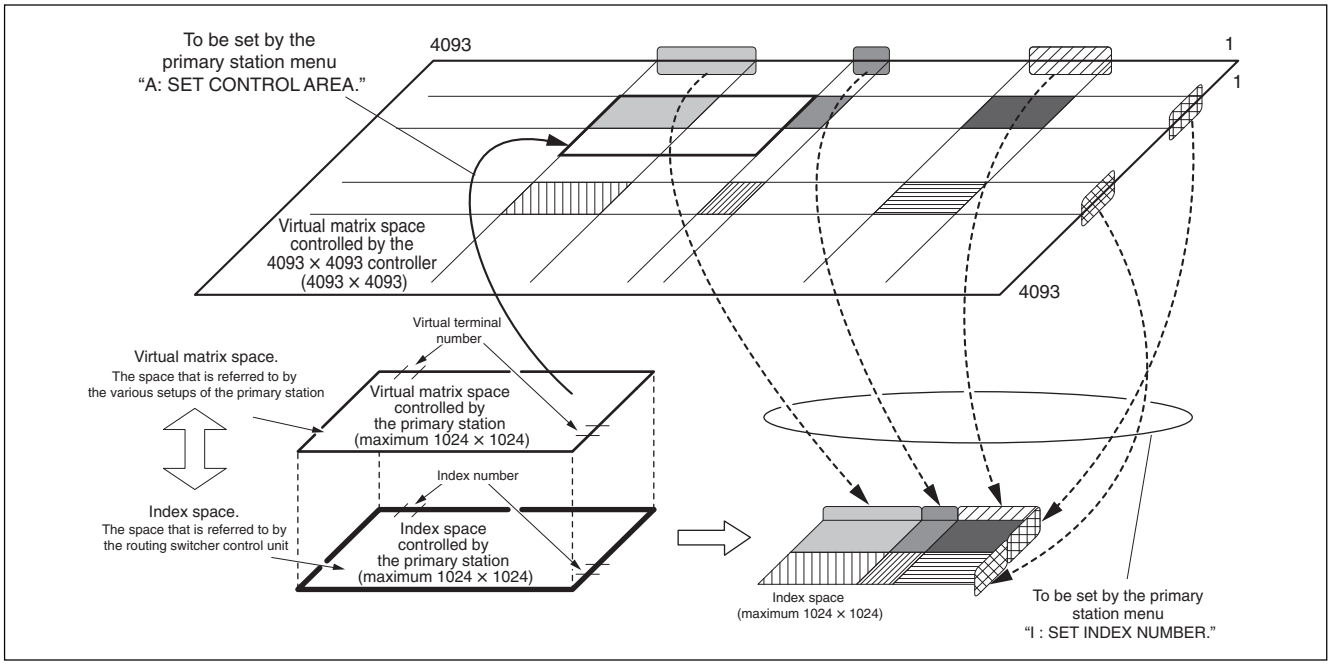
Assigning the virtual matrix space to the index space

This column explains the principle that a routing switcher control unit issues the cross-point switching command to the S-BUS space controlled by other primary station.

In the ordinary control range that will be used by primary station without introducing 4093 × 4093 controller, the virtual matrix space and the index space are exactly identical (overlapped each other) in the S-BUS space.
In the other words, a routing switcher control unit can control the S-BUS space only controlled by the primary station to which the control unit is connected.

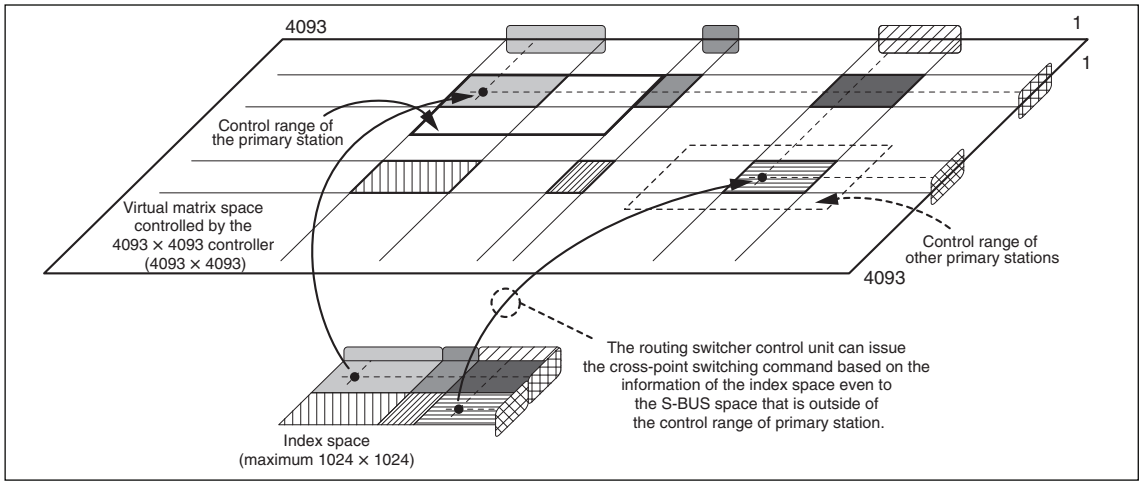


Now, the S-BUS space is separated into the virtual matrix space and the index space when the 4093 × 4093 controller is introduced. The virtual matrix space and the index space are assigned separately to the S-BUS space of 4093 × 4093 that is controlled by the 4093 × 4093 controller.
In order to assign the virtual matrix space of primary station to the S-BUS space of 4093 × 4093 that is controlled by the 4093 × 4093 controller, use the primary station menu “A: SET CONTROL AREA.” (Refer to Section 2-5 for the procedure of using menu.)
To assign the index space of primary station to the S-BUS space of 4093 × 4093 that is controlled by the 4093 × 4093 controller, use the primary station menu “I: SET INDEX NUMBER.” (Refer to Section 2-5 for the procedure of using menu.)
For the above-described assignment, an arbitrary area of the 4093 × 4093 S-BUS space controlled by the 4093 × 4093 controller can be trimmed out and so that the trimmed area is assigned to the index space of primary station as shown.



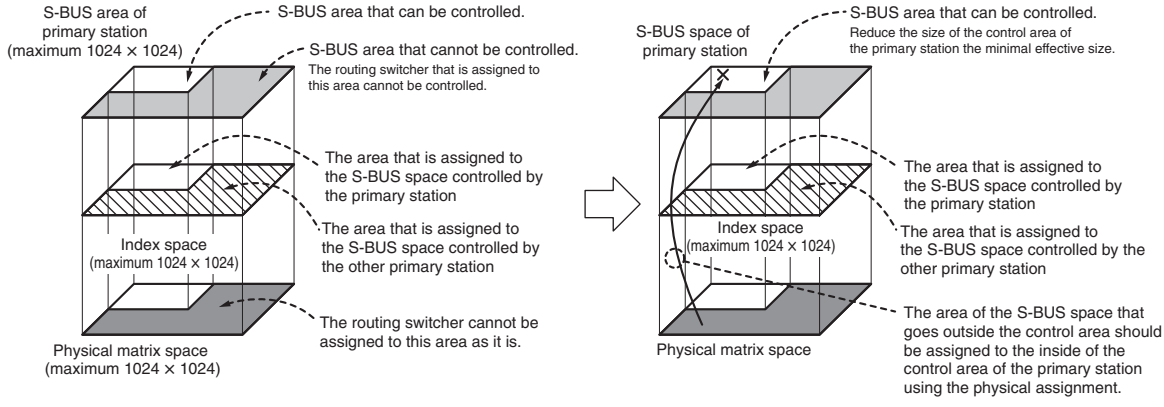
S-BUS command control outside the primary station control area

The routing switcher control unit issues the cross-point switching command based on the information of the index space.
When an arbitrary area of the 4093 × 4093 S-BUS space controlled by the 4093 × 4093 controller is trimmed out and is assigned to the index space of primary station, the routing switcher control unit issues the cross-point switching command based on the information of this index space. As the result, the S-BUS space that is being controlled by another primary station can be controlled outside the control area of the primary station to which the routing switcher control unit is connected.



Limitations

Information of the index space is memorized by each primary station. Therefore, if an arbitrary area of the S-BUS space controlled by another primary station is trimmed and assigned to an index space outside the S-BUS space controlled by the primary station of itself, the following limitation will occur.
When an arbitrary area of the S-BUS space controlled by another primary station is trimmed and assigned to an index space, it means that the S-BUS space controlled by a particular primary station is divided and the S-BUS space controlled by other primary station is forcibly assigned to the divided area. As the result, the remaining area that is provided to control the area being controlled by the original primary station becomes an uncontrollable area. Therefore, the routing switcher can no longer be assigned to such an area. To solve this problem, the control area of the primary station should be reduced to the minimal effective size (to be set by the primary station menu “A : SET CONTROL AREA”), and the routing switcher that goes outside the control area should be assigned to the inside of the control area of the primary station using the physical assignment.
The physical assignment is implemented using the primary station menu “L: SET PHYSICAL ASSIGNMENT”. (Refer to Section 2-5 for the procedure of using the menu.)



This section describes the terms that are used in this section.

4093 × 4093 controller

The HKSP-R80 in which the 4093 × 4093 control software BZR-IF830 is installed is called 4093 × 4093 controller.
It can control multiple primary stations integrally.

S-BUS space

This is the generic name of the spaces that configure the Sony Routing Switcher System in which multiple spaces (physical matrix space, index space and virtual matrix space) are multiplexed. In some case, a primary station or remote control panel (routing switcher control unit) or the space in which routing switchers are connected each other is also called S-BUS space.

Primary station

The S-BUS space has actually the multiple spaces that are multiplexed. Routing switcher control unit and routing switcher can recognize only one space among the multiple spaces. Primary station sets the relationship between the multiplexed spaces each other, and controls the S-BUS equipment such as the routing switcher control unit and routing switcher.

Primary name

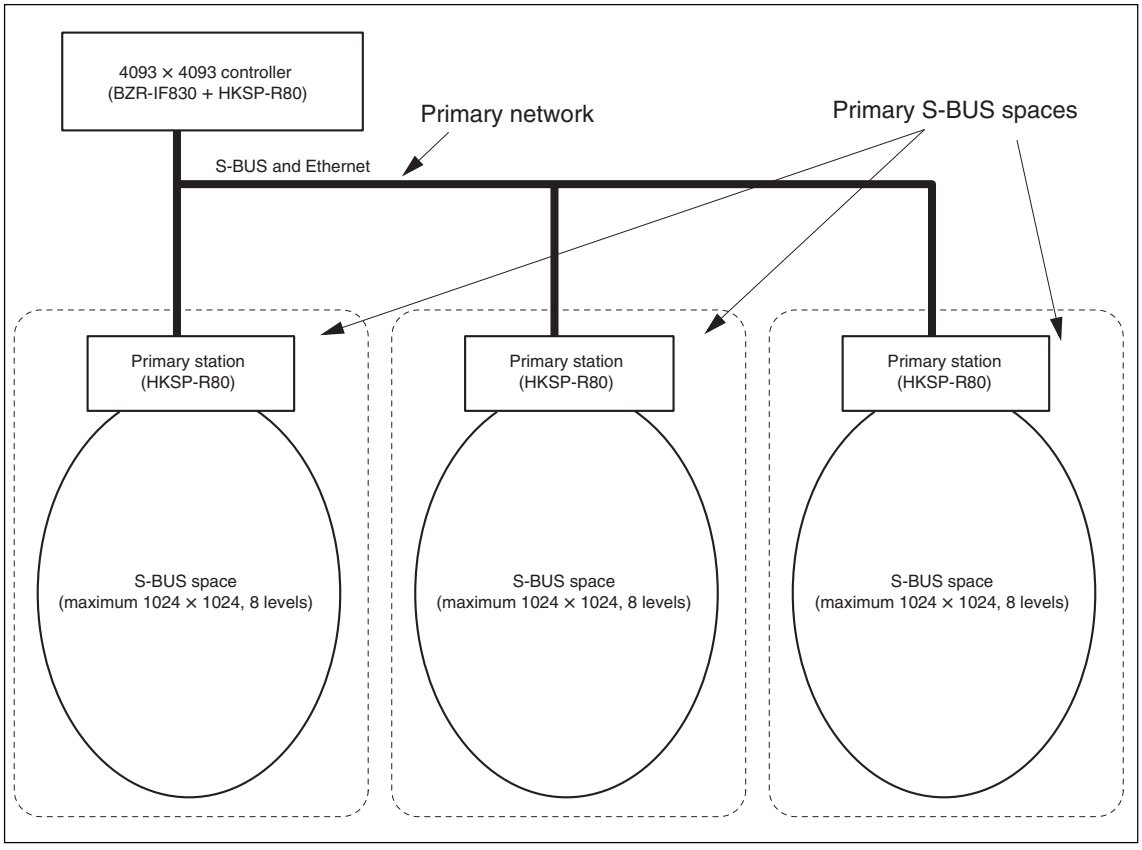
This is the unique name that is given to each primary station in order to identify the respective primary stations in the system in which multiple primary stations are connected.

Primary S-BUS space

This is the S-BUS space of maximum 1024 × 1024 that is controlled by a single primary station (HKSP-R80).

Primary network

This is the generic name of the S-BUS data link and Ethernet that connect 4093 × 4093 controller to the multiple primary stations in the system using the 4093 × 4093 controller.



S-BUS for the secondary stations

This is the S-BUS data link that connects between primary station and the respective secondary stations.

Subnet controller

Subnet controller is connected to S-BUS for the secondary station to expand the S-BUS connection.
The S-BUS space that is expanded as described above is called S-BUS subnet space.

S-BUS subnet space

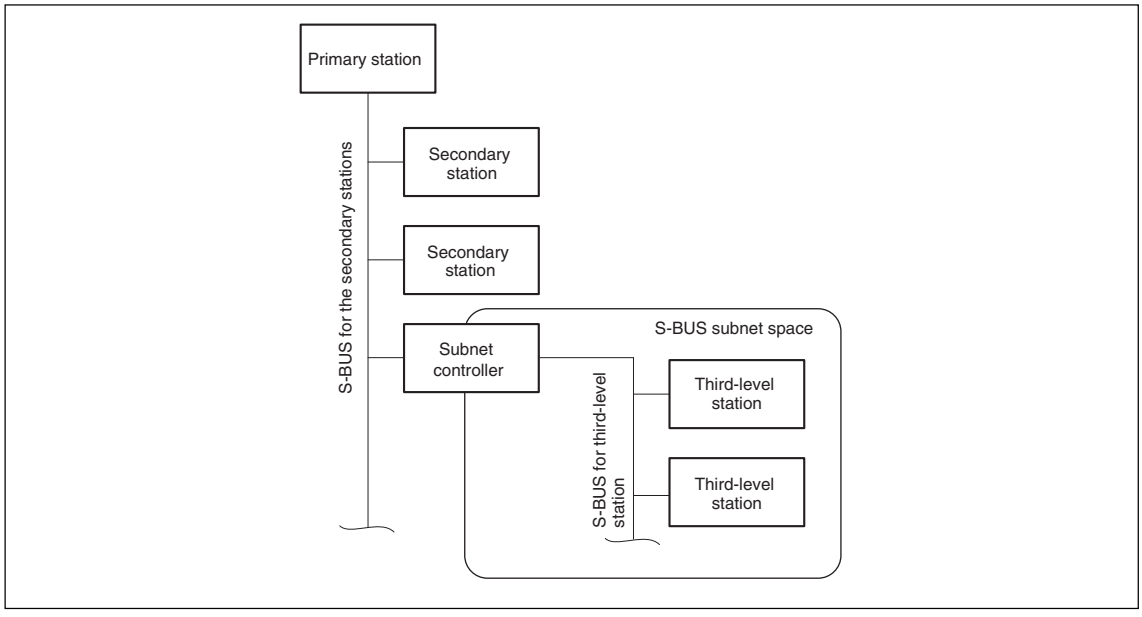
It indicates the S-BUS data link that is expanded by the BZR-IF810 or the BZR-IF820 (subnet controller).
The S-BUS device that is connected in the S-BUS subnet space is called third-level station.

Third-level station

This is the S-BUS equipment that is connected within an S-BUS subnet.

S-BUS for the third-level stations

This is the S-BUS data link that connects between the subnet controller and each third-level station.



Virtual matrix space
This is the space that is controlled by the primary station (routing switcher controller). Various control functions of routing switcher are executed by referring to this space. Display of the terminal name is also done by referring to this space. The physical terminal space is assigned by the physical assign.

Virtual terminal number
This is the terminal number within the virtual matrix space. The physical terminal numbers are assigned by physical assign.

Physical matrix space
This is the space in which routing switcher is laid out. Routing switcher refers to this space.

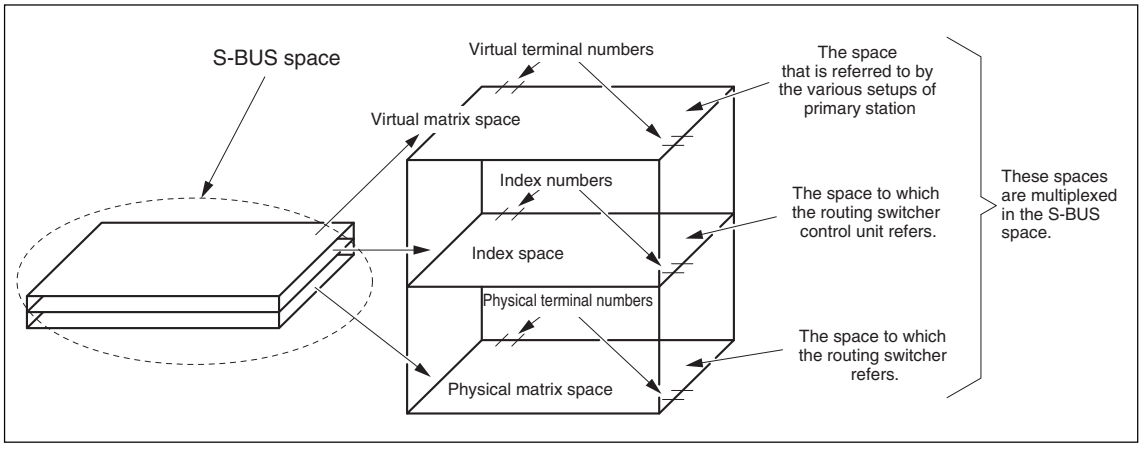
Physical terminal number
This is the terminal number within the physical matrix space.

Index space
This is the space that is controlled by the routing switcher control unit. Routing switcher control unit issues the cross-point switching command to the routing switcher by referring to this space.

Index number
This is the terminal number within the index space. The virtual terminal numbers are assigned by the primary station menu “I : SET INDEX NUMBER.”

Source index number
This is the number indicating the source within the index space.

Destination index number
This is the number indicating the destination within the index space.



4-3. RS-422 Router Controls (IXS-6600/6700)

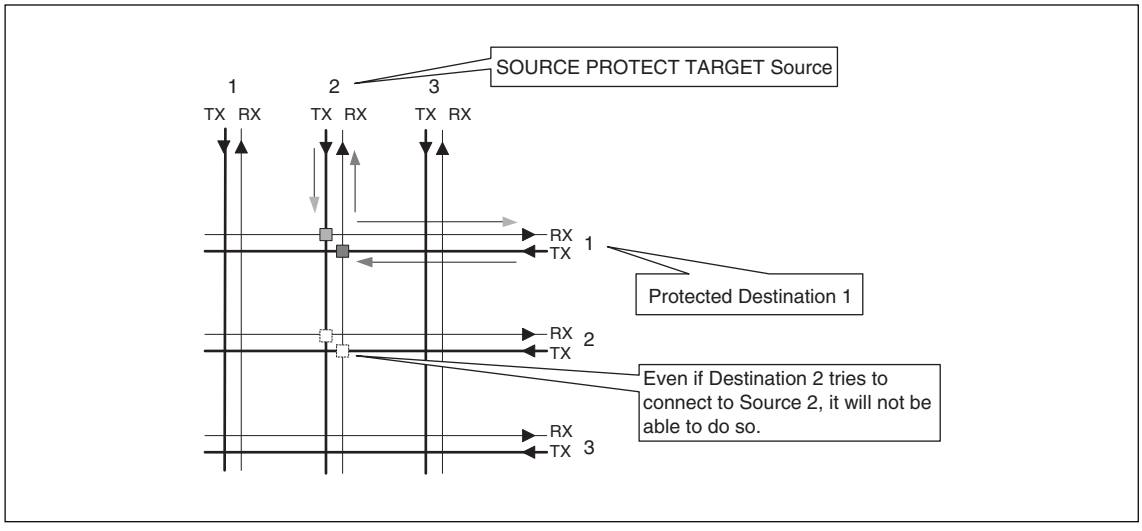
1. SOURCE PROTECT

On a normal video router, one source can be divided into multiple destinations.
The RS-422 Communication, however, has bidirectional communication with a one-to-one connection for output and input. Therefore, when connecting a new destination to a source that is already connected to a destination, the current destination must be cut off and the new destination connected. This is known as "backend priority"*. This may lead to the situation where an operation from another person cuts off the source such as VTR you are using from the current destination.

The function that protects against this problem is SOURCE PROTECT. With SOURCE PROTECT, a destination cannot select a source that is connected to a protected destination. This function prevents a destination from being cut off.

For example, say that PROTECT is set to Destination 1. If Source 2 is connected to Destination 1, it cannot be connected to Destination 2.
The user can use this function by protecting the user's Destination so that nobody else can connect to that Source.

To activate this function, set SOURCE PROTECT in SELECT RS-422 MODE to ON.
(See the SELECT RS-422 MODE screen in 2-6. Setting Items of the Secondary Station "Z: SET SIGNAL/ALARM SETUP".)



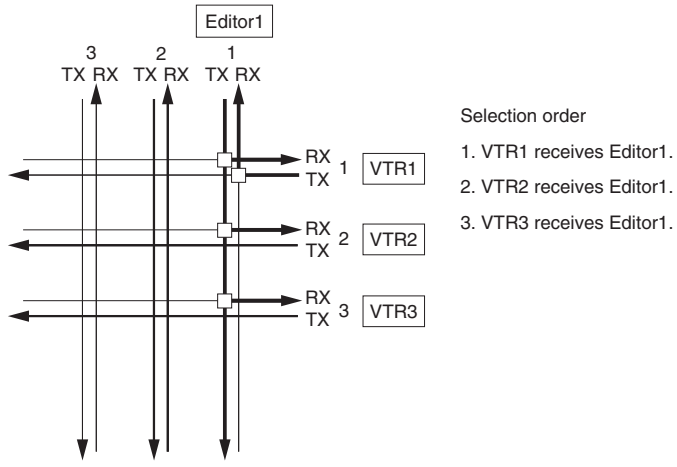
*: If the Source that was used by a certain Destination was taken by another Destination, the previous Destination is disconnected and "- - - -" is displayed.

Note

If IXS-6700/6600 is used as the secondary station, the corresponding primary station should be IXS-6700/6600, HDS-X5800, or HKSP-R80. Furthermore, this function can only be used if the following versions of the main software are used with the different primary stations: V1.0 or above for IXS-6700/6600, V1.44 or above for HDS-X5800, or V1.14 or above for HKSP-R80.

2. MULTI DROP (one-to-many connection)

The RS-422 ROUTER generally uses a one-to-one connection, but MULTI DROP is a function that allows one source to connect to multiple destinations like a normal video router. The MULTI DROP function is realized by using the method (so called one-way connection) in which only the signals that travel from the source to the destination is used among the original bidirectional signal when you want to control multiple VTR at once. (VTR2 and VTR3)



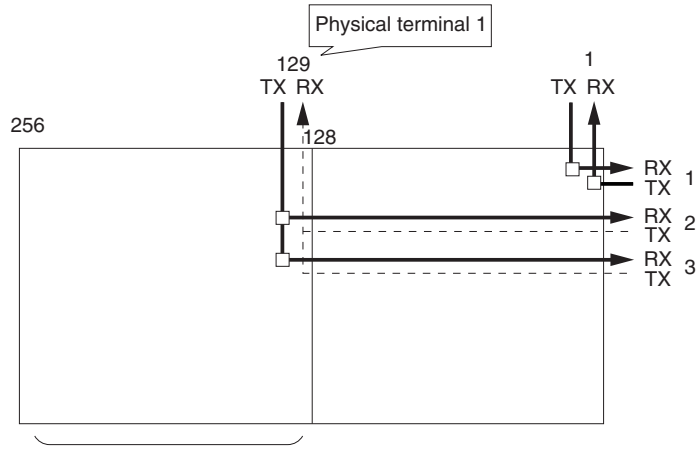
Note: This arrangement is the reverse of the default master-slave relationship.

Turn on MULTI DROP in SELECT RS-422 MODE to run this function. (Turn on the parameter in the SELECT RS-422 MODE screen in 2-6. Setting Items of the Secondary Station “Z: SET SIGNAL”.)

When running the MULTI DROP function, there must be one destination set for the source with connection in both directions.
Set 128 + this source number as the source number for other destinations (one-way connection).
For example, use the editor connected as source 1 to control VTR1 through VTR3 as destinations 1 to 3.
Set destination 1 to receive source 1 (connection in both directions).
Next, set destination 2 to receive source 129 (1 + 128) (one-way connection).
Using the same method, set destination 3 to receive source 129 (one-way connection).
For example, when you want to stop using MULTI DROP to VTR2, connect source 1 (connection in both directions).
The VTR1 through VTR3 will be disconnected once, and then VTR2 will be connected in both directions.
When source + 128 (129 in this example) of one-way connection is set, it will not give any effect on others.

Note

Setting M/S AUTO to ON changes the source to the master and the destination to the subordinate every time the switching operation is performed on the Master/Subordinate setting for the multi-drop that is set in this menu.



Note: The above figure represents index space.

Note

Relationship between SOURCE PROTECT and MULTI DROP

The SOURCE PROTECT function only works on devices that connect to each other in both directions. On the other hand, if a protected VTR is connected one-way through MULTI DROP, the source protection function will not be active. As the result, other VTRs can receive the editor.

3. I/O MIX

On video routers, the source could only send information one way to the destination. With the RS-422 ROUTER, the following combinations have also been made possible. (See Fig. 1).

① Source → Source
② Destination → Destination
③ Destination → Source, M/S AUTO also needs to be set to ON.

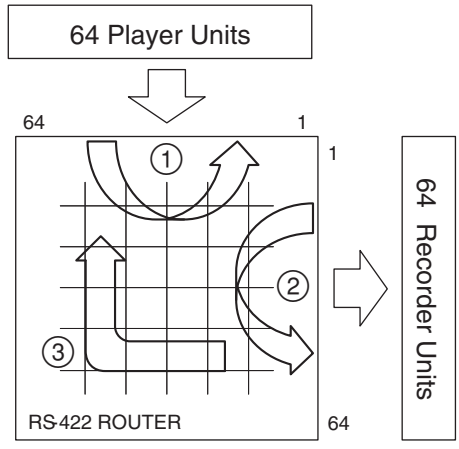


Fig. 1

Concept behind I/O MIX

Assuming the matrix in which the input and output are expanded into 128 × 128 as shown in Fig. 2, to implement I/O MIX, the conventional concept of a one-way video router connection, Source → Destination, is applied. By using this concept, you can connect combinations other than Source → Destination (See Fig. 2).

To implement these connections, set I/O MIX in SELECT RS-422 MODE to ON. (See the SELECT RS-422 MODE screen in 2-6. Setting Items of the Secondary Station "Z: SET SIGNAL/ALARM SETUP".)

Note

For ③ Destination → Source, M/S AUTO also needs to be set to ON.

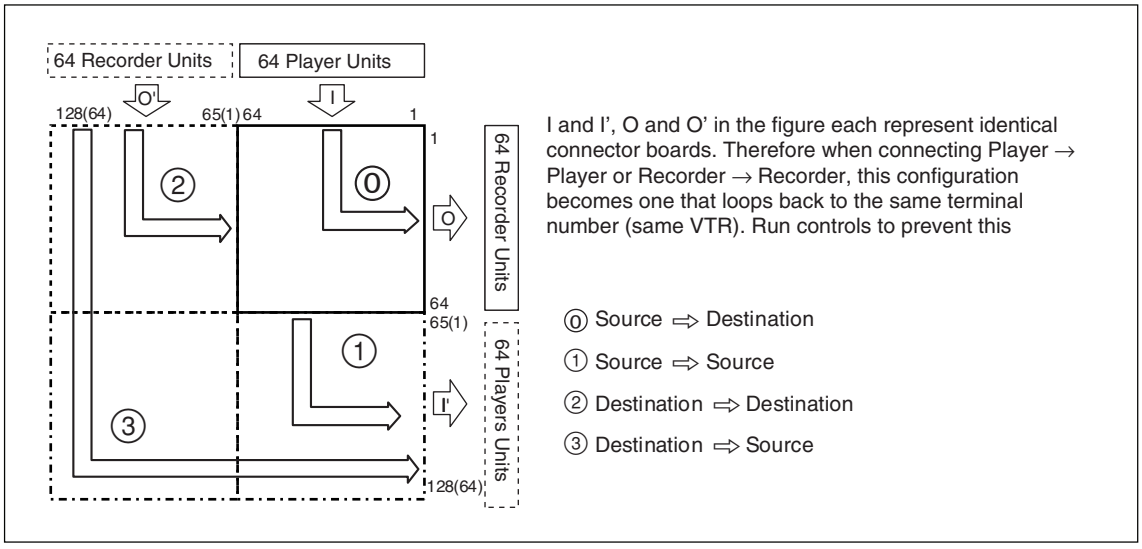


Fig. 2

Establishing Connection Using the I/O MIX Function from the Remote Control Panel

When choosing the output terminal for the source and the input terminal for the destination, you need to specify the terminal number by adding 64.

Fig 2	Source	Destination
⓪ Source → Dest	Terminal No.	Terminal No.
① Source → Source	Terminal No.	Terminal No. +64
② Dest → Dest	Terminal No. +64	Terminal No.
③ Dest → Source	Terminal No. +64	Terminal No. +64

Note

For ③ Destination → Source, M/S AUTO also needs to be set to ON.

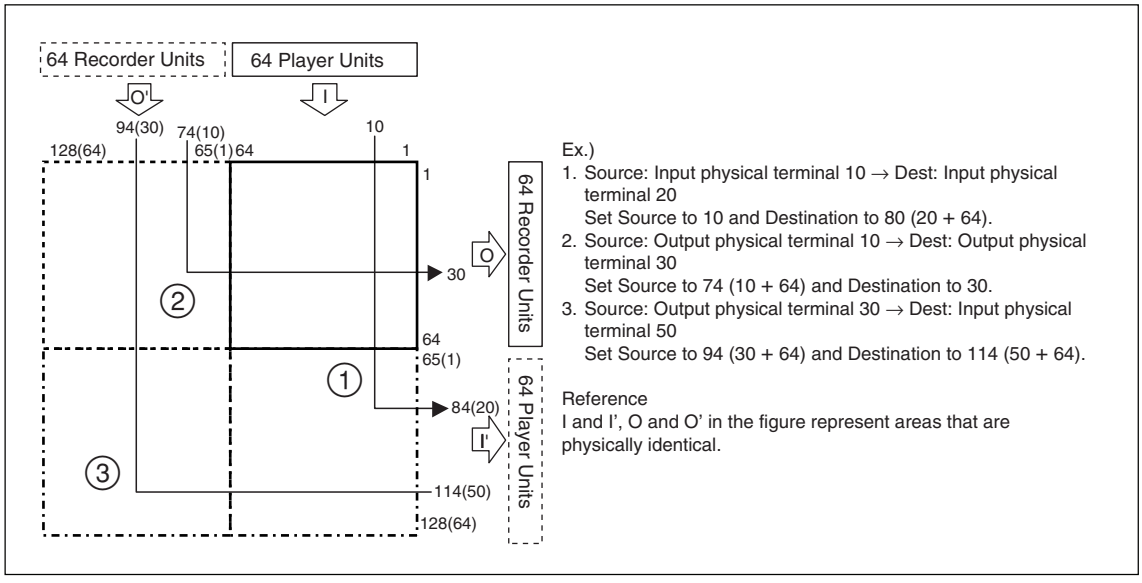


Fig. 3

4. M/S AUTO (V2.01 or higher)

M/S AUTO automatically switches whether to set the RS-422 ROUTER connector to the master or subordinate according to the remote control panel operation (what to choose for the destination/what to choose for the source) every time the cross-point is switched.
To realize this function, set M/S AUTO in SELECT RS-422 MODE to ON. (Refer to the SELECT RS-422 screen in “Z : SET SIGNAL” in “2-6. Setting Items of the Secondary Station”.)

Default value of Master/Subordinate

The default value of Master/Subordinate assumes that VTR is allocated to the IN side, and EDITOR to the OUT side.
Master/Subordinate in the setting indicates the current condition of the router terminal. The IN side of the router terminal is set as the master in order to connect a subordinate VTR.

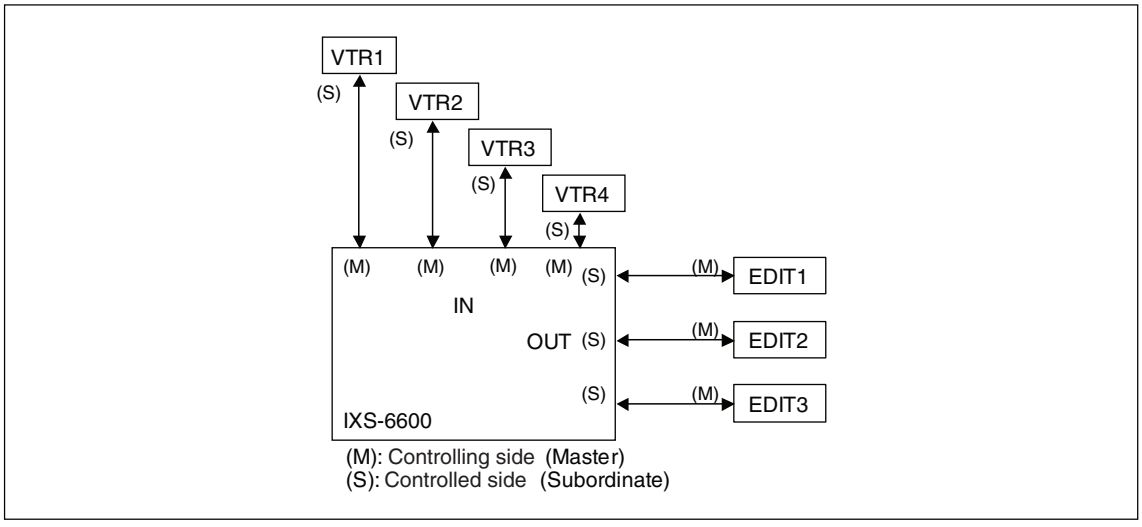


Fig. 1

Note

The multi-drop function assumes the following connection, so the router terminal connected to EDITOR needs to be set as the subordinate. (For details on multi-drop, refer to “2. MULTI DROP”.)

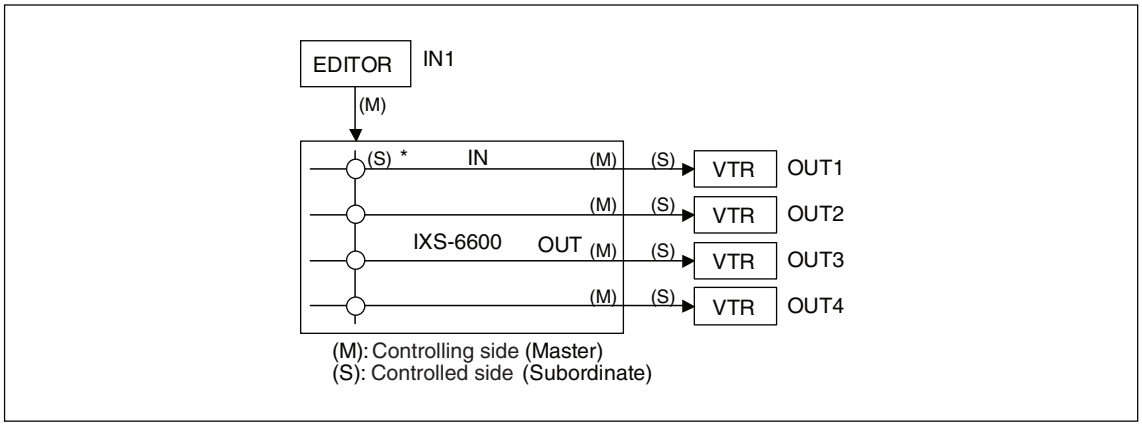


Fig. 2

M/S AUTO automatically sets the source as the master at the time of the switching operation.
Note that if M/S AUTO is set to ON with the above system, the router terminal connected to EDITOR is automatically changed to the master.

Appendix A

Functions and menu items

Function	Contents	Menu item	Types of the S-BUS data link
Standard setting	Sets input/output area.	A : SET CONTROL AREA	Primary station
	Sets/changes password.	P : CHANGE PASSWORD	
	Sets time clock.	T : SET CLOCK	
	Sets type name.	B : SET SOURCE/DEST TYPE	
	Selects input/output name style.	J : NAME STYLE	
	Sets destination name.	C : SET DESTINATION NAME	
	Sets source name.	D : SET SOURCE NAME	
	Sets description name group.	N : SET DESCRIPTION NAME GROUP	
	Sets level table.	E : SET LEVEL TABLE	
	Sets active unit number.	F : SET ACTIVE UNIT NUMBER	
	Copies main CPU data to sub CPU.	G : UPDATE BACKUP CONTROLLER	
	Sets index number assignment.	I : SET INDEX NUMBER	
	Sets physical assignment.	L : SET PHYSICAL ASSIGNMENT	
	Calls secondary station.	R : CALL SECONDARY STATION	
	Sets location	A : SET UNIT LOCATION	Secondary
Cross-point disable setting function		M : SET INHIBIT TABLE	Primary station
Global phantom function		H : SET GLOBAL PHANTOM	Primary station
Protect function	Sets protect function.	C : SET DESTINATION NAME	Primary station
Secret function	Sets secret function.	D: SET SOURCE NAME	Primary station
Tie line management	Sets tie line system.	O : SET TIE LINES	Primary station
Others	Changes cross-point.	Q : CHANGE CROSSPOINT	Primary station
	Sets multi source name.	S : SET SOURCE ASSIGNMENT	
	Displays system status log.	W : SYSTEM STATUS LOG	
	Displays S-BUS communication.	X : DISPLAY S-BUS COMMUNICATION	
	Checks communication with secondary station.	Z : SET UNIT DETECTABLE	
	Displays the connection status of the secondary station connected via Ethernet.	U : DISPLAY ETHERNET STATION	
	Resets table data to default.	K : RESET TO DEFAULT TABLE	Secondary station
	Displays hardware status.	V : DISPLAY UNIT STATUS	
	Saves table data.	W : SAVE CURRENT TABLE	
	Displays table data.	Y : DISPLAY TABLE DATA	
	Set signal	Z : SET SIGNAL	

Appendix B
Glossary

“Active” : Decide remote control panels can be active on the S-BUS

1. Select the station that you want to use. (Menu Item [F] of primary station)

Enter the menu item [F : SET ACTIVE UNIT NUMBER] and set “E” mark on secondary stations that you wan to use. It sets the secondary station active.

```
ENABLE ACTIVE UNIT FOR STATION NUMBER    IXS-6700 V1.00   STATION NUMBER 1

           1 2 3 4 5  6 7 8 9 10  11 12 13 14 15  16 17 18 19 20
001-020    M E E E E  E E E
021-040
```

Note

Before implementing this setup, it is necessary to set the ID number of the secondary station of the remote control panel. The primary station has ID=1, secondary stations should have ID=2 to 254.
For your reference, ID=00 is the test number, and ID=255 is the global number. Be noted that both of them cannot be used.

2. Inspect the communication status if it is active or not. (Menu Item [Z] of primary station)

If you set “?” to a ID location in the menu item [Z], the primary station will display the corresponding model code of that location and display a warning if communication is interrupted.

```
SET UNIT DETECTABLE                      IXS-6700 V1.00   STATION NUMBER 1
           1 2 3 4 5  6 7 8 9 10  11 12 13 14 15  16 17 18 19 20
001-020    M 03 ? 15 04  ? ? ?
021-040

01:DVS-V1616   02:DVS-V3232   03:DVS-A3232   04:BKS-R1601   05:BKS-R3202
06:BKS-R3203   07:BKS-R3281   08:DVS-V6464   09:BKS-R5000   10:DVS-RS1616
11:DVS-TC3232  12:BKDM-5080   13:BKS-R3204   14:BKS-R3205   15:BKS-R3206
16:BKS-R3280   17:BZR-1000    18:DVS-V3232B  19:DVS-V6464B  20:BKDS-7700
```

Notes

- The menu item [Z] is used with BZR-20 to select the secondary stations for saving the data. BZR-20 uploads the data of the secondary stations only selected with the “?” mark.
- Once a “?” is entered you must return to the menu screen, and re-enter this menu to see the communications result.
  The model code No. is displayed instead of “?”.
- If the system is operated with the setting in which “?”is set, the system may stop. This error occurs if any model that does not support this command is connected on the S-BUS or LAN. After confirming operations, be sure to delete “?”.

Cascade connection

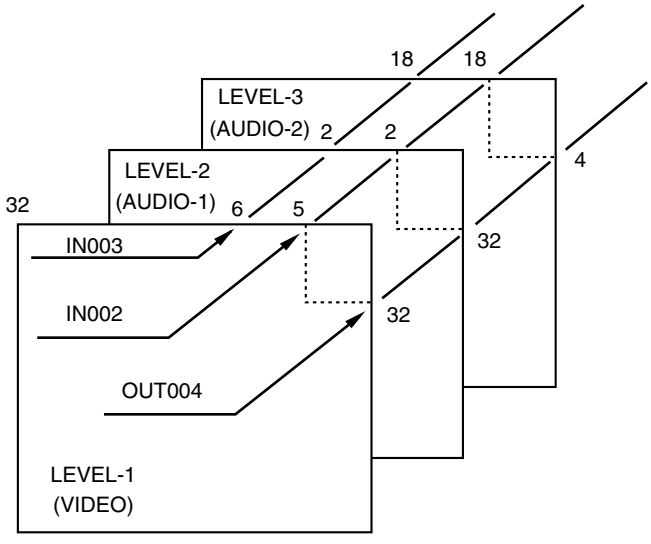
HDS-X5800 is equipped with cascade connection. By connecting multiple units of routing switchers in a cascade manner, the number of input channels can be flexibly increased and a large-scale routing switcher system can be built.

Cross-point input system limit function

Function that limits the input channels can be selected for each output channels. It can also be used to fix the area of cross-points selected so that only certain input channels can be selected for certain output channels.
Be careful that destination cannot select a source which makes up a loop in which the destination becomes the signal generating source in order to avoid potential operation mistake.
This function can be set in the menu item [M: SET INHIBIT TABLE] of primary station.

Free assignment/multi source assignment

The same terminal number can be assigned, for each terminal name, through levels 1 to 8. The different physical number can also be assigned on each level.
The following illustration shows that the video signal is used for level 1, the audio signal is used for levels 2 and 3. The physical number 5 can be assigned on level 1, physical number 2 on level 2, and physical number 18 on level 3 for the input terminal name IN002.
IN003 assigns the physical terminal number 6 to level 1, and assigns the same numbers as those of IN002 to the levels 2 and 3.
Similarly, to destination OUT004, physical number 32 can be assigned on level 1, physical number 32 on level 2, and physical number 4 on level 3.
At the same time, the same input signal can be assigned to the two or more input terminal names using the multi source assignment function.
This free assignment function can be set in the primary station menu item [L : SET PHYSICAL ASSIGNMENT].
The multi source assignment function is set using the primary station menu item [S : SET SOURCE ASSIGNMENT].



“Level” : How to set levels

The routing switcher system has the capability to control the different types of signal at the same time. This is enabled by the level setting.
Level can be set in the primary station menu item [E : SET LEVEL TABLE].
In SET LEVEL TABLE, which level to switch can be set individually for all output channels.
When issuing the switching command to a certain output from the remote controller, this function enables the switching command to be issued for the same level every time.

Number of panels

Up to 128 remote control panels and switchers can be connected to one S-BUS line.
When the system is combined with the BZR-IF810 supplied with the HKSP-R80, as many as 60,000 equipment can be controlled with a single system.

Password

The settings made on the terminal emulator can control all of the routing switcher system and its constituent devices. It therefore has a password function which allows only certain users to operate it. The password can be set in the primary station menu item [P : CHANGE PASSWORD].

Phantom

Several cross-points can be switched simultaneously with just one push of a button of the remote control panel. This is called the phantom function.
The phantom function is set from a personal computer that is connected to the primary station. Selections are performed from the remote control panel.
The group of cross-points switched together is called the phantom group. There are two types of phantom. One is the “Local phantom” that is set for each remote control panel. The other is the “Global phantom” that is set to the primary station and can be used from anywhere.

Protect

This is the function that protects the cross-point set so that it cannot be released from other remote control panels. While the protect function is on, the destination of the cross-point to be protected will be fixed. Once the protect is set, it will not be released by any command, except those from the remote control panel used to set it. However, protect can be freely set and released from a personal computer that is connected to the primary station.
In addition, the signal switching is possible while ignoring the protect, depending on the setting of the remote control panel.
The protect function can be set in the primary station menu item [C : SET DESTINATION NAME].

“Remote control panel” : How to set the remote control panel

When you want to call the respective remote control panels and to implement the necessary setups select the menu item [R] and type the station address (2 to 254) of the desired remote control panel.
If the specified remote control panel is enabled in the menu item [Z : SET PANEL DETECTABLE], this might help you identify the station address in question. If the station address of the desired remote control panel needs further search from multiple panels, select the menu item [X : DISPLAY S-BUS COMMUNICATIONS], and command a cross-point change from the remote control panel in question, and observe the address indicated by the S-BUS communication.

Refer to the Manuals that are supplied with the respective remote control panels for the setting procedure.

Secret

This is the function which hides certain input channels from all remote control panels to protect the cross-point so that it cannot be switched.
Unlike the protect function that limits the output channels, the secret function limits the input channels to protect them from being selected by other remote control panels.
The secret function can be set and released in the menu item [D: SET SOURCE NAME] of the primary station.

Self-diagnosis

Self-diagnosis is performed on the following items.

Self-diagnosis item	IXS-6600/6700	HKSP-R80	HDS-X5800
Presence of backup power supply and backup board	○	○	○
Detection of fan rotation	○	none	○
Display of reference signal	○	○	○
Detection of cross-point hardware defect	○	none	○
Display of high temperature	○	none	○
Display of S-BUS disconnection	○	○	○
Display of secondary station's disconnection or fault	○	○	○
Remaining power of the data backup battery	○	○	○
Normal/abnormal status of the connector board	○	○	none

The result is displayed on the following locations.

Display location	IXS-6600/6700	HKSP-R80	HDS-X5800
Personal computer connected to the primary station	○	○	○
Status indicator on the front panel	○	none	○
Indicator panel on the CPU board	○	○	○
Status lamp on the PFV-SP series	none	○	none

Terminal name

In the routing switcher system, names are given to all of the input and output terminals and are controlled in order to improve operating efficiency.
The following two types of terminal name are used.

- "Type + Number" name
- "Description" name

"Type + Number" name mode (Type + Num)

A destination name or a source name can be displayed by "Type name + Number".
The name of the "Type + Number" system, consists of the 4 digit alphabetical letters and the 3 digital numerical numbers. The virtual terminal numbers are assigned to them. For the alphabetical letter segment, as many as 32 kinds of type name can be set. In the default setting, "IN" is given to the input system and "OUT" is given to the output system.

Example : CG, VT, VTR, CAM, NET, SAT, BARS, TONE, etc.

After the type name, a 3-digit numerical number can be added. For the numerical value segment, a number in the range of 0 to 999 can be set. By this combination, a maximum of 1000 terminal names can be created from a single type name.

Example : VTR000, VTR001, VTR002, ...VTR999

If you set 1 for the fourth digit of the type name, a four-digit numerical value can be expressed.

Example : VTR1001

Note

The numerals 000 cannot be added to the name that has the type number 0. (Refer to the primary station menu item [B : SET SOURCE/DEST TYPE].) Default type name 0 is IN, so there is no IN000.

The same "Type + Number" (such as VTR001) can be assigned to both input and output of the routing switcher. But, a unique name can only be used once per input, and output. It means that you can name both input 1 and output 1 as VTR001, but you cannot name both input 1 and input 2 or output 1 and output 2 as VTR001 at the same time.
It is important that you consider carefully your naming convention now, as it will be carried throughout the rest of the setup, and will be the name displayed on remote control panels, and other displays.
In order to determine the [Type + Number] name, select the primary station menu item [J: NAME STYLE] and select "Type + Num".
To register the type name, use the primary station menu item [B: SET SOURCE/DEST TYPE].
To set a name to a terminal, use the primary station menu item [C: DESTINATION NAME] and [D: SET SOURCE NAME].

In this Manual, a setup example screen for each [Type + Number] name mode is shown unless otherwise specified.

Description name mode (DESCRIP.NAME)

A destination name or a source name can be displayed by a "Description" name.
The description name is an arbitrary name of 16 digits. It can be created by using arbitrary alphanumeric characters and numeric numbers such as "Tokyo", "Market". As many as 2048 names can be registered. However, they are sent to the remote control panel in units of 160 names among the 2048 names, and are used for setting the buttons and displays. The 160 names can be registered as one group. Data of 8 groups can be registered at the primary station.

In order to determine the Description name, select the primary station menu item [J : NAME STYLE] and select "DESCRIP.NAME".
After the selection, set the description name in the primary station menu item [C : SET DESTINATION NAME] or [D : SET SOURCE NAME].

```
SOURCE NUMBER TRANSCODE              IXS-6700 V1.00   STATION NUMBER 1

001=VTR001  ProgVTR          |       002=VTR002  SpotVTR
003=VTR003  BkupVTR          |       004=VTR004  Net-Dly
 :           :               |        :           :
017=CAM001  Pete             |       018=CAM002  Mary
019=CAM003  Tom              |       019=CAM004  John
```

After [J] has been selected for the first time, go back to menu items [C] and [D] and enter the description names, if desired.

Note

The description name can be used repeatedly for the sources and destinations.
However, assignment of the description names to the virtual terminal numbers must be controlled separately. For the signal switching, [Type + Number] is converted to a virtual terminal number first, then the signal switching is operated by the virtual terminal number.

Terminal number

There are three types of terminal number that can be set to the terminal name as shown below.

- Connector number
- Physical terminal number
- Virtual terminal number

Connector number

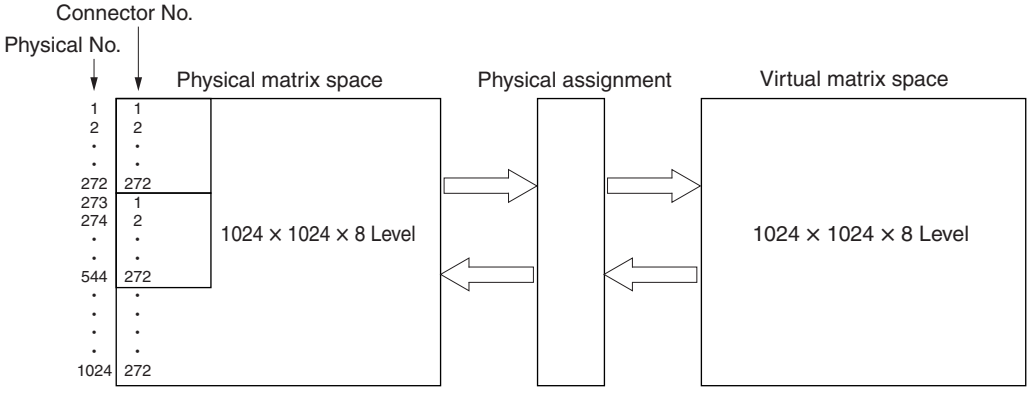
The connector numbers mean the numbers that are given to the connectors of each switcher machine itself. The connector numbers are the fixed numbers that are unique to each switcher.

Physical terminal number

The physical terminal numbers mean the serial numbers that are given serially when the entire physical matrix system is regarded as a single switcher. The physical terminal number is the serial numbering system that is different from the connector number as described above in which each connector has the unique number.

Virtual terminal number

In the ordinary operation, the input and output channels are arranged first on the physical matrix in a manner that the inputs and outputs must not be overlapped. Then they are re-arranged on the virtual matrix in accordance with the value that is set in the primary station menu item [L: SET PHYSICAL ASSIGMENT]. Various setups are executed on the virtual matrix. The virtual terminal numbers are the numbers that are assigned when they are re-arranged on the virtual matrix space. The terminal numbers in this Manual mean the virtual terminal numbers (number on the virtual matrix space) unless otherwise specified.

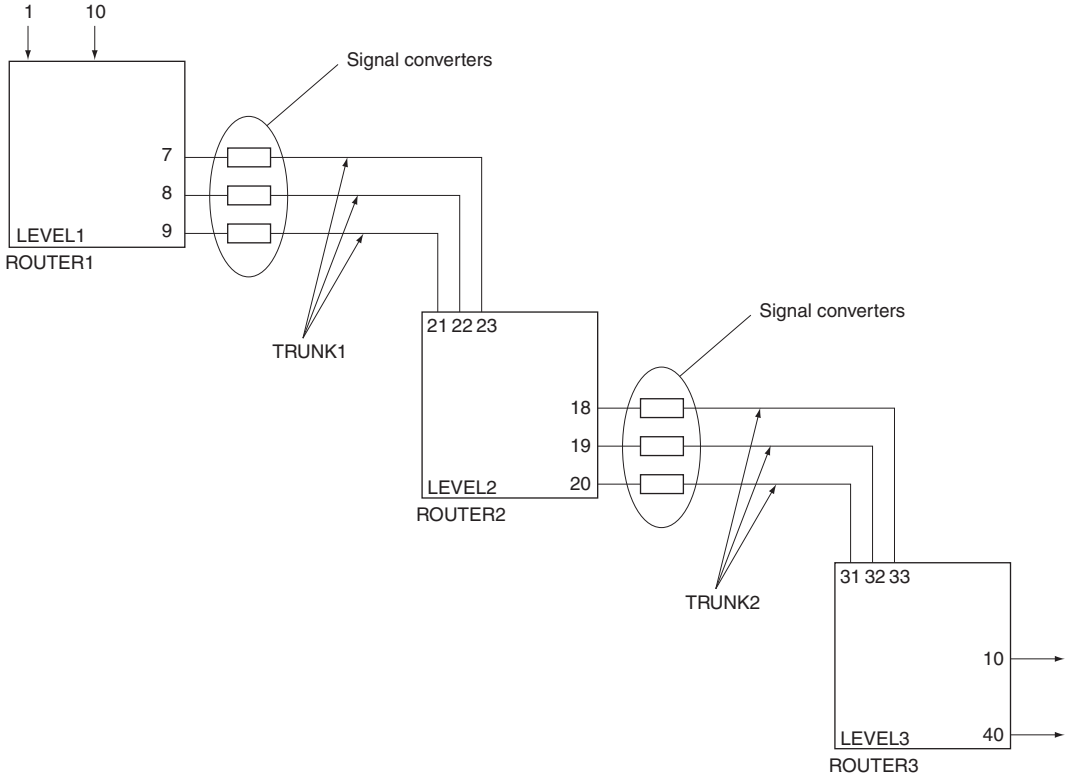


Setup items	Physical matrix	Physical assignment	Virtual matrix
Primary station	–	L	A, B, C, D, E, H, I, J, M, N, O, Q, S, X
Secondary station	A, Z, V	–	–

Tie line

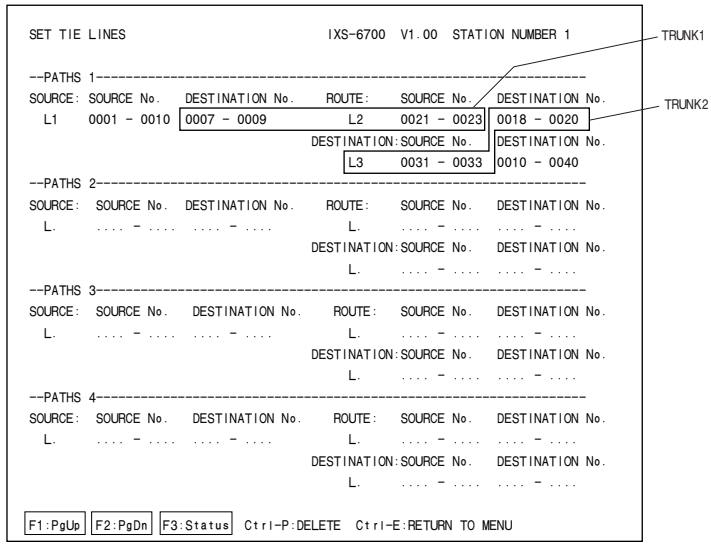
Tie line is used to effectively share the minimum number of signal converters (SDTV to HDTV, HDTV to SDTV) by the multiple input terminals and output terminals.
For example, when the SDTV video switcher and the HDTV video switcher are used at the same time, their respective input and output numbers can be shared by the converter using the tie line function so that all input and output numbers can be handled by the limited number of signal converters.
Tie line can be set in the menu item [O : SET TIE LINES] of the primary station.

Example 1



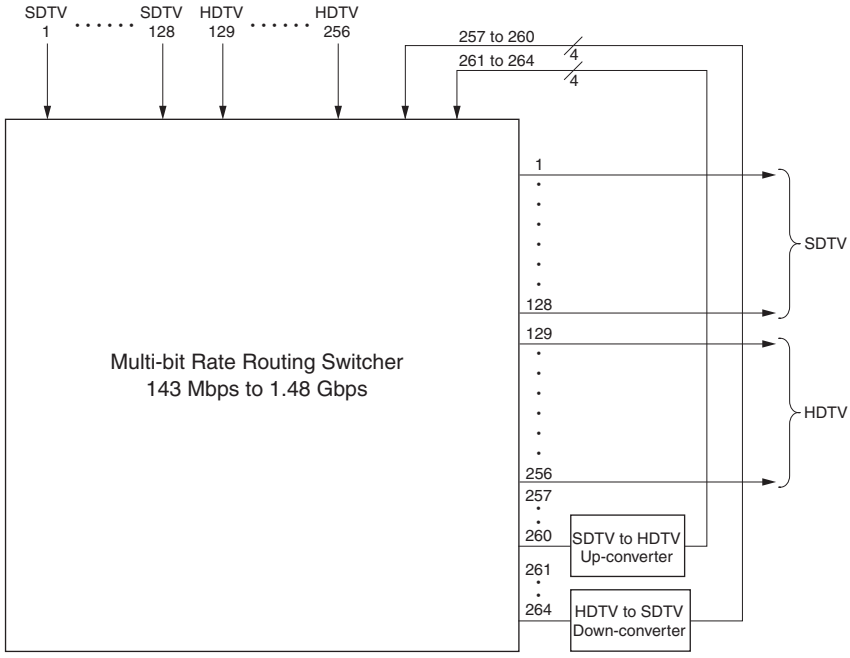
Refer to “Trunk” of “Appendix B Glossary” for “Trunk”.

The setting example : Tie line can be set in the menu item [O : SET TIE LINES] of the primary station.



Setup display example

Example 2



Setup example

Source		Route		Destination	
Source	**Dest**	**Source**	**Dest**	**Source**	**Dest**
1 to 128	257 to 260	–	–	261 to 264	129 to 256
129 to 256	261 to 264	–	–	257 to 260	1 to 128

The following setup can be made by the above setting.

- The HDTV signal of the inputs 129 to 256 can be output to the SDTV signal outputs of Output 1 to 128.
- The SDTV signal inputs of Inputs 1 to 128 can be output to the HDTV signal Outputs 129 to 256.

Tie Line Full display function

The Tie Line Full display function notifies that the trunk set by the tie line is being fully utilized.
For example, three trunks are set by the tie line. If fourth tie line is attempted while all of the three trunks are being used, the notification is issued indicating that the trunk is full and that no more tie line can be used. This function displays message on the control panel, indicating that tie line is full.

<Procedure>

1. Set the Tie Line Full display function switch on the CPU board to OPEN (ON).

∗ : In IXS-6600/IXS-6700, the "Tie Line Full display function switch on the CPU board" means S1202-3 on the CA-65 board.
In HKSP-R80, it means S802-3 on the CPU-355 board, and in HDS-X5800, S703-3 on the CPU-339 board.

2. On the menu screen "D: SET SOURCE NAME", set the name for the source terminal number 1024.
If the source terminal number 1024 is named as "FULL", for example, the remote controller displays "FULL", indicating that the tie line is already full.

```
SOURCE NUMBER TRANSCODE                   IXS-6700   V1.00   STATION NUMBER 1

                1.....7.........                         1.....7.........
 0993=IN993     IN993            |         0994=IN994     IN994            |
 0995=IN995     IN995            |         0996=IN996     IN996            |
 0997=IN997     IN997            |         0998=IN998     IN998            |
 0999=IN999     IN999            |         1000=IN1000    IN1000           |
 1001=IN1001    IN1001           |         1002=IN1002    IN1002           |
 1003=IN1003    IN1003           |         1004=IN1004    IN1004           |
 1005=IN1005    IN1005           |         1006=IN1006    IN1006           |
 1007=IN1007    IN1007           |         1008=IN1008    IN1008           |
 1009=IN1009    IN1009           |         1010=IN1010    IN1010           |
 1011=IN1011    IN1011           |         1012=IN1012    IN1012           |
 1013=IN1013    IN1013           |         1014=IN1014    IN1014           |
 1015=IN1015    IN1015           |         1016=IN1016    IN1016           |
 1017=IN1017    IN1017           |         1018=IN1018    IN1018           |
 1019=IN1019    IN1019           |         1020=IN1020    IN1020           |
 1021=IN1021    IN1021           |         1022=IN1022    IN1022           |
 1023=IN1023    IN1023           |         1024=IN1024    FULL             |
                ^     ^                                   ^     ^

F1:SEARCH  F2:JUMP  F3:PgUp  F4:PgDn  F5:PASTE    Ctrl-E:RETURN TO MENU
```

Example of setting screen

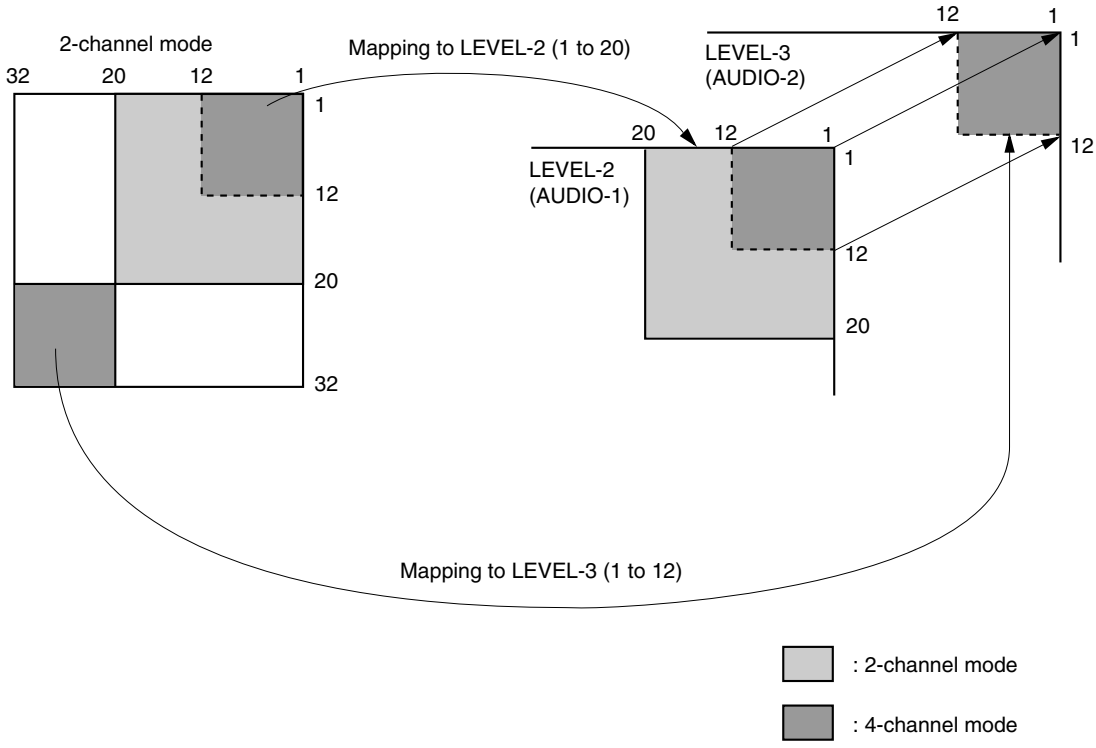
The Tie Line Full display function can be used in either the "TYPE+number" name display mode or the "Description" name display mode. Perform the setting according to the display mode.

Trunk

Trunk is a part where the path is shared by connecting the signal output and the next input with a cable in the TIE LINE function.
Similarly, there are cases that signal processing device is added to the line equivalent to a trunk to output the processed signal. A signal path is constructed as follows :
Input signal → routing switcher → trunk → routing switcher → trunk → routing switcher → output signal.

Virtual mapping

Several routing switchers can be mapped on a virtual matrix with 1024 inputs and 1024 outputs in router system. The matrix of one switcher can be also divided into several virtual levels and mapped.
In the figure below, the 12 × 12 areas where the level 2 and level 3 are overlapping are set to the 4 - channel mode while the others are set to the 2-channel mode in the 20 × 20 areas.



It is called “Virtual mapping” that you can freely assign cross-points using the virtual matrixes and virtual levels in this way.
This virtual mapping function can be set in the primary station menu item [L : SET PHYSICAL AS-SIGNMENT].

IXS-6600 (SY)
IXS-6700 (SY)
HDS-X5800 (SY)
HKSP-R80 (SY) E
3-990-224-08

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