

SONY®

ROUTING SWITCHER SYSTEM SETUP SOFTWARE

BZR-2000

USER'S GUIDE English

1st Edition (Revised 8)

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Overview

1-1 About this User's Guide

In this User's Guide, how to use the BZR-2000 software for setup, management and maintenance of the Sony Routing Switcher System is described.

For the terminology and system configuration of the Routing Switcher System, refer to other manuals that suit your purposes best. Use of the ROUTING SWITCHER SYSTEM INSTALLATION MANUAL FOR SYSTEM SETUP is especially recommended.

For the settings on the S-BUS devices, refer to the operation manuals supplied with each device.

1-2 About BZR-2000

BZR-2000 is a setup program for the Sony Routing Switcher System. With graphical indications, various settings necessary for operation of the system can be easily performed through user-friendly operations using a mouse.

1-3 Operating Environment

BZR-2000 can be used with an IBM PC/AT-compatible computer on which Microsoft Windows95, Windows98, WindowsNT4.0, Windows2000 or WindowsXP is installed.

Software

OS (Operating System): Windows95, Windows98, WindowsNT4.0, Windows2000 or WindowsXP (If you use the multiple primary station function, Windows2000 or WindowsXP is required.)
WWW browser (for Online Help): Use of Internet Explorer4.0 or higher, Netscape Communicator/Navigator4.0 or higher, or Opera6.0 or higher is recommended.

Hardware

CPU: Intel Pentium Processor or compatible processor from another manufacturer (Only a single-processor CPU corresponds to WindowsNT/2000/XP.)
CPU clock speed: 233 MHz or higher recommended (If you use the multiple primary station function, FSB of 533 MHz or higher and clock speed of 2.26 GHz or higher is recommended.)
Main memory: 64 MB or more recommended (If you use the multiple primary station function, 512 MB or higher using a high-speed memory higher than PC2700 (DDR333) or PC1066 is recommended.)
Free space of the hard disk: 40 MB or more recommended (If you use the multiple primary station function, 100 MB or more on the hard disk with the rotation speed of 7200 rpm or higher is recommended.)
Serial interface: 38,400 bps or 9,600 bps (for an HDS-X5800 or HKSP-R80, 38,400 bps only)
For the RS-232C connections in the Routing Switcher System, connect a COM port of the computer and the primary station using the serial interface and an RS-232C cable.
Network interface: Ethernet with the transmission rate of 10BASE-T or higher
If a HDS-X5800 or HKSP-R80 is used as a primary station, the Network interface is enabled instead of the serial interface.
Connect the Ethernet port of the computer and the primary station using a cross cable or a straight cable via the hub.
If you use multiple primary stations, only the Network interface is enabled. Connection using the serial interface or S-BUS interface board (mentioned later) is disabled.
Display device: Resolution 800 × 600 pixels or higher recommended
Pointing device: Mouse or equivalent pointing device (An IntelliMouse pointing device cannot be used with WindowsNT.)

Windows95, Windows98, WindowsNT, Windows2000, WindowsXP, and Internet Explorer are registered trademarks of Microsoft Corporation.
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Netscape Communicator/Navigator is a registered trademark of Netscape Corporation.
Opera is a registered trademark of Opera Software ASA Corporation of Norway.

1-3 Operation Environment

Optional boards

The following boards are offered as hardware options. A PC/AT-compatible computer provided with an ISA-BUS (running WindowsNT, Windows2000 or WindowsXP) is required to use these boards.

S-BUS interface board: Sony BKS-R5001

Relation between the addresses of the BKS-R5001 on the computer and the switch setting on the BKS-R5001

Address	Rotary Switch Position	BZR-2000 Setup
0000D8000-0000D9FFF	F	S-BUS Board 1
0000D6000-0000D7FFF	E	S-BUS Board 2
0000D4000-0000D5FFF	D	S-BUS Board 3

Video Overlay Board: Sony BKV-100

For details on board settings, refer to the manual furnished with the board.

Usable routing switchers and relative devices

Primary station

IXS-6600/6700, HKSP-R80, HDS-X5800, HDS-X3700/X3600/X3400, DVS-128, BKPF-R70A

Secondary station or third-level station

IXS-6600/6700, HDS-X5800, HDS-X3700/X3600/X3400
 DVS-128, DVS-V6464/V3232, DVS-V6464B/V3232B, DVS-V6464M/V3232M, DVS-V1616¹⁾, DVS-A3232¹⁾, DVS-R1616, DVS-TC3232, HKSP-061M, MVS-8000, BVS-V3232/A3232, BKPF-300/301/350/351, BKDS-7700, BZR-IF310/IF810/IF820, BKS-R1601/R3202/R3203, BKS-R3204/R3205/R3206, BKS-R1607/R1608/R3209/R3210 (Firmware V.2.03 or higher) BKS-R1617/R1618/R1621/R3216/R3219/R3220 (Firmware V.1.06 or higher) BKS-R3240A/R3242A/R3248A (Firmware V.1.03 or higher) BKS-R3280/R3281 (Firmware V.3.10)

1) In serial interface (RS-232C) or network connection, the setting data cannot be received from the DVS-V1616 and DVS-A3232, owing to the functional limitations of the firmware.
 For uploading the setting data from multiple secondary and third-level stations consecutively, set the polling of

the DVS-V1616 and DVS-A3232 to OFF, then upload the data in S-BUS Device Configuration or Database Operations.
 If you register the DVS-V1616 or DVS-A3232 as an additional S-BUS device and set the data, you can send the data to them.

Installation

2-1 Installing

To use this software, an install key is required. To install the install key, follow the instructions of the install program of this software. To obtain the install key, contact your Sony representative and tell him/her the unique ID number of your computer.¹⁾

The installation procedure is the same for Windows95, Windows98, WindowsNT, Windows2000, and WindowsXP.

- 1** Copy all files from all the floppy disks to any folder on the hard disk.
- 2** After copying is finished, double-click on the Setup.exe icon.

The installation program starts.

- 3** Follow the instructions on the screen.

1) This software use the MAC address of the Network I/F card installed in the computer to which this is to be installed as the unique ID number of the computer.

2-2 Uninstalling

The uninstallation procedure is the same for Windows95, Windows98, WindowsNT, Windows2000, and WindowsXP.

- 1** Click on the Windows **Start** button, then open “Control Panel” on the Settings submenu.
- 2** Open “Add/Remove Programs.”
- 3** Choose “BZR-2000” from the program selection list under the “Install/Uninstall” page or from the “Currently installed programs” list in “Change/Remove Programs” on WindowsXP.
- 4** Click on the **Add/Remove** button or **Change/Remove** button on WindowsXP.

The Uninstaller starts, and removal of the program commences. Follow the instructions on the screen.

To uninstall the optional driver software for the S-BUS I/F board (WindowsNT/2000/XP only)

The driver software program can be deleted in the same manner as in Steps **1** to **4** above.

Specify “BKS-R5001 Driver” from the program selection list.

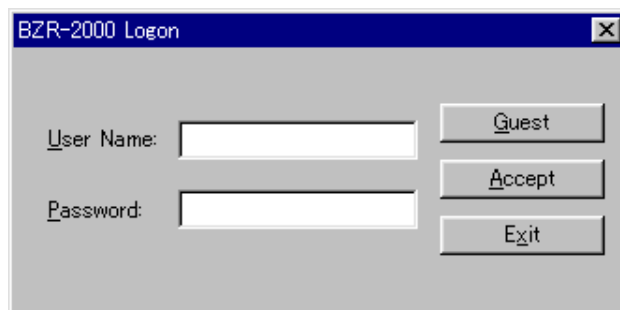
Getting Started and Quitting

3-1 Starting the Program

Double-click on the BZR-2000 icon of the Explorer or on the Start menu. After the following screen is displayed, the Main Window is displayed.



The Logon dialog box is displayed if users have been registered in Password Setup.

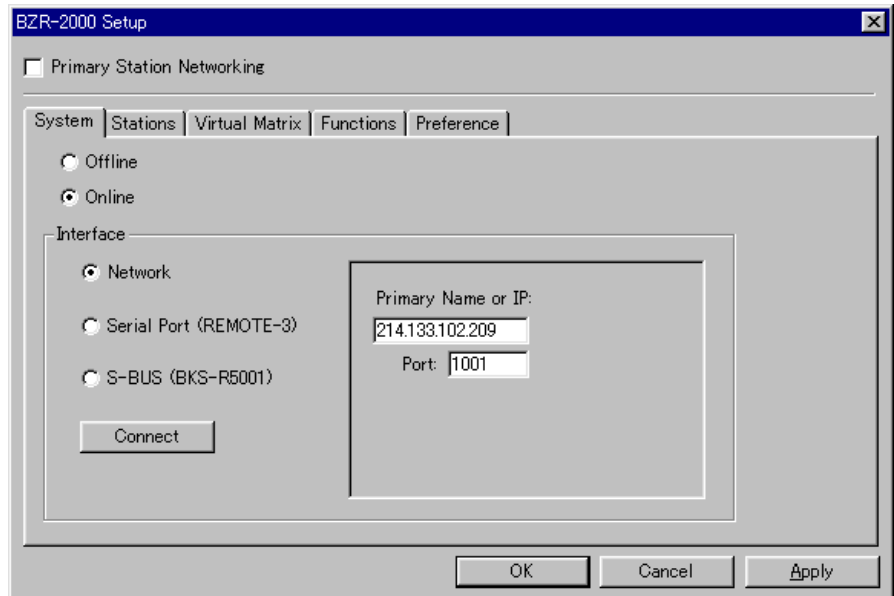


Enter a User Name and Password, then click on the **Accept** button. The Main Window is displayed.

3-2 Initial Settings

When BZR-2000 is executed for the first time after installation, the Setup dialog box will be displayed.

You should set the operating environment of the program first.

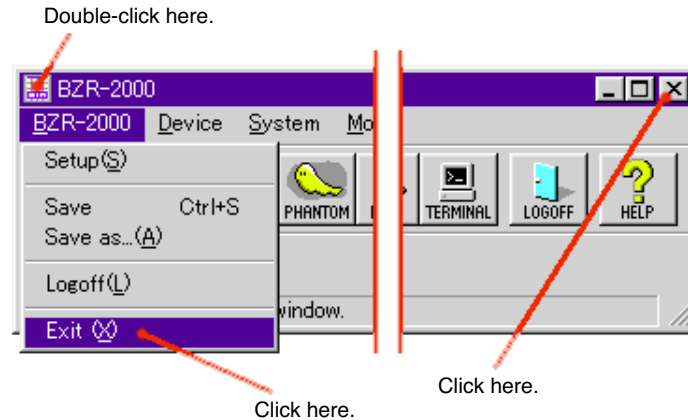


Set the operating environment of BZR-2000 and the Routing Switcher System configuration. For details on the setting items, see “4-1 Setup Dialog Box.”

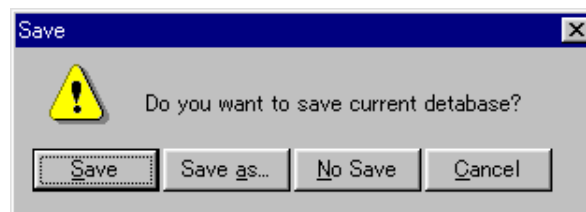
3-3 To Quit

You can quit the program in either of the following ways:

- Click on BZR-2000 on the menu bar of the Main Window, then click on Exit on the submenu.
- Double-click on the icon located at the upper left of the Main Window.
- Click on the [X] button at the upper right of the Main Window.



The following Save dialog box is displayed:



Save button: To quit the program after saving the setting data into the current database

Save as button: To quit the program after saving the setting data into the specified database

No Save button: To quit the program without saving the setting data

Cancel button: To cancel quitting the program (to continue operation)

3-4 Operational Procedures of BZR-2000

Proceed as follows to make settings for the Routing Switcher System with this program.

You must be versed in connections and configurations for each device of the Routing Switcher System, S-BUS protocol, and the input/output audio/video signal matrix. For information on these, refer to the corresponding manuals. You may find the ROUTING SWITCHER SYSTEM INSTALLATION MANUAL FOR SYSTEM SETUP especially helpful.

- 1** Identify all input/output terminals, and group them into 16-level sources/destinations.
- 2** Specify a “Type + Number” name to each of the virtual input/output terminal numbers.

The range for virtual terminal numbers is from 1 to 1024 for both sources and destinations.
- 3** Specify the second name, “Description” name, to the virtual terminal numbers, if necessary.
- 4** Allocate a physical terminal number to each virtual terminal number, as required.
- 5** Set Phantoms, if necessary.
- 6** Decide which remote control unit is to be active.
- 7** Decide which input is to be made unavailable for a specific output.
- 8** Set Tie Lines, if necessary.
- 9** Make settings for the remote control units on the S-BUS data link.
- 10** Save the setting data into a database, if necessary.

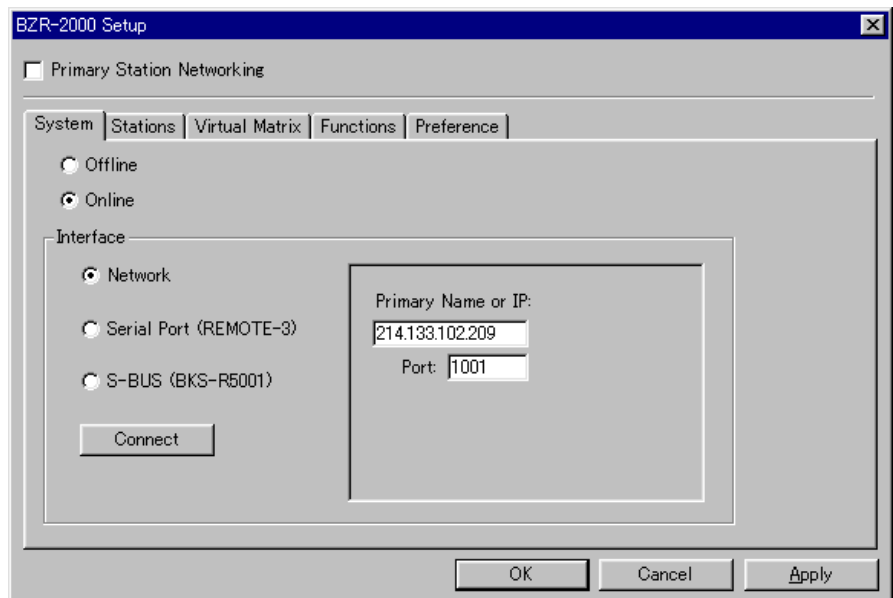
Operation

4-1 Setup Dialog Box

To open the Setup dialog box, click on BZR-2000 on the menu bar of the Main Window, then click on Setup on the submenu.

4-1-1 System Setting Page

On this setting page, you can make settings for the interface with the primary station.



Primary Station Networking

When you use the multiple primary stations, set to ON.
For details, see “4-4 Multiple Primary Stations.”

Online/Offline

When Online is selected, you can choose either Network, Serial Port, or S-BUS.

If Network is selected

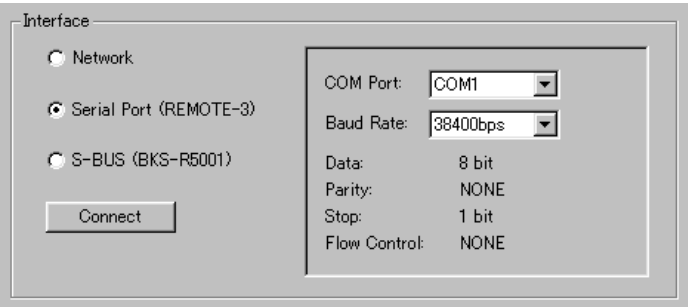
The COMPUTER and the primary station must be connected via a Network cable, and you must specify the IP address and network port of the primary station. You can connect an HDS-X5800 or HKSP-R80 as the primary station for the Network connections.

Set the same value as that for the primary station (default: 1001) for the network port.

In the network environment, which enables the use of Domain Name Service (DNS), you may use the host name registered in the DNS server instead of an IP address.

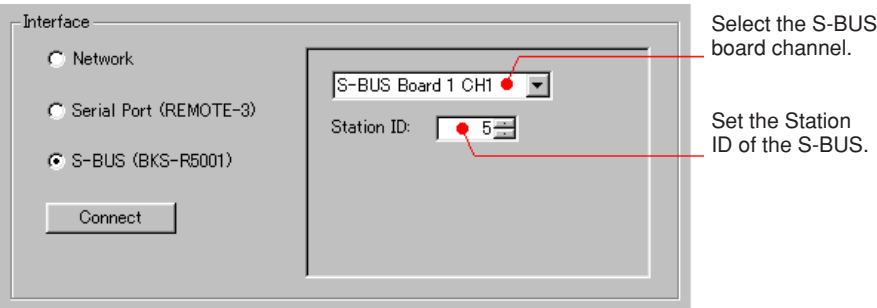
If Serial Port is selected

The COMPUTER and the primary station must be connected via an RS-232C cross cable, and you must specify the COM port and baud rate.



If S-BUS is selected

An S-BUS board for a PC/AT-compatible computer is required, and you must select the channel for the S-BUS board and set the station ID.

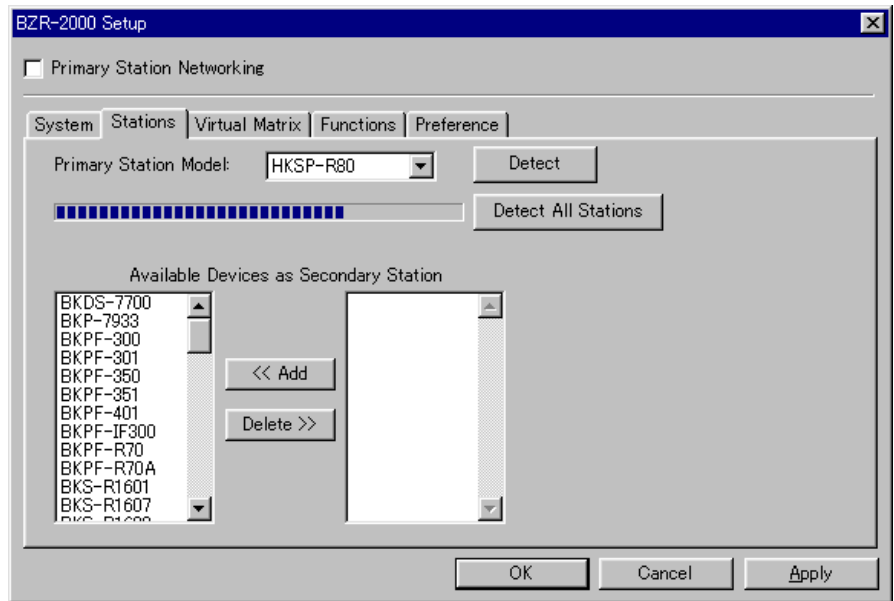


Connect button

Press to connect to the primary station via the selected interface.

4-1-2 Stations Setting Page

On this setting page, you can specify the configuration of the S-BUS devices.



Primary Station Model

Specify a model that can be connected as a primary station.

Clicking on the **Detect** button automatically detects the connected primary station.

Clicking on the **Detect All Stations** button detects all of the stations including the third-level devices.

Hereafter, if an S-BUS device is added, clicking the second or third icon from the left in the S-BUS Device Configuration window to check the device will detect the added Station.

Available Devices as Secondary Station

Add or remove devices that can be specified as secondary or third-level stations.

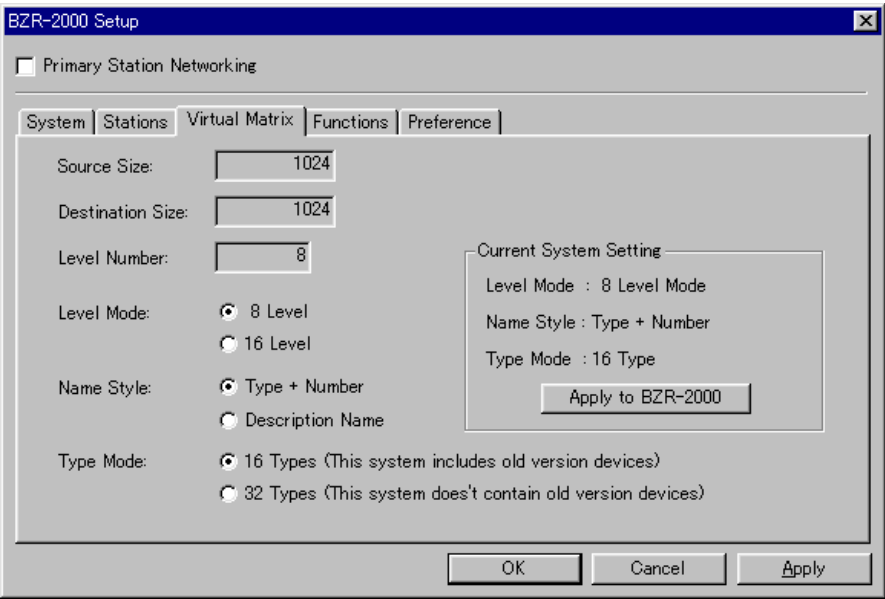
In the initial status, all models specifiable with BZR-2000 are listed. Add or remove necessary model names.

To delete, select a model name on the list at left, and click on the **Delete>>** button. The deleted model name moves to the list at right.

To restore a deleted model name, select the model name to be restored on the list at right, then click on the **<<Add** button.

4-1-3 Virtual Matrix Setting Page

On this setting page, you can specify the configuration of the virtual matrix.



Source Size/Destination Size/Level Number

Maximum size of the virtual matrix.

The Source Size is fixed at 1024.

The Destination Size is fixed at 512 or 1024, according to the setting of the Level Mode. When the Level Mode is set to 8 Level, the Destination Size is 1024, and when the Level Mode is set to 16 Level, the Destination Size is 512.

The Level Number (number of levels) is fixed at 8 or 16, according to the setting of the Level Mode.

The capacity of the matrix is calculated as follows:

Source Size × Destination Size × Level Number

Level Mode

You may select 8 or 16 levels.

Name Style

Selection of how to describe a matrix terminal name:

Type + Number: Device name and its number

Description Name: Description

Type Mode

16 Types: For a system that includes 16-type panels, such as a BKS-R1601/R3202/R3203/R3204/R3205/R3206.

32 Types: For a system that does not include 16-type panels and requires more than 16 types. For a BKS-R1607/R1608/R3209/R3210, firmware version 2.03 or higher is required, and for a BKS-R1617/R1618/R1621/R3216/R3219/R3220, firmware version 1.03 or higher is required.

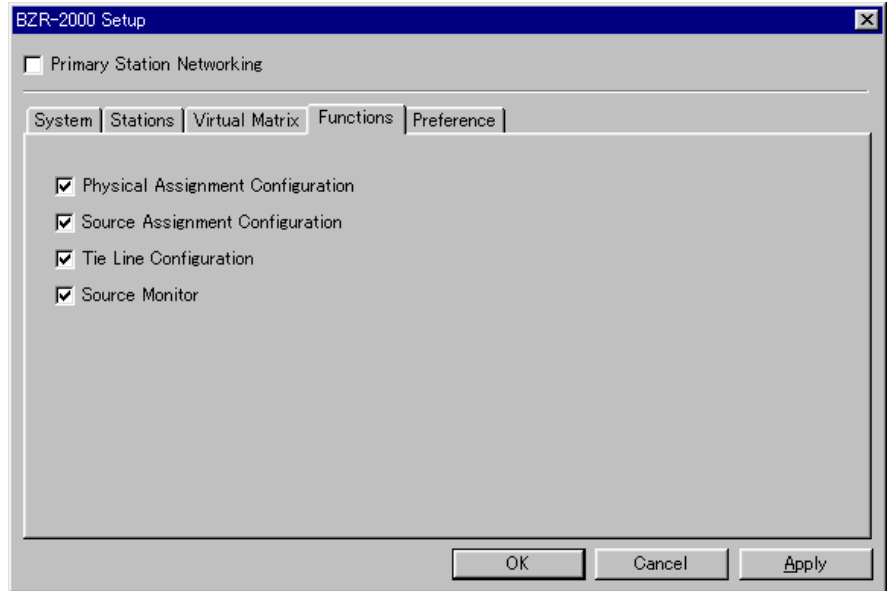
Current System Setting

The current system status is displayed in an online operation.

When you click on the **Apply to BZR-2000** button, the Level Mode, Name Style, and Type Mode settings are applied to the settings of the BZR-2000.

4-1-4 Functions Setting Page

On this setting page, you can specify the functions of BZR-2000.



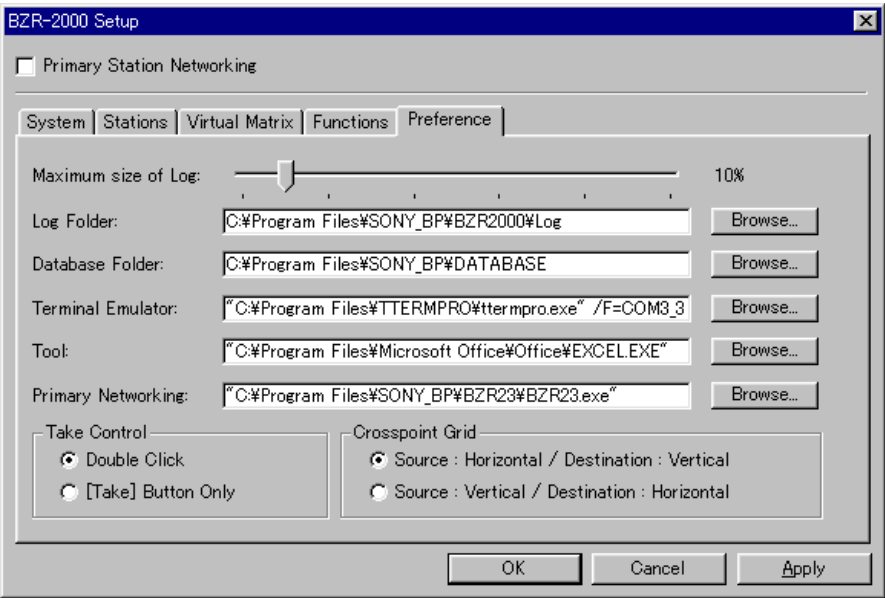
Only the administrator is permitted to access this setting. Whether operation of the listed items are to be permitted for other users or not can be specified.

An item selected by checking its check box is added to the toolbar or menu of the Main Window. The items not selected will not be displayed.

Source Monitor is a monitor function unique to BZR-2000, and you can make detailed settings for it in the Monitor Configuration dialog box described in “4-2-4 Monitor Menu.”

4-1-5 Preference Setting Page

On this setting page, the following miscellaneous settings can be made.



Maximum size of Log

Specify a maximum size for the log file, where information on the status of devices on the S-BUS lines, error information, and so on are to be stored. The size can be specified as a percentage of the logical drive capacity. This is enabled only for the S-BUS connection.

Note

If switching of many crosspoints such as Chop is performed for a long period of time, such as for testing the system, be sure to set Maximum size of Log to 0%.

Log Folder

Specify a directory where the log is to be stored. This is enabled only for the S-BUS connection.

Database Folder

Specify a folder where various setting data (database) are to be stored. The data set or edited with BZR-2000 are stored in the specified folder as a database.

Terminal Emulator

Specify a terminal emulator to be used as an external program. Specify it in the same format as “Target” of the Windows shortcut. If you wish to directly operate the terminal functions of the primary station, for example, you must specify a terminal program to be used to directly operate the functions. Then you can start the specified terminal emulator by selecting it from the toolbar of BZR-2000.

Tool

Specify an external program.

Specify it in the same format as “Target” of the Windows shortcut.

You can start the specified external program by selecting it from the toolbar of BZR-2000.

Primary Networking

Specify setting software to use multiple primary stations (an external program, the BZR-23 supplied with the BZR-IF830).

Specify it in the same format as “Target” of the Windows shortcut.

You can start the specified setting software by selecting it from the toolbar of BZR-2000.

If the specified setting software has been installed before the initial startup of BZR-2000, it is automatically detected and be set for Primary Networking upon initial startup of BZR-2000.

If the specified setting software has been installed after the initial startup of BZR-2000, it must be set manually.

Take Control

Specify a method for how to execute a Take operation:

Double Click: Take is enabled by double-clicking on a crosspoint on the grid. With this setting, Take with the button is also possible.

[Take] Button Only: Take is enabled only by clicking on the button on the toolbar.

Crosspoint Grid

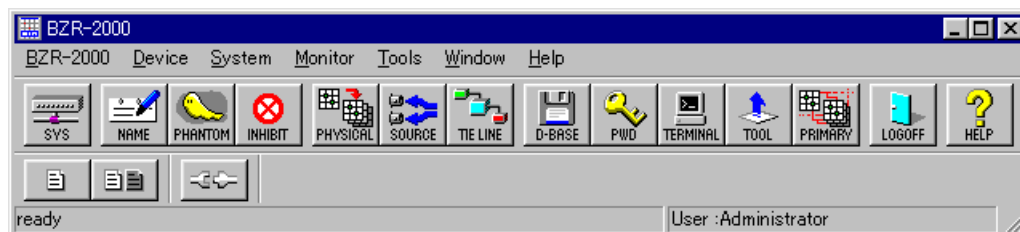
Specify parameters for the ordinate and abscissa of the crosspoint grids:

Source:Horizontal/Desitnation:Vertical or Source:Vertical/

Destinaion:Horizontal.

4-2 Main Window

Various settings can be made for the Routing Switcher System by using the menu bar and toolbars of the Main Window. Often-used commands on the menu bar are registered to the icons on the toolbar(s) so that you can execute a command simply by clicking on the corresponding icon.



4-2-1 BZR-2000 Menu

Setup

To display the Setup dialog box

The Setup dialog box is automatically displayed when BZR-2000 is started for the first time after installation of the program, but will not be automatically displayed with subsequent start-ups. If you wish to display the Setup dialog box for modification or confirmation of the system settings, this command can be used.

Save/Ctrl+S

To save the setting data into the database currently selected

Save As...

To save the setting data into an assigned database

Reconnection

To reconnect to the Network

This is enabled only for the Network connection.

Logoff

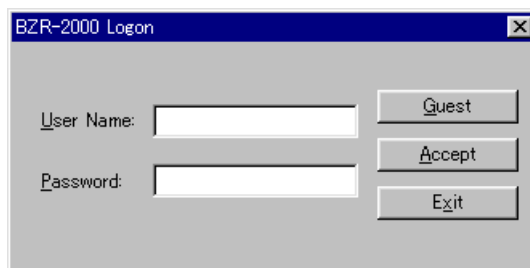
To log off from BZR-2000

If any users have been registered in Password Setup, the Main Window will close, and the Logon dialog box will be displayed. Then, logging on to BZR-2000 with another user's name is possible.

When you start BZR-2000 for the first time, you can change all the settings as the administrator.

If there are several users for BZR-2000, and the administrator wishes to limit settings accessible by users other than the administrator, the authorized users should be registered.

After the users have been registered, every time BZR-2000 starts, the following logon dialog box is displayed:

A screenshot of a Windows-style dialog box titled "BZR-2000 Logon". The dialog box has a blue title bar with a close button (X) in the top right corner. The main area is light gray. It contains two text input fields: "User Name:" and "Password:". To the right of the "User Name:" field is a button labeled "Guest". To the right of the "Password:" field are two buttons stacked vertically: "Accept" and "Exit".

Exit

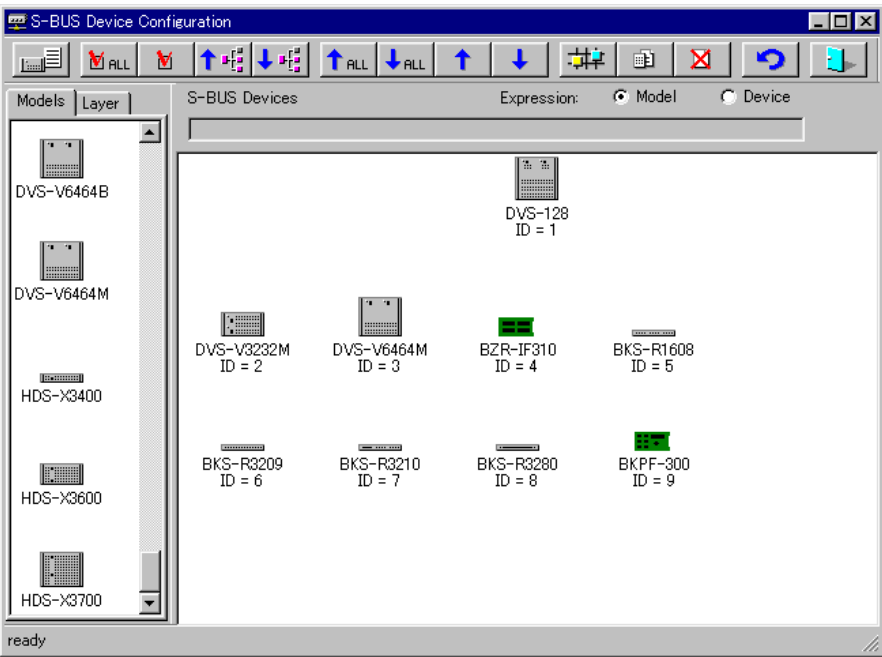
To quit the BZR-2000 program

4-2-2 Device Menu

S-BUS Device Configuration

In this dialog box, you can make settings for the devices on the S-BUS lines of the Routing Switcher System.

For details on setting, see “4-3 Settings for Devices.”



You can add and delete devices to and from the system, set properties for each device, and switch polling ON/OFF.

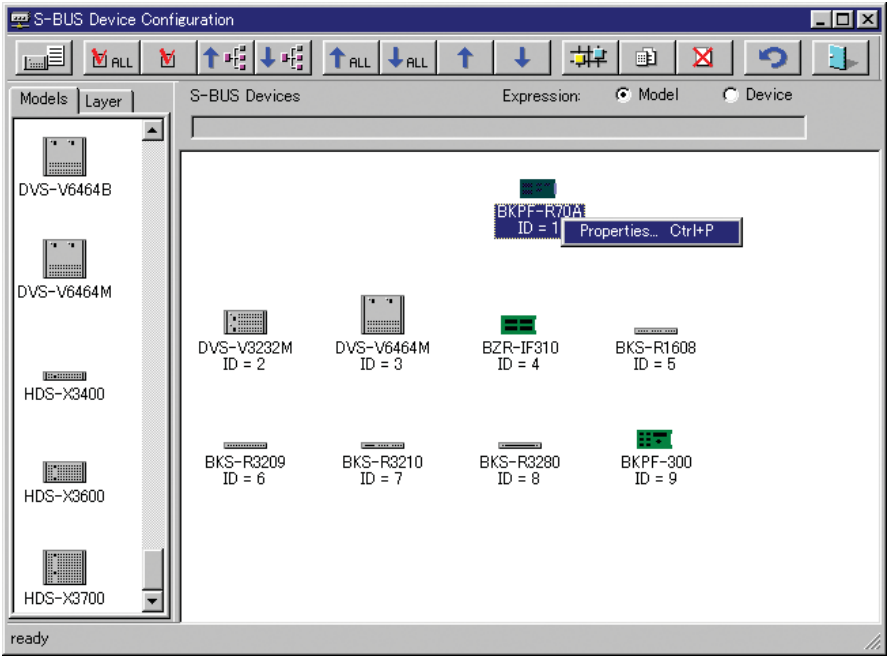
In Graphic Mode, you can add a device listed in the left window to the right window, by dragging and dropping the desired device.

In List Mode, you can drag and drop a device in the left window directly to a desired S-BUS ID on the right, or change a device ID by drag and drop of the device name on the list.

To switch between Graphic and List modes, click on the leftmost button on the toolbar.

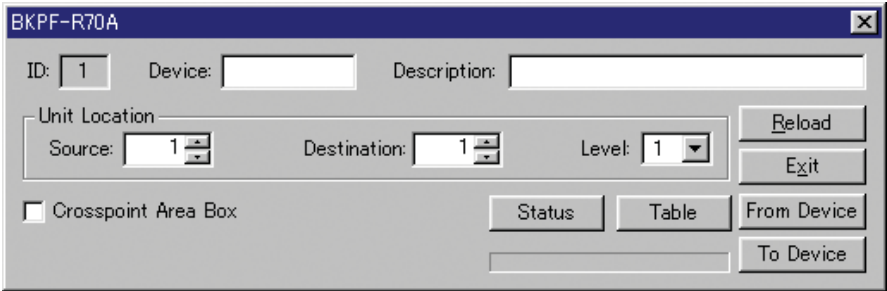
To set properties and polling ON/OFF for a device, right-click on the icon of the device in the right window for which you wish to make settings. A popup menu containing these commands will be displayed.

Example: Right-clicking on the icon of the BKPF-R70A, the primary station



Operation

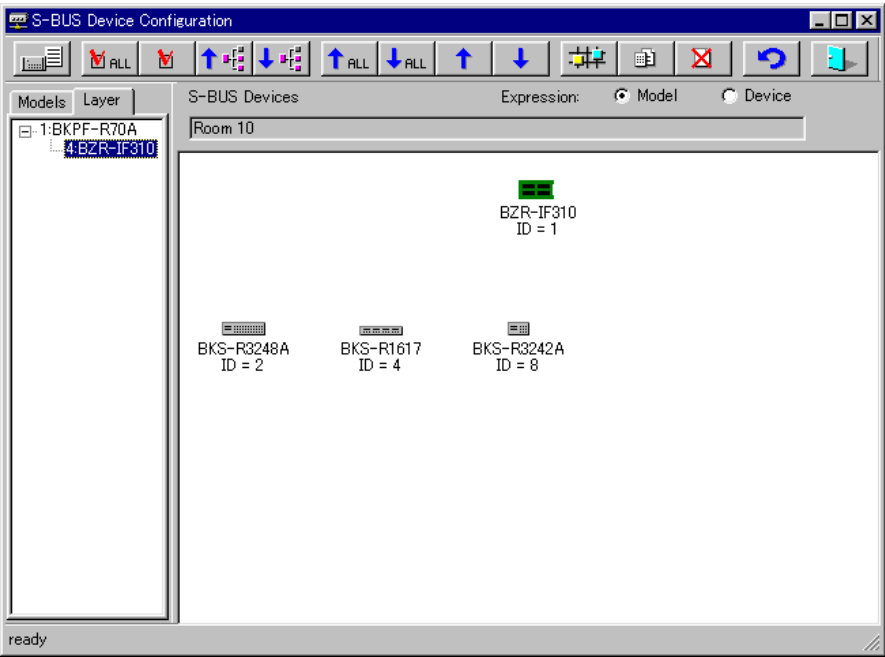
When the popup menu is displayed, point to “Properties...” and left-click. The setting display box for the device is displayed as shown below.



Set items as required.
Setting items differ from device to device.
For details on settings inherent to each device, see “4-3 Settings for Devices.”








Limitations with WindowsNT/2000/XP


When S-BUS connections are made, polling setting should be ON for at least 32 secondary stations. If the number of registered secondary stations is less than 32, set the polling of appropriate IDs to ON so that the total number of polling IDs becomes 32 or more.




Select the Layer page on the left window, and select a device on the Layer page. Then you can switch the upper layer of the S-BUS system such as the primary station and secondary stations and the lower layer such as the S-BUS subnet controller like the BZR-IF310/IF810/IF820, and devices connected to the BZR-IF310/IF810/IF820 on the right window.

List of icons

-  **Display mode:** To switch the display mode, graphical mode or list mode of the right window
-  **Device check (ALL):** To automatically detect models for all secondary stations directly connected to the primary station, and to check power-off
-  **Device check:** To automatically detect the specified device, and to check power-off. This only functions for devices on the S-BUS lines.
-  **Receiving polling table:** To read polling table data from the primary station
-  **Sending polling table:** To send polling table data to the primary station
-  **Receiving setting data (ALL):** To read the setting data from all devices
-  **Sending setting data (ALL):** To send the setting data to all devices

 **Receiving setting data:** To read the setting data from the specified device

 **Sending setting data:** To send the setting data to the specified device

 **Router Location Setup:** To set the physical location of each device on the matrix.

You can locate a device at any desired location on the matrix by dragging the icon of the device from the left window and dropping it onto the matrix. You can also locate a device by using cut-and-paste commands. To do so, right-click on the device icon in the left window.

When you click on this button, the Routing Switcher Location Setup window will be displayed.

For details, refer to “Routing Switcher Location Setup dialog box” on the next page.

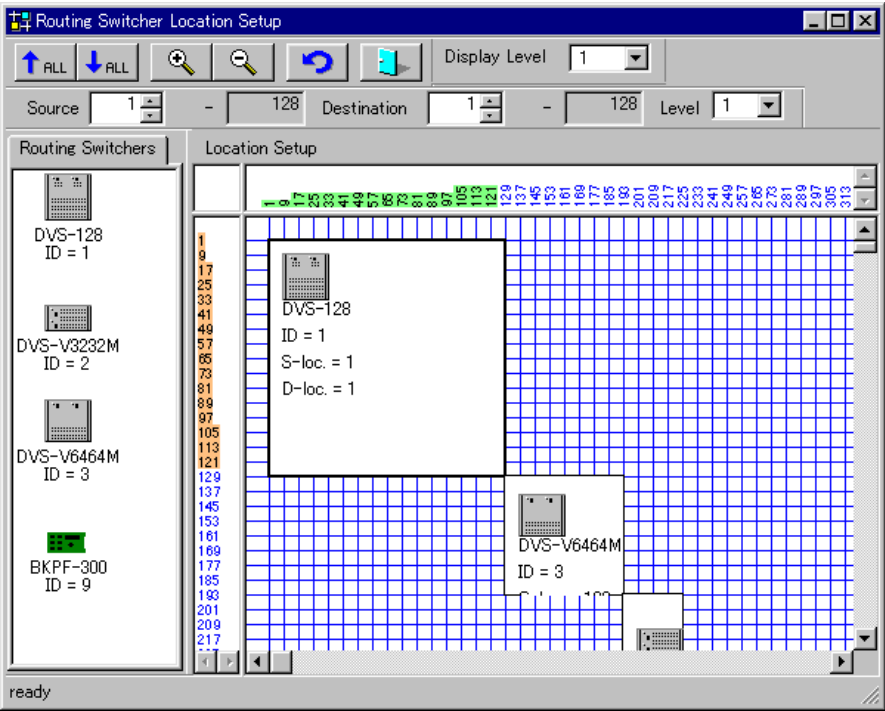
 **Properties:** To edit the properties of the selected device







 **Delete:** To delete the selected device from the S-BUS line

 **Reload:** To reload all data

 **Exit:** To quit S-BUS Device Configuration

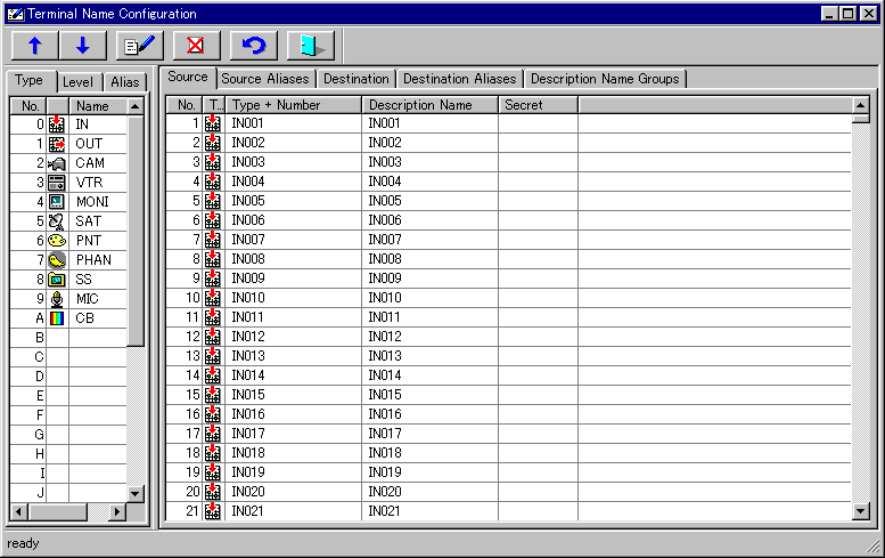
Routing Switcher Location Setup dialog box



-  **Receiving device-location data (All):** To read the device-location data from all routing switchers
-  **Sending device-location data (All):** To send the device-location data to all routing switchers
-  **Zoom In Grid:** To magnify the view of the matrix area
-  **Zoom Out Grid:** To zoom out the view of the matrix area
-  **Reload:** To reload all setting data of device locations
-  **Exit:** To quit Routing Switcher Location Setup
- Display Level:** To specify the display level

4-2-3 System Menu

Terminal Name Configuration



Type setting page

Specify type names to be used as prefixes of terminal names. Up to 4 characters can be entered, and the corresponding icons can be selected in Properties.

Level setting page

Specify the level names. Level names for up to 8 or 16 levels can be specified.

Example: Specify VID for level 1, and AUD for level 2.

Alias setting page

Specify the title of aliases for Source Aliases setting page, and Destination Aliases setting page.

Up to 16 characters can be entered.

Source setting page, Destination setting page

Specify terminal names.

For “Type + Number,” specify terminal names, each consisting of a type name you have set (up to 4 characters) followed by a number (up to 3 digits).

A “Description Name” can be specified in up to 16 characters of any type. If you click on the Properties icon, the Properties dialog box is displayed, and you can select the icon specifically designed for the terminal. In the Properties dialog box, you can also specify Secret (Source) and Level (Destination).

The Properties dialog box can be displayed by double-clicking or right-clicking on the box you wish to specify.







Source Aliases setting page, Destination Aliases setting page
Edit and transmit aliases of the terminal names.

For details, see “Operations on the Source Aliases and Destination Aliases setting pages.”

Description Name Groups setting page
Edit and transmit the Description Name Groups.

For details, see “Operations on the Description Name Groups setting page.”

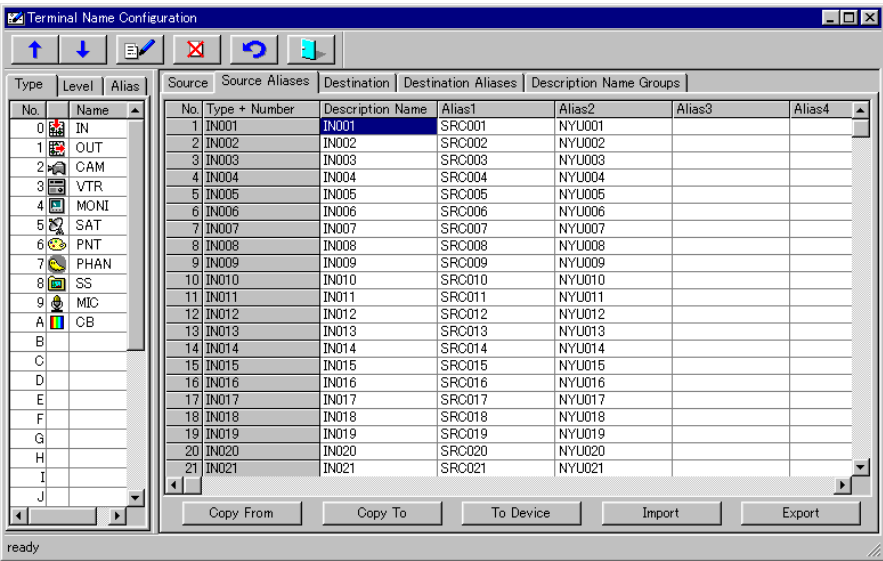
List of icons

-  **Receiving setting data:** To read the setting data from the primary station.
-  **Sending setting data:** To send the setting data to the primary station.
-  **Properties:** To edit the selected terminal name
-  **Delete:** To delete the selected terminal name
-  **Reload:** To reload the setting data
-  **Exit:** To quit Terminal Name Configuration

Operations on the Source Aliases and Destination Aliases setting pages

Multiple terminal names can be set.

Up to seven aliases can be added to the list of virtual input/output terminals besides Type + Number and Description Name. Aliases can be used on the S-BUS devices which have the display window, and your settings are transmitted to them via the primary station from the BZR-2000.



Up to 16 alphanumeric can be used for a name.
Entries for up to eight terminals, including their Description Names can be copied or replaced among cells.

Description Names on the Source Aliases setting page and the Source setting page are the same, and those on the Destination Aliases setting page and the Destination setting page are also the same, and you can edit then on any of those pages.

The method of operation is the same on both the Source Aliases setting page and the Destination Aliases setting page.

The operation of the Aliases is limited to the S-BUS devices shown below but does not depend on the type of the primary station.

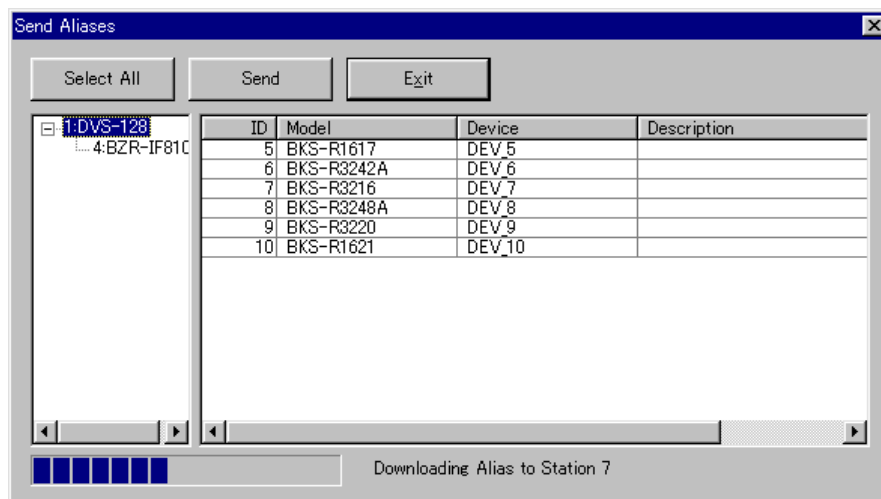
- BKS-R1617/R3216/R3220/R1621 (Firmware V.1.11 or higher)
- BKS-R3240A/R3242A/R3248A (Firmware V.1.08 or higher)
- BZR-IF810 (V.1.02 or higher) and BZR-IF820 (V.1.01 or higher) (These two models are not the target of the aliases but to pass them to the next.)

Copy From button and **Copy To** button

Copy the alias data between the currently used database and another database. On the Source Aliases setting page, the aliases on the source side can be copied, and on the Destination Aliases setting page, the aliases on the destination side can be copied. You can copy source aliases and destination aliases simultaneously on any page.

To Device button

Send the alias data and Description Name to the secondary and third-level devices that have the display window.



Specify one or more secondary or third-level devices and click on the **Send** button, and the seven sets of alias and Description Name data are sent to the specified S-BUS station.

If all devices are selected by clicking on the **Select All** button, clicking on the **Send** button simultaneously sends the data to all of the proper S-BUS devices.

If you select the primary station in the tree at left, and click on the **Select All** button, the data are sent to all devices, including the third-level station.

Import button

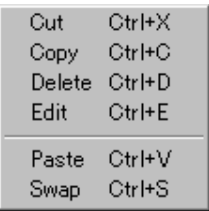
Read seven sets of alias and Description Name data from the CSV (Comma Separated Values) format¹⁾ file.
Both Source and Destination are imported when the button is clicked on, either on the Source Aliases setting page or the Destination Aliases setting page.

Export button

Write seven sets of alias and Description Name data to the CSV format file.
Both Source and Destination can be written when the button is clicked on either the Source Aliases setting page or the Destination Aliases setting page.

Operations on the alias list

If you select a cell or cells on the alias list and right-click, the menu shown below appears.



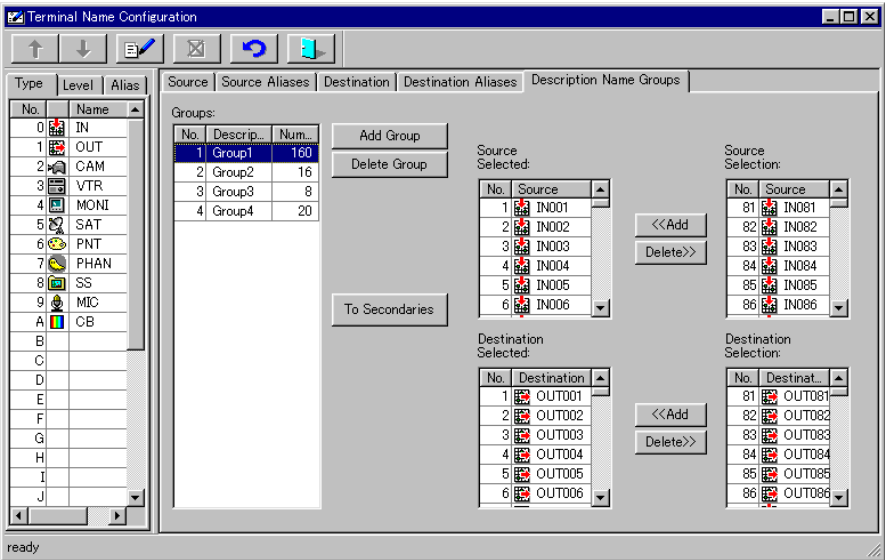
When you select an item on the menu, the operations shown below are available. It is also possible to perform the operation below with the keyboard operation corresponding to a menu item (Ctrl + X, Ctrl + C, Ctrl + D, Ctrl + E, Ctrl + V, or Ctrl + S) without right-clicking.

- Cut (Ctrl + X):** Data for the selected cell are deleted. The deleted data are temporarily stored in the BZR-2000.
- Copy (Ctrl + C):** Data for the selected cell are temporarily stored in the BZR-2000.
- Delete (Ctrl + D):** Data for the selected cell are deleted. The deleted data are not stored in the BZR-2000.
- Edit (Ctrl + E):** The selected cell is set for Edit mode. If multiple cells are selected, the top-left cell is set for Edit mode.
Pressing the Enter key while editing data in the cell, the cell set for Edit mode is changed to the one below.
Clicking the alias list or pressing the Esc key terminates Edit mode.
- Paste (Ctrl + V):** Data temporarily stored in the BZR-2000 by Cut or Copy are pasted to the cell or cells selected after the Cut or Copy operation.
- Swap (Ctrl + S):** Data temporarily stored in the BZR-2000 by Cut or Copy and those in the cell or cells selected after the Cut or Copy operation are swapped.

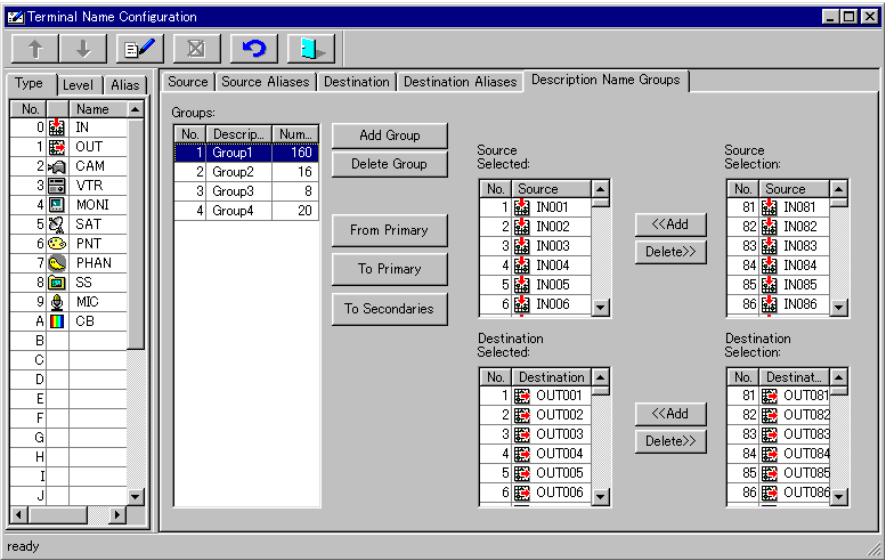
1) CSV format: General purpose data format supported by table calculation software such as Mircrosoft Excel.

Operations on the Description Name Groups setting page

Display when RS-232C/Network connections have been made:



Display when S-BUS connections have been made:



Add Group button:

Create a new group. If you click on this button, a new No. and a temporary Description are added to the Groups box. By clicking on a temporary Description, the Description name can be changed.

Delete Group button:

Delete the selected group by clicking on this button.

Addition of terminals:

1 Select a signal by clicking on a desired terminal on the Source Selection or Destination Selection list in the right of the window.

2 Click on the button.

The selected terminal is added to the Source Selected or Destination Selected list at the center of the window.

Deletion of terminals:

1 Select a signal by clicking on a desired terminal on the Source Selected or Destination Selected list at the center of the window.

2 Click on the button.

The deleted terminal is added to the Source Selection or Destination Selection list at the right in the window.

Repeat the above procedures of addition and deletion of terminals until all the necessary Description Name Groups are created.

Data transmission/reception of the Description Name Group:

• When serial interface (RS-232C) or Network connections have been made:

The following procedures are enabled only in on-line status. Only the data of a single group can be transmitted to all the control panels.

1 Select a group to be transmitted from the Groups list.

2 Click on the button.

• When S-BUS connections have been made:

The following procedures are enabled only in on-line status.

For reception:

You can receive data only from the primary station.

Click on the button, and the data for No. 1 to No. 8 of the Groups list will be overwritten with the received data.

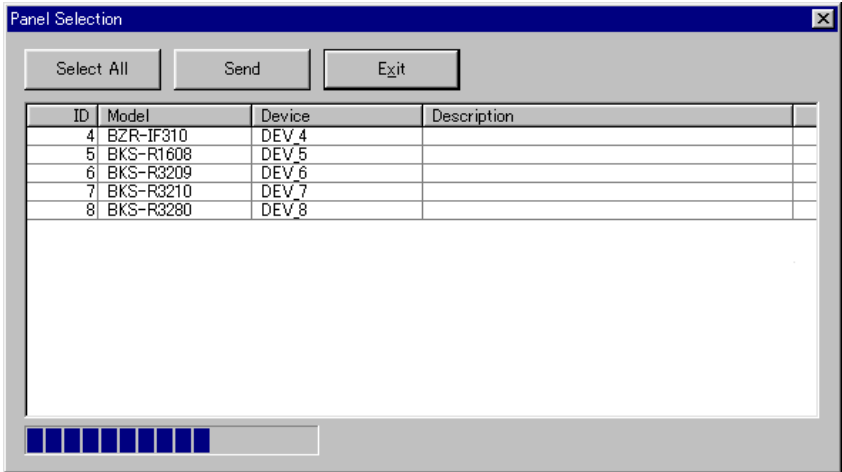
For transmission:

To transmit data to the primary station, click on the **To Primary** button, and the data for No.1 to No. 8 of the Groups list will be transmitted.

To transmit data to the control panels and UMDs, proceed as follows:

- 1** Select a group to be transmitted from the Groups list.
- 2** Click on the **To Secondaries** button.

The Panel Selection dialog box appears.



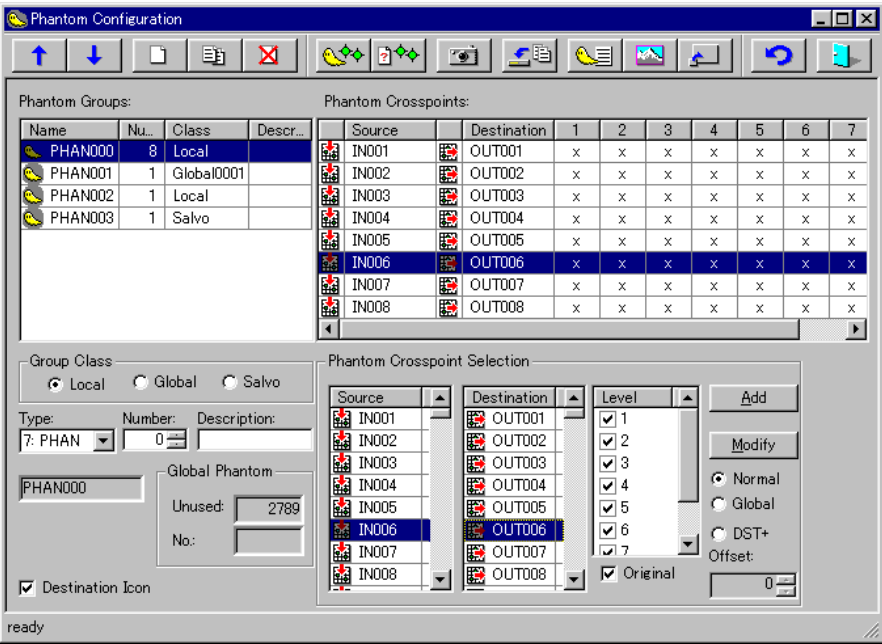
- 3** Select the destination panels, then click on the **Send** button.

If the **Select All** button is clicked on, all the secondary and third-level control panels are selected as transmission destinations.

If the BZR-IF310/IF810/IF820 are selected as a transmission destination, all the third-level control panels and UMDs connected to them will be destinations. You cannot transmit data to the third-level stations individually.

Phantom Configuration

On this submenu, you can create, edit, and delete local phantoms, global phantoms, and salvos. Phantom data can be read or sent from/to the primary station, or newly created.



Group Class

Specify the class of a Phantom Group to be newly created from Local, Global and Salvo.

Type, Number, Description

Specify the terminal name (Type + Number) and Description of the Phantom Group to be newly created.

Destination Icon check box

To display destination icons on the Phantom Crosspoints list, click on the check box to select it.

Global Phantom

- Unused:** The number of available (registration possible) crosspoints for Global Phantom is indicated.
- No.:** When Global Phantom is selected in Phantom Groups, the serial numbers of the Global Phantoms is indicated.

Phantom Crosspoint Selection

- Source/Destination/Level list:** Select a terminal name or a level to be set.
- Add button:** To add Source, Destination, and Level settings selected from the Source, Destination, and Level lists to the Phantom Crosspoints list
- Modify button:** To modify Phantom Crosspoints

Selection of Normal/Global/DST+ and Offset

Normal: Normal Phantom Crosspoints

Global: To add a Global Phantom to the Phantom Crosspoints list. Select a Global Phantom in Phantom Groups and specify a Global No. When Global is selected in Group Class, this option is disabled.

DST+ and Offset: A Destination Offset-type Local Phantom is added to the Phantom Crosspoints list. When DST+ is selected, Offset can be specified. This option is disabled when Group Class is set to Global.

Original check box

The original Level of the selected Destination is restored.















This option is disabled when a Destination Offset-type Local Phantom or a Global Phantom is selected.

Creating Phantom data

Phantom data are created by adding crosspoints in the group.

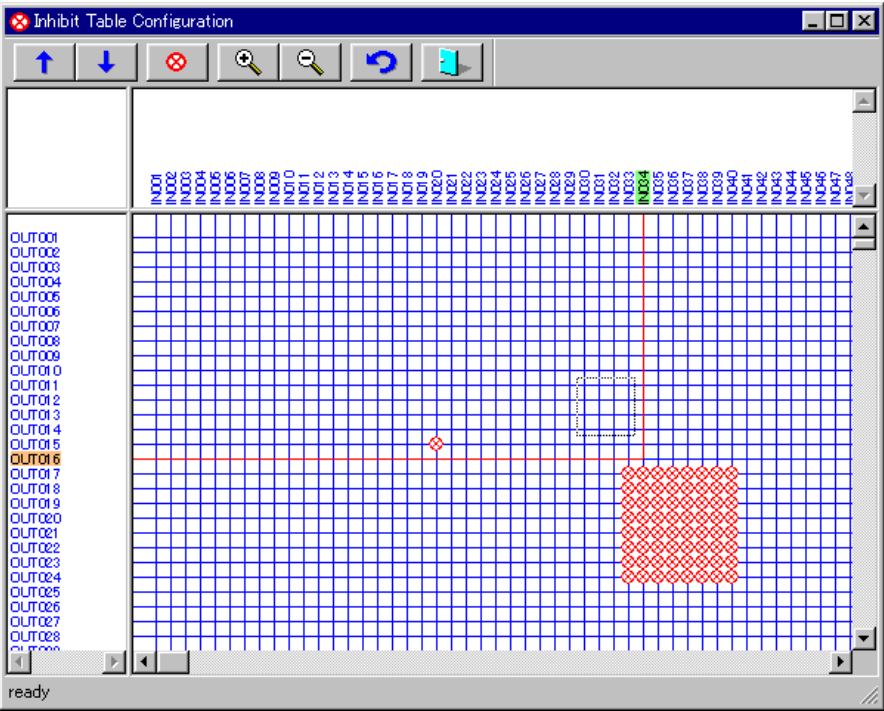
You create the Phantom Group first then add an input-output pair (crosspoint) using the **Add** button.

List of icons

-  **Receiving Global Phantom data:** To read Global Phantom data from the primary station
-  **Sending Global Phantom data:** To send Global Phantom data to the primary station
-  **Add:** To create and edit a Phantom Group on the Phantom Groups list
-  **Duplicate:** To copy a Phantom Group
-  **Delete:** To delete a Phantom Group
-  **Take Phantom:** To execute Take for the selected Phantom Group
-  **Test Phantom:** To display a matrix for confirmation of the setting
-  **Snapshot:** To copy an item of crosspoint status data into a Phantom Group (Salvo)
-  **Send Local Phantom:** To send Local Phantom data to the Control Panel
-  **Graphical Mode/List Mode:** To switch the display mode of the Phantom Crosspoints window
-  **Select Bitmap:** Select the background of the Crosspoint Grid
-  **Preview Phantom:** To preview the Crosspoint Grid in another window.
-  **Reload Phantom:** To reload the setting data
-  **Exit:** To quit Phantom Configuration








Inhibit Table Configuration

On this submenu, you can specify Inhibit for a crosspoint.



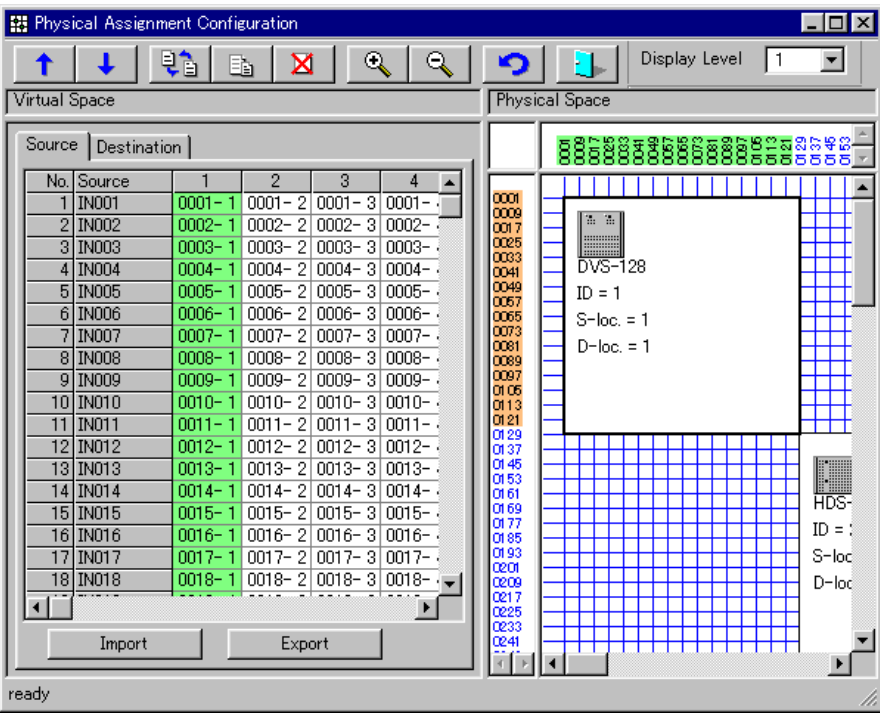
Specify a rectangular area by dragging the mouse cursor, and specify Inhibit ON/OFF with the  button or by right-clicking.

List of icons

-  **Receiving Inhibition Table data:** To read the Inhibition Table data from the primary station
-  **Sending Inhibition Table data:** To send the Inhibition Table data to the primary station
-  **Toggle Inhibition:** To switch Inhibition ON/OFF for the selected crosspoint
-  **Zoom In Grid:** To magnify the view of the matrix area
-  **Zoom Out Grid:** To zoom out the view of the matrix area
-  **Reload:** To reload the setting data
-  **Exit:** To quit Inhibit Table Configuration

Physical Assignment Configuration

On this submenu, you can allocate levels or names to physical inputs and outputs of the routing switcher. Allocate a physical terminal number and a physical level to a virtual name and a virtual level for Source and Destination.



You can edit a cell on the physical terminal number list in the Virtual Space area, or select one or multiple physical terminal number(s) in the Physical Space area, and drag and drop it or them to the Virtual Space area. If you drag and drop, the same results as with Swap (mentioned later) are obtained.

If you select a cell or cells on the physical terminal number list in the Virtual Space area and right-click, the menu shown below appears.












When you select an item on the menu, the operations shown below are available. It is also possible to perform the operation below with the keyboard operation corresponding to a menu item (Ctrl + X, Ctrl + D, Ctrl + E, Ctrl + V, or Ctrl + S) without right-clicking.

- Cut (Ctrl + X):** Data for the selected cell are deleted. The deleted data are temporarily stored in the BZR-2000.
- Delete (Ctrl + D):** Data for the selected cell are deleted. The deleted data are not stored in the BZR-2000.
- Edit (Ctrl + E):** The selected cell is set for Edit mode. If multiple cell are selected, the top-left cell is set for Edit mode.
Pressing the Enter key while editing data in the cell, the cell set for Edit mode is changed to the one below.
Clicking the alias list or pressing the Esc key terminates Edit mode.
- Paste (Ctrl + V):** Data temporarily stored in the BZR-2000 by Cut are pasted to the cell or cells selected after the Cut operation.
- Swap (Ctrl + S):** Data temporarily stored in the BZR-2000 by Cut and those in the cell or cells selected after the Cut operation are swapped.

Import button
Read Physical Assignment data from the CSV (Comma Separated Values) format¹⁾ file.
Both Source and Destination are imported when the button is clicked on, either on the Source setting page or the Destination setting page.

Export button
Write Physical Assignment data to the CSV format file.
Both Source and Destination are written when the button is clicked on either the Source setting page or the Destination setting page, and data are written to the CSV format file in order of Source and Destination.

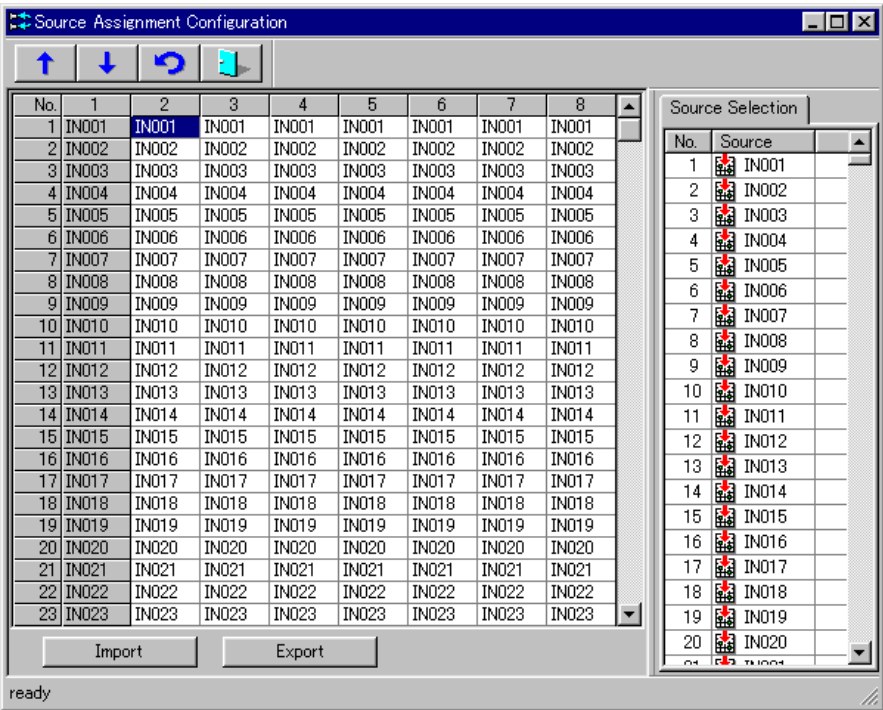
List of icons

-  **Receiving setting data:** To read the setting data from the primary station
-  **Sending setting data:** To send the setting data to the primary station
-  **Swap:** To swap setting data of the selected two areas
-  **Paste:** To copy and paste the setting data of the selected area
-  **Delete:** To delete the setting data of the selected area
-  **Zoom In Grid:** To magnify the view of the matrix area
-  **Zoom Out Grid:** To zoom out the view of the matrix area
-  **Reload:** To reload the setting data
-  **Exit:** To quit Physical Assignment Configuration
- Display Level:** To select the display level

1) CSV format: General purpose data format supported by table calculation software such as Mircrosoft Excel.

Source Assignment Configuration

On this submenu, you can allocate sources. Take Level 1 as a reference, and allocate sources of other levels.



You can edit a cell on the Source name list, or select a Source name from Source Selection, and drag and drop it to the Source name list.

If you select a cell or cells on the Source name list and right-click, the menu shown below appears.

Cut	Ctrl+X
Copy	Ctrl+C
Delete	Ctrl+D
Edit	Ctrl+E
Default	Ctrl+F
Paste	Ctrl+V
Swap	Ctrl+S

When you select an item on the menu, the operations shown below are available. It is also possible to perform the operation below with the keyboard operation corresponding to a menu item (Ctrl + X, Ctrl + C, Ctrl + D, Ctrl + E, Ctrl + F, Ctrl + V, or Ctrl + S) without right-clicking.

Cut (Ctrl + X): Data for the selected cell are deleted. The deleted data are temporarily stored in the BZR-2000.

Copy (Ctrl + C): Data for the selected cell are temporarily stored in the BZR-2000.

Delete (Ctrl + D): Data for the selected cell are deleted. The deleted data are not stored in the BZR-2000.

- Edit (Ctrl + E):** The selected cell is set for Edit mode. If multiple cells are selected, the top-left cell is set for Edit mode.
Pressing the Enter key while editing data in the cell, the cell set for Edit mode is changed to the one below.
Clicking the alias list or pressing the Esc key terminates Edit mode.
- Default (Ctrl + F):** Data in the selected cell or cells are set to the default values.
- Paste (Ctrl + V):** Data temporarily stored in the BZR-2000 by Cut or Copy are pasted to the cell or cells selected after the Cut or Copy operation.
- Swap (Ctrl + S):** Data temporarily stored in the BZR-2000 by Cut or Copy and those in the cell or cells selected after the Cut or Copy operation are swapped.





Import button

Read Source Assignment data from the CSV (Comma Separated Values) format¹⁾ file.
Source Assignment data of the CSV file to be imported must be written by the logical terminal number. The terminal name cannot be imported.

Export button

Write Source Assignment data to the CSV format file.
Exported data are written by the logical terminal number.

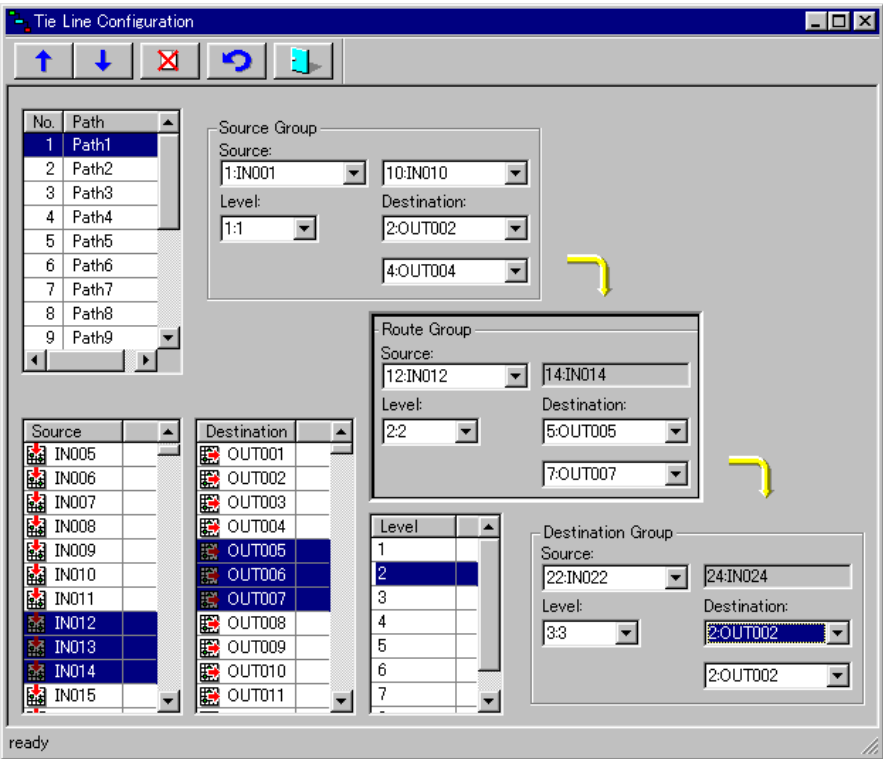
List of icons

-  **Receiving setting data:** To read the setting data from the primary station
-  **Sending setting data:** To send the setting data to the primary station
-  **Reload:** To reload the setting data
-  **Exit:** To quit Source Assignment Configuration

1) CSV format: General purpose data format supported by table calculation software such as Mircrosoft Excel.

Tie Line Configuration

On this submenu, you can set Tie Line Paths between Sources and Destinations.








From the Path list at the upper left of the window, select a Path number to be set. Up to 16 paths can be set.

Setting Source Group/Route Group/Destination Group

Select a terminal name in each Group. You can drag a terminal name from the Source/Destination/Level list at the bottom of the window, and drop it into each box of Source Group/Route Group/Destination Group to the right in the window.

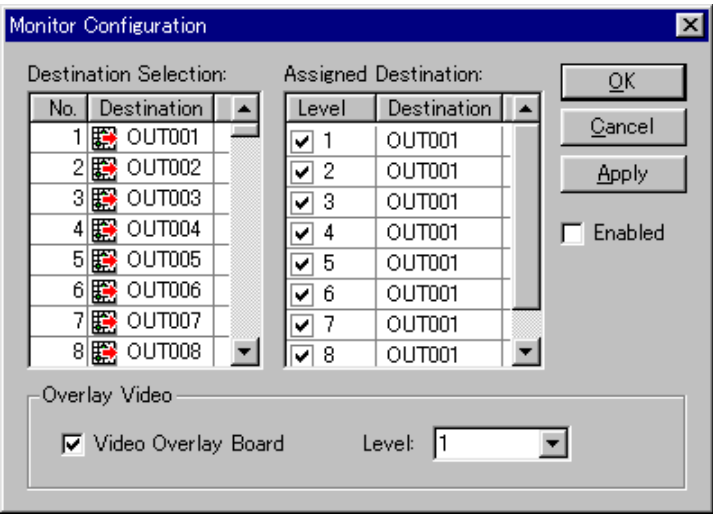
List of icons

-  **Receiving setting data:** To read the setting data from the primary station
-  **Sending setting data:** To send the setting data to the primary station
-  **Delete:** To delete the selected terminal name
-  **Reload:** To reload the setting data
-  **Exit:** To quit Tie Line Configuration

4-2-4 Monitor Menu

Configuration

On this submenu, you can allocate a Destination as a monitoring output for each level.



Assign levels in the Assigned Destination list, and double-click on a Destination on the Destination Selection list to be allocated. You can drag a Destination name from the Destination Selection list, and drop it at the desired Level on the Assigned Destination list.

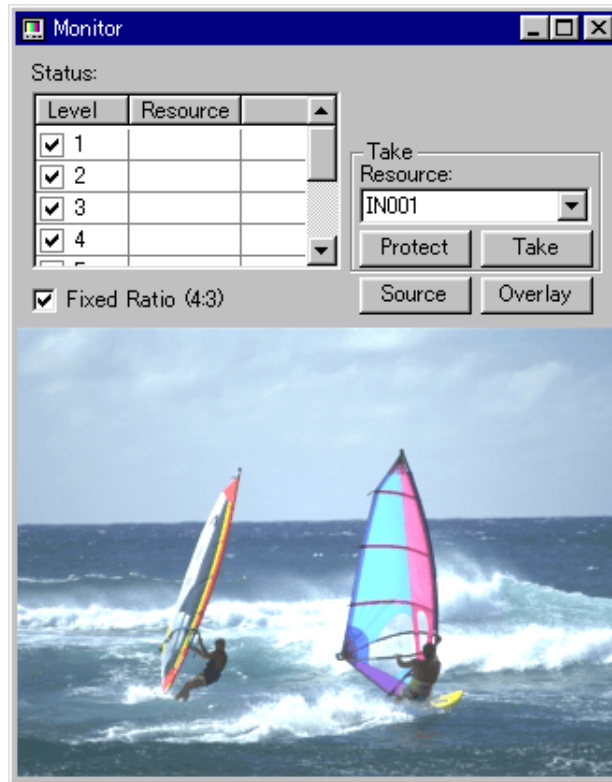
By clicking on Level check boxes on the Assigned Destination list, you can switch enabled/disabled of the setting at each level.

To simultaneously switch enabled/disabled of the settings for several levels, select the desired levels from the Assigned Destination list and click on the Enabled check box.

If you use an optional video overlay board, click on the Video Overlay Board check box, then select the Level for connecting the board.

Take

On this submenu, you can take a crosspoint for monitoring.



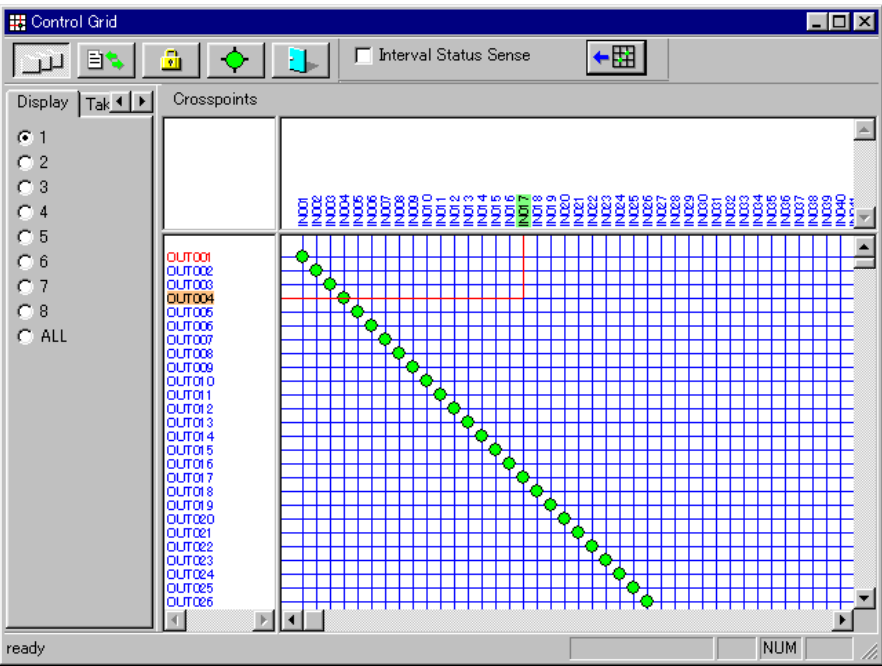
Select a source in the Resource box of Take, and click on the **Take** button.

To protect the Destination set as a monitor output, click on the **Protect** button.


4-2-5 Tools Menu

Control Grid

On this submenu, you can display status information on crosspoints at the specified level.



List of icons


 **Level Dialog:** To switch the Display/Take/Status pages ON (display) or OFF (don't display). When ALL is selected on the Display page, the display mode for crosspoints is switched to List mode.

 **Take Dialog:** To display the Take dialog box

The 'Take' dialog box has a 'Source' dropdown set to 'IN004' and a 'Destination' dropdown set to 'OUT006'. To the right is a 'Levels' list with checkboxes for 1 through 7. Checkmarks are present for levels 1 and 2. At the bottom are 'Exit' and 'Take' buttons.

You can select and take crosspoints in the Take dialog box.

 **Protect:** To protect a crosspoint selected by clicking on the grid

 **Take:** To take a crosspoint selected by clicking on the grid. If “Double Click” is selected in “Take Control” under the Preference page of the Setup dialog box, you can take a crosspoint by directly double-clicking on it.



Exit: To quit Control Grid

Interval Status Sense: This is enabled only when RS-232C connections have been made. If you click on the check box, crosspoint status data will be periodically read.



Upload: To read crosspoint status data

Prototypes for Panels

On this submenu, you can create a prototype for the control panel. You can create, edit, and delete Buttons, Available Destinations, Selectable Sources, and Routes.

Buttons commonly used in all setting pages (valid for all settings)

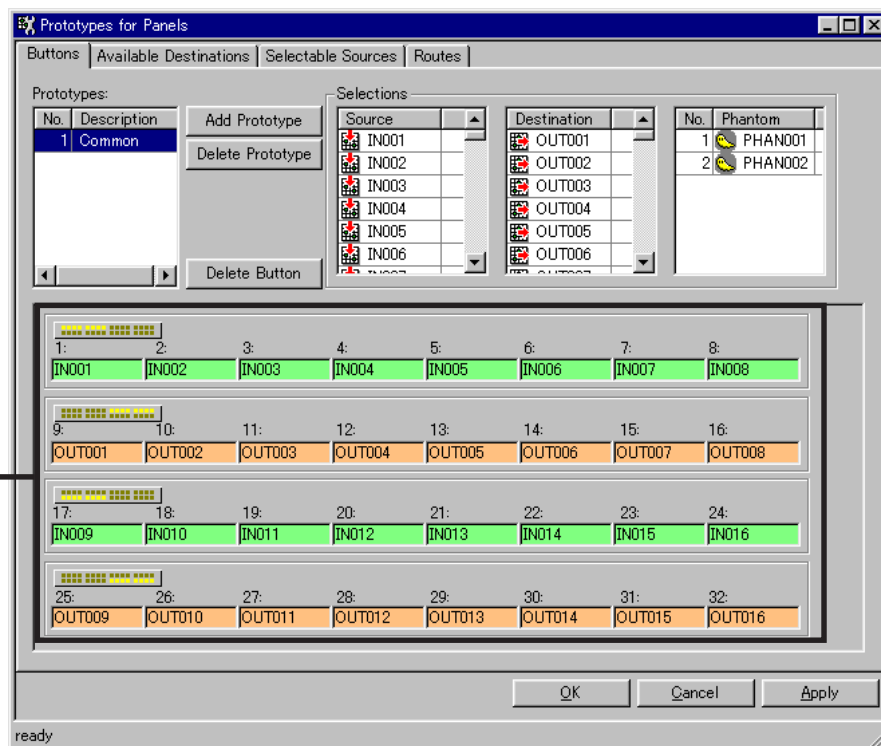
OK button: To quit this submenu with all settings validated

Cancel button: To quit this submenu and abandon your new settings

Apply button: To validate any new settings (process continued)

Buttons setting page

Button assignment boxes



Add Prototype button

To create a new prototype. When you click on this button, a new No. and a temporary Description are added to the Prototypes box. By clicking on a temporary Description, the corresponding Description name can be changed.

Delete Prototype button

By clicking on the button, the selected prototype can be deleted.

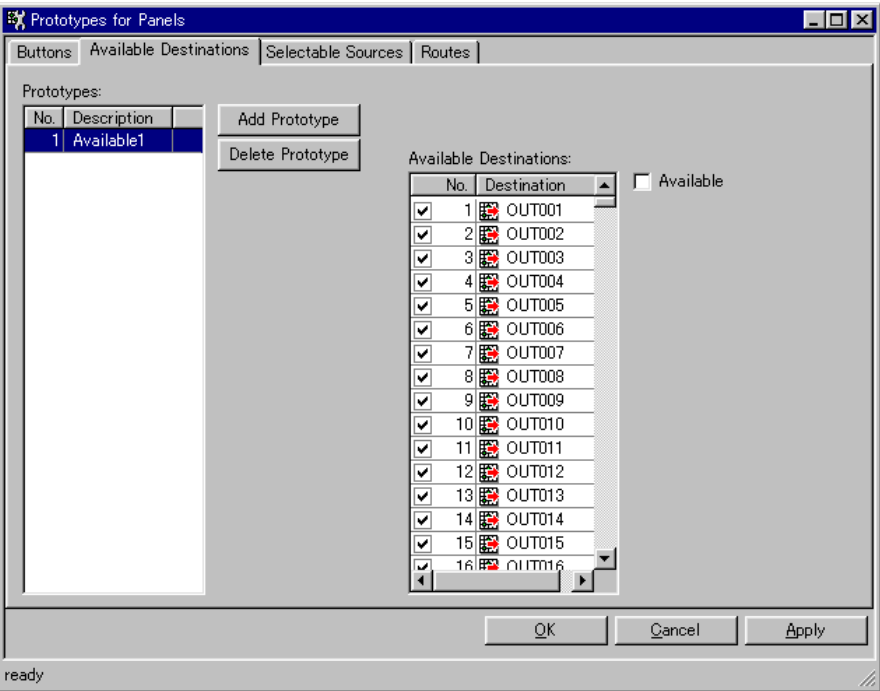
Button assignment boxes

Allocate terminals (Source, Destination, Phantom) to the buttons as follows:

- 1 Click on a button assignment box to which a terminal is to be allocated.
- 2 Double-click on a terminal or phantom name on the Source, Destination or Phantom list in Selections.

Repeat the above procedures until all the necessary terminals are allocated to the control panel buttons.

Available Destinations setting page



Add Prototype button

To create a new prototype. One prototype covers a Destination Size specified on the Virtual Matrix setting page of the Setup dialog box from Destination No.1 on the Available Destinations list.

If you click on this button, a new No. and a temporary Description are added to the Prototypes box. By clicking on a temporary Description, the Description name can be changed.

Delete Prototype button

By clicking on this button, the selected prototype can be deleted.

Available Destinations list

The availability of each Destination can be switched by clicking on the check box to the left of each No.

Available check box

To simultaneously switch the availability of several Destinations, select the desired Destination numbers (see below) and click this check box.

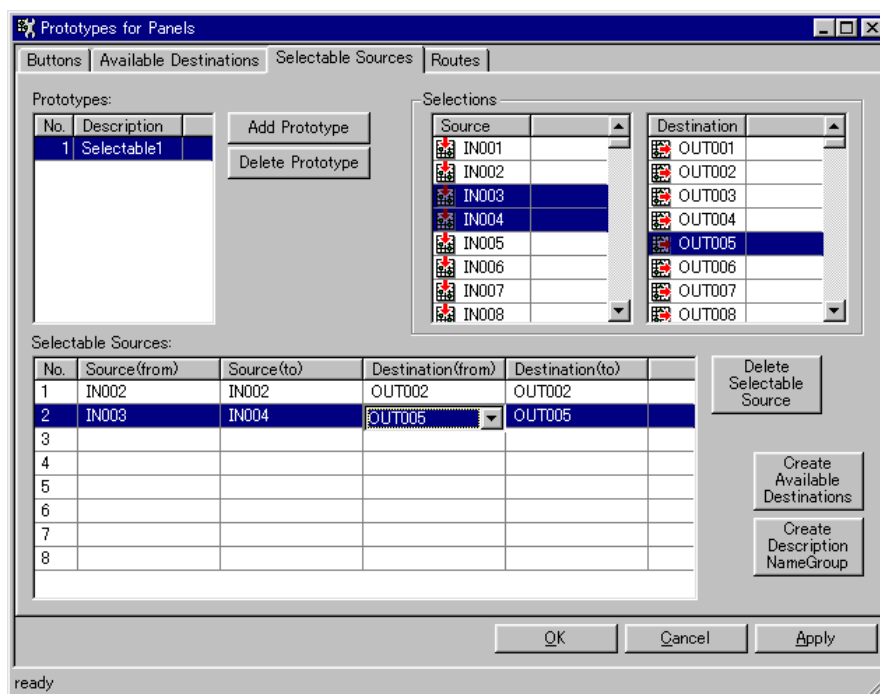
Selection of several Destinations on the list

To select consecutive boxes, click on the first Destination you wish to select, point to the last Destination you wish to select, and while holding down the Shift key, click on it.

To select discontinuous boxes, click on the first Destination you wish to select, then point to the next Destination you wish to select, and while holding down the Ctrl key, click on it. Select all Destinations you wish one by one in the same manner.

Repeat the above procedures to set all the necessary Available Destinations.

Selectable Sources setting page



Add Prototype button

To create a new prototype. If you click on this button, a new No. and a temporary Description are added to the Prototypes box. By clicking on a temporary Description, the Description name can be changed.

Delete Prototype button

By clicking on this button, the selected prototype can be deleted.

Selectable Sources list

To specify Sources and Destinations: Select a terminal name from the Source or Destination list in Selections on the right of the window, then drag and drop it into a Source or a Destination box on the Selectable Sources list.

To delete a Selectable Source: Click on a Selectable Source you wish to delete from the Selectable Sources list, then click on the **Delete Selectable Source** button.

Create necessary prototypes by referring to the above.

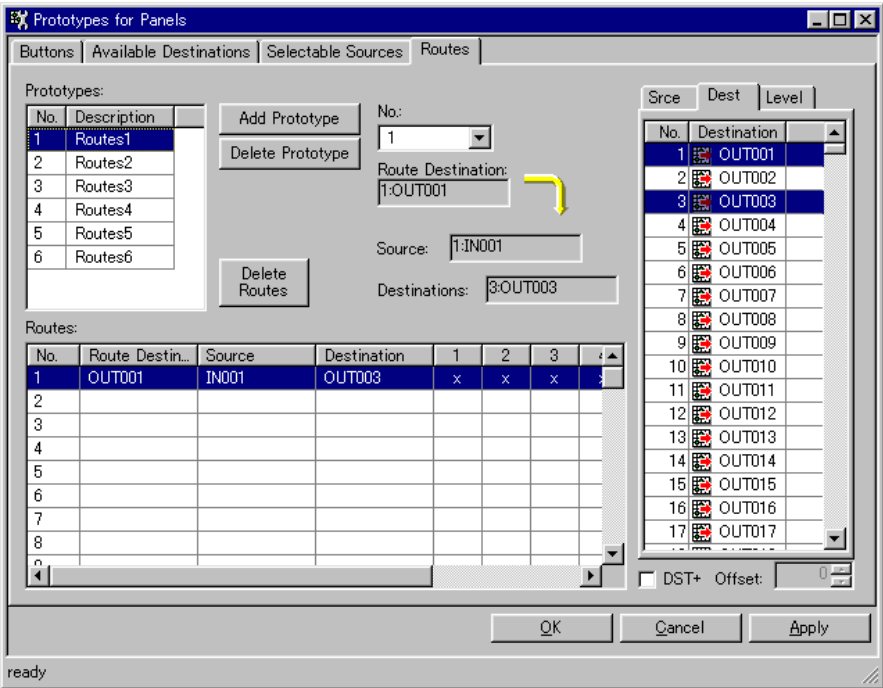
Create Available Destinations button

To automatically create an Available Destinations list and add it to the Prototypes list of the Available Destinations setting page. On the Available Destinations list to be created, the Destination terminal names contained on the Selectable Sources list of the prototype selected from the Prototypes list on this setting page are ON (Available), and other Destination terminal names are OFF (Not Available).

Create Description Name Group button

To automatically create a Description Name Group and add it to the Groups list of the Description Name Groups setting page in the Terminal Name Configuration window. The Description Name Group to be created contains terminal names on the Selectable Sources list of the prototype selected from the Prototypes list on this setting page.

Routes setting page



Add Prototype button

To create a new prototype. If you click on this button, a new No. and a temporary Description are added to the Prototypes list. By clicking on a temporary Description, the Description name can be changed.

Delete Prototype button

By clicking on this button, the selected prototype can be deleted.

Setting the Route function

Select a number you wish to set from the Routes list first, click on a Route Destination, Source, or Destination box of the number, then select a desired terminal name from the displayed list. Click on ▼ to display the dropdown list, then select a desired terminal name. The availability of Levels 1 to 8 can be switched ON and OFF by double-clicking on the corresponding check boxes.

You can also assign a terminal name by drag-and-drop of a terminal name from the Srce or Dest list on the right in the window, or by checking the check boxes on the Level list.

Set the necessary items on the Routes setting page referring to the above.

UMD Strings

On this submenu, up to 200 UMD strings can be registered and edited.

Note

This setting is available only when your Routing Switcher System contains the BKS-R3280 or BKS-R3281.

No.	String	Bright...	Left L...	Right ...	
1	TOKYO	50%	Off	Off	
2	WASHINGTON	25%	Off	Off	
3	LONDON	25%	Off	Off	
4	PARIS	25%	Off	Off	
5	BEIJING	25%	Off	Off	
6		25%	Off	Off	
7		25%	Off	Off	
8		25%	Off	Off	
9		25%	Off	Off	
10		25%	Off	Off	
11		25%	Off	Off	
12		25%	Off	Off	
13		25%	Off	Off	
14		25%	Off	Off	
15		25%	Off	Off	
16		25%	Off	Off	
17		25%	Off	Off	
18		25%	Off	Off	
19		25%	Off	Off	
20		25%	Off	Off	
21		25%	Off	Off	
22		25%	Off	Off	
23		25%	Off	Off	

Send To Panel button

To send UMD strings to the control panel

Brightness button

To select brightness

Left LED button

To switch ON/OFF the LED, and to select the luminescent color

Right LED button

To switch ON/OFF the LED, and to select the luminescent color

Reload button

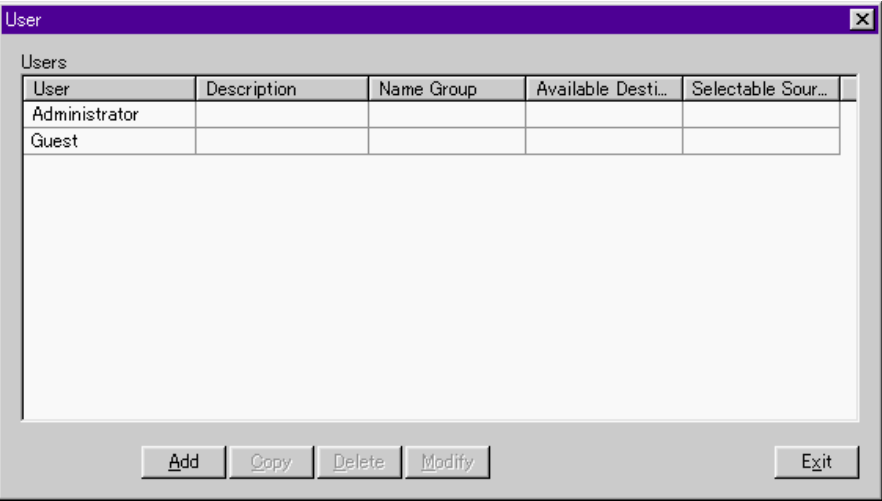
To reload UMD strings

Exit button

To quit UMD Strings

Password Setup

On this submenu, you can register new users and passwords to limit operable items of BZR-2000 to users other than the Administrator. Thus, security is assured when several users use this program. When you first start the program after installation, you can make all the settings for BZR-2000 as the Administrator. If you register new users, every time you start the program afterward, or if you click on Logoff (L), the Logon dialog box is displayed, which enables the Administrator to manage other users.



In the initial status, only the Administrator and the Guest are registered.

Add button

To register a new user, click on this button.

When any of the users on the Users list is selected, the following operations are available:

Copy button

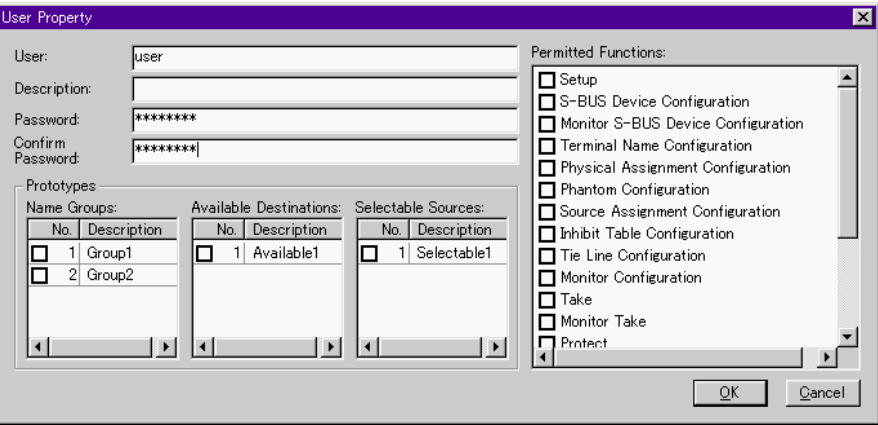
To copy registration data for the selected user to another user to be newly registered

Delete button

To delete a registered user from the Users list

Modify button

To modify registration data for the selected user on the Users list



The 'User Property' dialog box is used for modifying user registration data. It contains the following fields and sections:

- User:** A text field containing 'user'.
- Description:** An empty text field.
- Password:** A text field with masked characters '*****'.
- Confirm Password:** A text field with masked characters '*****'.
- Prototypes:** A section with three tables:
 - Name Groups:**

No.	Description
<input type="checkbox"/> 1	Group1
<input type="checkbox"/> 2	Group2
 - Available Destinations:**

No.	Description
<input type="checkbox"/> 1	Available1
 - Selectable Sources:**

No.	Description
<input type="checkbox"/> 1	Selectable1
- Permitted Functions:** A list of functions with checkboxes:
 - ☐ Setup
 - ☐ S-BUS Device Configuration
 - ☐ Monitor S-BUS Device Configuration
 - ☐ Terminal Name Configuration
 - ☐ Physical Assignment Configuration
 - ☐ Phantom Configuration
 - ☐ Source Assignment Configuration
 - ☐ Inhibit Table Configuration
 - ☐ Tie Line Configuration
 - ☐ Monitor Configuration
 - ☐ Take
 - ☐ Monitor Take
 - ☐ Protect

Buttons: OK, Cancel

User: Enter a user's name.

Description: A comment for the user can be entered.

Password: Enter a password for the user.

Confirm Password: To confirm you did not make a typing error when entering the password, enter the same password again.

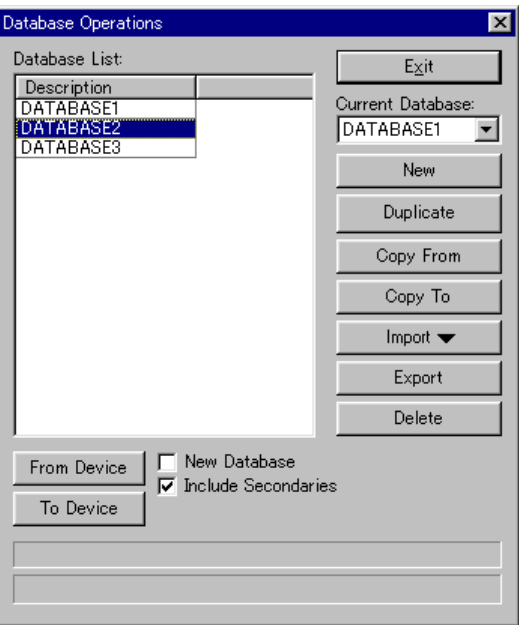
Prototypes group box: If you check the check boxes in the Name Group, Available Destinations, and Selectable Sources lists, the checked items become available to the user.

Permitted Functions list: Operable functions for the user can be limited. The user cannot use the functions not checked.

Operation

Database Operations

On this submenu, you can copy or delete database of BZR-2000.



The 'Database Operations' dialog box is used for managing databases. It contains the following elements:

- Database List:** A list box showing three databases: DATABASE1, DATABASE2 (selected), and DATABASE3.
- Current Database:** A dropdown menu showing 'DATABASE1'.
- Buttons:** Exit, New, Duplicate, Copy From, Copy To, Import (with a dropdown arrow), Export, and Delete.
- From Device:** A button.
- To Device:** A button.
- Options:**
 - ☐ New Database
 - ☒ Include Secondaries

Current Database

To select a database to be used

New button

To create a new database filled with default data

Duplicate button

To create a copy of the database selected from the Database List

Copy From button

To assign a file from which a database is to be copied

Copy To button

To assign a file to which a database is to be copied

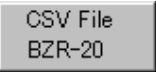
Import button

To the information on terminal names, or the data backed up with the BZR-20.

A file for information on terminal names is a CSV (Comma Separated Values) format file. The Type name, Level name, Type + Number name or Description name of the Source or Destination must be written. The Type + Number name and Description name are not mandatory for all terminals. The format is the same as that output with the **Export** button. The following data files backed up with the BZR-20 can be imported.

File name	Data
SBUS_STD.DAU	S-BUS Table data
SBUS_NME.DAU	Description Name (Source & Destination) data
SBUS_GPH.DAU	Global Phantom data
SBUS_INH.DAU	Inhibit Table data
SBUS_LVG.DAU	Physical Assignment data
SBUS_TLN.DAU	Tie Line data
SBUS_SGP.DAU	Source Assignment data

When you click on the **Import** button, the menu below appears, and you can select the imported item.



Note

Location data for the primary station, data of the secondary stations, and data for the third-level devices connected to the BZR-IF310/IF810/IF820 cannot be imported.

Export button

To output information on terminal names, or the registered-device list, to a CSV format file. The CSV format is a general data format supported by calculation software such as Microsoft Excel.

Delete button

To delete the database selected from the Database List

Note

The database selected in Current Database cannot be deleted.

From Device button

To receive all setting data for the primary station to the BZR-2000

To Device button

To send all setting data of the primary station from the BZR-2000

New Database check box

To receive data to the database independent from the data being operated.
This functions for receiving only.

Include Secondaries check box

To specify whether receiving/sending data is to be enabled or not on the secondary stations. This functions for both receiving and sending.

View Log

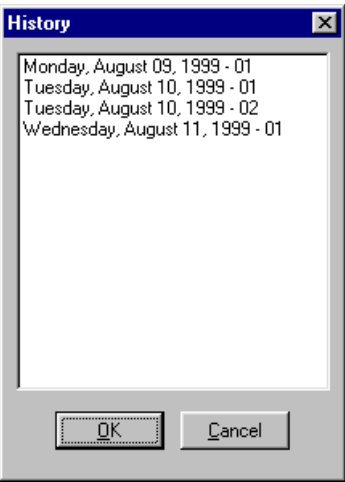
On this submenu, you can check the log files. This command is operable only when the S-BUS connections have been made.

For the interface other than the S-BUS connection, the Menu and Tool bar button on the main window for View Log are not displayed.

Time	Message	Additional Information
15:59:51:	BZR-2000 S-BUS Started	
15:59:53:	STARTED BY BZR-2000 Ver1.20 IN STATION 5	
16:00:16:	STARTED BY BKS-R1607 Ver2.03 IN STATION ..	
16:05:29:	INVALID INPUT OR OUTPUT BOARD IN STATI..	
16:11:19:	VALID INPUT OR OUTPUT BOARD IN STATIO...	
16:11:22:	INVALID INPUT OR OUTPUT BOARD IN STATI..	
16:11:23:	INVALID INPUT OR OUTPUT BOARD IN STATI..	
16:11:25:	INVALID INPUT OR OUTPUT BOARD IN STATI..	
16:11:26:	INVALID INPUT OR OUTPUT BOARD IN STATI..	
16:12:25:	VALID INPUT OR OUTPUT BOARD IN STATIO...	
16:12:27:	VALID INPUT OR OUTPUT BOARD IN STATIO...	
16:12:59:	VALID INPUT OR OUTPUT BOARD IN STATIO...	
16:13:01:	VALID INPUT OR OUTPUT BOARD IN STATIO...	
16:13:16:	INVALID INPUT OR OUTPUT BOARD IN STATI..	
16:14:58:	VALID INPUT OR OUTPUT BOARD IN STATIO...	
16:15:36:	INVALID INPUT OR OUTPUT BOARD IN STATI..	
16:25:27:	STARTED BY DVS-V3232M Ver3.00 IN STATIO..	
16:25:28:	Crosspoint change	Source No. = 193 Destination No. = 193 Level = 1
16:25:28:	Crosspoint change	Source No. = 194 Destination No. = 194 Level = 1
16:25:28:	Crosspoint change	Source No. = 195 Destination No. = 195 Level = 1
16:25:28:	Crosspoint change	Source No. = 196 Destination No. = 196 Level = 1
16:25:28:	Crosspoint change	Source No. = 197 Destination No. = 197 Level = 1
16:25:28:	Crosspoint change	Source No. = 198 Destination No. = 198 Level = 1
16:25:28:	Crosspoint change	Source No. = 199 Destination No. = 199 Level = 1
16:25:28:	Crosspoint change	Source No. = 200 Destination No. = 200 Level = 1
16:25:28:	Crosspoint change	Source No. = 201 Destination No. = 201 Level = 1
16:25:28:	Crosspoint change	Source No. = 202 Destination No. = 202 Level = 1
16:25:28:	Crosspoint change	Source No. = 203 Destination No. = 203 Level = 1
16:25:28:	Crosspoint change	Source No. = 204 Destination No. = 204 Level = 1
16:25:28:	Crosspoint change	Source No. = 205 Destination No. = 205 Level = 1
16:25:28:	Crosspoint change	Source No. = 206 Destination No. = 206 Level = 1
16:25:28:	Crosspoint change	Source No. = 207 Destination No. = 207 Level = 1

4-2 Main Window

You can select a log file by selecting History from Menu.



Terminal

On this submenu, you can start a program assigned in Terminal Emulator on the Preference setting page of the Setup dialog box.
If not assigned, the Menu and Tool bar button on the main window for Terminal are not displayed.

Tool

On this submenu, you can start an external program assigned in Tool on the Preference setting page of the Setup dialog box.
If not assigned, the Menu and Tool bar button on the main window for Tool are not displayed.

Primary Networking

When multiple primary stations are used, you can start the setting software assigned in Primary Networking on the Preference setting page of the Setup dialog box.
If not assigned, the Menu and Tool bar button on the main window for Primary Networking are not displayed.

4-2-6 Window Menu

When several setting windows of BZR-2000 are open on the screen, click on the window name you wish to be displayed in front.

4-2 Main Window

4-2-7 Help Menu

BZR-2000 Help

You can display Help on how to use BZR-2000.

About BZR-2000

The version and copyright information of BZR-2000 is displayed.

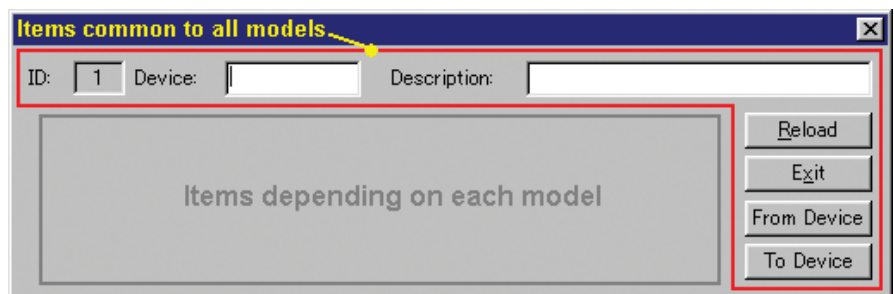


4-3 Settings for Devices

To display device setting dialog boxes, right-click the icon of a device for which you wish to make settings in the right-hand window of the S-BUS Device Configuration dialog box (Device menu), then left-click on Properties. Some setting items are common to all devices, and other settings differ from device to device.

For details on the S-BUS Device Configuration dialog box, see “4-2-2 Device Menu.”

4-3-1 Setting Items Common to All Devices



Operation

The following setting items are common to all devices.

ID

The value is fixed to 1 when the device is registered as the primary station. When the device is registered as a secondary station, an ID No. of 2 or higher is set, in the order of registration. The ID No. can be changed in List Mode of S-BUS Device Configuration of the Device menu.

Device

Any device name can be specified.

Description

Any comment for the device can be entered.

Reload button

To reload the setting data

Exit button

To close Properties dialog box

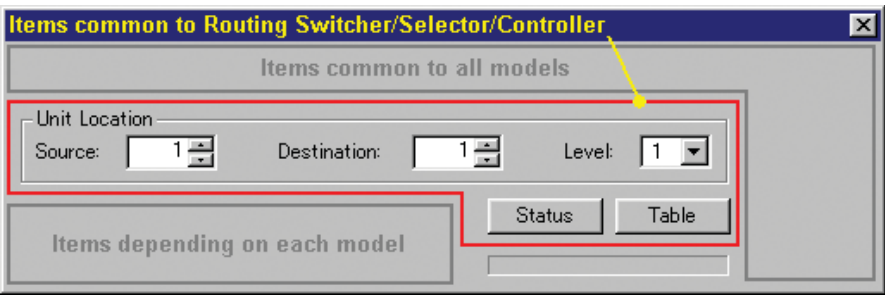
From Device button

To read the setting data from the device

To Device button

To send the setting data to the device

4-3-2 Setting Items Common to the Routing Switcher/Selector/Controller



The following setting items are common to all Routing Switcher/Selector/Controller models:

Unit Location

Assign the offset location and the level on the matrix on which the device is to be located.

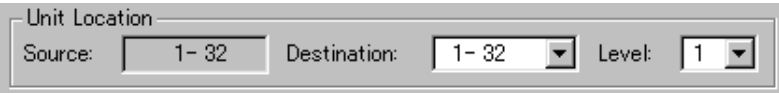
Source: Assign the offset location of a Source device.

Destination: Assign the offset location of a Destination device.

Level: Assign the level at which the device is to be located.

Note

There are some limitations on assignment of Sources and Destinations, depending on the device.



Settings common to the BVS-A3232/V3232 and DVS-A3232/TC3232

Source: Source is determined when Destination is specified (not specifiable).

Destination: The offset location is specified in units of 32 channels.

Settings for the DVS-RS1616

Source: Source is determined when Destination is specified (not specifiable).

Destination: The offset location is specified in units of 16 channels.

Status button

The status data of the device are displayed. This functions only in the online operation.

Example: Status display for the DVS-128

Status

Model & Version:
DVS-128 V1.00

Board Status:

Board	Validity	Signal
Input 1-32	Valid	Analog Video
Input 33-64	Valid	Analog Video
Input 65-96	Valid	Analog Video
Input 97-128	Valid	Analog Video
Output 1-32	Valid	Analog Video
Output 33-64	Valid	Analog Video
Output 65-96	Valid	Analog Video
Output 97-128	Valid	Analog Video

Power Supply Status:
A Valid
B Valid

Standby CPU Status:
Invalid

OK

Example: Status display for the HDS-X3700

Status

Model & Version:
HDS-X3700 V1.00

Board Status:

MAIN Board	Validity	Signal	CN 01-16	CN 17-32	R
Input 1-32	Valid	HD-SDI	HD-SDI	SD-SDI	
Input 33-64	Valid	HD-SDI	Invalid	HD-SDI	
Input 65-96	Valid	SD-SDI	SD-SDI	SD-SDI	
Input 97-128	Valid	SD-SDI	SD-SDI	SD-SDI	
Output 1-32	Valid	HD-SDI	HD-SDI	SD-SDI	A
Output 33-64	Valid	HD-SDI	HD-SDI	HD-SDI	A
Output 65-96	Valid	HD-SDI	SD-SDI	SD-SDI	B
Output 97-128	Valid	SD-SDI	SD-SDI	SD-SDI	A

Power Supply Status:
A Valid
B Valid

Standby CPU Status:
Invalid

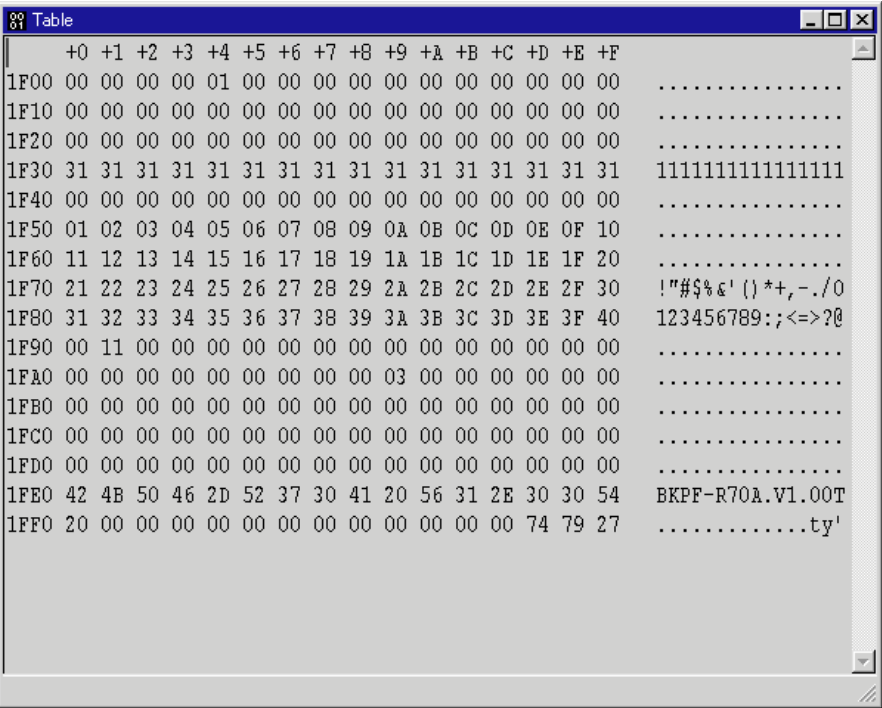
Unit Temperature:
OK

OK

Table button

The table data for the device are displayed. This functions only in the online operation.

Example: Table data display



	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F	
1F00	00	00	00	00	00	01	00	00	00	00	00	00	00	00	00	00	.....
1F10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
1F20	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
1F30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	1111111111111111
1F40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
1F50	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	10	.....
1F60	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	20	.....
1F70	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F	30	!"#\$%&'()*+,-./0
1F80	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F	40	123456789:;<=>?@
1F90	00	11	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
1FA0	00	00	00	00	00	00	00	00	00	00	03	00	00	00	00	00	.....
1FB0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
1FC0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
1FD0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
1FE0	42	4B	50	46	2D	52	37	30	41	20	56	31	2E	30	30	54	BKPF-R70A.V1.00T
1FF0	20	00	00	00	00	00	00	00	00	00	00	00	00	74	79	27	.....ty'

4-3-3 Settings for the BKDS-7700 and Switcher System Control Unit (SCU)

MVS-8000

ID: 2 Device: Description:

Unit Location
Source: 1 Destination: 1 Level: 1

Reload
Exit

Status Table From Device
To Device

Model Name : MVS-8000

Matrix Size
Input : 138 Output (Bus) : 136

Model Name

Specify the name of the switcher connected to the BKDS-7700 or Switcher System Control Unit. Default for the BKDS-7700 is “BKDS-7700,” and that for the Switcher System Control Unit is “MVS-8000.”

Matrix Size

Specify the size of the input matrix of the switcher connected to the BKDS-7700 or Switcher System Control Unit. The size set here will be reflected in the matrix size for each device displayed in Routing Switcher Location Setup.

4-3-4 Settings for the BKPF-R70/R70A and HKSP-R80

BKPF-R70

ID: 2

Device:

Description:

Unit Location

Source: 1

Destination: 1

Level: 1

Reload

Exit

☐ Crosspoint Area Box

Status

Table

From Device

To Device

Switching Field: ASYNC

Signal Format

Source Formats:

Input	Format
1-8	4:2:2
9-16	4:2:2
17-24	4:2:2
25-32	4:2:2
33-40	4:2:2
41-48	4:2:2
49-56	4:2:2
57-64	4:2:2

Destination Formats:

Output	Format
1-8	4:2:2
9-16	4:2:2
17-24	4:2:2
25-32	4:2:2
33-40	4:2:2
41-48	4:2:2
49-56	4:2:2
57-64	4:2:2

Format

☒ 4:2:2

☐ 4fsc 525

☐ 4fsc 625

Crosspoint Area Box check box

Specify whether to display the virtual crosspoints (VMTX) of the BKPF-R70/R70A or HKSP-R80 in the Routing Switcher Location Setup window.

Switching Field

Assign timing for switching signals.

ASYNC: Signals are switched at the point where the switching command is received.

ODD: Signals are switched at the beginning of the first odd field immediately after the switching command is received.

EVEN: Signals are switched at the beginning of the first even field immediately after the switching command is received.

FIELD: Signals are switched at the beginning of the first field immediately after the switching command is received.

Signal Format (BKPF-R70 only)

The signal formats for Sources and Destinations can be assigned in units of 8 channels.

On the Source Formats or Destination Formats list, double-click on the line you wish to change. The Format changes cyclically among 4:2:2, 4fsc 525 and 4fsc 625.

To specify the same format for several lines, select the desired lines on the list, then click on the desired option button in the Format group box to place a black dot inside.

Matrix Size (HKSP-R80 only)

If the virtual crosspoints (VMTX) are displayed, specify the area size.

There is no specific setting item for the BKPF-R70A.
See “4-3-1 Setting Items Common to All devices” and “4-3-2 Setting Items Common to the Routing Switcher/Selector/Controller.”

4-3-5 Settings for the BKPF-300/301/350/351

Destination Format

Select a Destination Format from the dropdown list. The selectable format is 4:2:2, 4fsc 525 or 4fsc 625.

There is no specific setting item for the BKPF-301/350/351.
See “4-3-1 Setting Items Common to All Devices” and “4-3-2 Setting Items Common to the Routing Switcher/Selector/Controller.”

4-3-6 Settings for the BVS-A3232 and BVS-V3232

There is no specific setting item for the BVS-V3232/A3232.
See “4-3-1 Setting Items Common to All Devices” and “4-3-2 Setting Items Common to the Routing Switcher/Selector/Controller.”

4-3-7 Settings for the DVS-128

Switching Field A/B

Assign timing for switching signals.

ASYN: Signals are switched at the point where the switching command is received.

ODD: Signals are switched at the beginning of the first odd field immediately after the switching command is received.

EVEN: Signals are switched at the beginning of the first even field immediately after the switching command is received.

FIELD: Signals are switched at the beginning of the first field immediately after the switching command is received.

4-3 Settings for Devices

4-3-8 Settings for the DVS-A3232 and DVS-TC3232

See “4-3-1 Setting Items Common to All Devices” and “4-3-2 Setting Items Common to the Routing Switcher/Selector/Controller.”

4-3-9 Settings for the DVS-RS1616

DVS-RS1616

ID: 6 Device: Description:

Unit Location
Source: 1-16 Destination: 1-16 Level: 1

Reload
Exit

Operation Mode
☒ 16 x 16 ☐ 32 x 32

Status Table From Device
To Device

Connections

Input		Output	
Terminal	Direction	Terminal	Direction
1	Slave	1	Slave
2	Slave	2	Slave
3	Slave	3	Slave
4	Slave	4	Slave
5	Slave	5	Slave
6	Slave	6	Slave
7	Slave	7	Slave
8	Slave	8	Slave
9	Slave	9	Slave

Direction
☒ Master ☐ Slave

Operation Mode

Select either 16 × 16 mode or 32 × 32 mode according to the setting of the DIP switch of the DVS-RS1616 main unit.

Connections

Select either Master or Slave for each Input or Output terminal. Double-click on any line you wish to change between Master and Slave.
To specify Master or Slave for several lines, select the desired lines on the list, then click on either of the option buttons in the Direction group box to place a black dot inside.

4-3-10 Settings for the DVS-V1616

DVS-V1616

ID: 11 Device: Description:

Unit Location

Source: 1 Destination: 1 Level: 1

Reload Exit

Status Table From Device To Device

Signal Format

Source Formats:

Input	Format
0	4:2:2
1	4:2:2
2	4:2:2
3	4:2:2
4	4:2:2
5	4:2:2
6	4:2:2
7	4:2:2
8	4:2:2

Destination Formats:

Output	Format
0	4:2:2
1	4:2:2
2	4:2:2
3	4:2:2
4	4:2:2
5	4:2:2
6	4:2:2
7	4:2:2
8	4:2:2

Signal Format

The signal formats for Sources and Destinations are displayed by channel. No setting is allowed.

4-3-11 Settings for the DVS-V3232, DVS-V3232B, DVS-V3232M, DVS-V6464, DVS-V6464B, and DVS-V6464M

DVS-V6464B

ID: 14Device: Description:

Unit LocationSource: 1Destination: 1Level: 1

ReloadExitStatusTableFrom DeviceTo Device

Switching Field: ASYNC

Signal Format

Source Formats:		Destination Formats:	
Input	Format	Output	Format
1-8	4:2:2	1-8	4:2:2
9-16	4:2:2	9-16	4:2:2
17-24	4:2:2	17-24	4:2:2
25-32	4:2:2	25-32	4:2:2
33-40	4:2:2	33-40	4:2:2
41-48	4:2:2	41-48	4:2:2
49-56	4:2:2	49-56	4:2:2
57-64	4:2:2	57-64	4:2:2

Format

☐ 4:2:2☐ 4fsc 525☐ 4fsc 625

Switching Field

Assign timing for switching signals.

ASYNC: Signals are switched at the point where the switching command is received.

ODD: Signals are switched at the beginning of the first odd field immediately after the switching command is received.

EVEN: Signals are switched at the beginning of the first even field immediately after the switching command is received.

FIELD: Signals are switched at the beginning of the first field immediately after the switching command is received.

Note

This setting item is not available for the DVS-V3232/V6464.

Signal Format

The signal formats for Sources and Destinations can be assigned in units of 8 channels.

On the Source Formats or Destination Formats list, double-click on the line you wish to change. The Format changes cyclically among 4:2:2, 4fsc 525 and 4fsc 625.

To specify the same format for several lines, select the desired lines on the list, then click on any desired option button in the Format group box to place a black dot inside.

Note

This setting item is not available for the DVS-V3232M/V6464M.

4-3-12 Settings for the HDS-X3400, HDS-X3600, and HDS-X3700

The screenshot shows the 'HDS-X3700' configuration window. At the top, there are fields for 'ID' (set to 7), 'Device', and 'Description'. Below these is the 'Unit Location' section with 'Source' (set to 1), 'Destination' (set to 1), and 'Level' (set to 1). To the right of these are 'Reload' and 'Exit' buttons. The 'Switching Field A' and 'Switching Field B' are both set to 'ASYNC'. To the right of these are 'Status', 'Table', 'From Device', and 'To Device' buttons. At the bottom, there is a 'Reference Selection' table with four rows and two columns, A and B, each with a radio button.

Reference Selection:	A	B
Output 1 - 32	<input checked="" type="radio"/>	<input type="radio"/>
Output 33 - 64	<input checked="" type="radio"/>	<input type="radio"/>
Output 65 - 96	<input type="radio"/>	<input checked="" type="radio"/>
Output 97 -128	<input type="radio"/>	<input checked="" type="radio"/>

Switching Field A/B

Assign timing for switching signals.

ASYNC: Signals are switched at the point where the switching command is received.

ODD: Signals are switched at the beginning of the first odd field immediately after the switching command is received.

EVEN: Signals are switched at the beginning of the first even field immediately after the switching command is received.

FIELD: Signals are switched at the beginning of the first field immediately after the switching command is received.

Reference Selection A/B

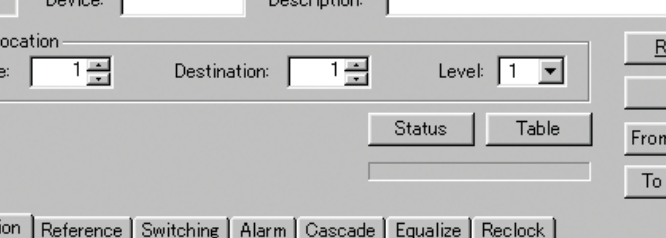
A reference signal to switch the crosspoint is selected.

Note

The selectable range is limited, depending on the model.

4-3-13 Settings for the HDS-X5800

Partition page



HDS-X5800

ID: Device: Description:

Unit Location

Source: Destination: Level:

Partition | Reference | Switching | Alarm | Cascade | Equalize | Reclock

	From	To	Size
Destination Partition 1:	<input type="text" value="1"/>	<input type="text" value="100"/>	<input type="text" value="272"/>
Destination Partition 2:	<input type="text" value="---"/>	<input type="text" value="272"/>	<input type="text" value="---"/>
Destination Partition 3:	<input type="text" value="---"/>	<input type="text" value="---"/>	<input type="text" value="---"/>

Destination Partition 1/2/3

Divide the Destination into two or three blocks. The Routing Switcher System always uses Destination Partition 1, and the other blocks are used for an expanded matrix such as an MVS-8000 switcher.

Reference page

HDS-X5800

ID: 1

Device:

Description:

Unit Location

Source: 1

Destination: 1

Level: 1

Reload

Exit

Status

Table

From Device

To Device

Partition

Reference

Switching

Alarm

Cascade

Equalize

Reclock

Output	A	B	C	D
1-17	x			
18-34	x			
35-51	x			
52-68	x			
59-85	x			
86-102	x			
103-119	x			

The Reference to be used is to be selected from among A, B, C, or D for each of the 17 outputs.

Switching page

HDS-X5800

ID: 1

Device:

Description:

Unit Location

Source: 1

Destination: 1

Level: 1

Reload

Exit

Status

Table

From Device

To Device

Partition

Reference

Switching

Alarm

Cascade

Equalize

Reclock

Timing

Details

Reference A: ASYNC

Manu

Reference B: ODD

Manu

Reference C: EVEN

Manu

Reference D: FIELD

Manu

Line: Auto

Auto

Delay: 30usec

Line: 1125

Auto

Delay: Auto

Settings for switching fields, or other details for each Reference A, B, C or D can be made.

Chapter 4 Operation 4-57

Timing

Specify a field for switching a signal.

ASync: A signal is switched upon receipt of a switching command.

ODD: A signal is switched at the top of the odd field just after a switching command is received.

EVEN: A signal is switched at the top of the even field just after a switching command is received.

FIELD: A signal is switched at the top of the field after a switching command is received.

Details

Specify the line number for switching a signal, or delay time from the starting point of the line.

Manu button: Line and Delay can be specified when pressed.

Line: The line number for switching a signal can be specified from 0 to 1125. When you click the **Auto** button, automatic selection is set.

Delay: The time delay from the starting point of the line for switching a signal can be selected from among 30 μ s, 15 μ s, 10 μ s, and Auto.

Alarm page

HDS-X5800

ID: 1

Device:

Description:

Unit Location

Source: 1

Destination: 1

Level: 1

Reload

Exit

Status

Table

From Device

To Device

Partition

Reference

Switching

Alarm

Cascade

Equalize

Reclock

Error Contents	1	2	3	4	5	6
Sync Singal			x		x	
Control				x	x	
Power Supply A	x			x	x	
Power Supply B		x		x	x	
Battery Backup			x	x	x	
Crosspoint			x	x	x	

Output Logic 1 2 3 4 5 6

Active LOW, check for active HIGH

Error Contents

Select error contents from among 12 items such as Sync Signal, and specify them for each alarm output of up to six lines.

Multiple items can be logically composed to a single line of alarm output.

Output Logic

Specify the output logic for each alarm output. No check mark specifies LOW active.

Cascade page

Operation

Settings for the cascade connections can be made.

Input

This system uses a dummy signal to obtain a stable output signal upon switching a crosspoint. Specify the input connector number to which the dummy signal is to be entered.

When you click the **Cascade** button, a cascade input is specified.

No Equipment Slot

Specify the number of the lowest-numbered slot where an output matrix board has been installed but no corresponding cascade input board has been installed. Specifying “0” means that the same number of output matrix boards and cascade input boards have been installed.

Equalizer page

HDS-X5800

ID: 1

Device:

Description:

Unit Location

Source: 1

Destination: 1

Level: 1

Reload

Exit

Status

Table

From Device

To Device

Partition

Reference

Switching

Alarm

Cascade

Equalize

Reclock

Input	Bypass	
1-8		
9-17	x	
18-25		
26-33	x	
34-41	x	
42-50		

Bypass
Specify whether to equalize the input signals on the input connector board applicable to multiple bit rates in units of 8 or 9 inputs.
Not checked: Automatic equalizing circuit enabled
Checked: Signal bypassing the equalizing circuit

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Reclock page

HDS-X5800

ID: 1

Device:

Description:

Unit Location

Source: 1

Destination: 1

Level: 1

Reload

Exit

Status

Table

From Device

To Device

Partition

Reference

Switching

Alarm

Cascade

Equalize

Reclock

Output	Signal	Bypass	
1-8	DVB-ASI		
9-17	SMPTE	x	
18-25	DVB-ASI		
26-34	SMPTE		
35-42	SMPTE	x	
43-51	SMPTE		

Settings for reclocking the output signals on the matrix board applicable to multiple bit rates can be made.

Signal

Specify the standards for locking the reclocking circuit in units of 8 or 9 outputs.

SMPTE: The SMPTE standards are used to lock the reclocking circuit.

DVB-ASI: The DVB-ASI standards are used to lock the reclocking circuit.

Bypass

Specify whether the output signals are to be reclocked or not in units of 8 or 9 inputs.

Not checked: Reclocked signal actually output

Checked: Output signals not reclocked

4-3-14 Settings for the HKSP-061M

The screenshot shows the HKSP-061M configuration window. It includes fields for ID (8), Device, and Description. The 'Unit Location' section has Source (1), Destination (1), and Level (1) dropdowns. The 'Expand' section has ID (9) and Destination (5) dropdowns. The 'Reference' section has radio buttons for A and B. The 'Reclock Bypass' section has checkboxes for Output1, Output2, Output3, and Output4. The 'Switching Field' section has a dropdown for FIELD, a 'Details' button, a 'Line' field (11), an 'Auto' button, and a 'Delay' field (Auto). There are also buttons for 'Reload', 'Exit', 'Status', 'Table', 'From Device', and 'To Device'.

Expand

ID: Specify S-BUS ID for the paired HKSP-061M when two HKSP-061Ms are used for expanding the number of crosspoints.

Destination: Specify Destination for the Unit Location of the paired HKSP-061M when two HKSP-061M are used for expanding the number of crosspoints.

Reference (A or B)

Select the reference for switching crosspoint.

Reclock Bypass

Specify whether to reclock the output signals or not in units of 4 outputs.

Switching Field

Specify a field for switching a signal.

ASYN: A signal is switched upon receipt of a switching command.

ODD: A signal is switched at the top of the odd field just after a switching command is received.

EVEN: A signal is switched at the top of the even field just after a switching command is received.

FIELD: A signal is switched at the top of the field just after a switching command is received.

Details

Specify the line number for switching a signal, or delay time from the starting point of the line.

Manu button: Line and Delay can be specified when pressed.

Line: The line number for switching signal can be specified from 0 to 1125. When you click the **Auto** button, automatic selection is set.

Delay: The time delay from the starting point of the line for switching a signal can be selected from among 30 μ s, 15 μ s, 10 μ s, and Auto.

4-3-15 Settings for the IXS-6600/6700

Refer to the SYSTEM SETUP MANUAL for the IXS-6600/6700.

The screenshot shows a software window titled "IXS-6700". Inside, there are fields for "ID:" (set to 9), "Device:", and "Description:". Below these is a "Unit Location" section with four tabs: "Video", "Audio", "RS-422", and "Time Code". The "Video" tab is selected. Within this tab, there are "Source:" and "Destination:" dropdown menus (both set to 1), a "Level:" dropdown menu (set to 1), a checked "Crosspoint Enable" checkbox, and a "Name:" text field containing the word "Video". To the right of the tabs are buttons for "Reload", "Exit", "From Device", and "To Device". At the bottom of the window are "Status" and "Table" buttons.

The IXS-6600/6700 can handle multiple signals so that it has four sets of Unit Location. For setting, select a page by clicking the corresponding tab.

Crosspoint Enable

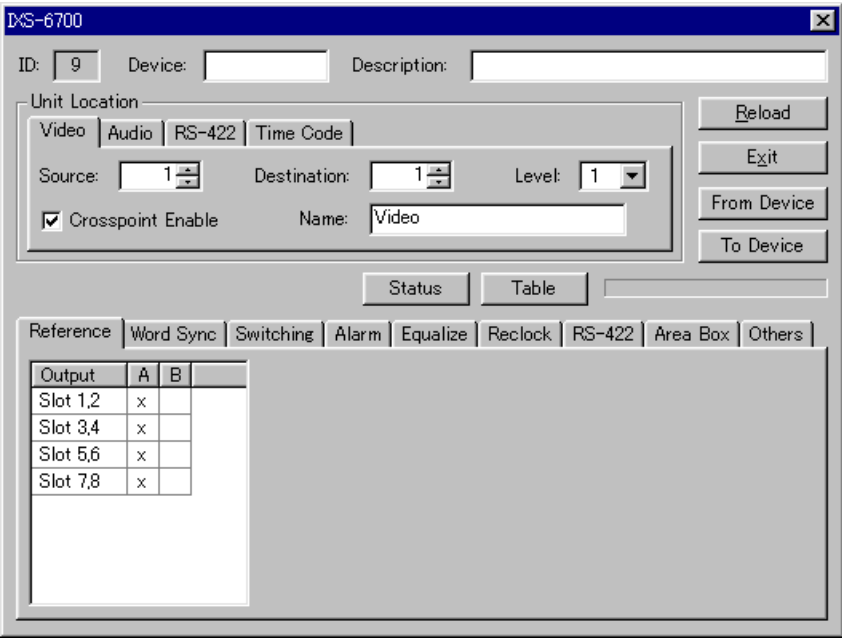
Set whether the hardware corresponding to the signal on the selected page is installed in the IXS-6600/6700 or not.

Name

Set the name to distinguish the signal in the Routing Switcher Location Setup window or in the Physical Assignment Configuration window when one unit of the IXS-6600/6700 is to handle multiple signals.

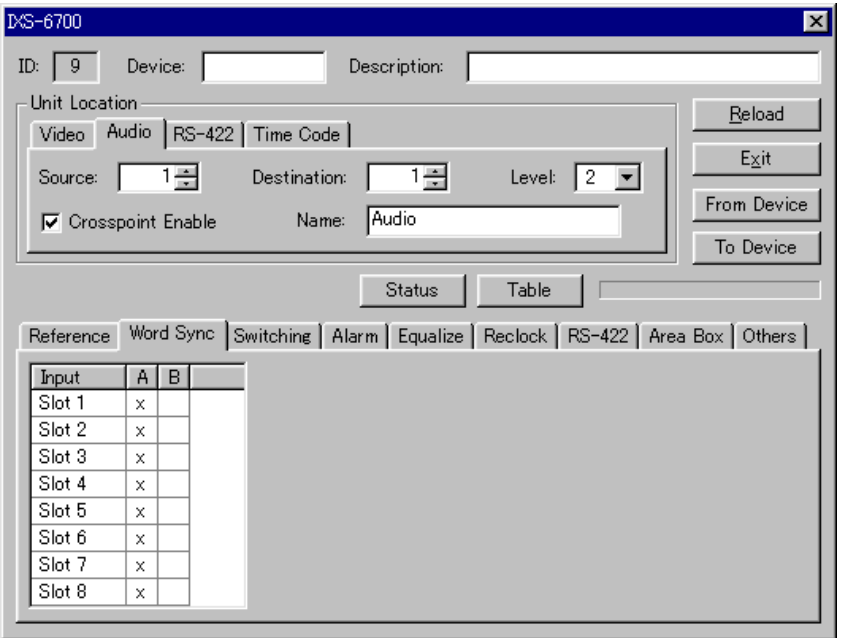
The name set here will be the name of the page in Unit Location.

Reference page



The Reference to be used may be selected from A or B for each of the 34 outputs.

Word Sync page



The Word Sync to be used may be selected from A or B for each of the 32 inputs.
The IXS-6600 does not have this page.

Switching page

XS-6700

ID: 9 Device: Description:

Unit Location

Video Audio RS-422 Time Code

Source: 1 Destination: 1 Level: 1

☒ Crosspoint Enable Name: Video

Reload Exit From Device To Device

Status Table

Reference Word Sync Switching Alarm Equalize Reclock RS-422 Area Box Others

Timing Details

Reference A: EVEN Manu Line: Auto Auto Delay: 30usec

Reference B: FIELD Manu Line: 2 Auto Delay: Auto

Settings for switching fields, or other details for each Reference A or B, can be made.

Timing

Specify a field for switching a signal.

ASYNCR: A signal is switched upon receipt of a switching command.

ODD: A signal is switched at the top of the odd field just after a switching command is received.

EVEN: A signal is switched at the top of the even field just after a switching command is received.

FIELD: A signal is switched at the top of the field after a switching command is received.

Details

Specify the line number for switching a signal or delay time from the starting point of the line.

Manu button: Line and Delay can be specified when pressed.

Line: The line number for switching a signal can be specified from 0 to 1125. When you click the **Auto** button, automatic selection is set.

Delay: The time delay from the starting point of the line for switching a signal can be selected from among 30 μ s, 15 μ s, 10 μ s, and Auto.

Alarm page

IXS-6700

ID: 9Device:Description:

Unit Location

VideoAudioRS-422Time Code

Source: 1Destination: 1Level: 1

☒ Crosspoint EnableName: Video

Reload

Exit

From Device

To Device

Status

Table

ReferenceWord SyncSwitchingAlarmEqualizeReclockRS-422Area BoxOthers

Error Contents	1	2	3	4	5	6
Sync Singal			x		x	
Control				x	x	
Power Supply A	x			x	x	
Power Supply B		x		x	x	
Battery Backup			x	x	x	
Crosspoint			x	x	x	

Output Logic

123456

☐☐☐☐☒☐

Active LOW, check for active HIGH

Error Contents

Select error contents from among 12 items, such as Sync Signal, and specify them for each alarm output of up to six lines (four lines for the IXS-6600). Multiple items can be logically composed to a single line of alarm output.

Output Logic

Specify the output logic for each alarm output. No check mark specifies LOW Active.

Equalizer page

XS-6700

ID: 9Device: Description:

Unit Location

VideoAudioRS-422Time Code

Source: 1Destination: 1Level: 1

☒ Crosspoint EnableName: Video

ReloadExitFrom DeviceTo Device

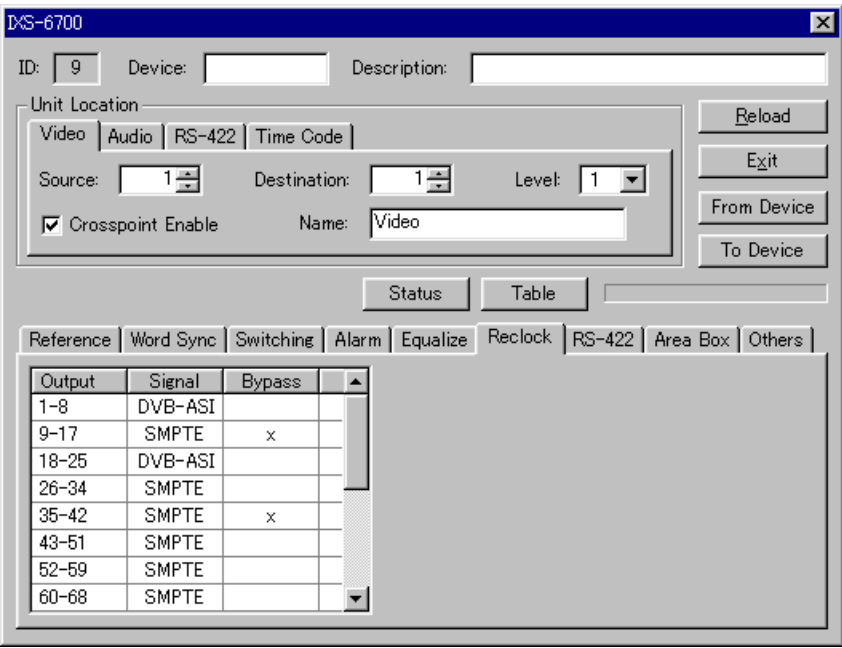
StatusTable

ReferenceWord SyncSwitchingAlarmEqualizeReclockRS-422Area BoxOthers

Input	Bypass
1-8	
9-16	x
17-24	
25-32	x
33-40	x
41-48	
49-54	
55-64	

Bypass
Specify whether to equalize the input signals on the input connector board applicable to multiple bit rates, in units of 8 inputs.
Not checked: Automatic equalizing circuit enabled
Checked: Signal bypassing the equalizing circuit

Reclock page



Settings for reclocking the output signals on the matrix board applicable to multiple bit rates can be made, in units of 8 or 9 outputs.

Signal

Specify the standards for locking the reclocking circuit.

SMPTE: The SMPTE standards are used to lock the reclocking circuit.

DVB-ASI: The DVB-ASI standards are used to lock the reclocking circuit.

Bypass

Specify whether the output signals are to be reclocked or not, in units of 8 or 9 inputs.

Not checked: Reclocked signal actually output

Checked: Output signals not reclocked

RS-6700

ID: 9

Device:

Description:

Unit Location

Video

Audio

RS-422

Time Code

Source: 1

Destination: 1

Level: 3

☒ Crosspoint Enable

Name: RS-422

Reload

Exit

From Device

To Device

Status

Table

Reference

Word Sync

Switching

Alarm

Equalize

Reclock

RS-422

Area Box

Others

Input:

Output:

Direction

☐ Master

☒ Subordinate

☒ Source Protect Mode

☒ I/O Mix Mode

☐ Multi Drop Mode

Terminal	Direction
1	Master
2	Master
3	Master
4	Master
5	Master
6	Master
7	Master

Terminal	Direction
1	Subordinate
2	Subordinate
3	Subordinate
4	Subordinate
5	Subordinate
6	Subordinate
7	Subordinate

Input, Output

Select Master or Subordinate for each Input and Output connector. Double-click the line whose setting is to be changed on the Input or Output list. This toggles the setting between Master and Subordinate. Settings can be made for multiple connectors by selecting multiple lines on the list then selecting an option button in the Direction group box.

Source Protect Mode

Specify whether Source Protect Mode is to be enabled or not.

I/O Mix Mode

Specify whether I/O Mix Mode is to be enabled or not.

Multi Drop Mode

Specify whether Multi Drop Mode is to be enabled or not.

Area Box page

IXS-6700

ID: 9Device:Description:

Unit Location

VideoAudioRS-422Time Code

Source: 1Destination: 1Level: 1

☒ Crosspoint EnableName: Video

Reload

Exit

From Device

To Device

Status

Table

ReferenceWord SyncSwitchingAlarmEqualizeReclockRS-422Area BoxOthers

Video

FromToSize

Input: 1128128

Output: 1136136

RS-422

FromToSize

Input: 1128128

Output: 1128128

Audio

FromToSize

Input: 1256256

Output: 1272272

Time Code

FromToSize

Input: 1128128

Output: 1136136

In the Routing Switcher Location Setup window or Physical Assignment Configuration window, the crosspoint area for the IXS-6600/6700 is specified for each signal by designating the connector number range (From to To) for each Input and Output.

As default, the maximum numbers are set assuming that one unit of the IXS-6600/6700 handles a single signal: Video, Audio, RS-422, or Time Code. If the unit handles multiple signals, the crosspoint area for one signal is reduced, which requires the settings for the actually installed hardware.

For any signal the hardware for which is not installed, uncheck the Crosspoint Enable check box on the corresponding page in Unit Location.

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IXS-6700

ID: 9Device: Description:

Unit Location

VideoAudioRS-422Time Code

Source: 1Destination: 1Level: 2

☒ Crosspoint EnableName: Audio

Reload

Exit

From Device

To Device

Status

Table

ReferenceWord SyncSwitchingAlarmEqualizeReclockRS-422Area BoxOthers

Update Mode

Lock

☒ Slot 2☒ Slot 4☒ Slot 6☒ Slot 10☒ Slot 12☒ Slot 14☒ Slot A☒ Slot B

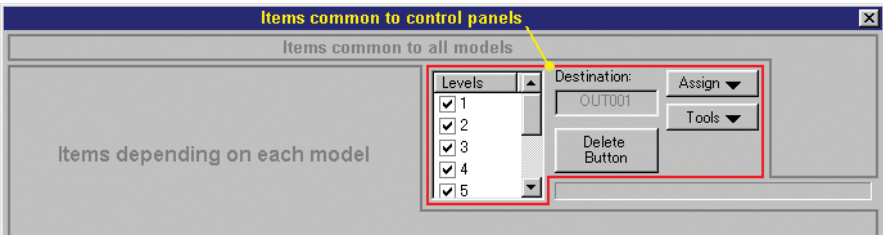
Update Mode
When updating the firmware, specify whether the firmware is to be distributed to the subprocessor on the board installed in each slot of the IXS-6600/6700. Normally these settings are not changed.

Lock
Locks the settings for the distribution of the firmware.

Slot nn
Sets whether the firmware is to be distributed to the subprocessor on the board installed in the corresponding slot or not.

4-3-16 Setting Items Common to Control Panels

For setting items common to all devices, see “4-3-1 Setting Items Common to All Devices.”



Levels

Select the level to be controlled from the control panel.
No setting is allowed for some devices as shown below.

Model name	Setting status	Remarks
BKS-R1601/R3203/R3204	Only displaying settings on the rear panel	Set with the switch on the rear panel
BKS-R3202/R3205/R3206	No display operation dynamically	Set from the panel
Others	Setting allowed	

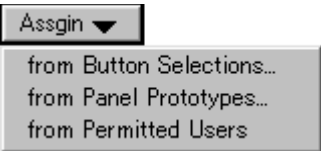
Destination

Specify a Destination to be controlled from the control panel.
Drag and drop a Destination selected from the Destination list of Assign from Button Selections dialog box. This functions only when all buttons are assigned to Source.
For the BKS-R3240A series, setting is always enabled.
For the units other than a BKS-R1601/R3202/R3203, BKS-R3204/R3205/R3206, or BKS-R1607/R1608/R3209/R3210, the settings for Destination is on the Panel page for the items depending on each model.

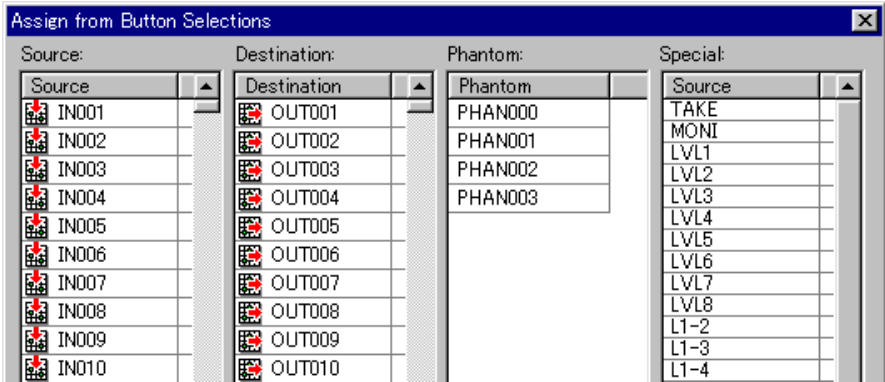
Delete Button button

Select a button name and click this button. The selected button name is deleted, and the indication becomes “.....” on the button.

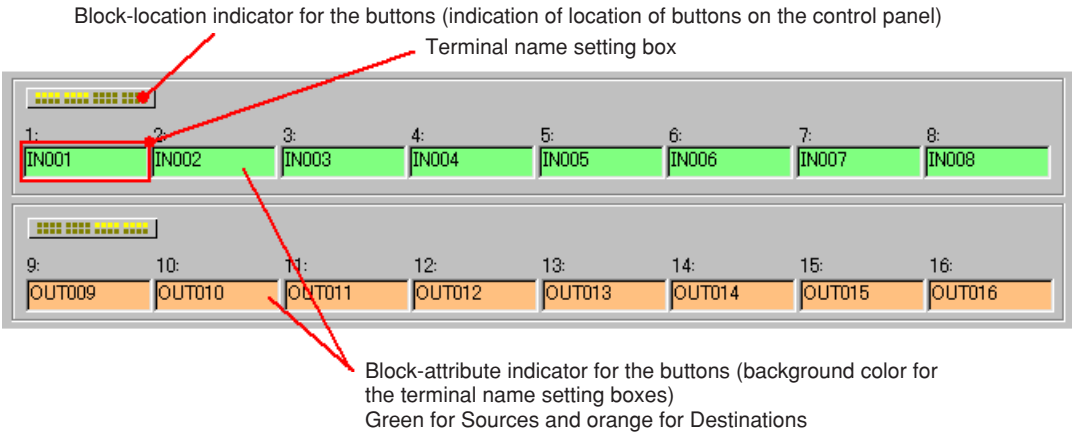
Assign button



from Button Selections



You can select a desired Source, Destination, Phantom or Special (special button) from the corresponding list in the Assign from Button Selection dialog box, and drag and drop it into the Destination: mentioned before or the corresponding terminal name setting box (shown below).
You can also specify a terminal name by selecting a terminal name setting box and double-clicking on the desired line on the list of the Assign from the Button Selection dialog box.



Items that you can drag and drop from the Assign from Button Selection dialog box to a terminal name setting box for each control panel are as shown in the table below.

Model name	Source	Destination	Phantom	Special
BKS-R1601/R3203	Yes	No	Yes	No
BKS-R3202	No	No	No	No
BKS-R3204/R3205/R1607/R1608/ R3209/R3240A/R3242A/R3248A	Yes	Yes	Yes	No
BKS-R3206	Yes ^{a)}	Yes	Yes ^{a)}	No
BKS-R3210	Yes ^{a)}	Yes ^{a)}	Yes ^{a)}	No
BKS-R1617/R1618/R1621/ R3216/R3219	Yes	Yes	Yes	Yes
BKS-R3220	Yes ^{a)}	Yes ^{a)}	Yes ^{a)}	Yes ^{a)}

a) in Direct Selection mode only

from Panel Prototypes

Assign from Panel Prototypes

Button Assignments:

No.	Description
<input type="checkbox"/>	<None>
<input checked="" type="checkbox"/> 1	Assign1

Available Destinations:

No.	Description
<input type="checkbox"/>	<None>
<input checked="" type="checkbox"/> 1	Available1

Selectable Sources:

No.	Description
<input type="checkbox"/>	<None>
<input checked="" type="checkbox"/> 1	Selectable1

Routes:

No.	Description
<input type="checkbox"/>	<None>
<input checked="" type="checkbox"/> 1	Routes1

OK

Cancel

Setting data of the Prototypes for Panels can be selected and set.

from Permitted Users

Assign from Permitted Users

Users:

User	Description
<input checked="" type="checkbox"/> Administrator	
<input type="checkbox"/> Guest	
<input type="checkbox"/> user	

Button Assignments:

No.	Description
<input checked="" type="checkbox"/> 1	Assign1

Routes:

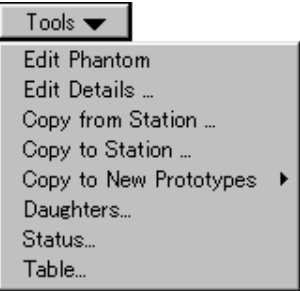
No.	Description
<input checked="" type="checkbox"/> 1	Routes1

OK

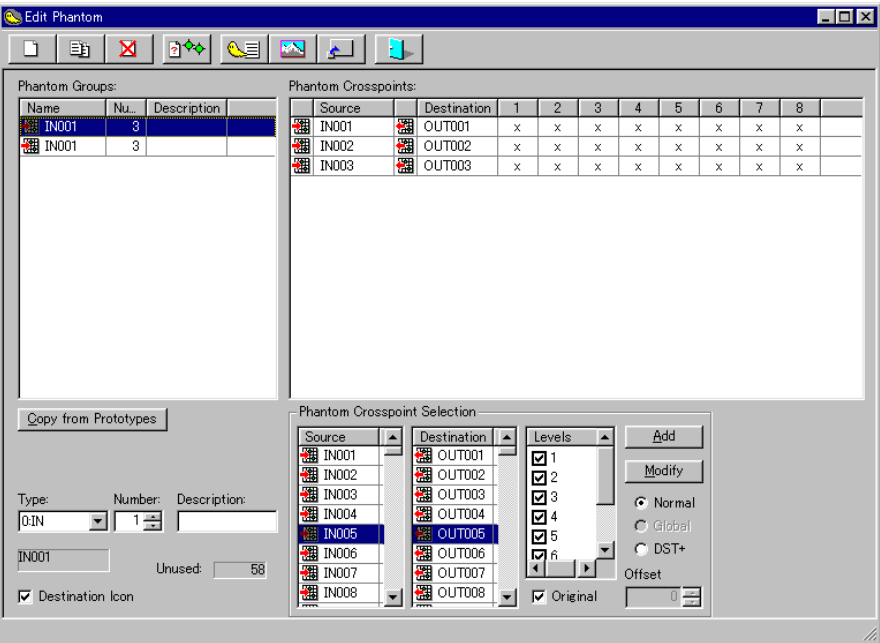
Cancel

The setting data of the prototypes permitted for use by the registered users can be copied.

Tool button



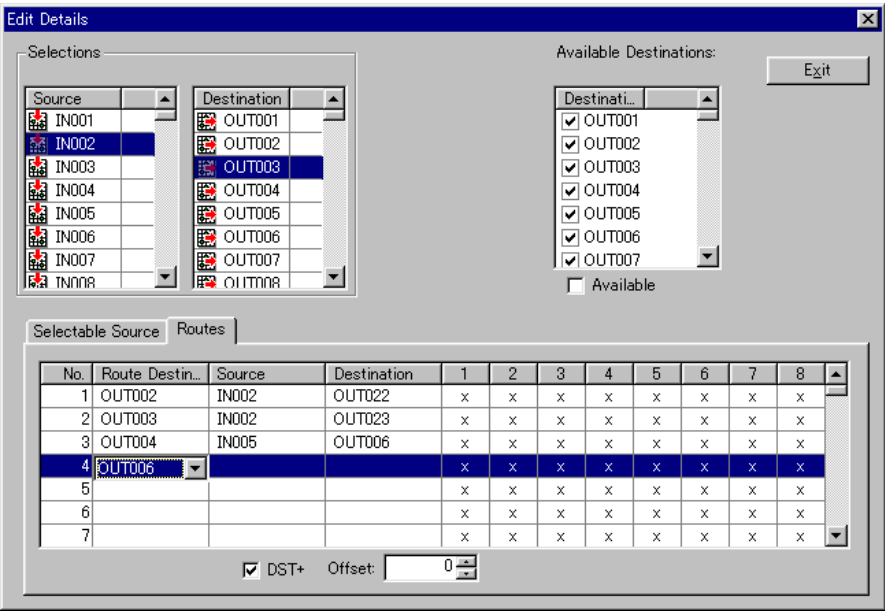
Edit Phantom



Operation

Local Phantom settings can be edited.
You can copy setting data for a prototype already created by clicking on the **Copy from Prototypes** button.

Edit Details



Settings for an Available Destinations, Selectable Sources, Routes, and its DST+ and Offset can be made.

Select a Source or Destination from the list in Selections, and drag and drop it onto the corresponding list. A Source or Destination can also be selected by clicking on a desired box of any list to display the dropdown list for selection.

Items that can be set depend on the devices as shown in the table below.

Model name Destinations	Available	Route & Offset	DST+ Sources	Selectable
BKS-R1601/R3202/ R3203/R3204/ R3205/R3206	Yes	No	No	No
BKS-R1607/R1608/ R3209/R3210	Yes	Yes	No	Yes
BKS-R1617/R1618/ R1621/R3216/ R3219/R3220	Yes	Yes	Yes	Yes

For the BKS-R3240A/R3242A/R3248A that are not listed in the table above, GPIO Table, and Available Sources are added to, but Selectable Sources is deleted from the display as shown below.

Exit

Available Sources:

Available Destinations:

Selections

Source

Destination

GPIO Table

Routes

No

Source

Destination

Mode

1

IN001

OUT001

On Air Tally

2

IN002

OUT002

On Air Tally

3

IN003

OUT003

Entry Tally

4

5

6

7

8

Tally Mode

☒ None

☐ On Air Tally

☐ Preset Tally

☐ Record Tally

☐ Entry Tally

☐ Switch w/Tally

Copy from Station/Copy to Station

OK

Cancel

Panel Selection

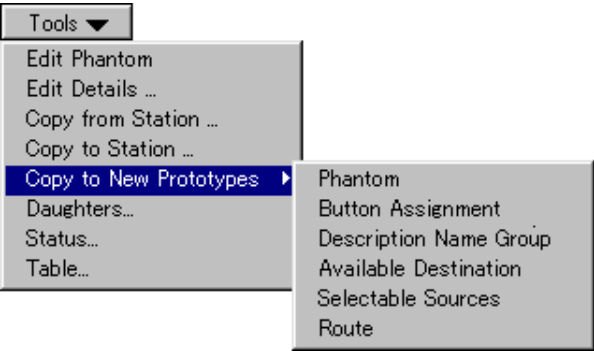
1: BKPF-R70A

4: BZR-IF310

ID	Model	Device	Descript
2	BKS-R3219	DEV_2	
3	BKS-R3216	DEV_3	
6	BKS-R1617	DEV_6	
9	BKS-R3210	DEV_9	
10	BKS-R1608	DEV_10	
11	BKS-R1618	DEV_11	
12	BKS-R3209	DEV_12	
13	BKS-R3204	DEV_13	
14	BKS-R3203	DEV_14	
15	BKS-R3206	DEV_15	

You can read the setting data from other panel (Copy from) or write them to (Copy to) another panel.

Copy to New Prototypes



You can register the setting data as a new prototype in the Prototypes for Panels dialog box.
The selected setting page of the Prototypes for Panels dialog box is displayed. Complete the necessary operation.

Daughters

If the target control panel is set to Mother, the corresponding Daughter list appears.

Status

Device name and firmware version are displayed. This functions only in the online operation.

Table

Table data of the device is displayed. This functions only in the online operation.

4-3-17 Settings for the BKS-R1601/R3202/R3203

All setting items are described in “4-3-1 Setting Items Common to All Devices” and “4-3-16 Setting Items Common to Control Panels.”

BKS-R3203

ID: 14 Device: Description:

Levels: 1 [x] 2 [x] 3 [x] 4 [x] 5 []

Destination: OUT001

Buttons: Reload, Assign, Tools, Delete Button, Exit, From Device, To Device

1: IN001	2: IN002	3: IN003	4: IN004	5: IN005	6: IN006	7: IN007	8: IN008
9: IN009	10: IN010	11: IN011	12: IN012	13: IN013	14: IN014	15: IN015	16: IN016

The number of buttons differs between the BKS-R1601 and BKS-R3203. Only Sources are assigned to the buttons.

The BKS-R3202 has no button settings, and the Type names assigned to the buttons are shown as follows:

BKS-R3202

ID: 20 Device: Description:

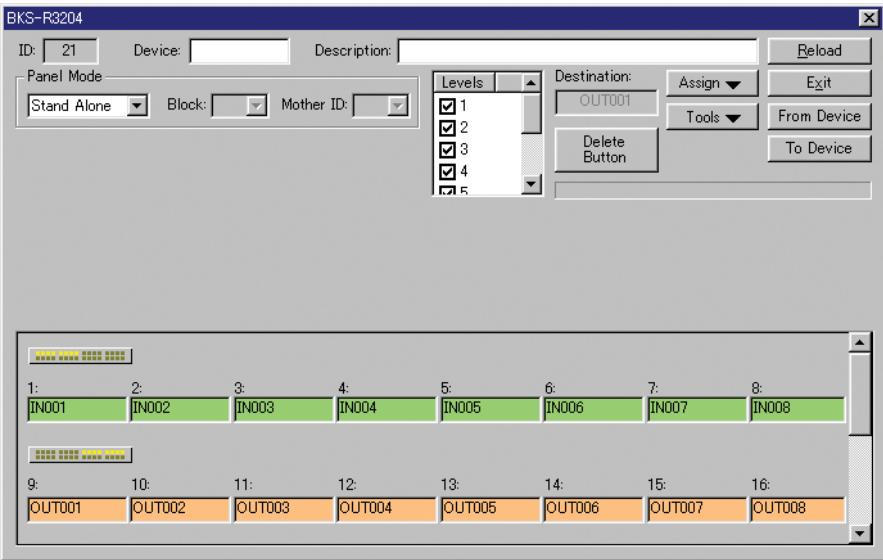
Buttons: Reload, Assign, Tools, Exit, From Device, To Device

1: IN	2: OUT	3: CAM	4: VTR	5: MONI	6: SAT	7: PNT	8: PHAN
9: SS	10: MIC	11: CB	12:	13:	14:	15:	16:

Operation

4-3-18 Setting for the BKS-R3204/R3205/R3206

Almost all of setting items are described in “4-3-1 Setting Items Common to All Devices” and “4-3-16 Setting Items Common to Control Panels.”



The setting items of the BZR-2000 are the same for the BKS-R3204 and BKS-R3205. However, the BKS-R3205 does not display the level. You can make settings on 32 buttons of the BKS-R3204 and BKS-R3205, and on 16 buttons of the BKS-R3206 in Direct Select mode.

Note

Setting of Sources and Destinations must be made in units of 8 buttons because of the hardware construction. For example, buttons 1 to 8 and 17 to 24 are set to Sources, and buttons 9 to 16 and 25 to 32 are set to Destinations. If button 1 is set to Source and buttons 2 and 3 are set to Destination, the BKS-R3204/R3205/R3206 cannot operate correctly.

Panel Mode

Select the panel mode from among Stand Alone, Mother and Daughter. The BKS-R3205 and BKS-R3206 cannot be set to Daughter.

- Block:** Select the Block No. for the Mother unit and Daughter units (specifiable only when Mother is specified for the device).
When Daughter is specified for a device, its Block No. is displayed.
- Mother ID:** Specify the Mother ID of the station (specifiable only when Daughter is specified for the device).

For the BKS-R3206, settings for 16 Destinations are added. Therefore setting item Destination: does not appear.

BKS-R3206

ID: 15 Device: Description: Reload

Panel Mode: Stand Alone Block: Mother ID: Assign Exit

Tools From Device To Device

Panel Layout: Direct Select Delete Button

Destinations

1: OUT001	2: OUT002	3: OUT003	4: OUT004	5: OUT005	6: OUT006	7: OUT007	8: OUT008
9: OUT009	10: OUT010	11: OUT011	12: OUT012	13: OUT013	14: OUT014	15: OUT015	16: OUT016

1: IN001	2: IN002	3: IN003	4: IN004	5: IN005	6: IN006	7: IN007	8: IN008
9: IN009	10: IN010	11: IN011	12: IN012	13: IN013	14: IN014	15: IN015	16: IN016

Panel Layout: (BKS-R3206 only)

Select either “Type + Number” or “Direct Select.”

Type + Number: Source and Destination are specified with the type and number, and are switched with TAKE.

Direct Select: Source and Destination are directly specified and switched.

In Type + Number mode of the BKS-R3206, the Type names assigned to the buttons are shown as follows instead of the button settings:

BKS-R3206

ID: 15 Device: Description: Reload

Panel Mode: Stand Alone Block: Mother ID: Assign Exit

Tools From Device To Device

Panel Layout: Type + Number Delete Button

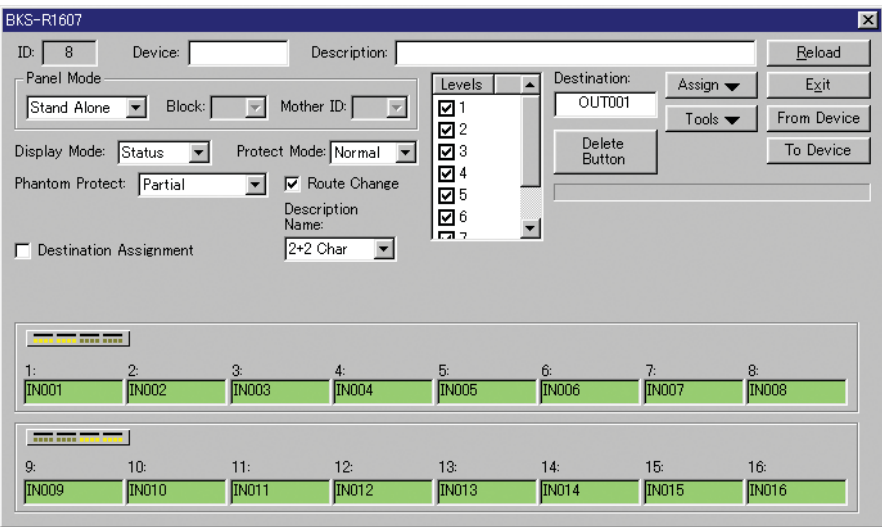
Destinations

1: OUT001	2: OUT002	3: OUT003	4: OUT004	5: OUT005	6: OUT006	7: OUT007	8: OUT008
9: OUT009	10: OUT010	11: OUT011	12: OUT012	13: OUT013	14: OUT014	15: OUT015	16: OUT016

1: IN	2: OUT	3: CAM	4: VTR	5: MONI	6: SAT	7: PNT	8: PHAN
9: SS	10: MIC	11: CB	12:	13:	14:	15:	16:

4-3-19 Settings for the BKS-R1607/R1608/R3209/R3210

Some setting items are described in “4-3-1 Setting Items Common to All Devices” and “4-3-16 Setting Items Common to Control Panels.”
Use firmware version 2.03 or higher.



The setting items of the BZR-2000 are the same for the BKS-R1607, BKS-R1608, and BKS-R3209, excluding the items only for the BKS-R1607. You can make settings on 16 buttons of the BKS-1607, BKS-R1608, and BKS-R3210 in Direct Select mode, and on 32 buttons of the BKS-R3209.

Panel Mode

Select the panel mode from among Stand Alone, Mother and Daughter.
Block: Select the Block No. for the Mother unit and Daughter units (specifiable only when Mother is specified for the device).
When daughter is specified for a device, its Block No. is displayed.
Mother ID: Specify the Mother ID of the station (specifiable only when daughter is specified for the device).

Display Mode

Select whether the buttons on the control panel are to be lit to indicate crosspoint status or whether the pressed buttons are to be lit.
Status: To indicate crosspoint status
Prompt: To indicate the pressed button

Protect mode

Select whether the Protect setting is to be ignored or not.
Normal: The Protect setting is NOT ignored.
On Air: The Protect setting is ignored.

Phantom Protect

Select the behavior of Phantom toward protected Destinations.

Partial: Switching of only signals of Phantom that are not protected is enabled.

Full: Switching of all signals of Phantom is disabled if some of them are protected.

Button Link: If the protect button is set to ON, switching of all signals of Phantom is disabled.

Route Change check box

Select the availability of the Route Change function.

Enable (checked): Route Change function is enabled.

Disable (not checked): Route Change function is disabled.

Destination Assignment check box (BKS-R1607 only)

Specify whether modification of Destinations on the control panel is to be permitted or not.

Enable (checked): Modification of Destinations is enabled.

Disable (not checked): Modification of Destinations is disabled.

Description Name (BKS-R1607 only)

Select a method for how to abbreviate a 16-character Description Name in 4-digit display.

2+2 Char: The first two and last two characters are displayed.

4 Char: The first four characters are displayed.

The BKS-R3210 has two operation modes.

Panel Layout (BKS-R3210 only)

Select either “Type + Number” or “Direct Select.”

Type + Number: Source and Destination are specified with the type and number, and are switched with TAKE.

Direct Select: Source and Destination are directly specified and switched.

Level mode (BKS-R3210 only)

Select Level change mode when the TAKE button is pressed.

Single: Single select mode

Multiple: Multiple select mode

4-3 Settings for Devices

In Type + Number mode of the BKS-R3210, the Type names assigned to the buttons are shown as follows instead of the button settings.

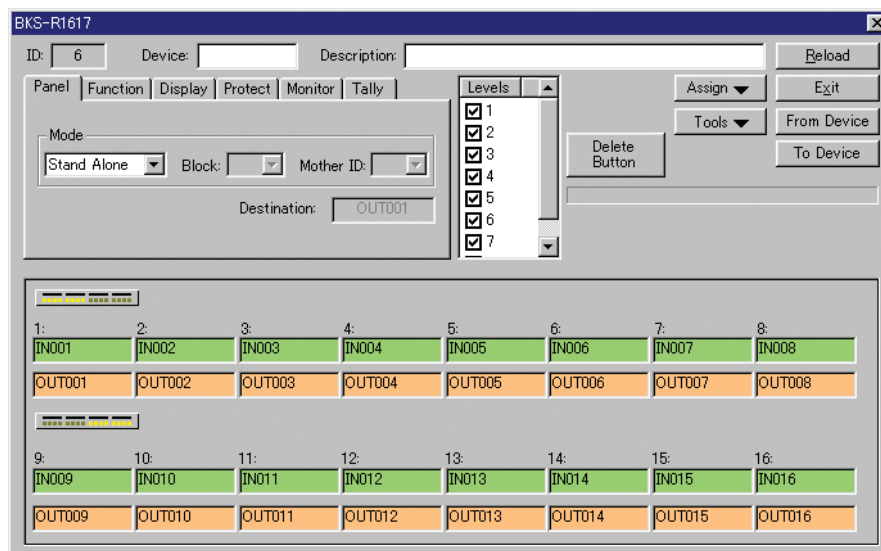
The screenshot shows the 'BKS-R3210' settings window. At the top, there are fields for 'ID' (set to 9), 'Device', and 'Description'. Below these are 'Panel Mode' (Stand Alone), 'Block', and 'Mother ID'. Further down are 'Display Mode' (Status), 'Protect Mode' (Normal), 'Phantom Protect' (Partial), and a checked 'Route Change' option. The 'Panel Layout' is set to 'Type + Number', and 'Level Mode' is set to 'Single'. A 'Levels' list on the right shows levels 1 through 8, all of which are checked. On the far right, there are buttons for 'Reload', 'Assign', 'Exit', 'Tools', 'From Device', and 'To Device'. At the bottom, there are two rows of button settings. The first row has buttons labeled 1: IN, 2: OUT, 3: CAM, 4: VTR, 5: MONI, 6: SAT, 7: PNT, and 8: PHAN. The second row has buttons labeled 9: SS, 10: MIC, 11: CB, and then empty boxes for 12, 13, 14, 15, and 16. At the bottom right, there are radio buttons for '0 - F' (selected) and 'G - V'.

0-F/G-V (in Type + Number mode of the BKS-R3210 only)

When Panel Layout is set to Type + Number, the first half and the latter half of the Type name indication are switched.

4-3-20 Settings for the BKS-R1617/R1618/R3219/R3220/R1621

Some setting items are described in “4-3-1 Setting Items Common to All Devices” and “4-3-16 Setting Items Common to Control Panels.”
Use firmware version 1.06 or higher.



You can make settings on 16 buttons of the BKS-R1617, BKS-R1618, BKS-R3220 (in Button per Source mode), and BKS-R1621 and on 32 buttons of the BKS-R3219.

The BKS-R1607 and BKS-R1621 can use 16 × 16 mode if you set both Source and Destination for each of the 16 buttons.

The setting items of the BZR-2000 are the same for the BKS-R1617, BKS-R1618, BKS-R3219, and BKS-R1621, excluding the items only for the BKS-R1617/R1621.

The setting items are each classified under one of six pages, such as “Panel.”

Panel page

Mode

Select the panel mode from among Stand Alone, Mother and Daughter.

Block: Select the Block No. for the Mother unit and Daughter units (specifiable only when Mother is specified for the device).

When daughter is specified for a device, its Block No. is displayed.

Mother ID: Specify the Mother ID of the station (specifiable only when daughter is specified for the device).

Layout (BKS-R3220 only)

Select either Type + Number or Button per Source.

Type + Number: Source and Destination are specified with the type and number, and are switched with TAKE.

Button per Source: Source and Destination are directly specified and switched.

Destination

See “4-3-16 Setting Items Common to Control Panels.”

Function page

Function (except for the BKS-R3220)

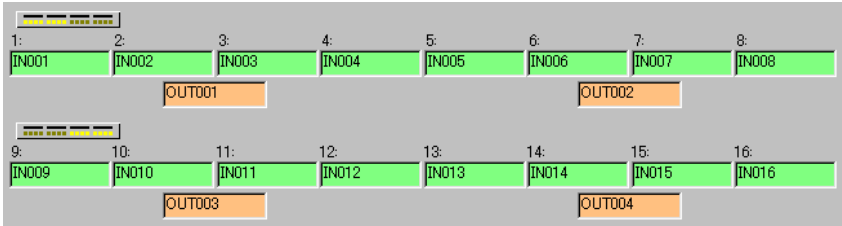
Select the function mode of the control panel.

Normal: Normal function

4 Destinations: Source selection for four Destinations

When 4 Destinations is selected, the control panel functions as four Source selection (or eight Source selection for the BKS-R3219) for four Destinations.

Four-block Destinations are specified to the displayed Destination setting boxes.



Phantom Change check box

You may specify the switching operation by Phantom.

Enable (checked): Switching is done according to the Phantom setting.

Disabled (not checked): The Phantom setting is ignored.

Route Change check box

Select the availability of the Route Change function.

Enable (checked): Route Change function is enabled.

Disable (not checked): Route Change function is disabled.

Destination Assignment check box (BKS-R1617/R1621 only)

Specify whether modification of Destinations on the control panel is to be permitted or not.

Enable (checked): Modification of Destinations is enabled.

Disable (not checked): Modification of Destinations is disabled.

Level mode (BKS-R3220 only)

Select Level change mode when the TAKE button is pressed.

Single: Single select mode

Multiple: Multiple select mode

Display page

Display Mode

Select whether the buttons on the control panel are to be lit to indicate crosspoint status or whether the pressed buttons are to be lit.

Status: To indicate crosspoint status

Prompt: To indicate the pressed button

Description Name (BKS-R1617/R1621/R3220 only)

Select a method for how to abbreviate a 16-character Description Name in 4-digit display.

2+2 Char: The first two and last two characters are displayed.

4 Char: The first four characters are displayed.

Illumination Level

You may adjust the illumination level in eight steps.

Alias

Select an alias.

If the Description Name check box is not checked, the control panel shows the alias instead of the Description Name, and the Description Name is not received when the aliases group including the Description Name is sent to the control panel with the Terminal Name Configuration.

Protect page

Protect Mode

Select whether the Protect setting is to be ignored or not, and also whether the Protect setting is canceled or not.

Normal: The Protect setting is NOT ignored, and NOT canceled.

On Air: The Protect setting is ignored, and NOT canceled.

Flexible: The Protect setting is NOT ignored, and canceled.

Flex OA: The Protect setting is ignored, and canceled.

Phantom Protect

Select the behavior of Phantom toward protected Destinations.

Partial: Switching of only signals of Phantom that are not protected is enabled.

Full: Switching of all signals of Phantom is disabled if some of them are protected.

Button Link: If the protect button is set to ON, switching of all signals of Phantom is disabled.

Monitor page

Signal Monitor check box

You may specify whether or not you want input and output of the routing switcher system monitored.

Enable (checked): Monitoring functions are enabled.

Disable (not checked): Monitoring functions are disabled.

Destination

To enable the signal monitor function, you may specify an output connector name assigned to “Monitor output” from among the outputs of the routing switcher system connected via the S-BUS.

Monitor Destination

Automatic Source selection corresponding to the Destination set in “Destination:” on the Panel page is done linking with the Destination specified here.

Monitor Source Offset

You may specify the offset value of the source number to be switched to the source number of Monitor Destination within a range of 0 to 1023. If 0 is specified, the same Source is selected for the Monitor Destination: and Destination:.

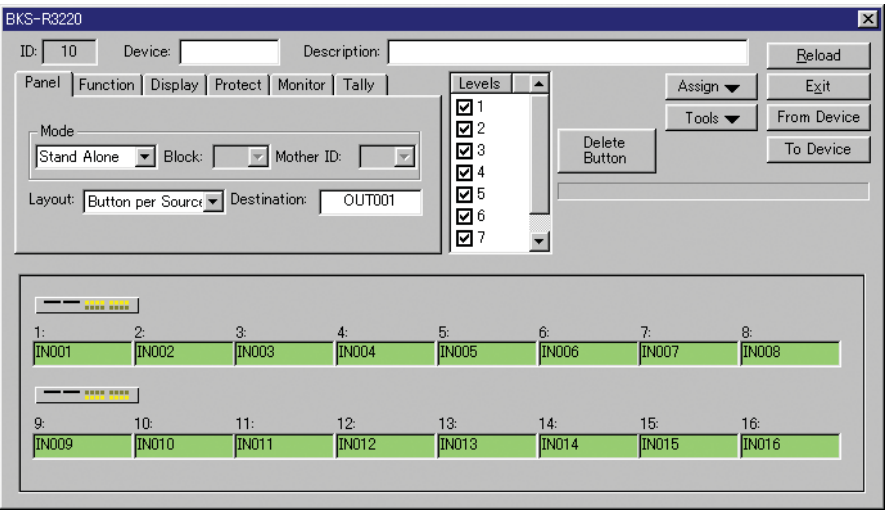
Tally page

Tally Groups

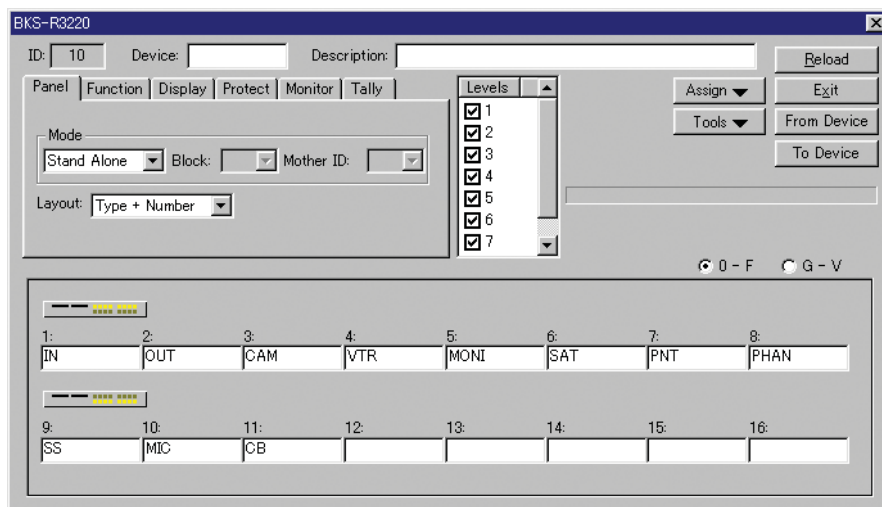
You may specify the settings for linking with the switcher tally. For linking with the BKDS-7700, only Group 1, 2, 3, and 4 are enabled.

Operation modes of the BKS-R3220

The BKS-R3220 has two operation modes.



In Type + Number mode of the BKS-R3220, the Type names assigned to the buttons are shown as follows instead of the button settings.

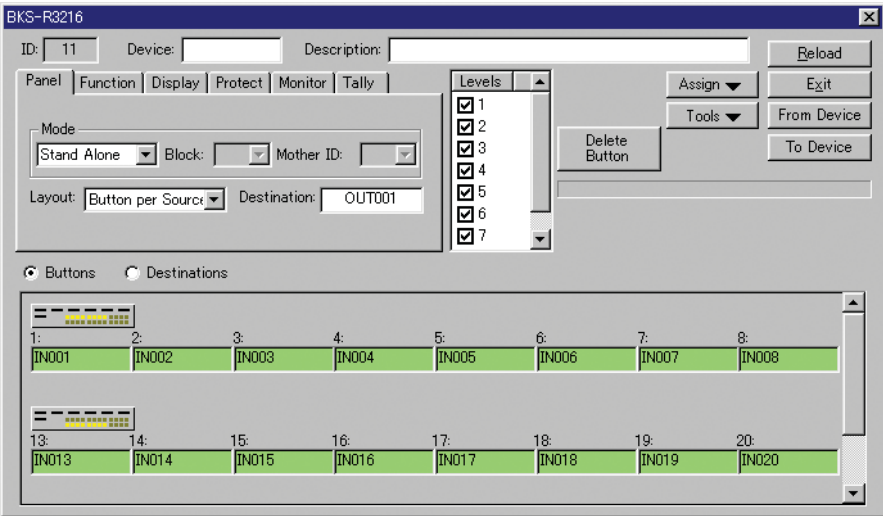


0-F/G-V (in Type + Number mode of the BKS-R3220 only)

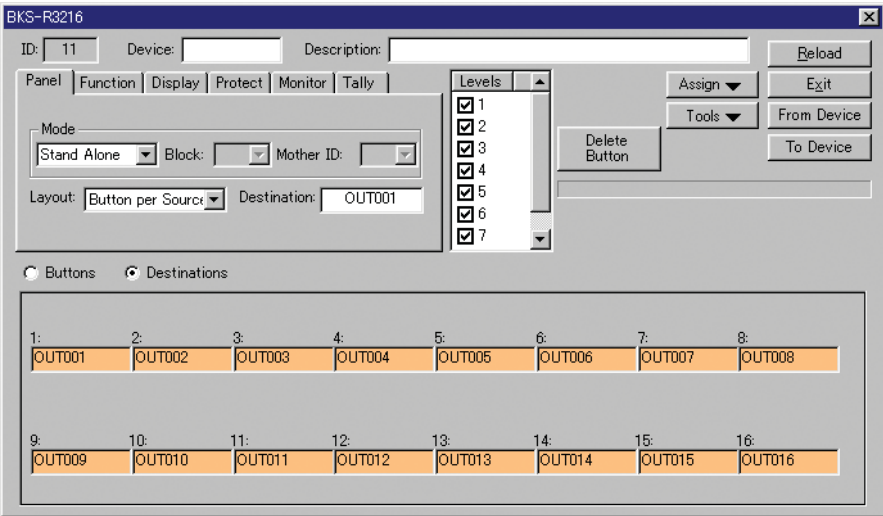
When Panel Layout is set to Type + Number, the first half and the latter half of the Type name indication are switched.

4-3-21 Settings for the BKS-R3216

Some setting items are described in “4-3-1 Setting Items Common to All Devices” and “4-3-16 Setting Items Common to Control Panels.”
Use firmware version 1.06 or higher.



You may make settings for the 24 buttons of the BKS-R3216 (Button per Source mode).
If you select Destinations with the Buttons/Destinations option buttons, you may make settings for the 16 buttons as shown below.



The setting items are each classified under one of six pages, such as “Panel.”

Panel page

Mode

Select the panel mode from among Stand Alone, Mother and Daughter.

Block: Select the Block No. for the Mother unit and Daughter units (specifiable only when Mother is specified for the device).

When daughter is specified for a device, its Block No. is displayed.

Mother ID: Specify the Mother ID of the station (specifiable only when daughter is specified for the device).

Layout

Select the operation mode.

Type + Number: Source and Destination are specified with the type and number, and are switched with TAKE.

Keypad Entry: Description name is specified using the letters and figures assigned to the buttons, and switching is made with TAKE.

Button per Source: Source and Destination are directly specified and switched.

Destination

See “4-3-16 Setting Items Common to Control Panels.”

Function page

Phantom Change check box

You may specify the switching operation by Phantom.

Enable (checked): Switching is done according to the Phantom setting.

Disable (not checked): The Phantom setting is ignored.

Route Change check box

Select the availability of the Route Change function.

Enable (checked): Route Change function is enabled.

Disable (not checked): Route Change function is disabled.

Level mode

Select Level change mode when the TAKE button is pressed.

Single: Single select mode

Multiple: Multiple select mode

Preset Take check box (in Button per Source mode only)

You may specify the operations for Source selection and TAKE button operation.

Enable (checked): The source is displayed on the PRESET display when selected, and switched with TAKE.

Disable (not checked): Switching is done linking with the source selection.

Function Key Mode

Change the function of four Function keys (seven buttons at lower left of the front panel of the BKS-R3216), excluding the LOCK, CLEAR, and SHIFT keys.

Direct: The mode is changed by pressing the button.

Menu: The mode is changed by pressing the button and then selecting from the menu.

Display page

Display Mode

Select whether the buttons on the control panel are to be lit to indicate crosspoint status or whether the pressed buttons are to be lit.

Status: To indicate crosspoint status

Prompt: To indicate the pressed button

Description Name

Select a method for how to abbreviate a 16-character Description Name in 4-digit display.

2+2 Char: The first two and last two characters are displayed.

4 Char: The first four characters are displayed.

Normal: The first eight characters are displayed.

Illumination Level

You may adjust the illumination level in eight steps.

Alias

Select an alias.

If the Description Name check box is not checked, the control panel shows the alias instead of the Description Name, and the Description Name is not received when the aliases group including the Description Name is sent to the control panel with the Terminal Name Configuration.

Protect page

Protect mode

Select whether the Protect setting is to be ignored or not, and also whether the Protect setting is to be canceled or not.

Normal: The Protect setting is NOT ignored and NOT canceled.

On Air: The Protect setting is ignored and NOT canceled.

Flexible: The Protect setting is NOT ignored and canceled.

Flex OA: The Protect setting is ignored and canceled.

Phantom Protect

Select the behavior of Phantom toward protected Destinations.

Partial: Switching of only signals for Phantom that are not protected is enabled.

Full: Switching of all signals for Phantom is disabled if some of them are protected.

Button Link: If the protect button is set to ON switching of all signals for Phantom is disabled.

Monitor page

Monitor Destination

Automatic Source selection corresponding to the Destination set in “Destination:” on the Panel page is done linking with the Destination specified here.

Monitor Source Offset

You may specify the offset value of the source number to be switched to the source number of Monitor Destination within a range of 0 to 1023. If 0 is specified, the same Source is selected for the Monitor Destination: and Destination:.

Tally page

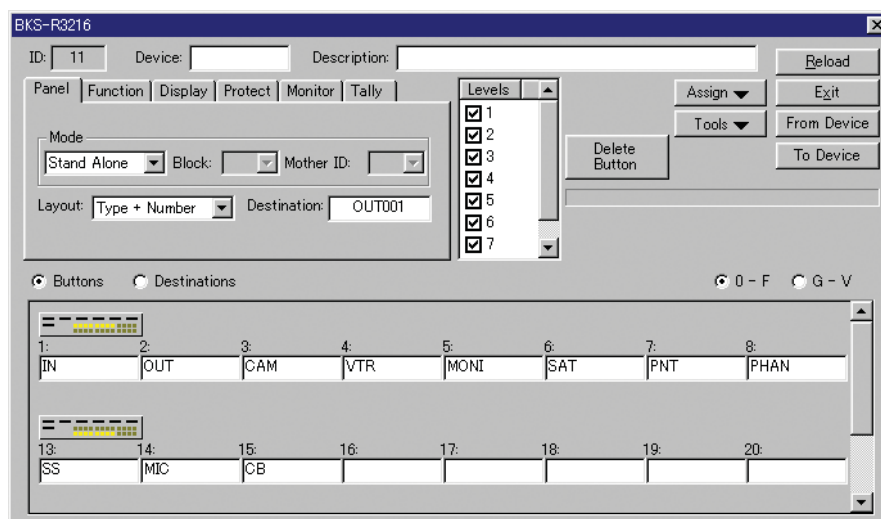
Tally Groups

You may specify the settings for linking with the switcher tally. For linking with the BKDS-7700, only Group 1, 2, 3, and 4 are enabled.

Display of the button settings

In Type + Number and Keypad Entry modes, the same functions as with Button per Source mode are set for buttons 9 to 12 and 21 to 24.

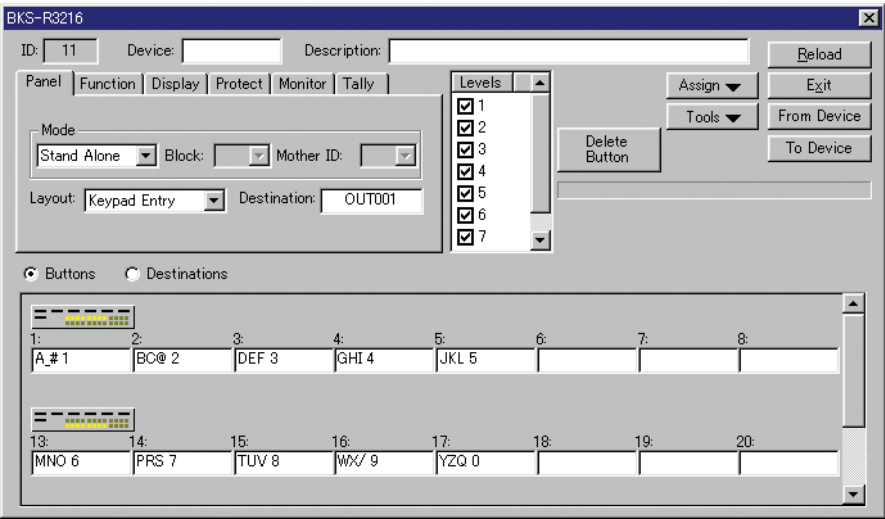
In Type + Number mode, the Type names assigned to the button 1 to 8 and 13 to 20 are shown as follows instead of the button settings.



0-F/G-V (in Type + Number mode only)

When Panel Layout is set to “Type + Number,” the first half and the latter half of the Type name indication are switched.

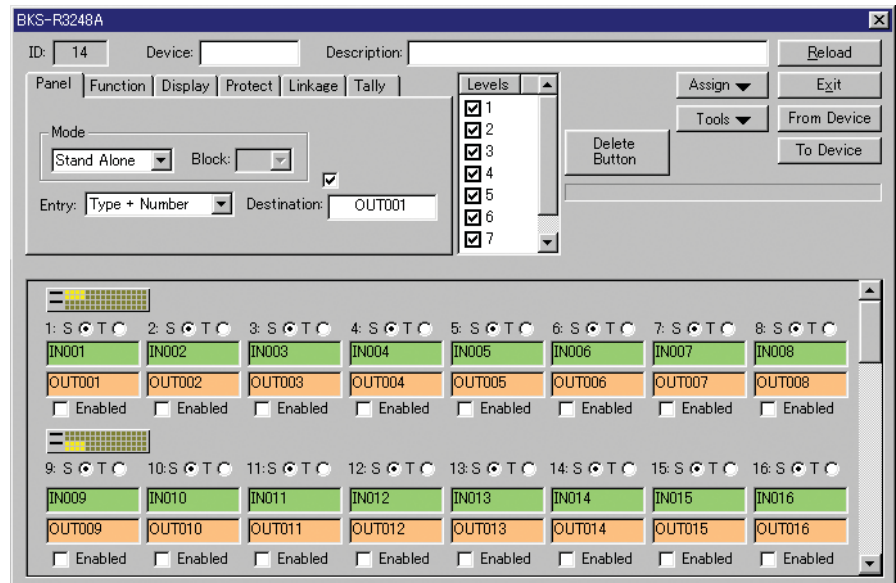
In Keypad Entry mode, the letters and figures assigned to button 1 to 8 and 13 to 20 are shown as follows instead of the button settings.



4-3-22 Settings for the BKS-R3240A/R3242A/R3248A

Some setting items are described in “4-3-1 Setting Items Common to All Devices” and “4-3-16 Setting Items Common to Control Panels.”

Use firmware version 1.03 or higher.



You can make settings on 16 buttons of the BKS-R3240A, and BKS-R3242A, and on 64 buttons of the BKS-R3248A. The other functions are the same for all devices.

The setting items are each classified under one of six pages, such as “Panel.”

Panel page

Mode

Select Stand Alone or Mother as the panel mode. Daughter cannot be selected.

Block: Select the Block No. for the Mother Unit (enabled only when Mother is specified for the device).

Entry

Select the operation mode.

Button per Source: Source and Destination are switched directly with the buttons.

Type + Number: Source and Destination are specified with Type and Number, and are switched with TAKE.

Keypad: Description name is specified using the letters and figures assigned to the buttons, and are switched with TAKE.

Direct Select: The terminal number assigned to the buttons is specified with the figures, and is switched with TAKE.

Destination

See “4-3-16 Setting Items Common to Control Panels.”

Function page

Scroll Mode

You may specify the depth of scrolling for the level display for control panel operation.

Level Mode

Select the Level change mode when the TAKE button is pressed.

Single: Single select mode

Multiple: Multiple select mode

Chop Rate

Set the Chop Rate selected from the Control Panel for Fast, Medium, and Slow. The unit is “Frame.”

Display page

Display Mode

Select whether the buttons on the control panel are to be lit to indicate crosspoint status or whether the pressed buttons are to be lit.

Status: To indicate crosspoint status

Prompt: To indicate the pressed button

Status, Preset

Display mode of the display windows on the control panel is selected.

- Type + Number
- Description
- 4 Char.DVS
- 4 Char.Description
- 4 Char.Router
- Direct
- Level

Illumination Level

You may adjust the illumination level in eight steps.

Alias

Select an alias.

If the Description Name check box is not checked, the control panel shows the alias instead of the Description Name, and the Description Name is not received when the aliases group including the Description Name is sent to the control panel with the Terminal Name Configuration.

Protect page

Protect (Mode)

Select whether the Protect setting is to be ignored or not, and also whether the Protect setting is canceled or not.

Normal: The Protect setting is NOT ignored, and NOT canceled.

On Air: The Protect setting is ignored, and NOT canceled.

Flexible: The Protect setting is NOT ignored, and canceled.

Flex OA: The Protect setting is ignored, and canceled.

Protect (Phantom)

Select the behavior of Phantom toward protected Destinations.

Partial: Switching of only signals of Phantom that are not protected is enabled.

Full: Switching of all signals of Phantom is disabled if some of them are protected.

Button Link: If the protect button is set to ON, switching of all signals of Phantom is disabled.

Linkage page

Serial Port

You may specify the protocol used for the REMOTE 2 connector on the rear panel.

Monitor Destination

Automatic Source selection corresponding to the Destination set in “Destination:” on the Panel page is performed by linking with the Destination you specify here.

Monitor Source Offset

You may specify a value for the offset from the source number to be switched to the source number of the Monitor Destination within a range of 0 to 1023. If 0 is specified, the same Source will be selected for the Monitor Destination: and Destination:.

Tally page

Tally Groups

You may specify the settings for linking with the switcher tally. For linking with the BKDS-7700, only Group 1, 2, 3, and 4 are enabled.

Tally Send

You may specify the group to which the tally signal is to be received at the tally connector on the rear panel is to be sent.

The BKS-R3240A/R3242A/R3248A has two terminal name setting boxes for each button. The upper box is for Source, and the lower box is for Destination.

S/T

Select either Speed Entry (S) or Immediate Take (T).

Enabled check box

Select whether the button-setting operation is to be enabled or not on the control panel.

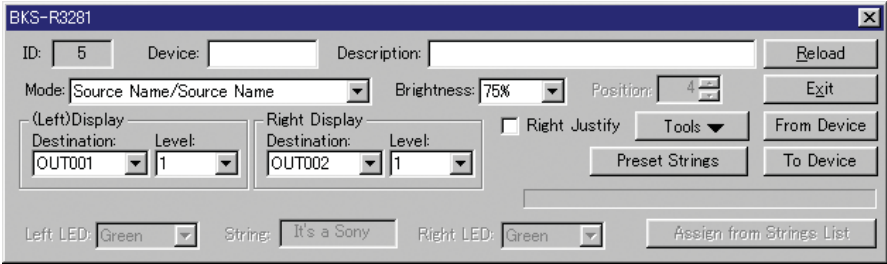
4-3 Settings for Devices

4-3-23 Settings for the BKS-R3280/R3281

Some setting items are described in “4-3-1 Setting Items Common to All Devices.”

Use firmware version 3.10.

Optional version 4.00 is not supported.



Mode

Select a display mode from the dropdown list.

BKS-R3280: Selection between Source Name (default) and String is possible.

BKS-R3281: Selection is possible from among the following six modes:

- Source Name/Destination Name
- Source Name/Destination Number
- Source Name/Source Number
- Source Name
- Source Name/Source Name (default)
- String

Brightness

The brightness of the display can be selected from the dropdown list.

Selection is possible among 25%, 50%, 75% (default), and 100%.

Position

Setting is possible only for the BKS-R3281, and when Source Name is selected from the dropdown list of Mode. Specify the indication starting point of the Source names with numbers 0 to 9 (number of columns from the left edge).

(Left) Display

Select a Destination and a Level to be displayed from the dropdown list.

In a case of the BKS-R3281, and when Source Name/Source Name is selected from the dropdown list of Mode, the settings for the left display are available. This setting is disabled when String is selected from the dropdown list of Mode.

Right Display

Setting is possible only for the BKS-R3281, and when Source Name/Source Name is selected from the dropdown list of Mode. Select a Destination and a Level to be displayed on the right display from the dropdown list.

Operation

Operation

Operation

Operation

Operation



Operation



Operation

Operation

Operation

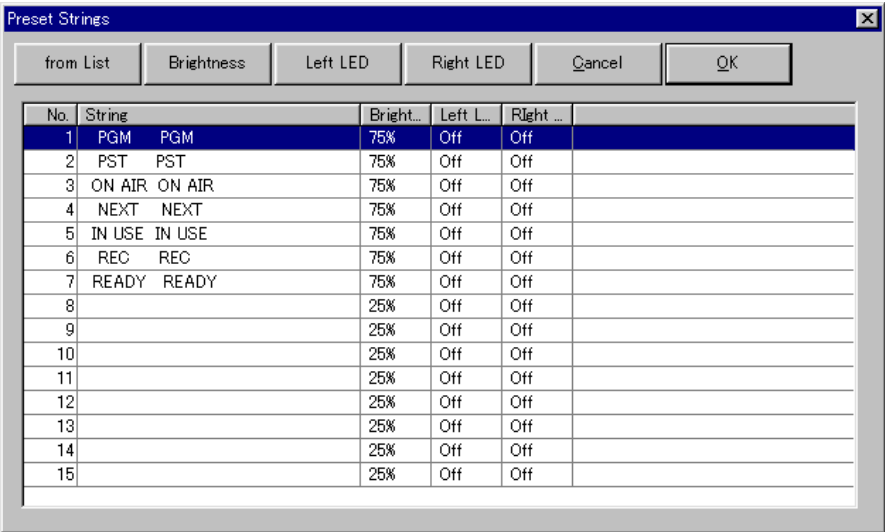
Operation

Operation

4-3 Settings for Devices

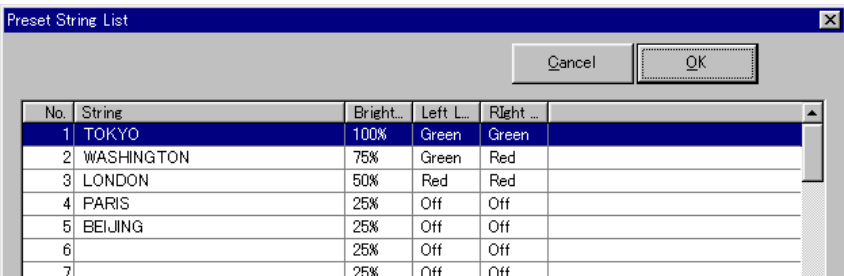
Preset Strings button

A string of characters to be displayed according to parallel input to the rear of the BKS-R3280/R3281 can be specified.



from List button

You can select the data set in the UMD String Configuration dialog box.



Brightness button

You can modify the brightness of a string of characters. The Brightness for the selected string is cyclically changed among 25%, 50%, 75%, and 100% each time you click on the button.

Left LED/**Right LED** buttons

You can select the colors for the LEDs. The color settings is cyclically changed among Green, Red, Amber, and Off each time you click on the button.

Cancel button

To quit Preset Strings with all the new settings canceled

OK button

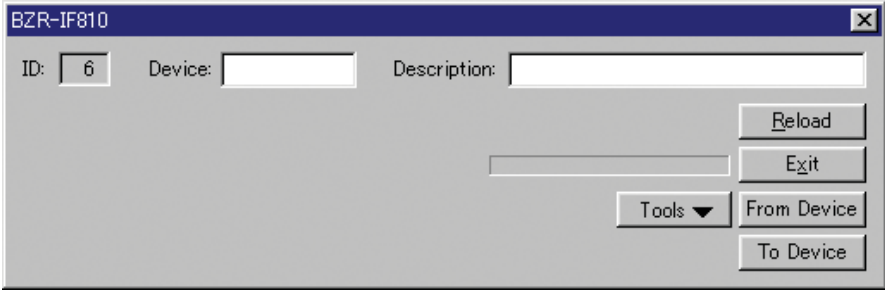
To quick Preset Strings with all the new settings stored

Assign from Strings List button

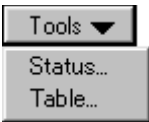
You can copy the setting data already set in the UMD String Configuration dialog box.

4-3-24 Settings for the BZR-IF310/IF810/IF820

Some setting items are described in “4-3-1 Setting Items Common to All Devices.”



Tools button



Status

To display the model name of the device and the version of the firmware
This functions only in online status.

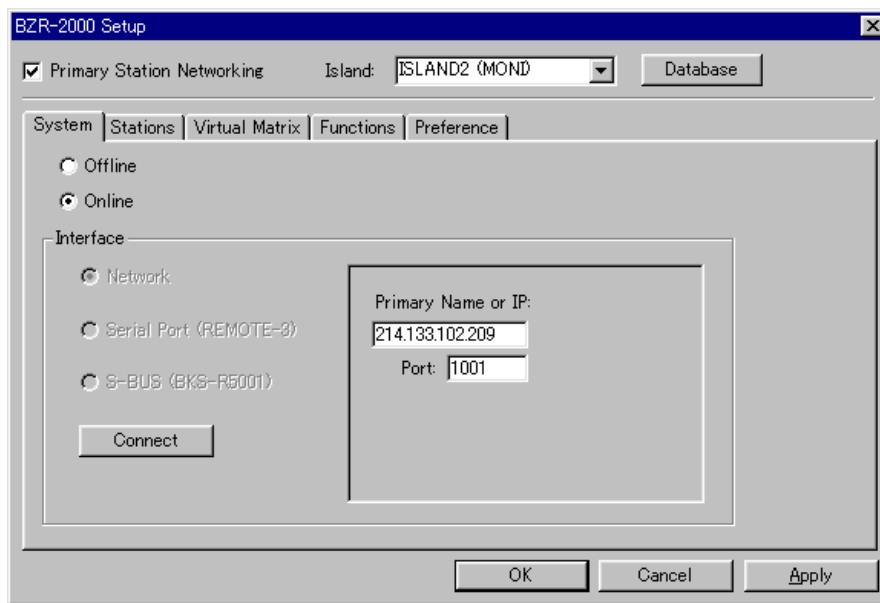
Table

To display the table data of the device.
This functions only in online status.

4-4 Multiple Primary Stations

If the system uses multiple primary stations and the BZR-IF830, it can control a matrix of up to 4093×4093 .

4-4-1 Setting the System



Check the Primary Station Network check box on the Setup dialog box, and the multiple primary stations function is enabled, and the Island dropdown list and **Database** button appear. In the Main Window, the same dropdown list also appears, as shown below.



Select the primary station to be set from the Island dropdown list. Settings for the items below are for the primary station selected here, excluding several items.

As the primary station to use this function, HKSP-R80 (firmware V.1.10 or higher) is required. For the interface with the primary station, only the Network interface is enabled.

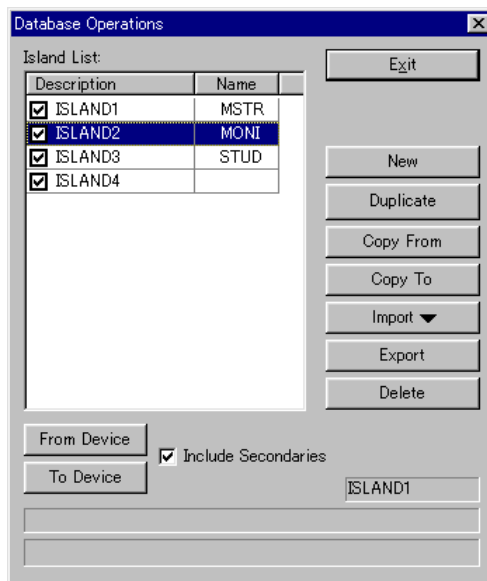
Database button

Opens the Database Operations dialog box in the same manner as Database Operations of the Main Window.

4-4-2 Database Operations dialog box

The operations of the Database Operations dialog box are basically the same as those for using a single primary station. See “Database Operations” in “4-2-5 Tools Menu.”

Functions different from those with a single primary station use are described here.



Up to 15 primary stations can be used in a system so that 15 database sets can be created at maximum. The **New**, **Duplicate**, **Copy From**, **Copy To**, and **Delete** buttons are for the database sets.

From Device button and To Device button

Receive or send data from/to a single or multiple primary station(s) on the Island list whose check box(es) is/are checked.

Import button and Export button

Import or export data from/to a single primary station selected from the Island List.

4-5 Adding Dialog Boxes for New Secondary-Station Devices

If the system has new Sony devices or specially ordered devices as secondary stations connected via the S-BUS and cannot recognize them, you can add necessary dialog boxes for the devices. The BZR-2000 V.1.40 and later models have the software to add the dialog boxes. To add dialog boxes for the devices, they must have the same internal data configuration as the existing devices. Consult your Sony personnel to obtain details on each device before starting the procedure below.

4-5-1 Stating Up

- 1 Quit the BZR-2000.
- 2 Click “New Model Configuration” in the BZR-2000 Programs group of the Start menu.

4-5-2 Operating Procedure

When the program starts, the window below appears.

Model	Code	Class	DLL	Type
BKPF-351	29		BKPF_351.dll	Routing Switcher
DVS-128	36		DVS_128.dll	Routing Switcher
BKS-R3216SL	78	Standard Control Panel	BKS_R3216SL.dll	Control Panel

- 1 Click the **New** button.
- 2 Select the dialog boxes to be added from Classes.
 - **Routing Switcher**
Settings of Location, Level, and Switching Field are enabled.
 - **Standard Control Panel**
The same settings as with Sony control panels other than the BKS-R324xA series are enabled.

- **BKS-R324xA Style Panel**

The same settings as with the Sony BKS-R324xA series are enabled.

- **From Device/To Device Only**

You can store and retrieve setting made on the BZR-2000.

You must ask Sony personnel which items should be selected.

Perform the following settings for the functions on the selected setting page.

When Routing Switcher is selected

- 1** Enter the model name in the Model Name text box.
- 2** Enter the model code in the Code text box.
You may enter the code in decimal or hexadecimal by selecting DEC or HEX to the right.
As for the code for the model, ask Sony personnel.
- 3** Enter the desired path of the icon file that you wish to display on the model in the Model Icon text box.
You may use the icon file supplied with the BZR-2000 or your custom icon file.
Click the button to enable selection of the path of the icon file.
- 4** Specify the number of connectors for Input and Output in Matrix Size, and the number of settings for the Switching Field in Switching Field Setting.

When Standard Control Panel or BKS-R324xA Style Panel is selected

- 1** Enter the model name in the Model Name text box.
- 2** Enter the model code in the Code text box.
You may enter the code in decimal or hexadecimal by selecting DEC or HEX to the right.
As for the code for the model, ask Sony personnel.
- 3** Enter the desired path of the icon file that you wish to display on the model in the Model Icon text box.
You may use the icon file supplied with the BZR-2000 or your custom icon file.
Click the button to enable selection of the path of the icon file.
- 4** Specify the number of buttons to be used for crosspoint switching in the Button Number text box.

4-5 Adding Dialogs for the New Secondary-Station Devices

When From Device/To Device Only is selected

- 1** Specify the type of each device corresponding to the dialog box in Types.
 - Routing Switcher
 - Control Panel
 - OtherIf you specify an item other than From Device/To Device Only in Classes, the setting for Types is automatically specified.
- 2** Enter the model name in the Model Name text box.
- 3** Enter the model code in the Code. text box
You may enter the code in decimal or hexadecimal by selecting DEC or HEX to the right.
As for the code for the model, ask Sony personnel.
- 4** Enter the desired path of the icon file that you wish to display on the model in the Model Icon text box.
You may use the icon file supplied with the BZR-2000 or your custom icon file.
Click the button to enable selection of the path of the icon file.

Terminating the Operation

Click the button.

4-5-3 Other Operations

button

This modifies the settings for the added devices selected on the list of the center of the window. The settings for the Sony standard model shown in gray cannot be modified.

button

This deletes an added model that has been registered.
Select an added model from the list at the center of the window, then click the button.

Note

You cannot delete the models selected with the Display All check box checked.

button

If pressed to set to ON, all models, including the Sony standard models, are displayed on the list at the center of the window.

From Device/To Device Function check box

If the model does not support the From Device/To Device function with the BZR-2000 via the primary station which satisfies the S-BUS communication protocol and S-BUS table specifications, set to OFF (not checked) to avoid the misoperation.

If the internal data configuration is not compatible with the existing model, also set to OFF (not checked).

Primary Station Function check box

If the model completely supports the functions of a primary station that satisfies the S-BUS communication protocol and S-BUS table specifications, make sure this box has a check mark.

If you use the BKPF-300 series or HKSP-061M, which supports part of the primary station functions, or a DVS-V6464M, which does not support the matrix over 512×512 , make sure this box has no check mark.

Alias Name Function check box

If the model is a S-BUS secondary station that supports the multiple terminal name function conforming to the S-BUS communication protocol and S-BUS table specifications, make sure this box has a check mark.

4-5 Adding Dialogs for the New Secondary-Station Devices

4-5-4 Operations in the Added Dialog Box

Routing Switcher

You may set Location, Level, and Switching Field.
See “4-3-12 Settings for the HDS-X3400, HDS-X3600, and HDS-X3700.”

Standard Control Panel

You may make the same settings as with Sony control panels other than those of the BKS-R324xA series.
See “4-3-20 Settings for the BKS-R1617/R1618/R3219/R3220/R1621” and “4-3-21 Settings for the BKS-R3216.”

BKS-R324xA Style Panel

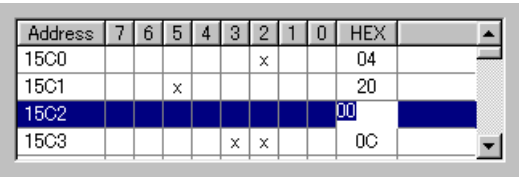
You may make the same settings as with the BKS-R324xA series control panel.
See “4-3-22 Settings for the BKS-R3240A/R3242A/3248A.”

From Device/To Device Only

You may perform the From Device/To Device operations.
See “4-3-1 Setting Items Common to All Devices.”

Binary Edit

Every added dialog box has a binary edit block, as shown below. Using this block, you can set details in addition to the standard setting items. However, incorrect settings may result in fatal damage on the S-BUS system. It is strongly recommended to follow the instructions of Sony personnel, or to ask Sony personnel to make the settings.



Address	7	6	5	4	3	2	1	0	HEX
15C0						x			04
15C1			x						20
15C2								00	
15C3					x	x			0C

Appendix

Setting the Security Software

In network connection, if the IP address or port used for the BZR-2000 is blocked by security software, normal operation cannot be obtained. Release the IP address and port for the BZR-2000, using the security software.

The BZR-2000 uses port number 1001 as default.

Limitations with WindowsNT/2000/XP

Phenomenon

When an IntelliMouse pointing device is used with WindowsNT, RS-232C data received are abnormal.

Measures to be taken

Stop using the IntelliMouse. It has been confirmed that a similar abnormality may occur with some other application software programs for WindowsNT when an IntelliMouse is used.

Phenomenon

Data receiving fails when BZR-2000 is used with WindowsNT/2000/XP.

Measures to be taken

Check the S-BUS Device Configuration settings on the Device menu.

When BZR-2000 is used with WindowsNT/2000/XP, and S-BUS connections are made, polling for 32 secondary stations or more must be set to ON (active).

If the number of secondary stations in your system is less than 32, set the polling of appropriate IDs to ON so that the total number of polling IDs becomes 32 or more.

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