

SONY[®]

UNIVERSAL CONTROL PANEL

UCP-8060



MEMORY STICK[™]

INSTALLATION MANUAL

1st Edition (Revised 1)

Serial No. 10001 and Higher

⚠ 警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

For the U.S.A

Attention-when the product is installed in Rack:

1. Prevention against overloading of branch circuit

When this product is installed in a rack and is supplied power from an outlet on the rack, please make sure that the rack does not overload the supply circuit.

2. Providing protective earth

When this product is installed in a rack and is supplied power from an outlet on the rack, please confirm that the outlet is provided with a suitable protective earth connection.

3. Internal air ambient temperature of the rack

When this product is installed in a rack, please make sure that the internal air ambient temperature of the rack is within the specified limit of this product.

4. Prevention against achieving hazardous condition due to uneven mechanical loading

When this product is installed in a rack, please make sure that the rack does not achieve hazardous condition due to uneven mechanical loading.

5. Install the equipment while taking the operating temperature of the equipment into consideration

For the operating temperature of the equipment, refer to the specifications of the Operation Manual.

6. When performing the installation, keep the rear of the unit 10 cm (4 inches) or more away from walls in order to obtain proper exhaust and radiation of heat.

WARNING

This unit has no power switch.

When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power cord to a socket-outlet which must be provided near the unit and easily accessible, so that the user can turn off the power in case a fault should occur.

WARNUNG

Dieses Gerät hat keinen Netzschalter.

Beim Einbau des Geräts ist daher im Festkabel ein leicht zugänglicher Unterbrecher einzufügen, oder das Netzkabel muß mit einer in der Nähe des Geräts befindlichen, leicht zugänglichen Wandsteckdose verbunden werden, damit sich bei einer Funktionsstörung die Stromversorgung zum Gerät jederzeit unterbrechen läßt.

When using a LAN cable:

For safety, do not connect to the connector for peripheral device wiring that might have excessive voltage.

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Manual Structure

Purpose of this manual

This manual is the installation manual of Universal Control Panel UCP-8060. This manual is intended for use by trained system and service engineers, and describes the information for installation of the unit.

Related manuals

The following manuals are prepared for UCP-8060.

- **Operation Manual (Supplied with UCP-8060)**

This manual describes the notes on operating, the locations and functions of parts, and controls of UCP-8060.

- **User's Guide (Available on request)**

This manual describes the operations of the operation software.

If this manual is required, please contact your local Sony Sales Office/Service Center.

- **Maintenance Manual (Available on request)**

This manual describes the information for periodic maintenance and detailed service.

If this manual is required, please contact your local Sony Sales Office/Service Center.

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in B&P Company equipment.

Semiconductors that cannot be searched for on this CD-ROM are listed in the service manual for the corresponding unit. The service manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

Part number: 9-968-546-XX

Contents

This manual is organized by following sections.

Section 1 Installation

This section explains the operating environment, recommended power cord, installation space, setting of switches and description of LEDs, system connection, rack mounting, matching connectors and cables, signal inputs/outputs, and installation of operation software.

Section 2 Service Overview

This section explains the removal of upper case, self diagnosis, replacement of key tops, software reset, and making boot-up MultiMediaCard (MMC).

Trademarks

Trademarks and registered trademarks used in this manual are follows.

- Memory Stick is a registered trademark of SONY Corporation.
- TouchEngine is a trademark of SONY Corporation.
- MultiMediaCard is a trademark of Infineon Technologies AG.

Other system names, product names, and company names appearing in this manual are trademarks or registered trademarks of their respective holders.

Section 1

Installation

1-1. Operating Environment

Operating temperature	+5 °C to +40 °C
Performance temperature	+10 °C to +35 °C
Humidity	10 to 90 % (No condensation)
Storage temperature	-20 °C to +60 °C

To prevent overheating of UCP-8060, ensure that there is good air circulation around the unit.

WARNING

Do not put the unit in a place subject to excessive lamp smoke, vapor, moisture, or dust, otherwise a fire or electric shock may result.

CAUTION

Install in a stable location.
Installation on unstable or tilting surface may cause the unit fall off, resulting in injury.

1-2. Power Supply

WARNING

This unit has no power switch.
When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power cord to a socket-outlet which must be provided near the unit and easily accessible, so that the user can turn off the power in case a fault should occur.

1-2-1. Power Supply Specifications

Power voltage	AC 100 V to 240 V \pm 10%
Power frequency	50 Hz or 60 Hz
Current consumption	AC 100 V : 0.31 A AC 240 V : 0.19 A
Rush current	AC 100 V IN : 23 A AC 240 V IN : 58 A

Note

AC power supply is required a capacity which is commensurate with rush current.

If the capacity of the AC power supply is not enough, the breaker of AC power on the supply side may operate or this unit may not operate normally.

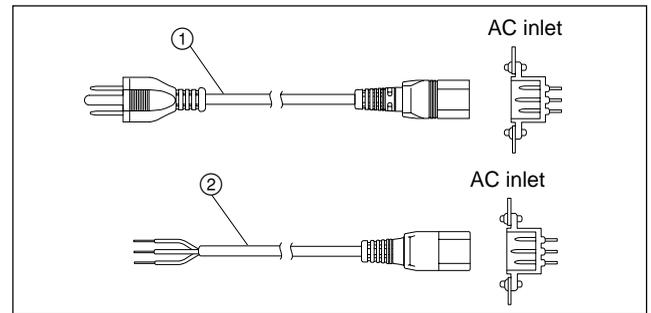
1-2-2. Recommended Power Cord

For customers in the U.S.A. and Canada
Required Part

- ① Power cord, 125 V 10 A (2.4 m) : Δ 1-557-377-11

For customers in all European countries
Required Part

- ② Power cord, 250 V 10 A (2.5 m) : Δ 1-782-929-11



Note

For the customers outside of the area as shown above, please contact your local Sony Sales Office/Service Center.

WARNING

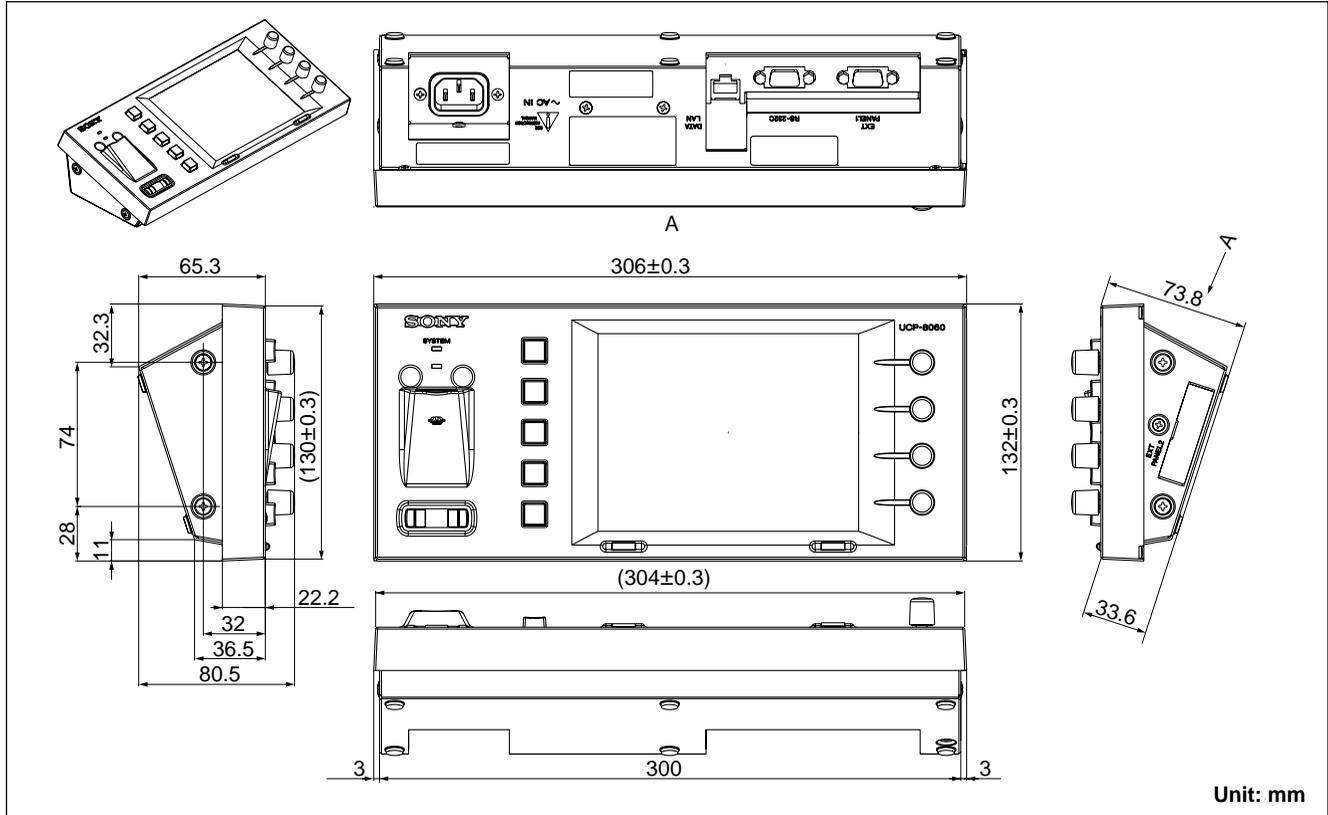
- Use a specified power cord only.
Be sure to use a recommended power cord to avoid fire and/or an electric shock.
- Ground the unit for your safety.
Be sure to attach a ground wire to avoid an electric shock.

1-3. Installation Space

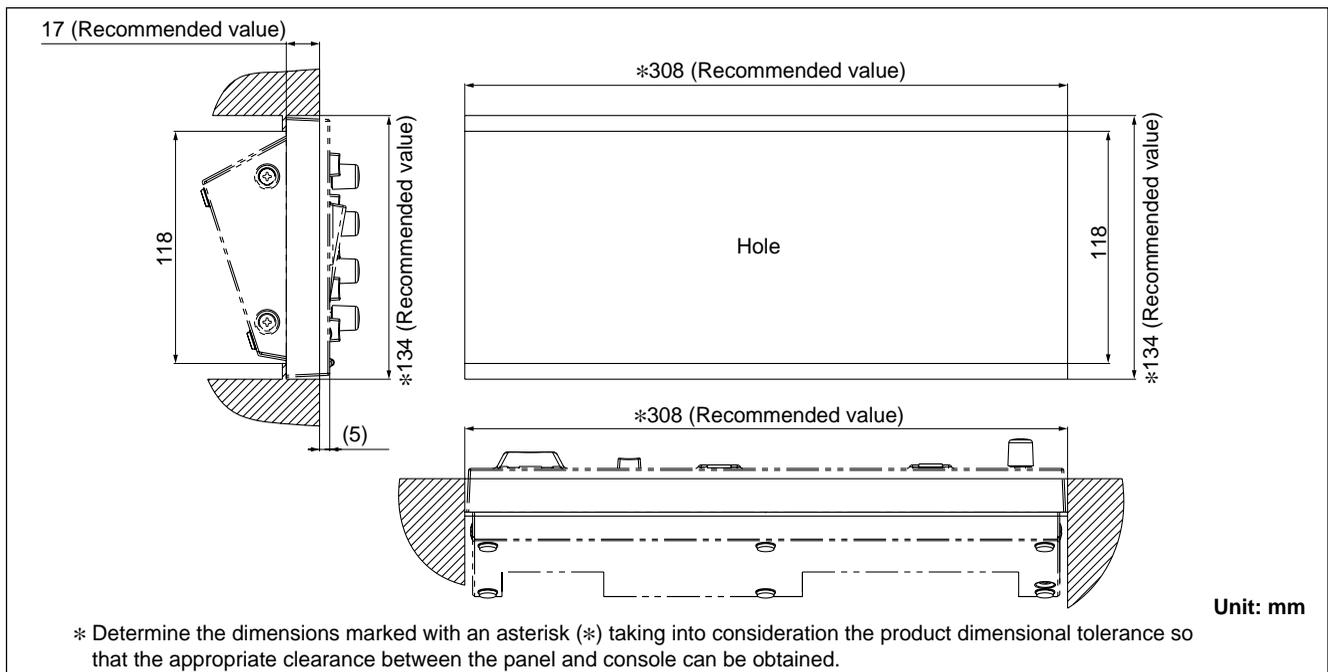
Note

Both of the front and rear sides must be at least 20 cm away from the walls for ventilation and maintenance.

The outer dimensions

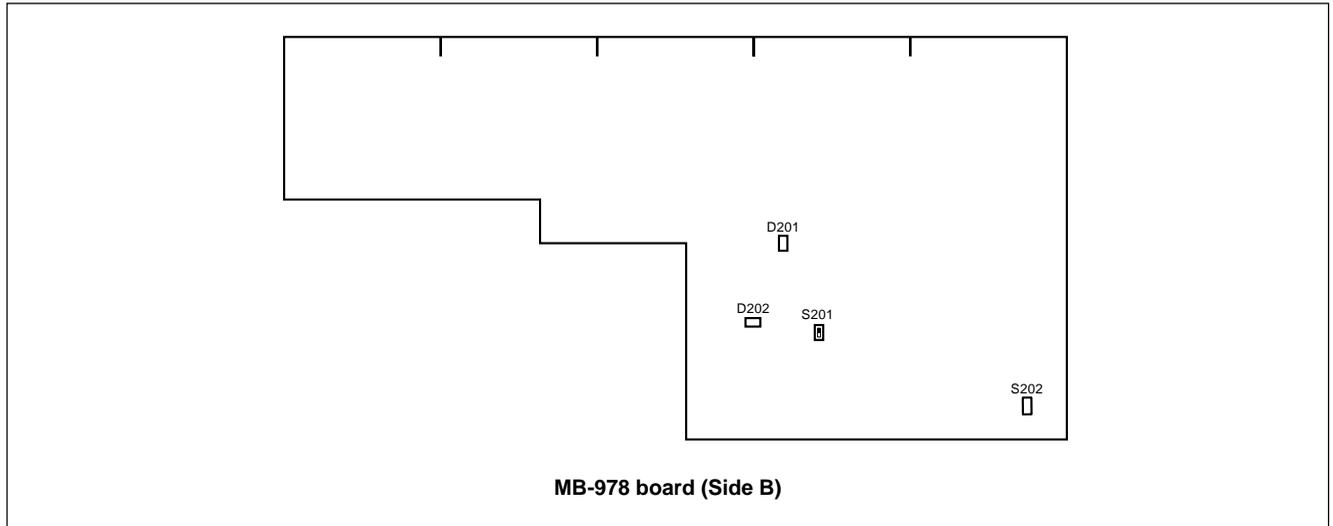


Installation hole dimensions



1-4. Setting of Switches and Description of LEDs on Board

MB-978 Board



MB-978 board (Side B)

Switches

S201 (D-1): MMC BOOT

Set this switch to ON when starting up the UCP-8060 using the boot-up MultiMediaCard (MMC). This switch is invalid when the boot-up MMC is not inserted into the CN201 (D-1). Usually, this switch is not used.

Factory default setting: ON

S202 (E-1): RESET

This is a reset switch.

Indicators

D201 (green) (D-2): MMC

This indicator is off under normal operation.

This indicator blinks when S201 on the MB-978 board is set to ON and MMC is inserted.

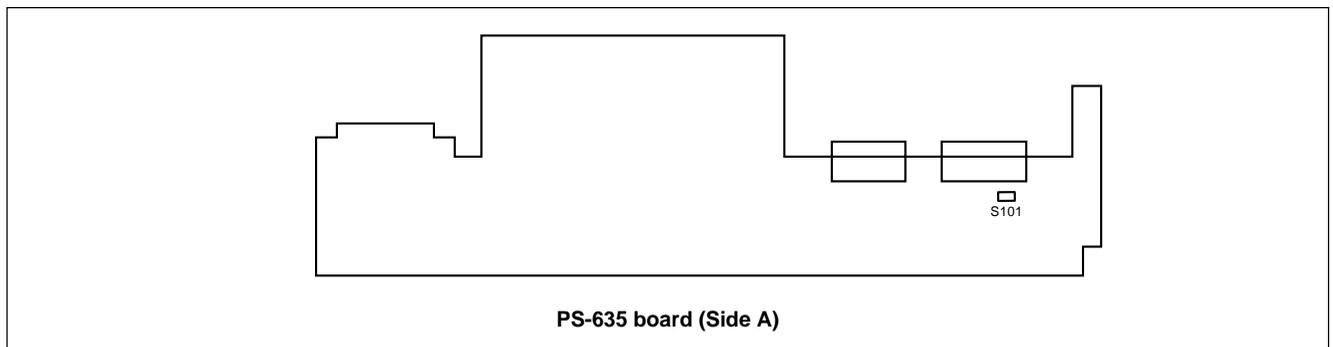
When the error is detected by the self-diagnosis during power on sequence, this indicator blinks according to the error detected. (The result is also displayed on the system indicator of the panel.)

D202 (red) (C-1): CONFIG DONE

This indicator is off under normal operation.

This indicator lights while the data is written on FPGA IC during power on sequence after power on or resetting of the hardware.

PS-635 Board



PS-635 board (Side A)

Switch

S101 (F-2): Spare switch

This switch is for future expansion and is not currently used.

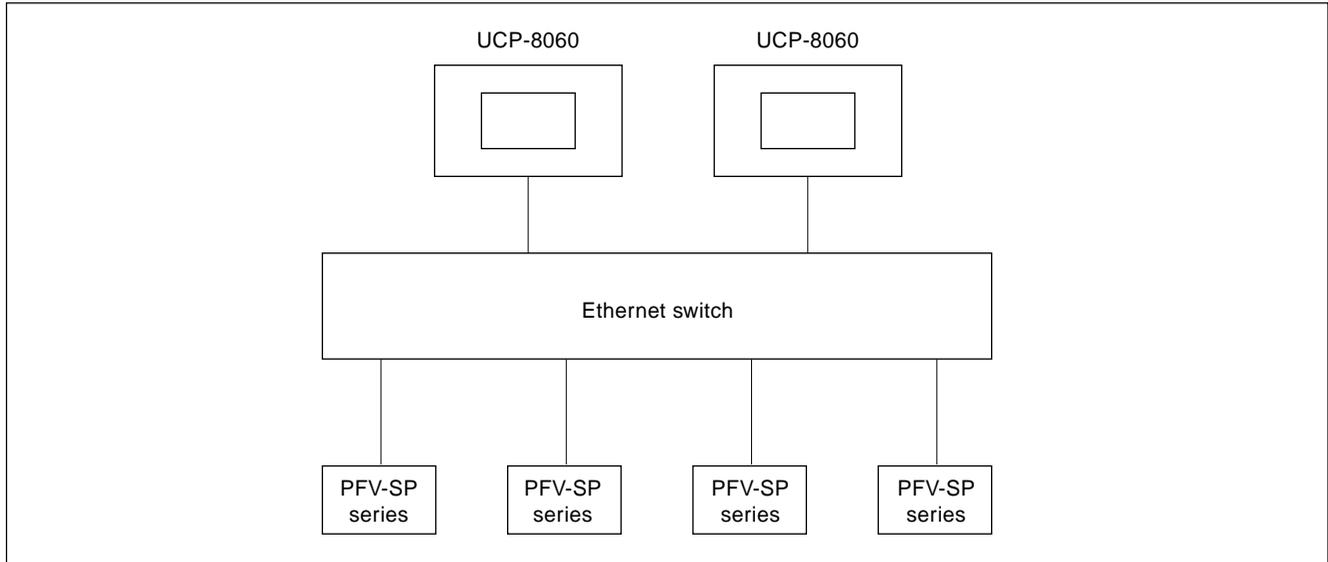
Factory default setting: OFF

1-5. System Connection

1-5-1. Connection Outline

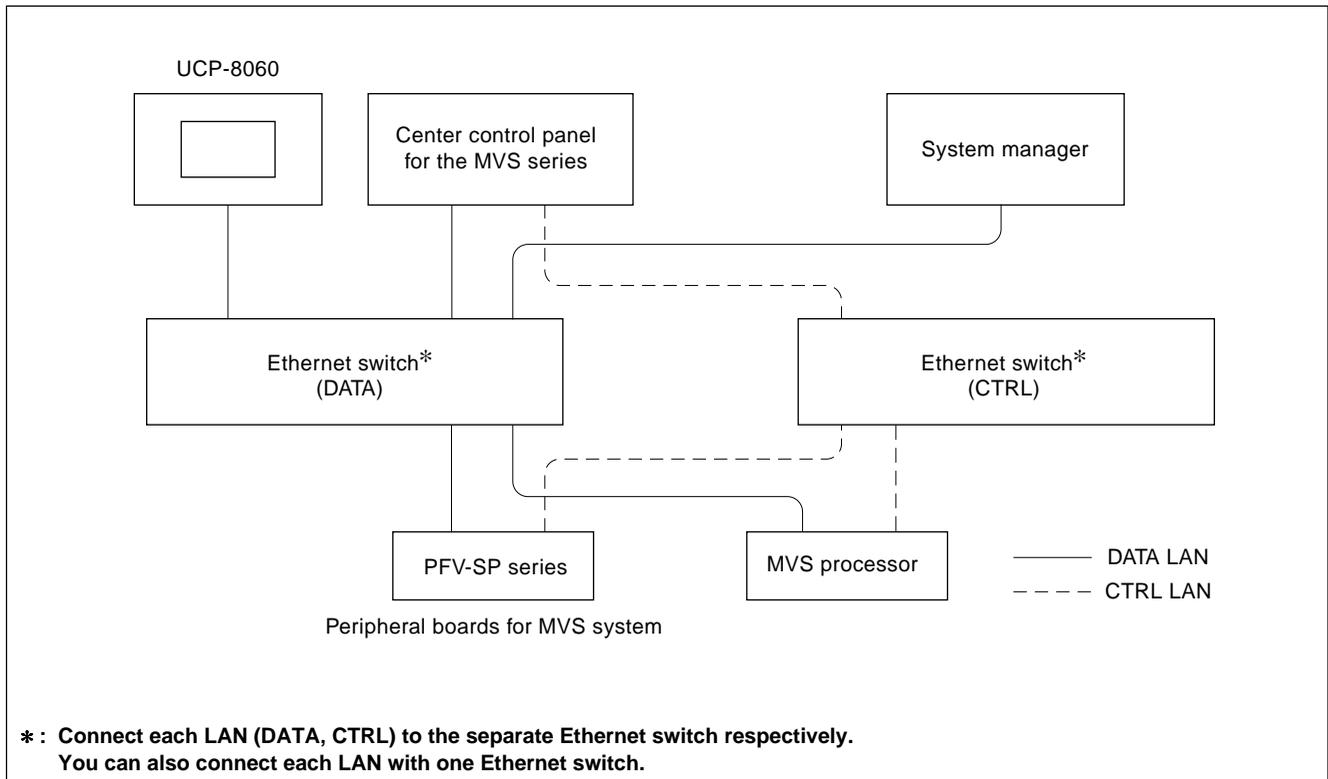
Example of connection with PFV-SP series (general connection)

This is a very general example of having UCP-8060s set up to control PFV-SP series units via a DATA LAN.



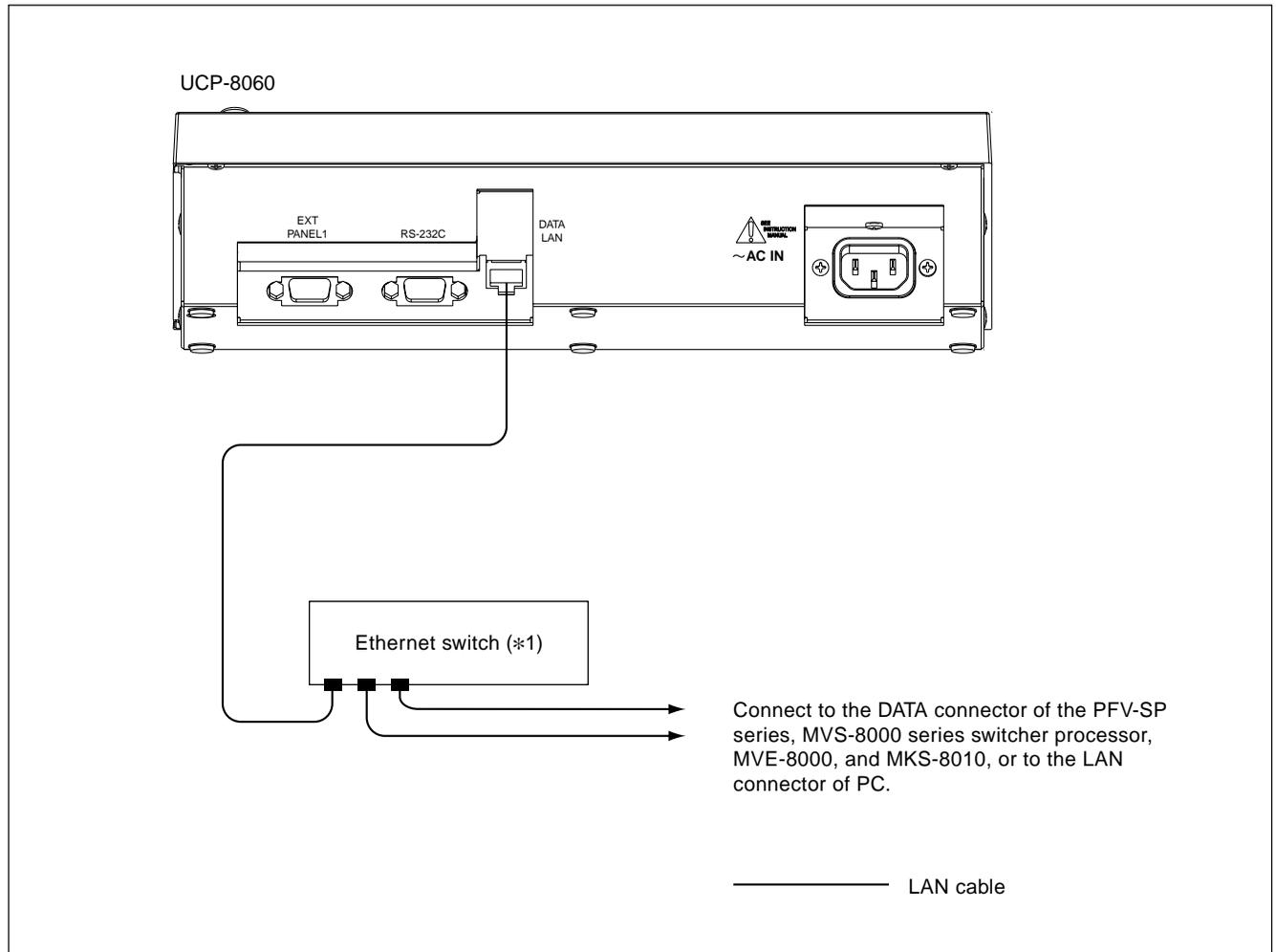
Example of connection with MVS series

The UCP-8060 is used as a satellite panel to remotely control the keyer in the MVS system.



1-5-2. Connection Example

Refer to the following diagram and connect the UCP-8060 to the other products.



*1: Use the Ethernet switch that is compliant with 100BASE-TX.
For details on the usable Ethernet switch, contact your local Sony Sales Office/Service Center.

1-6. Rack Mounting

You can use the UCP-8060 by mounting it on the 19 inch standard rack with the supplied rack angle A and B attached.

CAUTION

After rack mounting, be sure to tighten the screws of the rack angle and fix this unit to the rack.
If not, this unit may slide and fall from the rack. This causes an injury.

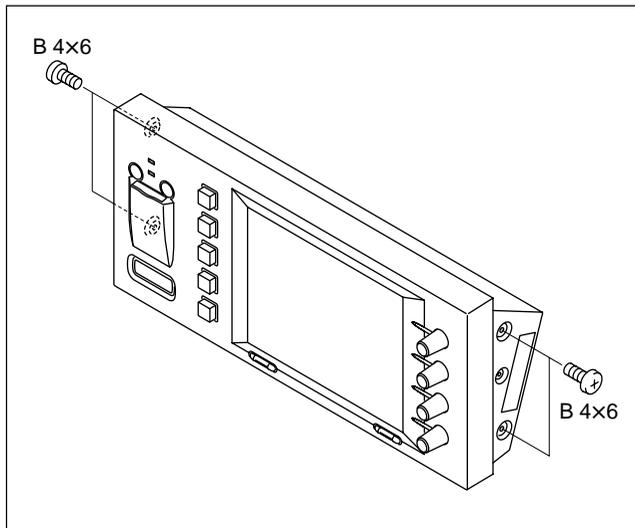
Note

Install a ventilating fan in the rack to prevent the increase in the temperature inside a rack when multiple units are put in one rack.

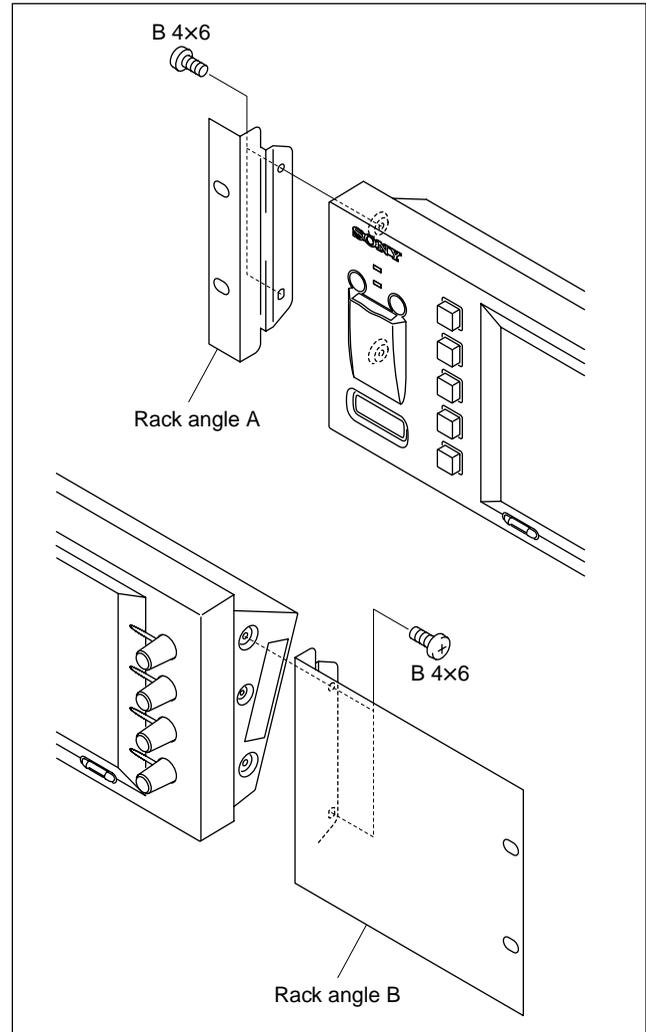
<Required items>

- Accessories
 - Rack angle A for 19 inch rack mounting : 1 pc
 - Rack angle B for 19 inch rack mounting : 1 pc
- Screws for rack mounting (RK 5×16): 4 pcs
- Ornamental washers for rack mounting: 4 pcs
(Sony part number: 2-297-913-01)

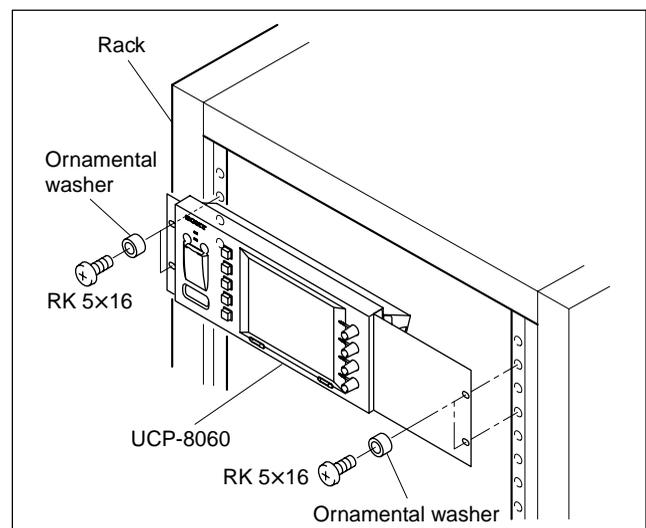
1. Remove four screws from the both sides of the UCP-8060.



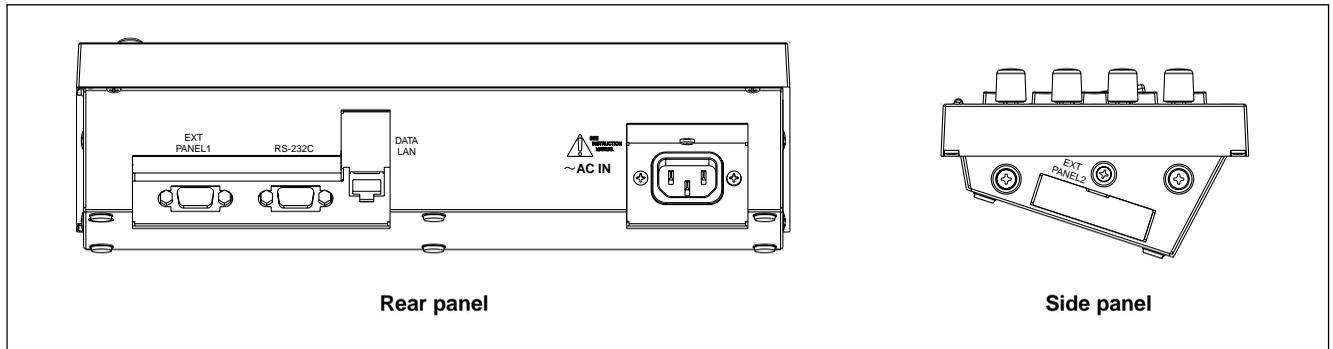
2. Attach the rack angle A and rack angle B using the four screws removed in step 1.



3. Secure the unit to the rack using the four rack mounting screws (RK 5×16) and four ornamental washers.



1-7. Matching Connectors and Cables



UCP-8060 Connector/ Connector function name	Connector name	Matching connector/cable Connector name	Sony part No.
DATA LAN	RJ-45 modular jack *1	Cable to meet the spec. 1 below	
RS-232C	D-sub 9-pin, male	RS-232C cross cable (available on the market) to meet the spec. 2 below	
EXT PANEL1 *2	D-sub 9-pin, female	D-sub 9 pin, male • Connector pin, male • Junction Shell	1-560-651-00 *3 1-561-749-00
EXT PANEL2 *2	FX2 20 pin, receptacle	FX2 20 pin, plug	

*1: Conform to IEEE802.3 Ethernet 100 BASE-TX standard.

*2: Not used currently.

*3: The following crimp contacts are required for the plug.

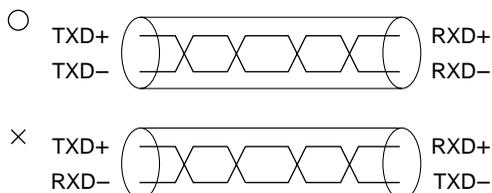
AWG#18 to #22: 1-566-493-11

AWG#22 to #24: 1-564-774-11

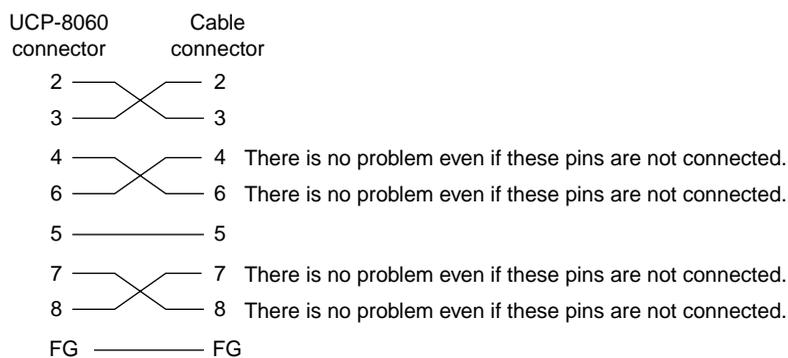
AWG#24 to #28: 1-564-775-11

Spec. 1

- Shall be a shield cable.
- The pair (+, -) of signal is correctly connected to the twist pair in the cable.

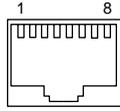


Spec. 2



1-8. Signal Inputs/Outputs

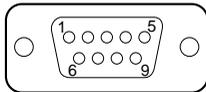
DATA LAN : 100BASE-TX (RJ-45 8-pin modular jack)



– EXT VIEW –

Pin No.	Signal	I/O	Function
1	TD+	O	Transmitted data (+)
2	TD-	O	Transmitted data (-)
3	-	-	No connection
4	FG	-	Frame ground
5	FG	-	Frame ground
6	-	-	No connection
7	RD+	I	Received data (+)
8	RD-	I	Received data (-)

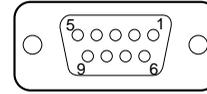
RS-232C : RS-232C (D-sub 9-pin, male)



– EXT VIEW –

Pin No.	Signal	I/O	Function
1	DCD	I	Data carrier detect
2	RXD	I	Received data
3	TXD	O	Transmitted data
4	DTR	O	Data terminals ready
5	GND	-	Ground
6	DSR	I	Data set ready
7	RTS	O	Request to send
8	CTS	I	Clear to send
9	-	-	No connection

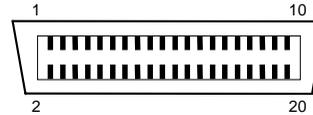
EXT PANEL1 : RS-485 (D-sub 9-pin, female)



– EXT VIEW –

Pin No.	Signal	I/O	Function
1	FG	-	Frame ground
2	TXD-	O	Transmitted data (-)
3	RXD+	I	Received data (+)
4	RXD-COM	-	Received data ground
5	-	-	No connection
6	TXD-COM	-	Transmitted data ground
7	TXD+	O	Transmitted data (+)
8	RXD-	I	Received data (-)
9	FG	-	Frame ground

EXT PANEL2 : RS-485 (FX2 20-pin, receptacle)



– EXT VIEW –

Pin No.	Signal	I/O	Function
1	GND	-	Ground
2	GND	-	Ground
3	GND	-	Ground
4	GND	-	Ground
5	-	-	No connection
6	-	-	No connection
7	+5 V	O	DC +5 V output
8	+5 V	O	DC +5 V output
9	TXD-	O	Transmitted data (-)
10	TXD+	O	Transmitted data (+)
11	RXD+	I	Received data (+)
12	RXD-	I	Received data (-)
13	+5 V	O	DC +5 V output
14	+5 V	O	DC +5 V output
15	FG	-	Frame ground
16	-	-	No connection
17	FG	-	Frame ground
18	GND	-	Ground
19	FG	-	Frame ground
20	GND	-	Ground

1-9. Installation of Operation Software

1-9-1. Preparation for Installation and Overview

In the UCP-8060, several operation software programs are preinstalled at the factory shipment. When you want to use the operation software other than those, install it according to the following procedures.

Note

The capacity of memory to store the operation software is limited. It may be required to remove the installed operation software depending on the capacity required for the operation software you want to install. For the procedure of removing an operation software, refer to the operation manual.

You can install the operation software by using the Memory Stick or by using the Internet (HTTP server). (Refer to "1-9-2. Selection of Installation Method")

Required equipment

- Operation software you want to install (2 files with extensions "jar" and "jad")

Note

To obtain the operation software, contact your local Sony Sales Office/Service Center.

In the case of installing using the Memory Stick

- Personal computer (that can copy files to the Memory Stick)
- Memory Stick

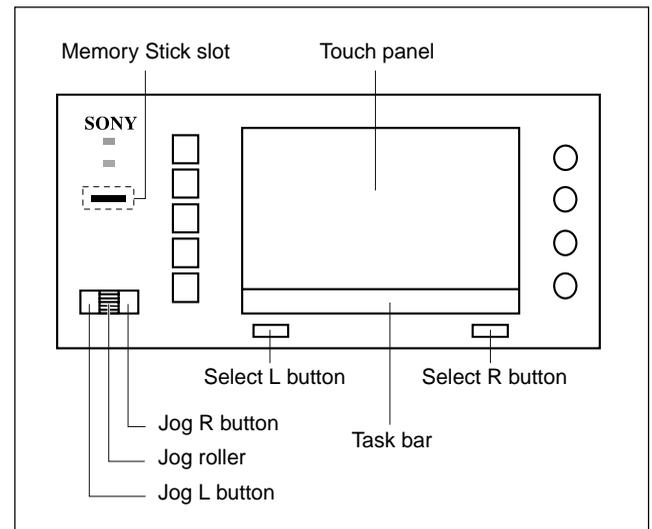
In the case of installing using the Internet

- HTTP server

Note

For the details on HTTP server, contact your network administrator.

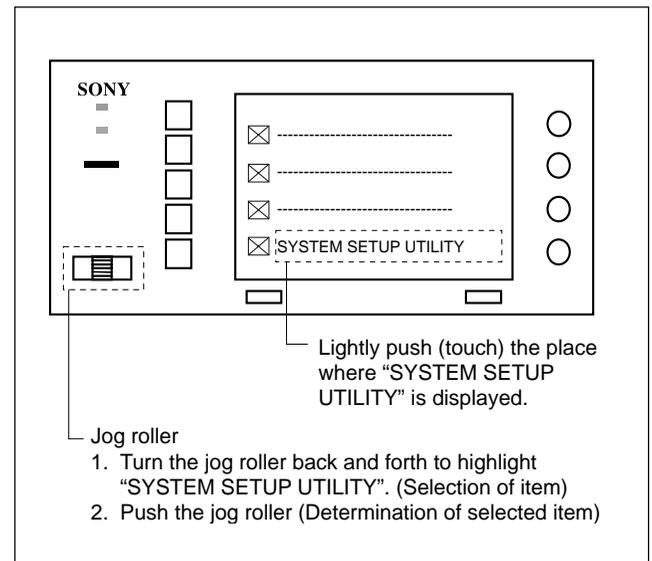
Names of switches and buttons



To enter menu

You can enter each menu by using touch panel or by using jog roller.

Example) To enter "SYSTEM SETUP UTILITY" menu



Preparation

Note

About the button name in this manual

Example) Select L (Menu) button

→ The word in the parenthesis is the characters displayed on the task bar. In this example, “Menu” is displayed on the task bar located in the upper area of the select L button.

1. Copy the operation software (with the extensions “jad” and “jar”) to either one of the following using the personal computer.
 - Memory Stick

Copy to the following folder in the Memory Stick.

F : /MSSONY/PRO/UCP/

Folder

Drive of the Memory Stick on the personal computer

Note

If a file or folder in the Memory Stick has the name with the character other than ASCII code, the operation software may not be installed.

- HTTP server (when using Internet)
2. When using the Memory Stick, insert it into the Memory Stick slot. When using the Internet, check that the UCP-8060 is connected to the Internet.

Note

For the details on the network connection, including the IP address of the HTTP server, contact your network administrator.

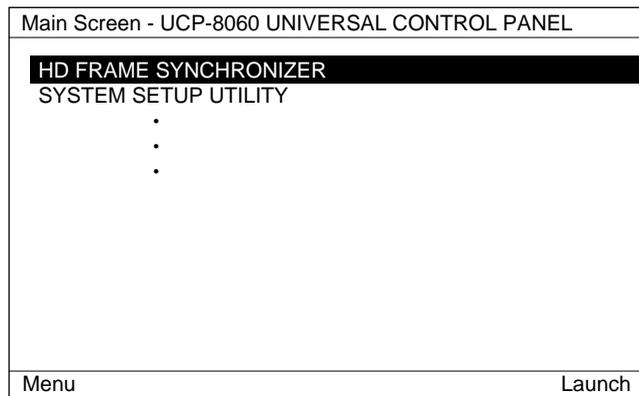
1-9-2. Selection of Installation Method

In this section, selects whether the operation software is installed using a Memory Stick or Internet.

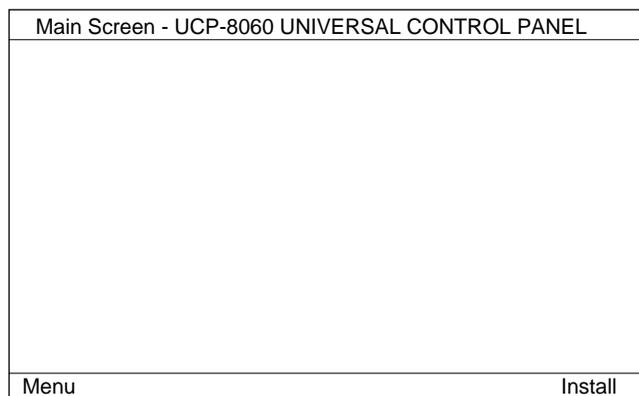
In the factory setting, “Memory Stick” is selected. If you do not change the setting, the following procedure is not required.

1. Turn on the power of the UCP-8060.
The Main Screen appears.

In the case that any one of the operation software is installed.



In the case of the operation software is installed for the first time



- Press the Select L (Menu) button from the Main Screen.
The Menu display appears.

In the case that any one of the operation software is installed.

Menu	
1, Info	
2, Update	
3, Remove	
4, Auto Start	
5, Install	
6, Install Settings	
7, Shutdown	
8, About	
Back	Enter

In the case of the operation software is installed for the first time

Menu	
1, Install Settings	
2, Shutdown	
3, About	
Back	Enter

- Select “Install Settings” using the jog roller, then press the select R (Enter) button.
The Install Settings display appears.

Install Settings	
<input checked="" type="radio"/> Memory Stick	
<input type="radio"/> Internet	
URL (default)	
http://	
Exit	Save

- Select the installation method using the jog roller.
When using the Memory Stick: “Memory Stick”
When using the Internet: “Internet”

Note

When you select the Internet, it is recommended to enter the URL you frequently use in advance. Hereby, you do not have to enter it at every installation.

URL entering procedure

- Select “http://” using the jog roller, then press the jog roller.
- Press the keyboard icon on the task bar.
- Enter the URL from the popped up keyboard on the display.
When you enter the upper case characters or “/”, press the “shift”.
- Press the select R (OK) button.
- Press the select R (Save) button.

URL (default)	
http://	
Back	Save

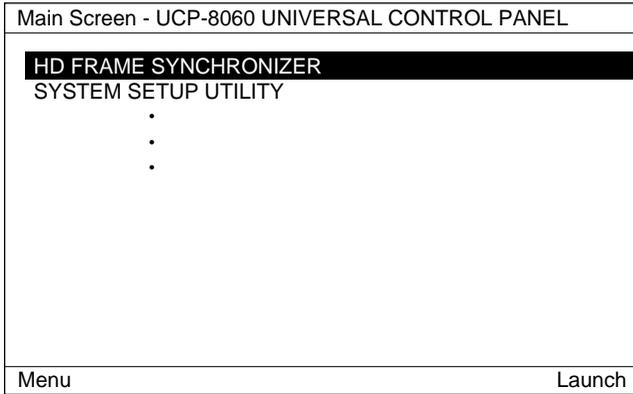
↑ Keyboard icon

- Press the select R (Save) button.
Return to the Menu display.

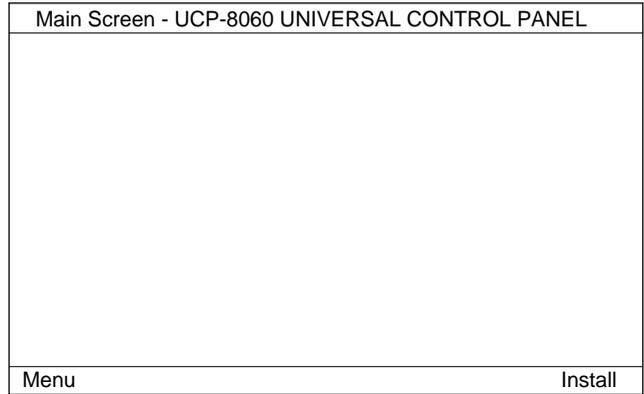
1-9-3. Installation

1. Turn on the power of the UCP-8060.
The Main Screen appears.

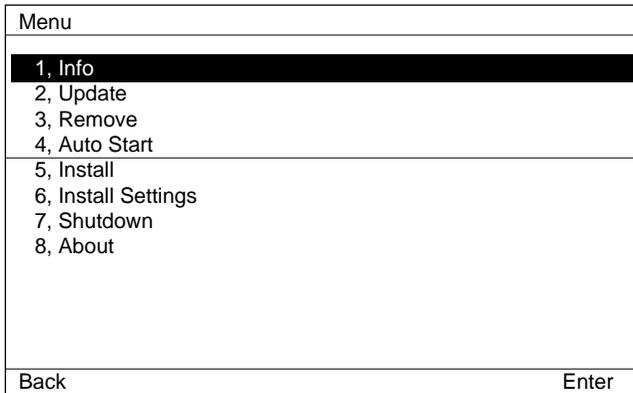
In the case that any one of the operation software is installed.



In the case of the operation software is installed for the first time



2. Display the Install display with the following procedure.
 - (1) Press the select L (Menu) button from the Main Screen.
The Menu display appears.



2. Display the Install display with the following procedure.
 - (1) Press the select R (Install) button.

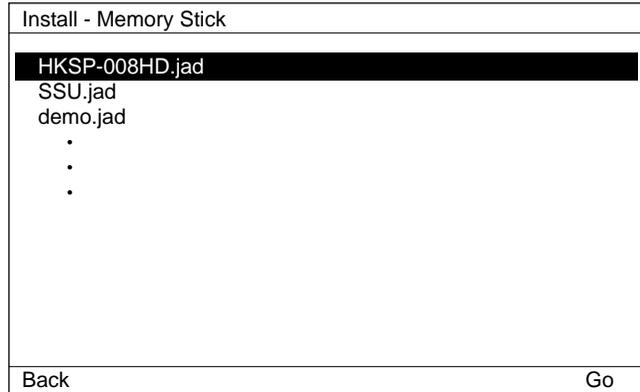
- (2) Select "Install" using the jog roller, then press the select R (Enter) button.

Go to step 3.

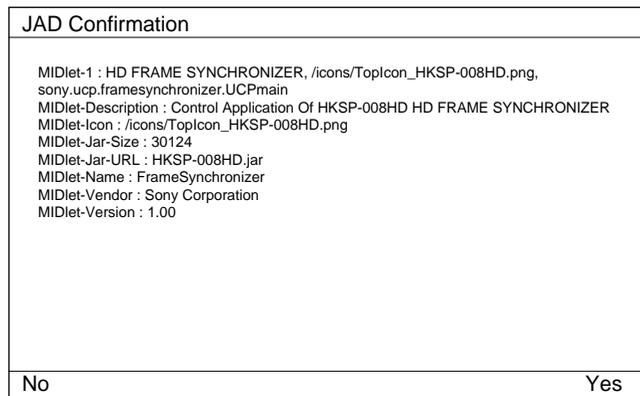
3. Install the operation software according to the following steps. (The steps vary depending on the method selected in Section 1-9-2.)

In the case of using the Memory Stick

- (1) Check that the files with the extension “jad” in the Memory Stick are displayed.

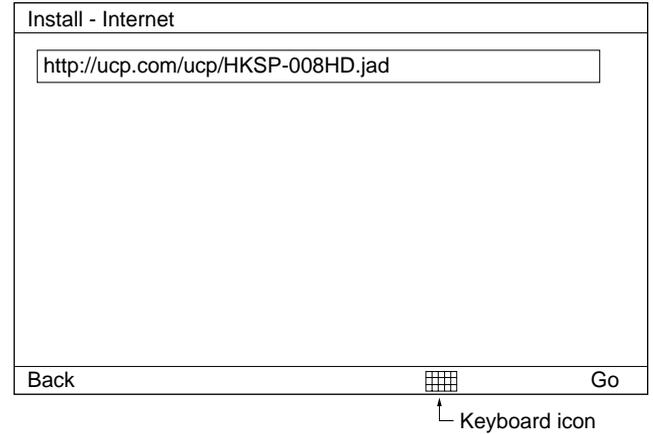


- (2) Select the file name of the operation software you want to install using the jog roller, then press the select R (Go) button. The information of the operation software (JAD Confirmation) to be installed is displayed.



In the case of using the Internet

- (1) Touch the keyboard icon of the task bar on the Install display.



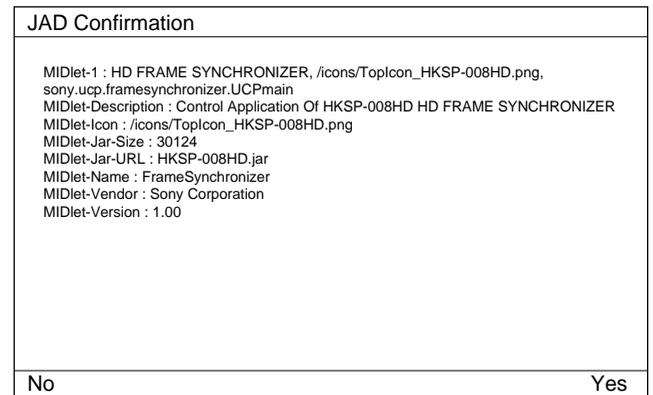
- (2) Enter the URL of the site in which the operation software is stored, and the file name using the keyboard on the screen.

Note

Be sure to enter the file name with the extension “jad”.

- (3) Press the select R (OK) button.
- (4) Press the select R (Go) button.

The information of the operation software (JAD Confirmation) to be installed is displayed.



Go to step 4.

4. If the contents are correct, press the select R (Yes) button. The installation starts.

Note

The status indicator on the panel is lit or blinks during reading or writing of the data. Be careful not to turn off the power or remove the Memory Stick at that time. Otherwise, the data may be damaged.

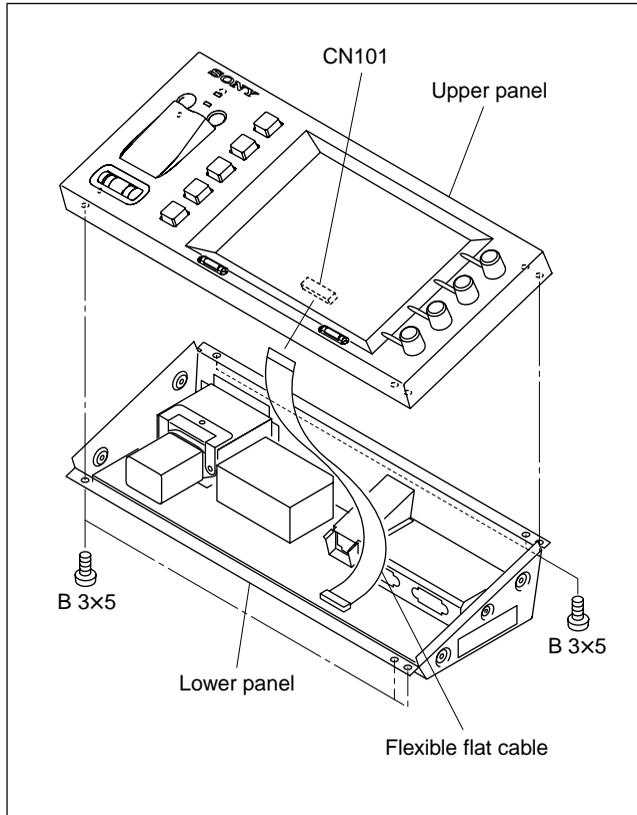
5. When the message for the completion of installation is displayed, press the select R (Restart) button.
6. Check that the name of the installed operation software is displayed on the Main Screen.

Section 2

Service Overview

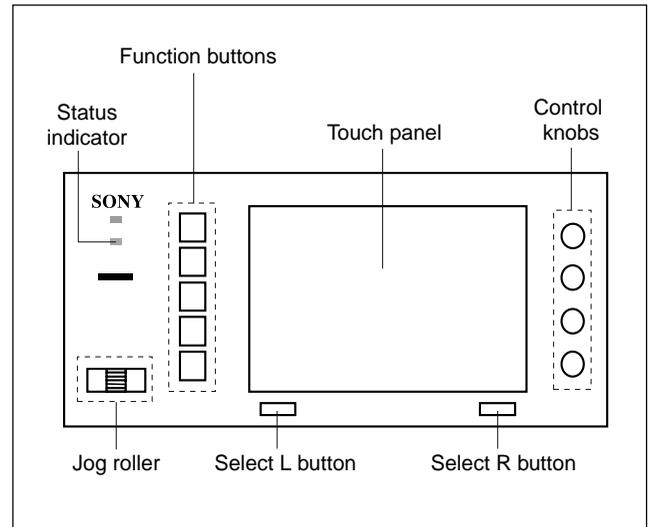
2-1. Removal of Upper Panel

1. Remove the six screws, then remove the upper panel.
2. Disconnect one flexible flat cable from the connector (CN101) on the MB-978 board.



2-2. Self Diagnosis

The operation of each device can be checked by the following three menus.



Self Diagnosis menu

This menu is used to check the operation of jog roller, function buttons, and control knobs.

Device Control menu

This menu is used to check the following:

Brightness of back light

Brightness when function button is lit

Buzzer volume

Whether the feel of TouchEngine™ can be adjusted

Whether the buzzer sound when the touch panel is touched can be set to ON/OFF

Scribble Test menu

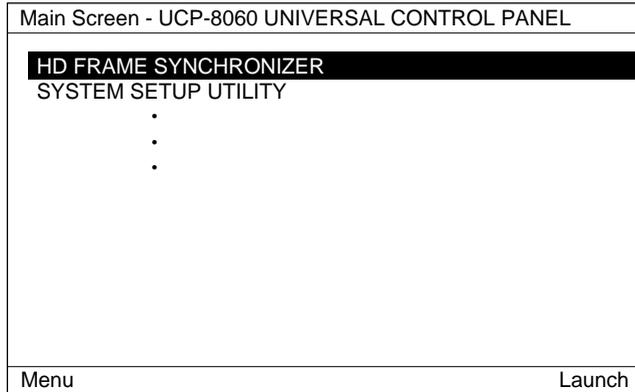
This menu is used to check the operation of touch panel.

Startup of self diagnosis

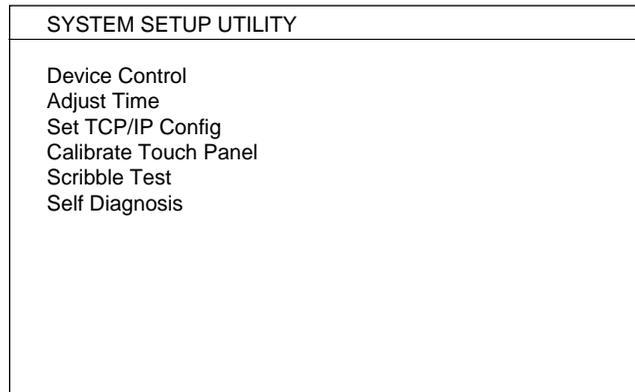
1. Turn on the power of the UCP-8060.
The Main Screen appears.

Note

The following display shows the example when the operation software is already installed.

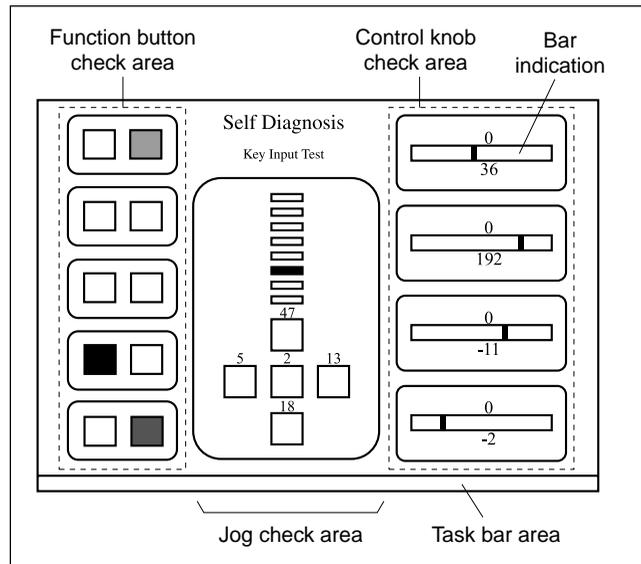


2. Enter the SYSTEM SETUP UTILITY menu using the touch panel or jog roller.



3. Enter the menu you want to perform the self diagnosis using the touch panel or jog roller.

Self Diagnosis



Function button:

1. Keep pressing the function button you want to check.
2. Check that the corresponding button indicator changes as follows while pressing the function button.
 - Left button indicator: Changes to black.
 - Right button indicator: Changes in the order of OFF → green → red → amber → OFF.

Jog roller:

1. Turn the jog roller.
Check that the corresponding black portion in the jog check area moves according to the move of the jog roller.
2. Push the jog roller.
Check that the corresponding portion on the screen is indicated in black.
3. Press the jog L and R buttons.
Check that the corresponding portion on the screen is indicated in black.

Note

The number of pressing buttons or the rotational pulse number is displayed during the above diagnosis.

Control knob:

1. Turn the control knob slowly.
2. Check that the bar in the control knob check area moves.

Note

The upper number shows the pulse number within a short period of time and the lower number shows the total pulse number.

Select R button

1. Press the select R button.
2. Check that the number displayed on the task bar area increases.

Select L button:

Press the select L button. The operation of the button is normal if the mode exits from the Self Diagnosis menu.

Device Control

1. Turn the jog roller and select the item for self-diagnosis.

Note

For details of each item, refer to the operation manual supplied with the UCP-8060.

2. Press the jog L or R button, and check that the display changes accordingly.

Scribble Test

1. Scribble in the area you want to check operation using fingernail, etc.
2. Check that the trace is displayed.

Note

The task bar area cannot be checked.

Exit from self diagnosis mode

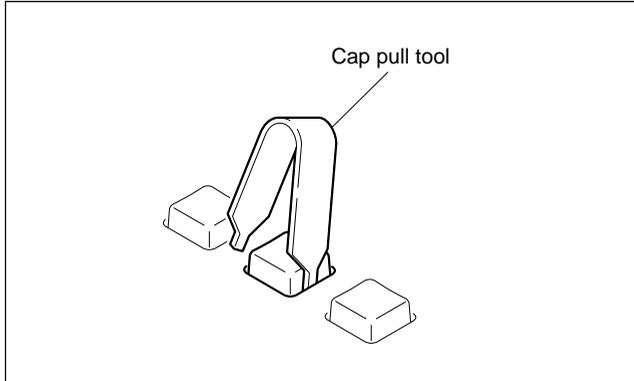
Press the select L (Exit) button.

2-3. Replacement of Key Tops

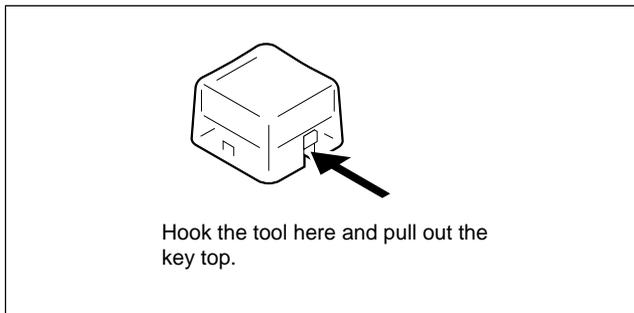
For removing the key tops, use the cap pull tool.

Part number: 3-179-054-01

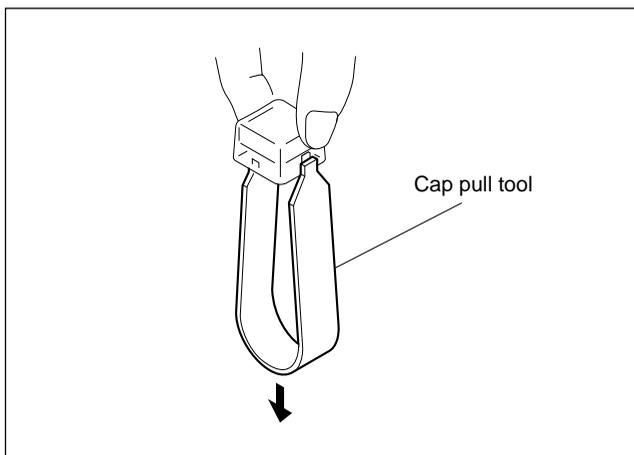
1. Insert the cap pull tool between key and the panel as shown in the figure.



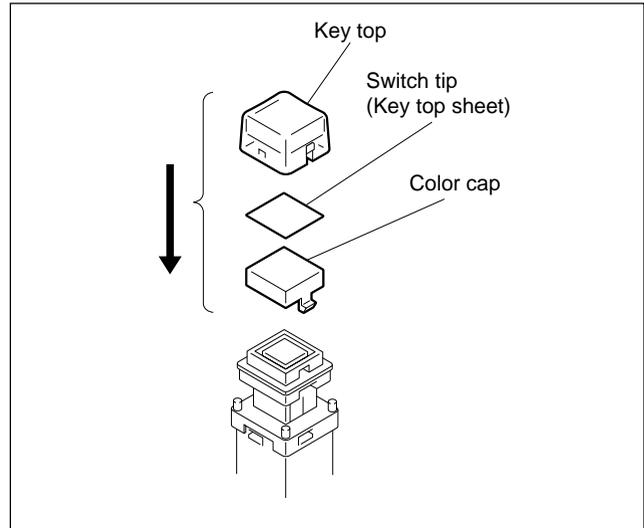
2. Hold the key top, then remove it.



3. Remove the color cap (milky white color) with the cap pull tool from the removed key top.



4. Insert the switch tip or key top sheet between color cap (milky white color) and the key top (clear), and assemble them by pushing them in the key.



2-4. Software Reset

In the UCP-8060, the software can be reset (warm start) using the select L and R buttons.

To reset the software, press the select L and R buttons simultaneously for three seconds.

2-5. Making Boot-up MultiMediaCard (MMC)

The boot-up MMC is used for the recovery of the system file when it is damaged.

The made boot-up MMC can also be used for the recovery of other UCP-8060. Keep the boot-up MMC with care.

Required equipment

- Personal computer (PC hereafter) that can copy files to the Memory Stick
- Memory Stick in which nothing is written
- MMC in which nothing is written
- Boot-up MMC making file
To obtain the file, contact your local Sony Sales Office/ Service Center.

Preparation

1. Insert the Memory Stick into the Memory Stick slot of the UCP-8060.
2. Format the Memory Stick.

Note

Use the format function of the UCP-8060. For the formatting procedures, refer to the operation manual.

3. Remove the Memory Stick from the Memory Stick slot.
4. Insert the Memory Stick into the Memory Stick slot of the PC.
5. Uncompress the boot-up MMC making file on the PC.
6. Copy all the uncompressed data to the following folder in the Memory Stick.

F : /MSSONY/PRO/UCP/
└── Folder

└── Drive of the Memory Stick on the PC

7. Turn off the power of the UCP-8060.
8. Remove the six screws of the upper panel, then open the upper panel. (Refer to Section 2-1.)
9. Turn on the power of the UCP-8060.

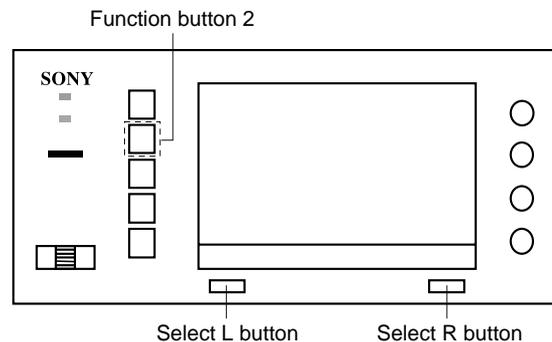
Making boot-up MMC

1. Start the "Update Utility".
 - (1) Press the select L (Menu) button from the Main Screen, then enter "Shutdown" menu from the Menu Screen. (Refer to Section 1-9-2.)
 - (2) While pressing the function button 2, press the select R button (Reboot).

Note

The "Update Utility" can be started also in the following procedures.

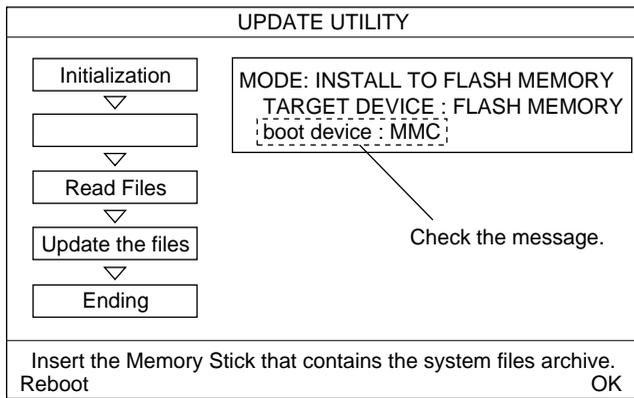
- (1) While pressing the function button 2, press the select L and R buttons simultaneously for three seconds.
- (2) When the function button 2 lights on, release all buttons.



2. Insert the MMC to the CN201 (D-1) on the MB-978 board.
3. Insert the Memory Stick to which the boot-up MMC making file is copied into the Memory Stick slot.
4. Press the select button according to the message on the screen. Usually, press the select R button for all until the message that shows the completion of making the boot-up MMC is displayed.

Confirmation

1. Check that S201 (D-1) on the MB-978 board is set to ON.
2. After the message that shows the completion of making the boot-up MMC is displayed, press the select R button (Reboot).
The Main Screen in the state that no operation software is installed is displayed.
3. Start the "Update Utility". (Refer to "Making boot-up MMC" on the previous page.)
4. Check that "boot device : MMC" is displayed on the "Update Utility" screen.



Quit

1. Turn off the power of the UCP-8060.
2. Remove the boot-up MMC.
3. Remove the Memory Stick from the Memory Stick slot.
4. Close the upper panel, then attach it with the six screws.

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