# HVS-2000 Quick Setup Guide
## 2120ROU/2240OU/2240OUA/3320OU
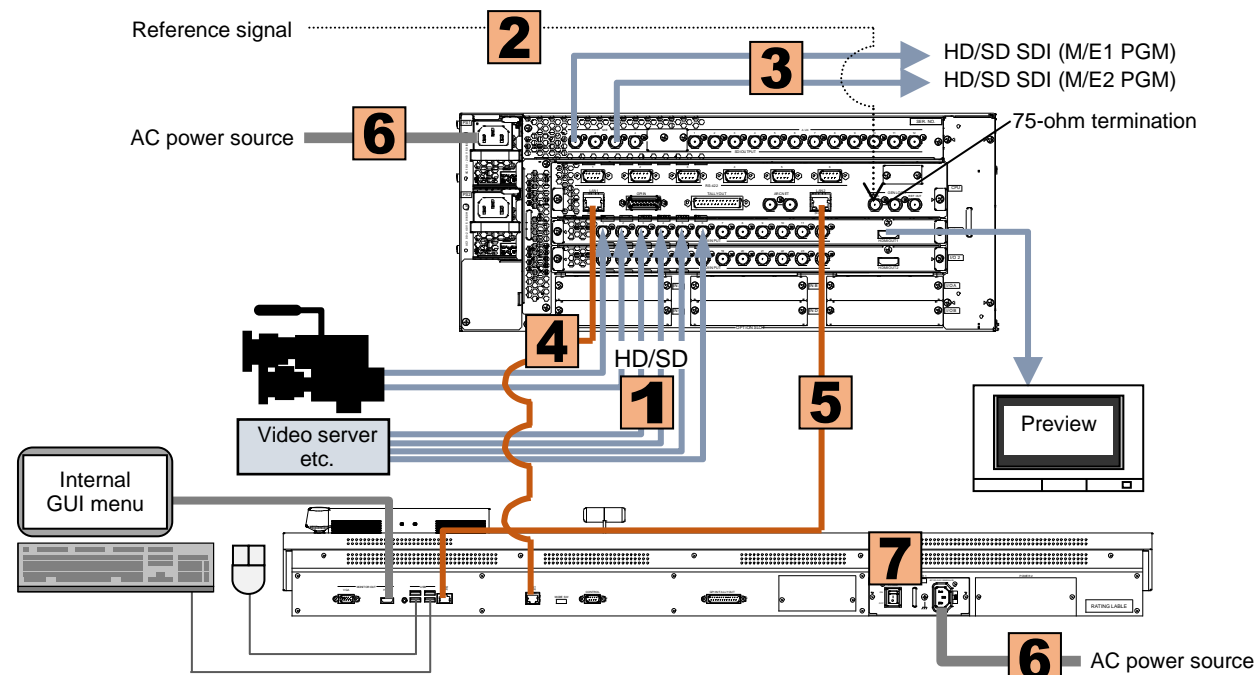
| HVS-2000 bundled items | |
|---|---|
| AC Cable | 1 |
| Rack mount brackets | 1 |
| CD-ROM (User Manuals) | 1 |
| Quick Setup Guide (this guide) | 1 |

| OU bundled items | 2120 | 2240 | 3320 |
|---|---|---|---|
| LAN cable | 2 | 2 | 2 |
| AC Cable | — | 1 | 1 |
| AC Adapter | 1 | 2 | |
| Bus button partition plates | — | 10 | 21 |
| User button cover plates | — | — | 10 |

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## 1. Connection

(1) Connect SDI video signal inputs.
(2) Input a reference signal. Terminate the other connector with 75-ohm, if it is not looped-through.
(3) Connect combined SDI video signal outputs.
(4) Use the supplied LAN cable to connect HVS-2000 LAN1 (MAIN) to LAN1(MAIN) on the control panel.
(5) Use the supplied LAN cable to connect HVS-2000 LAN2 (SUB) to LAN2(SUB) on the control panel.
(6) Supply power to HVS-2000 and the control panel respectively using the supplied AC cables.
(7) Turn on power switch(es) on the control rear panel.
(8) Turn on power switch(es) on the HVS-2000 front panel.

Reference signal

2

3 → HD/SD SDI (M/E1 PGM)
→ HD/SD SDI (M/E2 PGM)

AC power source

6

75-ohm termination

4

1

HD/SD

5

Video server etc.

Preview

Internal GUI menu

7

6 → AC power source

* HDMI outputs (AUX13 and AUX14) can display input sources, as well as combined images such as preview, program or multiview.
* An Ethernet hub can be used for LAN1 and LAN2 connections.
* Internal GUI menu operation, which is linked with the panel menu, is available by connecting a monitor to the HDMI or VGA connector on the control panel.

## 2. Setup

### Select the System Signal Format
(1) The touch panel menu is displayed on the control panel at power ON.
(2) Tap the **SETUP** tab in the menu display.
(3) Tap **SYSTEM**, then **FORMAT** to display the [SETUP > SYSTEM > FORMAT] menu.
(4) Turn F1 to select the signal format, then press F1.
(5) Turn F2 to select the aspect ratio.
(6) Tap **REBOOT** to display the [SETUP > SYSTEM > REBOOT] menu.
(7) Turn F1 to select EXEC under REBOOT, then press F1 to reboot the system.
After a restart, the new format is applied.

* All inputs are equipped with a frame synchronizer. Open the [SYSTEM > INPUT > SIGNAL] menu and turn on FS, as needed. (Turn F1 to select an input, then turn F4 to set **FS** to ON.)
* Open the [SETUP > SYSTEM > TIME] menu to set date and time.

## 3. Select Output Video

HVS-2240OU

Operations on HVS-2120ROU / 3320OU are almost the same as those on HVS-2240OU.

HVS-2000

### Select an M/E1PGM Video
Press a bus button on the M/E1PGM row.
The corresponding video will appear on **M/E OUT1**.

M/E1PGM

### Select an M/E2PGM Video
Press a bus button on the M/E2PGM row.
The corresponding video will appear on **M/E OUT3**.

M/E2PGM

### Select an AUX Video
(a) To output INPUT1 from AUX1, press AUX1, then 1 as shown below.
(b) To output the M/E1 program video from AUX12:
    Press AUX12, then M/E1PGM as shown below. (HVS-2240OU)
    While holding down AUX+10, press AUX2 twice quickly to display the menu, press M/E1. (HVS-2120ROU)
    Press AUX12 twice quickly to display the menu, then turn F2 to select M/E1OUT1. (HVS-3320OU)
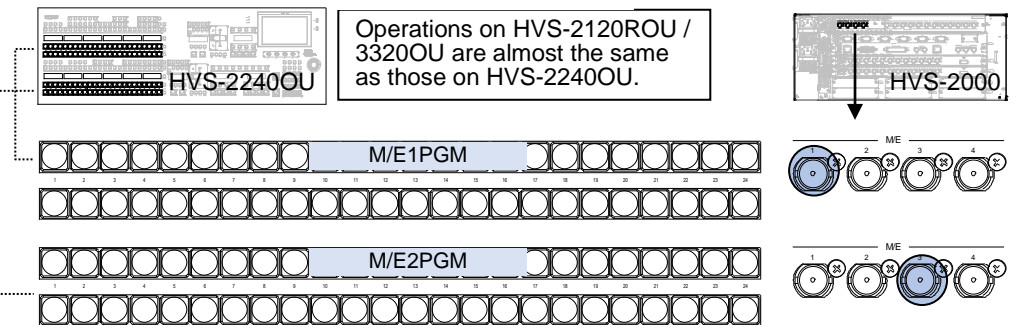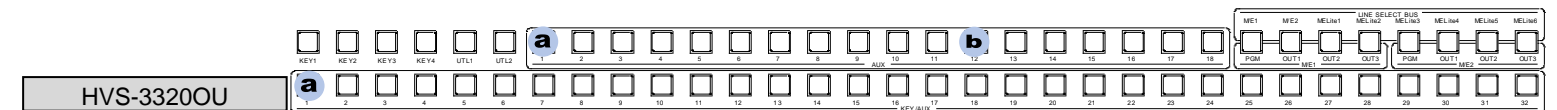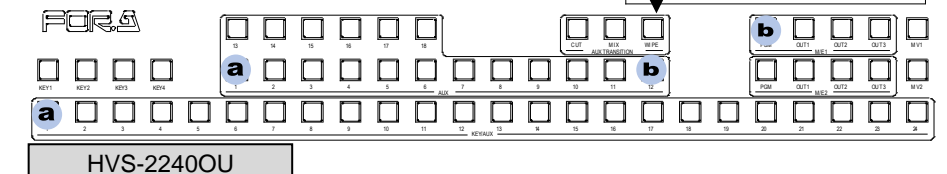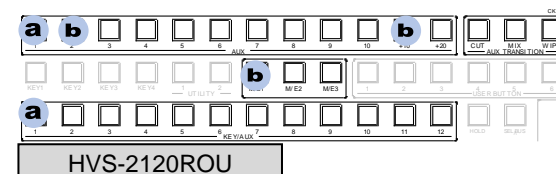
HVS-2120ROU

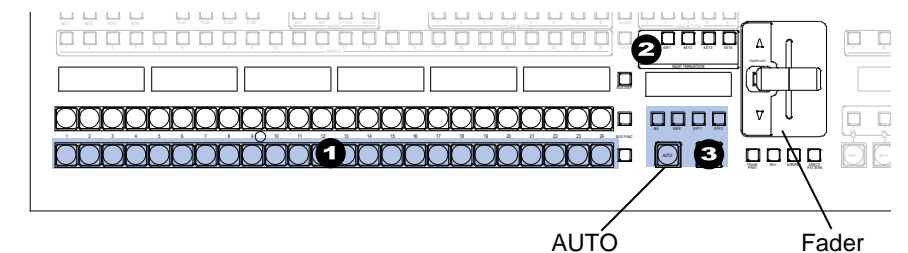HVS-2240OU

HVS-3320OU

## 4. Perform Background Transitions

(1) Select the next video on the PST bus.
(2) Verify that BKGD lights up as shown at right. If not, press the button to turn on the button light.
(3) Press CUT to perform **Cut** transitions or perform **Mix** or **Pattern** transitions. (See below instructions.) Then the background video will be replaced with a new one. As soon as the images are switched, the PGM and PST bus signals on the control panel are also switched with each other.

### To Perform MIX Transitions
(3) Press MIX. Then press AUTO.
(Or move the fader from end to end.)

### To Perform Pattern Transitions
(3) Press WIPE.
(4) Press BKGD twice quickly to display the [M/E1,2 FLEXaKEY > M/E2 > BKGD PGM > TRANS SUB EFF > TRANS] menu.
(5) Turn F3 to select a pattern.
(6) Press AUTO. (Or move the fader from end to end.)

AUTO    Fader

### Precautions
- Operate the unit **only** at the specified supply voltage.
- **Ensure** the unit is properly grounded at all times.
- **Ensure** the power cord and connectors are firmly connected.
- **Do not** install/uninstall cards with power applied to the unit.
- Unit **should not** be operated or stored with the cover, panels, and/or casing removed.

- Unit s**hould not** be operated or stored in a humid, dusty, etc. environment. Doing so could result in fire or electrical shock.
- **Do not** allow fluids, metal fragments, or any other foreign objects to enter the unit. If foreign matter does enter the unit, turn the power off and disconnect the power cord immediately. Remove the material or contact your authorized service representative.
- If you notice any strange smells or noises coming from the unit, turn the power off immediately, disconnect the power cord, then contact your authorized service representative.

# HVS-2000
## 391OU/392OU/ROU/WOU
### Quick Setup Guide

**FOR.A**

| HVS-2000 bundled items | |
|---|---|
| AC Cable | 1 |
| Rack mount brackets | 1 |
| CD-ROM (User Manuals) | 1 |
| Quick Setup Guide (This guide) | 1 |
| HVS-2000GUI software license (option) | 1 |

| 390 Series OU bundled items | |
|---|---|
| AC cable | 1 |
| Control Cable (BNC) | 1 |

## 1. Connection

(1) Connect SDI video signal inputs.
(2) Input a reference signal. Terminate the other connector with 75-ohm, if it is not looped-through.
(3) Connect combined SDI video signal outputs.
(4) Connect monitors through HDMI ports for monitoring (Preview and Multi-view images)
(5) Use the supplied connection cable to connect HVS-2000 and the control panel through Arcnet.
(6) Supply power to HVS-2000 and the control panel respectively using the supplied AC cables.
(7) Use LAN2(SUB) on the control panel to connect to the HVS-2000 GUI through LAN.
(8) Turn on power switch(es) on the control rear panel.
(9) Turn on power switch(es) on the HVS-2000 front panel.

Reference signal

HD/SD SDI (M/E1 PGM)
HD/SD SDI (M/E2 PGM)
75-ohm termination

AC power source

HD/SD SDI

Preview image

Multiview image

Video server, etc.

75-ohm termination

HVS-2000 GUI (option)

AC power source
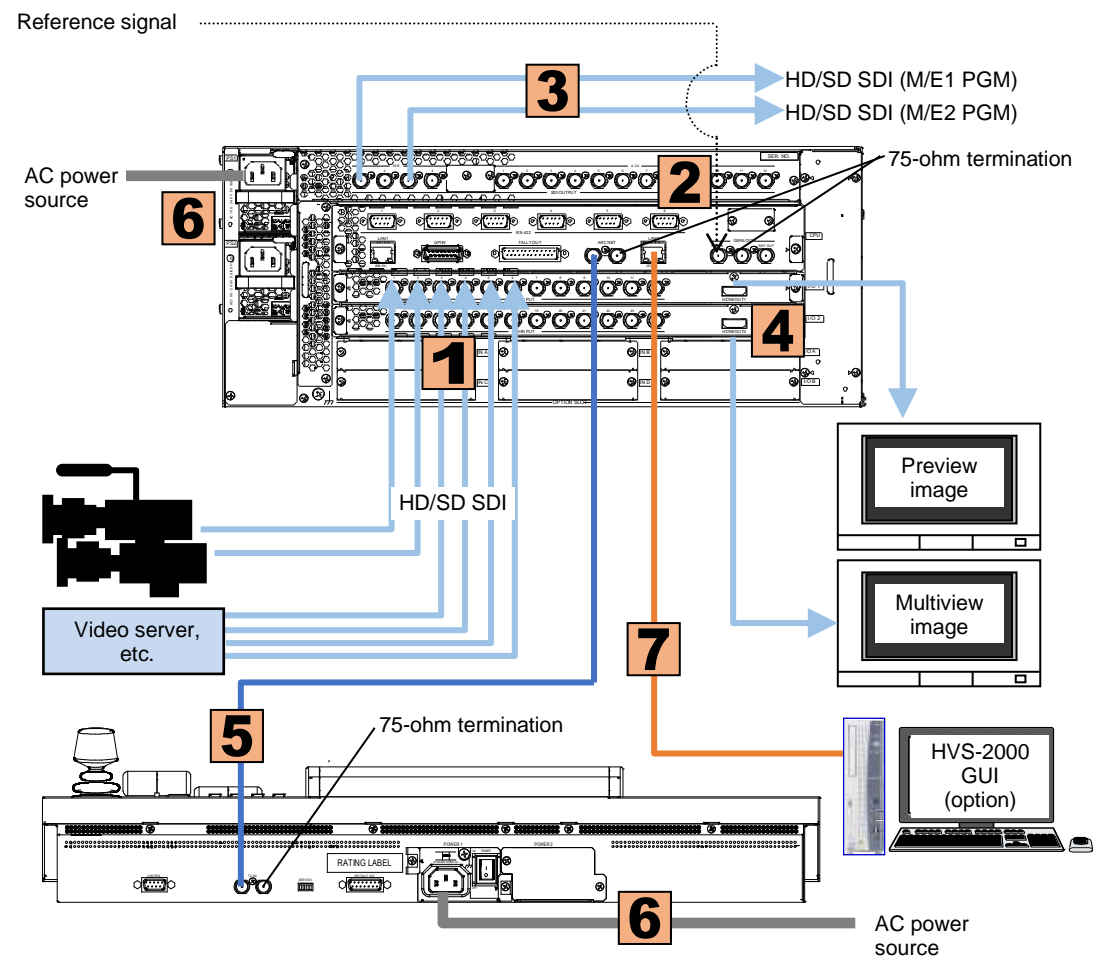
\*   HDMI outputs (AUX13 and AUX14) can display input sources, as well as combined images such as preview, program or multiview.
\*   An Ethernet hub can be used for LAN2 connections.

## 2. Setup

### Select the System Signal Format

(1) Tap the **SYSTEM** tab in the left side of the HVS-2000GUI menu screen to open the [SETUP > SYSTEM > FORMAT] menu.
(2) Select the signal format under **FORMAT**.
(3) Select the aspect ratio under **Aspect**.
(4) Tap **MU REBOOT**, then **YES** in the confirmation dialog.
(5) After a restart, the new format is applied.

\*   All inputs are equipped with a frame synchronizer. Open the [SYSTEM > INPUT > SIGNAL] menu and turn on FS, as needed.
\*   Open the [SETUP > SYSTEM > TIME] menu to set date and time.
\*   HVS-2000GUI software is required for system setup. Install the GUI to a computer from the supplied CD-ROM using a purchased software license.
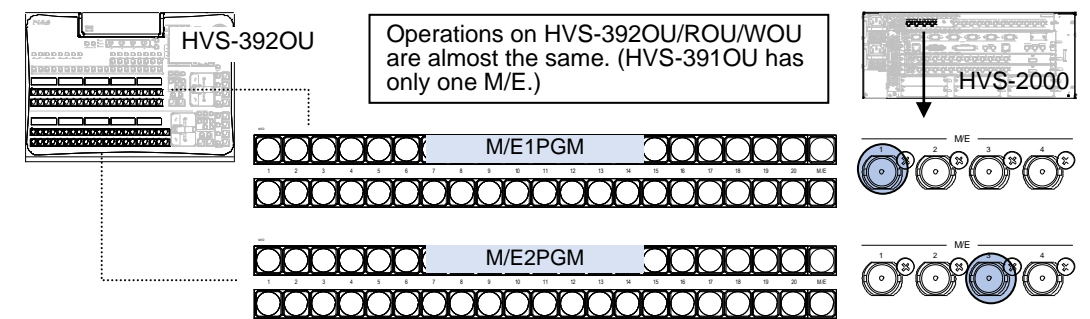
## 3. Select Output Video

HVS-392OU

Operations on HVS-392OU/ROU/WOU are almost the same. (HVS-391OU has only one M/E.)

HVS-2000

### Select an M/E1PGM Video

Press a bus button on the M/E1PGM row.
The corresponding video will appear on **M/E OUT1**.
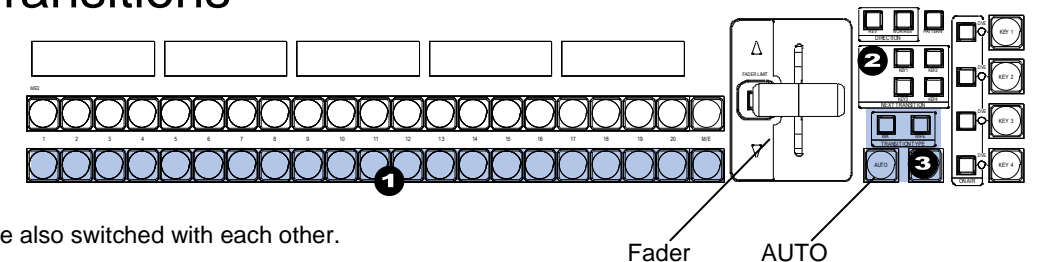
M/E1PGM

### Select an M/E2PGM Video

Press a bus button on the M/E2PGM row.
The corresponding video will appear on **M/E OUT3**.

M/E2PGM

## 4. Perform Background Transitions

(1) Select the next video on the PST bus.
(2) Verify that BKGD lights up as shown at right. If not, press the button to turn on the button light.
(3) Press CUT to perform **Cut** transitions or perform **Mix** or **Pattern** transitions. (See below instructions.) Then the background video will be replaced with a new one. As soon as the images are switched, the PGM and PST bus signals on the control panel are also switched with each other.

Fader    AUTO

### To Perform MIX Transitions

(3) Press MIX. Then press AUTO. (Or move the fader from end to end.)

### To Perform Pattern Transitions

(3) Press WIPE.
(4) Open the [FUNCTION > TRANS > TRANS] menu.
(5) Select a pattern.
(6) Press AUTO. (Or move the fader from end to end.)

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### Precautions

- Operate the unit **only** at the specified supply voltage.
- **Ensure** the unit is properly grounded at all times.
- **Ensure** the power cord and connectors are firmly connected.
- **Do not** install/uninstall cards with power applied to the unit.
- Unit **should not** be operated or stored with the cover, panels, and/or casing removed.

- Unit s**hould not** be operated or stored in a humid, dusty, etc. environment. Doing so could result in fire or electrical shock.
- **Do not** allow fluids, metal fragments, or any other foreign objects to enter the unit. If foreign matter does enter the unit, turn the power off and disconnect the power cord immediately. Remove the material or contact your authorized service representative.
- If you notice any strange smells or noises coming from the unit, turn the power off immediately, disconnect the power cord, then contact your authorized service representative.

You can download manuals and other documents by registering your email address.

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# HVS-2000
# HVS-3355OU/OUA
## Quick Setup Guide

| HVS-2000 Bundled Items | HVS-3355OU/OUA Bundled Items | <Other Accessories> |
|---|---|---|
| AC Cable (2) | <OU Component Units> | LAN Cable (6) |
| Rack mount brackets (1) | Control Unit (1) | RS-422 Cable (1) |
| HVS-2000PSM (1) (Installed) | Touch Panel Unit (1) | AC Power Cable (1) |
| CD-ROM (User Manuals) (1) | AUX BUS Unit (1) | DC Power Cable (Cannon) (5) |
| Setup Guide (This guide) (1) | LINE Unit (3) | Rack mount brackets for OU (1) |
| HVS-2000GUI software license (option) | | |

## 1. MU and OU Connection

(1) Connect SDI video signal inputs.
(2) Input a reference signal. Terminate the other connector with 75-ohm, if it is not looped-through.
(3) Connect combined SDI video signal outputs.
(4) Connect a monitor display through HDMI (for monitoring PREVIEW or Multiview images)
(5) Connect **the Main Unit (MU)** and **OU Control Unit** using supplied LAN cables. Connect **LAN1 (MAIN)** ports.
(6) Connect **MU** and **OU Touch Panel Unit** using supplied LAN cables. Connect **LAN2 (SUB)** ports.
(7) Connect **OU Control Unit** and **OU Touch Panel Unit** using the supplied **RS-422** cable. Connect the TO GUI UNIT port on the OU Control Unit to the TO CONTROL UNIT port on the OU Touch Panel.
(8) Connect the OU AUX BUS Unit and OU LINE Units to the OU Control Unit. (See the back page)
(9) Use supplied AC power cables to supply AC power to the MU and OU Control Unit.
(10) Connect a mouse and keyboard to USB ports on the OU Touch Panel Unit, as necessary.
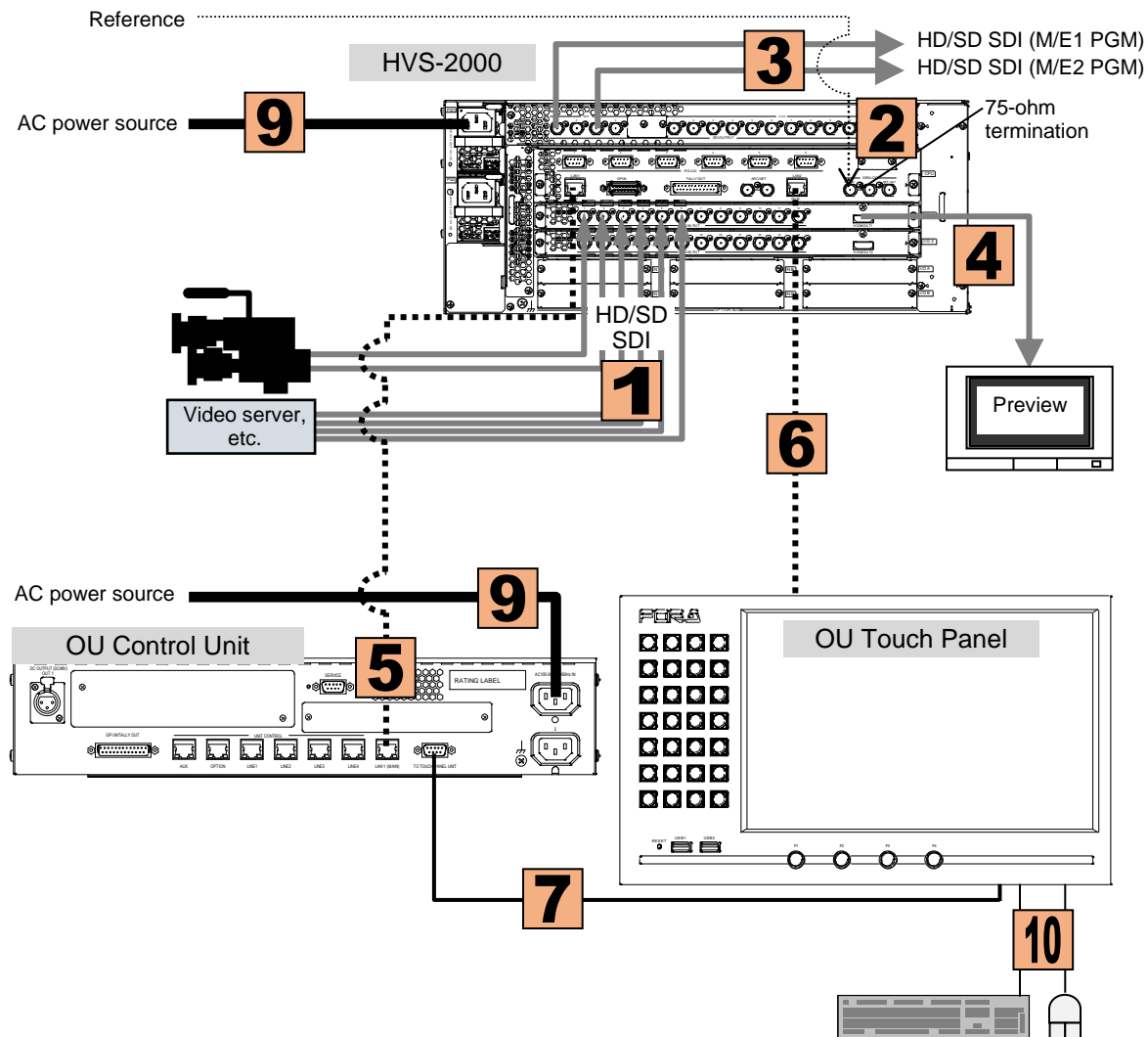
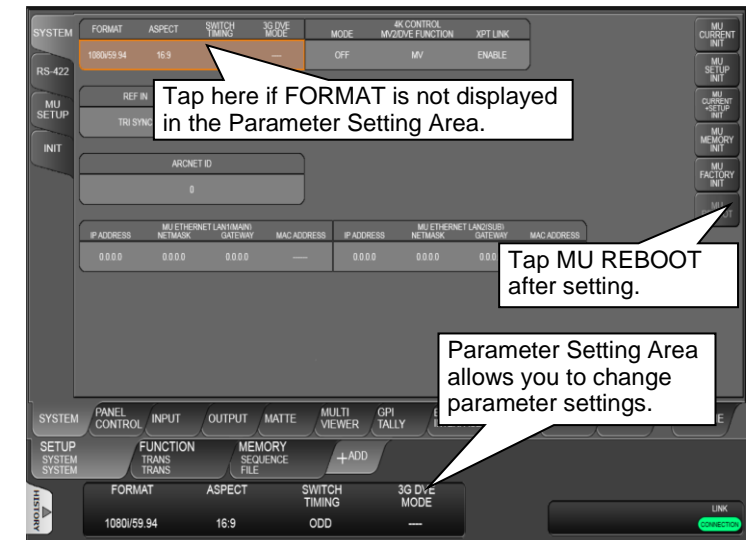* See the back page for more details on OU component connection.

## 2. Setup

### Select the System Signal Format

(1) Press the SYSTEM menu button on the left side of the touch panel. Tap the **SYSTEM** tab in the touch panel screen to display [SETUP > SYSTEM > SYSTEM] menu.
(2) Turn F1 to select a video signal format under **FORMAT**.
(3) Turn F2 to select an aspect ratio under **ASPECT**.
(4) Tap **MU REBOOT**. A confirmation dialog box appears. Tap **YES** to reboot the system. After a restart, the new format is applied.

* All inputs are equipped with a frame synchronizer. Open the [SYSTEM > INPUT > SIGNAL] menu and turn on FS, as needed. (Turn F1 to select an input, then turn F4 to set **FS** to ON.)

* Open the [SETUP > SYSTEM > TIME] menu to set date and time.

Tap here if FORMAT is not displayed in the Parameter Setting Area.

Tap MU REBOOT after setting.

Parameter Setting Area allows you to change parameter settings.

## 3. Select Output Video

### Select an M/E1PGM Video
Press a bus button on the M/E1PGM row.
The corresponding video will appear on **M/E OUT1**.

### Select an M/E2PGM Video
Press a bus button on the M/E2PGM row.
The corresponding video will appear on **M/E OUT3**
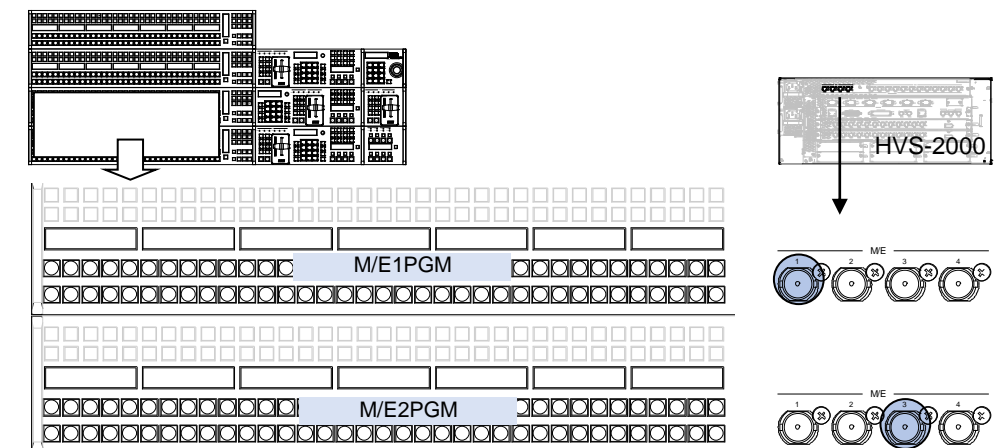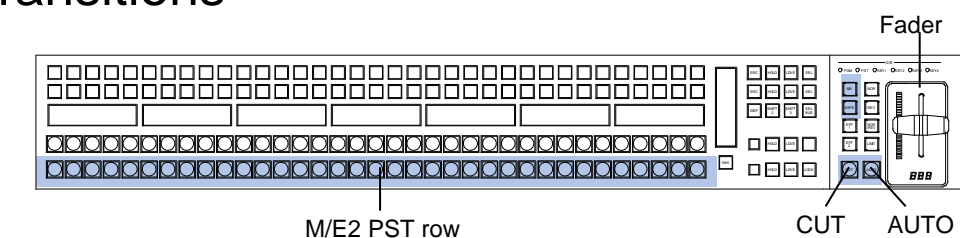
## 4. Perform Background Transitions

The following procedure shows how to perform M/E2 background transitions as an example.

(1) Select the next video on the PST bus.

(2) Press CUT to perform **Cut** transitions.
Press MIX, then AUTO to perform **Mix** transitions.
Press WIPE, then AUTO to perform **Pattern** transitions.

Transitions can be performed by moving the fader from end to end, instead of pressing AUTO.

* To select another transition pattern, press WIPE twice quickly to display the menu and turn F3 to select a pattern.
* After transitions, the background video will be replaced with a new one. As soon as the images are switched, the PGM and PST bus signals on the control panel are also switched with each other.

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# 5. Perform KEY Transitions

The following procedure example shows how to display a logo using KEY1. Assume that the fill and key signals are respectively input IN11 and IN12.

(1) Press M/E2, then KEY/FLX in the touch panel menu button block to display the [FUNCTION > KEYER FLEXaKEY > SRC/INS > M/E2] menu.
(2) Turn F1 to change **TYPE** to **BUS**.
(3) Turn F3 to select **IN11**.
(4) Turn F4 to select **IN12**.

(5) Press KEY1 ON AIR to cut in KEY1 into the PGM image. (The KEY1 ON AIR button lights up while KEY1 is displayed.)

(6) Press KEY1 AUTO to fade out KEY1 from the PGM image.



Set to BUS   Select IN11.   Select IN12.
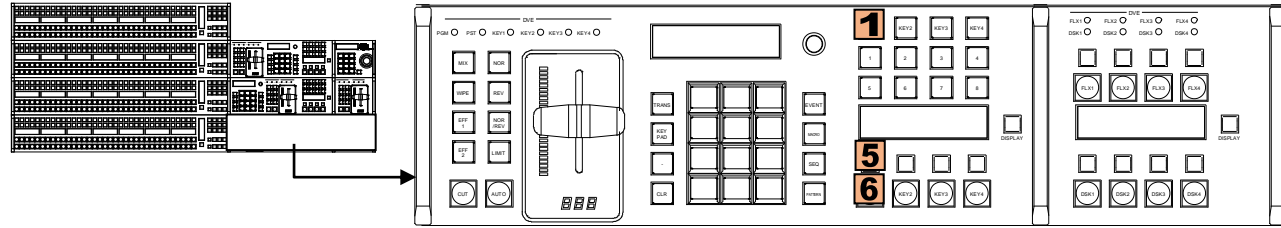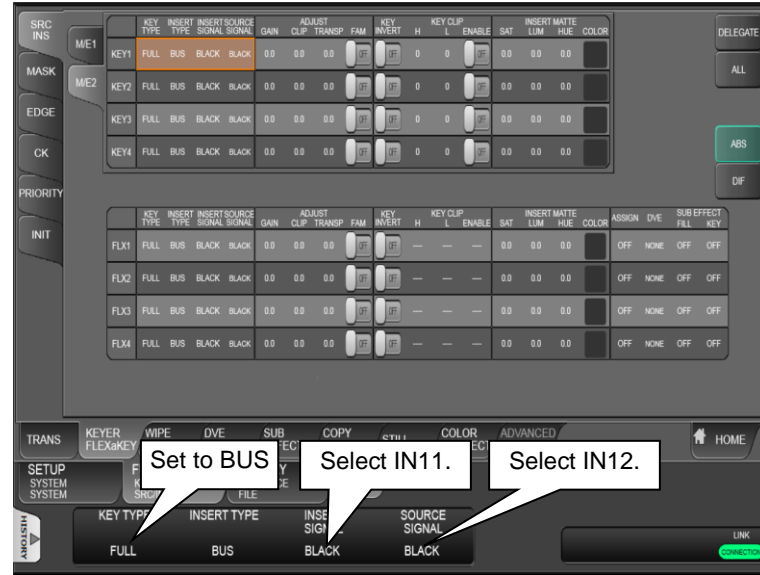
# 6. AUX Output

## Selecting AUX Output Video
(1) Press **AUX1** in the top bus row. This allows you to select the **AUX1** video signal in the top row.
(2) Signal names appear in the top button displays. To select Input 1, press the button just below the **IN01** display.
(3) Press **AUX2** in the bottom bus row. This allows you to select the **AUX1** video signal in the upper row.
(4) Signal names appear in the bottom button displays. To select M/E1 program, press the button just below the **M/E1PGM**.
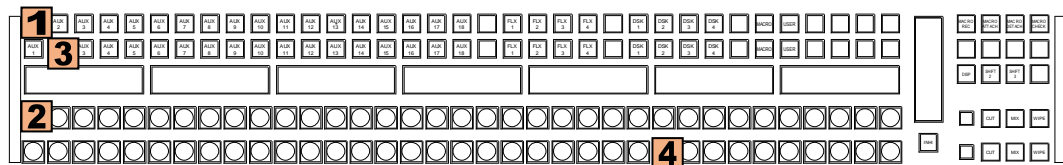


If an AUX bus button is selected on the top row, select a signal on the top row. If an AUX bus button is selected on the bottom row, select a signal on the bottom row. Thus, two AUX bus operation can be performed simultaneously.

## Performing AUX1 Transitions
For example, to perform AUX1 transitions, AUX 1 transition must be enabled in the menu.
(1) Press AUX1 twice quickly to display the [SETUP > OUTPUT > OUT XPT] menu.
(2) Turn **ENABLE** to **ON** for AUX01.
(3) To change the AUX1 video to INPUT2 using fade in/out, press AUX1, MIX then IN02 (the bus button below "IN02" )
    If you need to add effects to transitions, press WIPE instead of MIX.
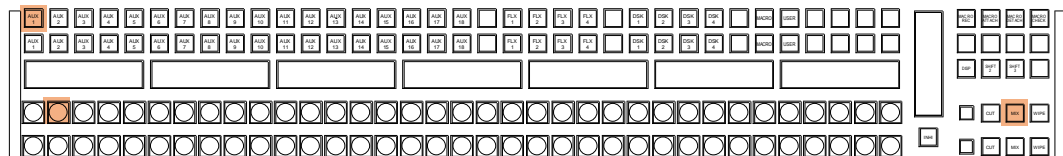


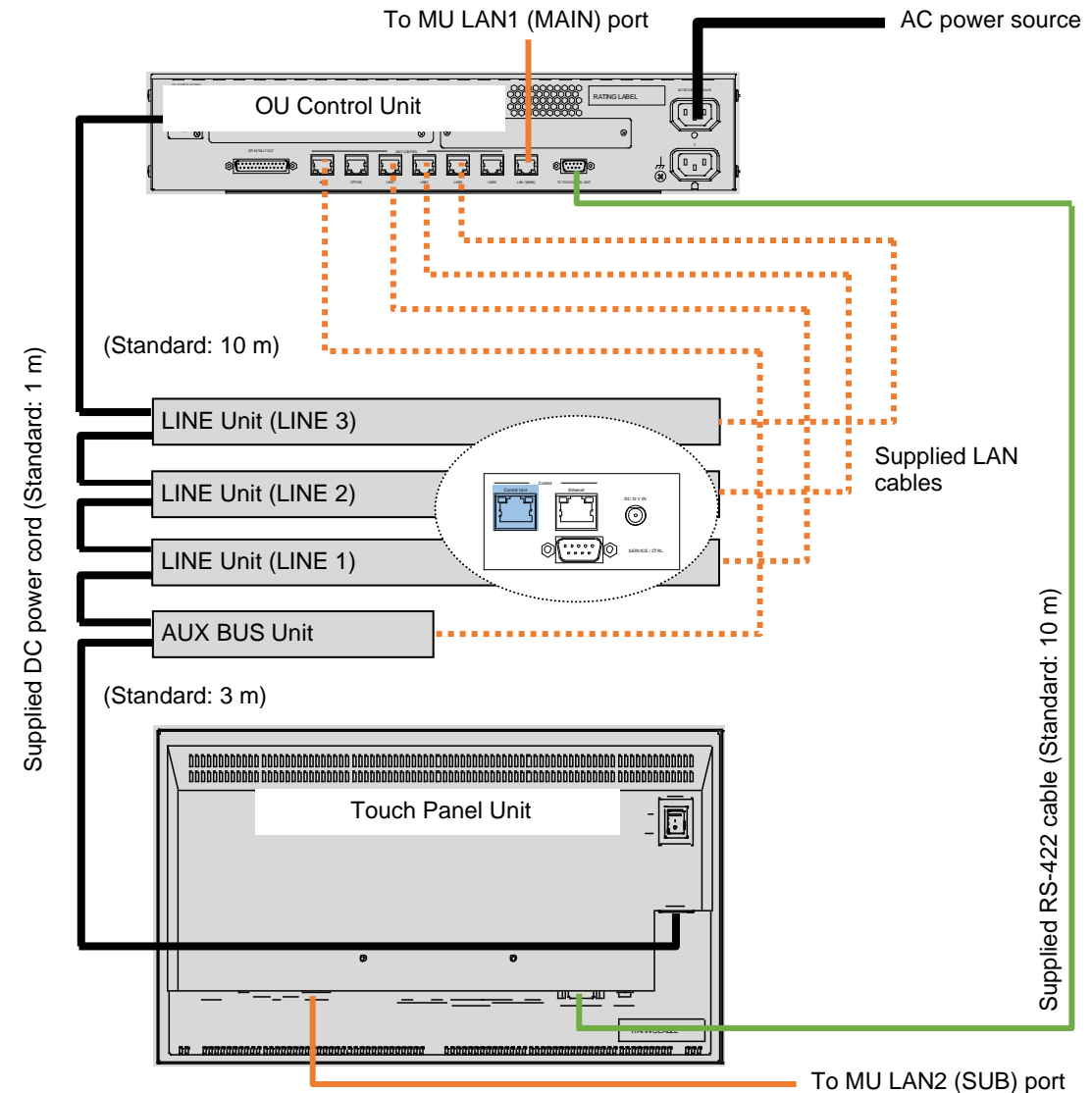# 7. Configuring the OU Component Units

## LAN Connection
Use the supplied LAN cables to respectively connect the AUX BUS and LINE units to the Control Unit.

## Power Connection
Use the supplied DC canon cables to connect the Control Unit and other units in a daisy chain. The last LINE Unit (LINE2 or 3) must be directly connected to the Control Unit and the Touch Panel Unit must be the last device on the chain.

Do NOT plug or unplug power cords while the power is on.



To MU LAN1 (MAIN) port    AC power source

OU Control Unit

(Standard: 10 m)

Supplied DC power cord (Standard: 1 m)

LINE Unit (LINE 3)

LINE Unit (LINE 2)                    Supplied LAN cables

LINE Unit (LINE 1)

AUX BUS Unit

(Standard: 3 m)

Touch Panel Unit

Supplied RS-422 cable (Standard: 10 m)

To MU LAN2 (SUB) port

*   If using dedicated AC adapters, power can be directly supplied to the Touch Panel and a LINE Unit in Emergency mode (LINE 3). In such cases, connect DC power cords to DC 12V IN terminals.
*   LINE Unit 1, Unit 2 or Unit 3 is determined by the port to which the Unit has connected.

## Precautions

- Operate the unit **only** at the specified supply voltage.
- **Ensure** the unit is properly grounded at all times.
- **Ensure** the power cord and connectors are firmly connected.
- **Do not** install/uninstall cards with power applied to the unit.
- Unit **should not** be operated or stored with the cover, panels, and/or casing removed.

- Unit s**hould not** be operated or stored in a humid, dusty, etc. environment. Doing so could result in fire or electrical shock.
- **Do not** allow fluids, metal fragments, or any other foreign objects to enter the unit. If foreign matter does enter the unit, turn the power off and disconnect the power cord immediately. Remove the material or contact your authorized service representative.
- If you notice any strange smells or noises coming from the unit, turn the power off immediately, disconnect the power cord, then contact your authorized service representative.