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.

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 knob 5 to select the signal format, then press EXEC to confirm the selection.
5. Turn knob 5 to select the aspect ratio.
6. Tap knob 3 to display the [SETUP > SYSTEM > REBOOT] menu.
7. Turn knob 4 to select EXEC under REBOOT, then press EXEC to reboot the system. After it restarts, 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 knob 3 to select an input, then turn knob 2 to set FS to ON.)
* Open the [SETUP > SYSTEM > TIME] menu to set date and time.

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 OUT2.

Select an AUX Video

(a) To output INPUT1 from AUX1, press [KEY1] then [AUX1] as shown below.
(b) To output the M/E1 program video from AUX12.

Press [AUX1], then [AUX1PGM] as shown below. (HVS-2240OU)

While holding down [AUX1], press [AUX1] twice quickly to display the menu, press [AUX1] then [AUX1PGM] (HVS-2120ROU)

Press [AUX1] twice quickly to display the menu, then turn [USER F1] to select [M/E1OUT1]. (HVS-3320OU)

4. Perform Background Transitions

To Perform MIX Transitions

(1) Select the next video on the PST bus.
(2) Verify that [EXEC] lights up as shown at right. If not, press the button to turn on the button light.
(3) Press [EXEC] to perform Cut transitions or perform Mix or Pattern transitions. (See below instructions.) Then the background video will be replaced with a new image. 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 Pattern Transitions

(3) Press [EXEC].

(4) Press [EXEC] twice quickly to display the [M/E1,FLEXaKEY > M/E2,BRG0-PGM > TRANS SUB EFF > TRANS] menu.
(5) Turn knob 3 to select a pattern.
(6) Press [EXEC].

* When you press [EXEC] twice quickly, be sure to stop within 2 seconds.

Precautions

- 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 ensure that the unit is fully assembled before reassembling it.
- Do not allow fluids to enter the unit. If a Kagawa enters the unit, turn the power off and disconnect the power cord immediately. Remove the material or ensure that the unit is fully assembled before reassembling it.
- Do not use the unit in an environment where it could be damaged by air currents, humidity, or temperature extremes. Such conditions can lead to damage or malfunction.
- Do not use the unit in an environment where it could be exposed to direct sunlight or excessive heat. Excessive heat can cause the unit to overheat and malfunction.
- Do not use the unit in an environment where it could be exposed to water or any other liquids. Excessive moisture can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to electrical surges or other electrical interference. Such conditions can cause the unit to malfunction or become damaged.
- Do not drop the unit or subject it to physical shock. Such actions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to vigorous vibrations. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to strong magnetic fields. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme temperatures. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme humidity. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme dust levels. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme noise levels. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme static electricity levels. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme vibrations. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme shocks. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme altitudes. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme pressures. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme chemicals. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme ultraviolet radiation. Such conditions can cause the unit to malfunction or become damaged.
- Do not use the unit in an environment where it could be exposed to extreme infrared radiation. Such conditions can cause the unit to malfunction or become damaged.
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- Do not use the unit in an environment where it could be exposed to extreme infrared radiation. Such conditions can cause the unit to malfunction or become damaged.
1. Connection

(1) Connect SDI video signals to inputs.
(2) Input a reference signal. Terminate the connector with 75-ohm, even if it is not looped through.
(3) Connect combined SDI video signal outputs.
(4) Connect monitors through HDMI parts. Selecting (Preview and Multi-view images)
(5) Use the supplied connection cable to connect HVS-2000 and the control panel through Arnet.
(6) Supply power to HVS-2000 and the control panel 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 panel.
(9) Turn on power switch(es) on the HVS-2000 front panel.

2. Setup

Select the System Signal Format

(1) Tap the SYSTEM tab in the left side of the HVS-2000GUI menu to open the [SETUP > SYSTEM > FORMAT] menu.
(2) Select the signal format under FORMAT.
(3) Within the aspect ratio under Aspect.
(4) Tap MU REBOOT, then YES in the confirmation dialog.
(5) After a restart, a 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 it to a computer from the supplied CD-ROM using a purchased software license.

3. Select an M/E1PGM Video

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

Select an M/E2PGM Video

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

4. Perform Background Transitions

(1) Select the video on the PST bus.
(2) Verify that the button light is up as shown at right.
(3) Press [FADER LIMIT] to perform Cut transitions or perform Mix or Pattern transitions. (See below instructions.)

To Perform MIX Transitions

(3) Press [FADER LIMIT] then press AUTO (Or move the fader from end to end.)

To Perform Pattern Transitions

(3) Press [FADER LIMIT] then press AUTO (Or move the fader from end to end.)

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.
- Do not operate or store the unit 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 enters the unit, turn off the power immediately, 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 off the power immediately, disconnect the power cord, then contact your authorized service representative.
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 SETTING Panel screen to display [SETUP > SYSTEM] menu.
(2) Turn to select a video signal format under FORMAT.
(3) Turn 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 to select an input, then turn to set FS to ON.)

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

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 PGM then MIX to perform Mix transitions.
Press PGM then PATTERN 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 PGM twice quickly to display the menu and turn 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 [AUX1] then [KEY1] in the touch panel menu button block to display the FUNCTION > KEYER FLEXaKEY > SRC/IN5 > M/E2] menu.
2. Turn [ ] to change TYPE to BUS.
3. Press [ ] to select IN11.
4. Turn [ ] to select IN12.
5. Press [AUX BUS] to cut in KEY1 into the PGM image. (This KEY ON the button lights up while KEY1 is displayed.)
6. Press [AUX BUS] to fade out KEY1 from the PGM image.

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.

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] then [ ] (the bus button below “IN02”).

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.

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 cannon 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.

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 cables with power applied to the unit.
- Unit should not be operated or stored with the cover, panels, and/or casing removed.
- Unit should 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.