HVS-2000 Quick Setup Guide
2120ROU/2240/3320OU

1. Connection

(1) Connect SDI video signal inputs.
(2) Input a reference signal. Terminate the other connector with a 75-ohm resistor 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(s) 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 to select the signal format, then press to select.
(5) Turn to select the aspect ratio, then press to select.
(6) Tap to display the [SETUP > SYSTEM > REBOOT] menu.
(7) Turn to select EXEC under REBOOT, then press to reboot the system. After 3 seconds, the menu is displayed.

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

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

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

4. Perform Background Transitions

(1) Select the next video on the PST bus.
(2) Verify that lights up as shown at right. If not, press the button to turn on the button light.
(3) Press to perform Mix 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 then press AUTO
(Or move the fader from center to end.)

To Perform Pattern Transitions
(3) Press then press AUTO
(4) Press twice quickly to display the [M/E1, FLEXaKEY > M/E2, BG A] menu.
(5) Turn to select a pattern.
(6) Press AUTO (Or move the fader from center to end.)

Precautions

- Do not allow fluids, metal fragments, or other foreign objects to enter the unit. If foreign matter does enter the unit, turn the power off immediately, disconnect the power cord. Remove the material or contact your authorized service representative.
- Do not allow fluids, metal fragments, or other foreign objects to enter the unit. If foreign matter does enter the unit, turn the power off immediately, disconnect the power cord. 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.
**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 Arctnet.
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.

**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**

Select an M/E1PGM Video
Press a bus button on the M1/PGM row. The corresponding video will appear on M/E OUT1.

Select an M/E2PGM Video
Press a bus button on the M2/PGM row. The corresponding video will appear on M/E OUT3.

**4. Perform Background Transitions**

1. Select the next video on the PST bus.
2. Verify that the buttons 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 M1. Then press CUT. (Or move the fader from end to end.)

**To Perform Pattern Transitions**

(3) Press M2. (4) Open the [FUNCTION > TRANS > TRANS] menu. (5) Select a pattern. (6) Press CUT. (Or move the fader from end to end.)

**Precautions**

- **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.

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

**AC Cable**
- HVS-2000 bundled items
- 390 Series OU bundled items
- 1
- 1

**CD-ROM (User Manuals)**
- Quick Setup Guide (This guide)
- 1
- 1

**HVS-2000GUI software license (option)**
- 1
- 1

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

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HVS-2000 Quick Setup Guide

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.

2. Setup

Select the System Signal Format

(1) Press the SYSTEM button on the left side of the touch panel. Tap the SYSTEM menu on the touch panel screen to display [SETUP > SYSTEM > 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 MIX then CUT to perform Mix transitions. Press SEQ then MIX 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 Shift 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 [AUTO] then [KEY')+FLX'] in the touch panel menu block to display the function <KEtER FLEXaKEY > SPC/INS > M/E2> menu.
(2) Turn [FLX] to change TYPE to BUS.
(3) Turn [DSK] to select IN11.
(4) Turn [FLX] to select IN12.
(5) Press [ALL] and [SEL] to switch IN11 into the PCM image. This selects the button lights up while KEY1 is displayed.
(6) Press [KEY1] to fade out KEY1 from the PCM 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 display. 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 [MULT] 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 [MULT] then [FAD] (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 power cables to connect the Control Unit with 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.

[Diagram of LAN connection and power connection]

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 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 and contact your authorized service representative.

* 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.

* 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.