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 a supplied LAN cable to connect LAN1 (MAIN) ports on the HVS-6000/6000M (MU) and the control panel (OU).
5. Use a supplied LAN cable to connect LAN2 (SUB) ports on the HVS-6000/6000M (MU) and the control panel (OU).

6. Supply power to the MU and the OU respectively using the supplied AC power cables.
7. Turn on power switch(es) on the OU rear panel.
8. Turn on power switch(es) on the MU front panel.

3. Select System Signal Format

1. A menu is displayed on the control panel at power ON.
2. Tap the SETUP tab in the menu.
3. Tap SYSTEM, then FORMAT to display the [SETUP > SYSTEM > FORMAT] menu.
4. Turn to select the signal format, then press OK.
5. Turn to select the aspect ratio.
6. Tap REBOOT to display the [SETUP > SYSTEM > REBOOT] menu.
7. Tap to select EXEC under REBOOT, then press OK to reboot the system.
8. After a restart, the new format is applied.

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 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.

4. Video Output

Select an M/E1 PGM Video
Press a bus button on the M/E1 PGM row. The corresponding video will appear on M/E1 OUT1.

Select an M/E2 PGM Video
Press a bus button on the M/E2 PGM row. The corresponding video will appear on M/E2 OUT1.

Select an AUX Video
(a) To output INPUT1 from AUX1, press AUX then as shown below.
(b) To output the M/E1 program video from AUX12.

While holding down OK, press AUX twice quickly to display the menu, then press M/E1 (HVS-2240OU).

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

5. Background Transitions

1. Select the next video on the PST bus.
2. Press P/TT to perform Cut transitions (with press simultaneously).
3. Press KEY1 then to perform Mix transitions.
4. Press FADER then to perform Pattern transitions.

Faders can be used instead of MIX.

To select another transition pattern, press 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 switched with each other.

6. 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. Select M/E1,2 DSK at top-left, then M/E2 KEY1 to display the [M/E1,2 DSK > M/E2 > KEY1 > SRC/INS] menu.
2. Turn to change TYPE to BUS.
3. Turn to select IN11. Turn to select IN12.
4. Press KEY ON AUTO to cut in KEY1 into the PGM image. (The KEY ON button lights up when KEY1 is displayed.)
5. Press KEY AUTO to fade out KEY1 from the PGM image.

* KEY1-4 transitions can also be performed in the BKGD transition block.
1. Switcher Connection

(1) Connect SDI video signal inputs.
(2) Connect combined SDI video signal outputs (PGM / PVW) on the HVS-6000/6000M(MU).
(3) Use a supplied LAN cable to connect MU LAN1 (MAIN) to LAN1 (MAIN) on the OU Control unit.
(4) Use a supplied LAN cable to connect MU LAN2 (SUB) to LAN2 (SUB) on the OU Touch Panel.
(5) Use the supplied RS-422 cable to connect the OU Control unit and the OU Touch Panel. (See Section 2 below for details.)
(6) Connect the OU AUX BUS unit and LINE units to the OU Control unit. (See Section 2 below for details.)
(7) Supply AC power to the MU and OU Control unit using the supplied AC cables.
(8) Connect the mouse and keyboard to the OU Touch Panel, as necessary.
(9) Turn on the OU Touch Panel power switch. Turn on the OU Control unit power switch(es). Turn on the MU power switch(es).

* To unplug power cables from the MU, wait until power indicators light orange after powered off.

2. Connecting OU Component Units

LAN Connection
Use the supplied LAN cables to connect the AUX BUS and LINE units to the Control Unit respectively. LINE 1, LINE 2 and LINE 3 are determined by the connection ports on the Control Unit.

RS-422 Connection
Use the supplied RS-422 cable to connect the Control Unit and the Touch Panel Unit. Plug the cable to the TO TOUCH PANEL UNIT port on the Control Unit and the TO CONTROL UNIT port on the Touch Panel.

Power Connection
Use the supplied DC 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.

* If using dedicated DC adapters, power can be directly supplied to the AUX Unit, LINE Units and Touch Panel. In such cases, connect DC power cords to DC 12 V IN terminals.

3. Video Output

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 OUT2.

4. Background Transitions

To perform M/E background transitions, proceed as follows:
(1) Select the next video on the PST bus.
(2) Press to perform Cut transitions. Press and to perform Mix transitions. Press and to perform Pattern transitions. Also move the fader from end to end to perform transitions.

* To select another pattern, press twice quickly to display the corresponding menu. And then to select a pattern.
* Performing transitions replace the background video with the next one and switch the PGM and PST bus signal selections.

5. Key Transitions

As an example, follow the procedure below to insert a logo using M/E2 KEY1.
Assume that IN11 and IN12 accept logo fill and key signals respectively.
(1) Press menu tabs in the following order on the menu screen to display the [FUNCTION > KEYER DSK > SRC/INS > M/E2] menu.
(2) Turn to select BUS for TYPE.
(3) Turn to select IN11 for SOURCE SIGNAL (fill).
(4) Turn to select IN12 for SOURCE SIGNAL (key).
(5) Press to cut in the logo on the PGM image. 
(6) Press to fade out the logo from the PGM image.