

INSTALLATION GUIDE

HVS-Q12PSM

HVS-Q12 Redundant Power Supply Unit

HVS-Q12FLX

HVS-Q12 FLEXaKEY Expansion Card

HVS-Q12ME

HVS-Q12 ME Expansion Card

HVS-Q12SSD

HVS-Q12 SSD Option

1st Edition

Unpacking

The following HVS-Q12 switcher options should be installed onto the HVS-Q12 from the front side by opening the front panel. HVS-Q12 options and their accessories are fully inspected and adjusted prior to shipment.

Check your received items against the packing lists below. Check to ensure no damage has occurred during shipment. If damage has occurred, or items are missing, inform your supplier immediately.

◆ HVS-Q12PSM Box

ITEM	QTY	REMARKS
HVS-Q12PSM	1	Redundant Power Supply Unit for HVS-Q12
Power cord	1 set	For AC power source connection. Cord retaining clip included

◆ HVS-Q12FLX Box

ITEM	QTY	REMARKS
HVS-Q12FLX	1	FLEXaKEY Expansion Card for HVS-Q12
W/sems screw	4	

◆ HVS-Q12ME Box

ITEM	QTY	REMARKS
HVS-Q12ME	1	ME Expansion Card for HVS-Q12 Two-board configuration
W/sems screw	8	For fixing to the chassis

◆ HVS-Q12SSD Box

ITEM	QTY	REMARKS
HVS-Q12SSD	1	SSD storage (With fixing brackets)
Binding screw	2	For fixing to the chassis


 CAUTION	<p>Install operations should only be done by qualified technical personnel.</p> <p>Installation of this option requires accessing the unit interior by opening the panel. To protect boards from electrostatic damage, do not touch board components.</p> <p>The AC power cord should be disconnected from the unit before performing this installation.</p>
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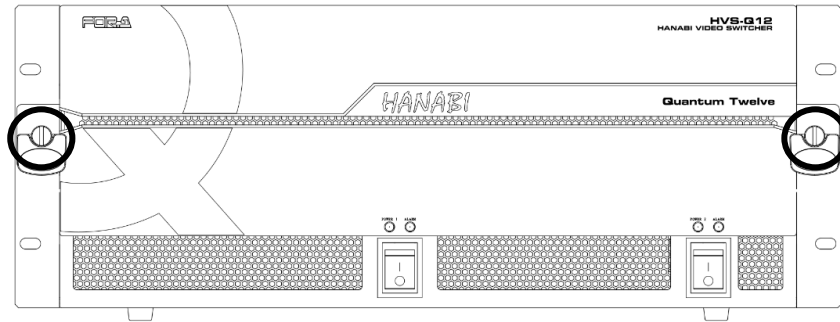
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1. HVS-Q12PSM

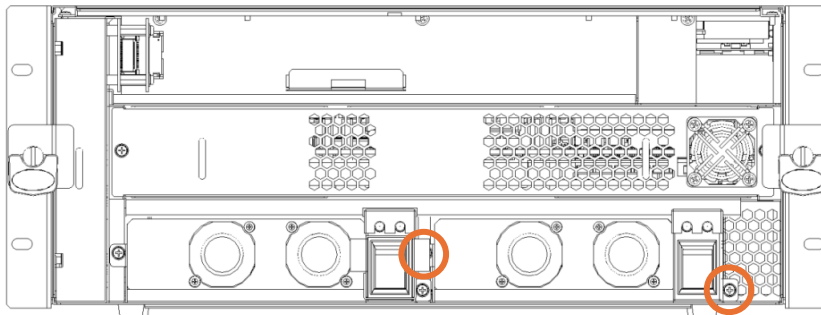
The HVS-Q12PSM is a power supply unit specially designed for the HVS-Q12 switcher. The switcher comes with two power supply slots with a single power supply unit installed. This optional HVS-Q12PSM power supply unit allows you to operate an HVS-Q12 continuously, even if one power supply unit fails.

1-1. Installing/Replacing the Power Supply Unit

- (1) Power off the HVS-Q12 and remove the power cord(s).
- (2) Loosen the captive screws on both side of the front panel and remove the front panel.

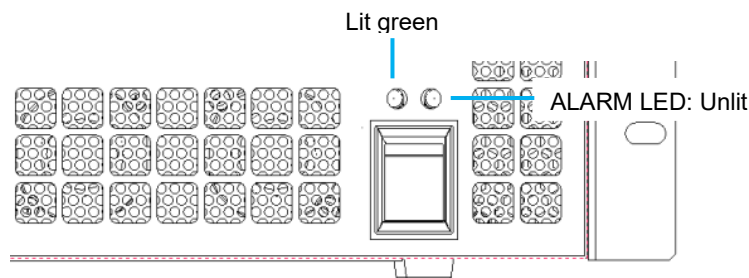


- (3) When initially install a power supply unit, remove the blank panel of the power slot by taking off two screws on both sides. When replacing the power supply unit, remove the failed power supply unit by loosening the captive screws on both sides.



- (4) Align the power unit with the slot and insert it carefully.
- (5) Once the power unit is fully inserted, fasten it in place with the screws.
- (6) Re-install the front panel by securing the screws on both sides.
- (7) Connect the power cord and turn on the power of the switcher.
- (8) Verify that the POWER2 LED lights green and the ALARM LED is unlit.

NOTE: If the ALARM LED lights up red, an error has occurred in the power supply unit or the cooling fan. In such cases, consult your FOR-A reseller immediately.

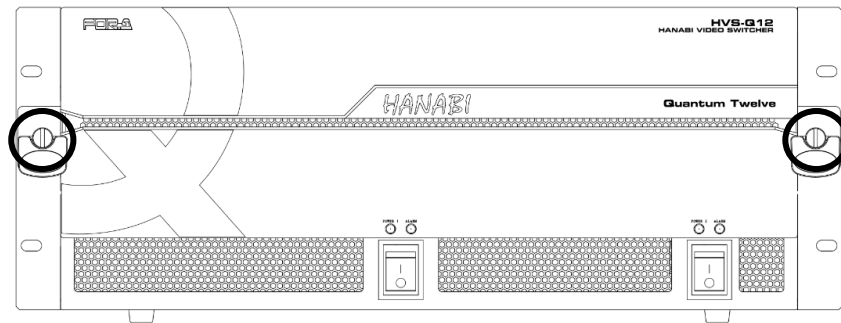


2. HVS-Q12FLX

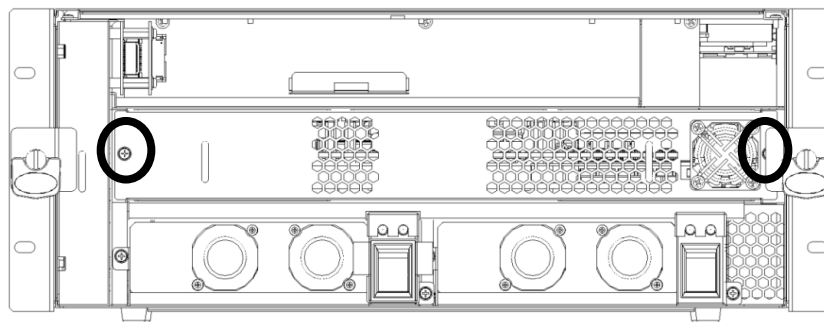
The HVS-Q12FLX is the FLEXaKEY expansion card specially designed for the HVS-Q12 switcher. FLEXaKEYs are not installed as the standard configuration. When installing a card, 8 channels (4 channels in 4K mode) of FLEXaKEYs are available. They can be inserted on **M/E1-2** and **MELite1-4** videos. (Max 4 channels for each, duplicate assignment allowed)

2-1. Installing the HVS-Q12FLX

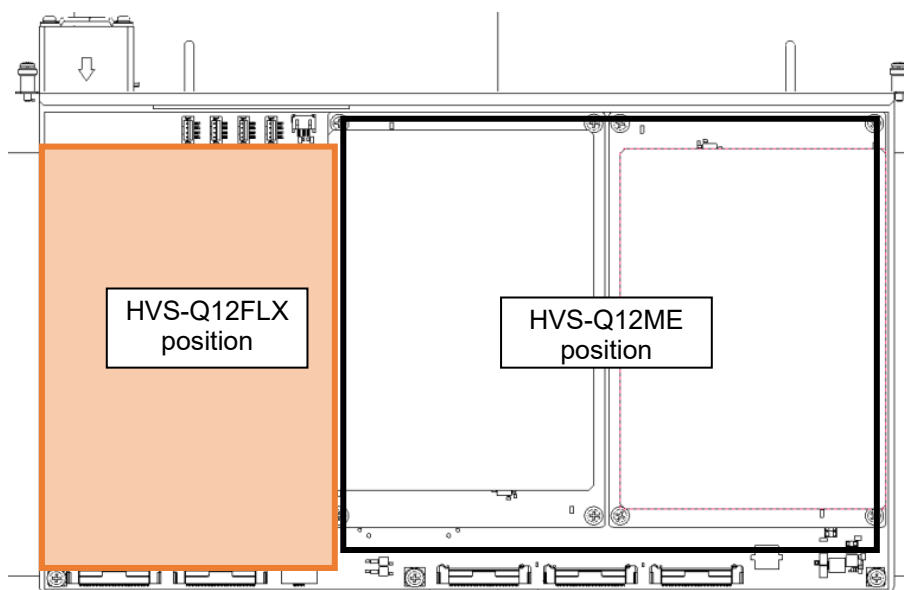
- (1) Power off the HVS-Q12 and remove the power cord.
- (2) Loosen the captive screws on both side of the front panel and remove the front panel.



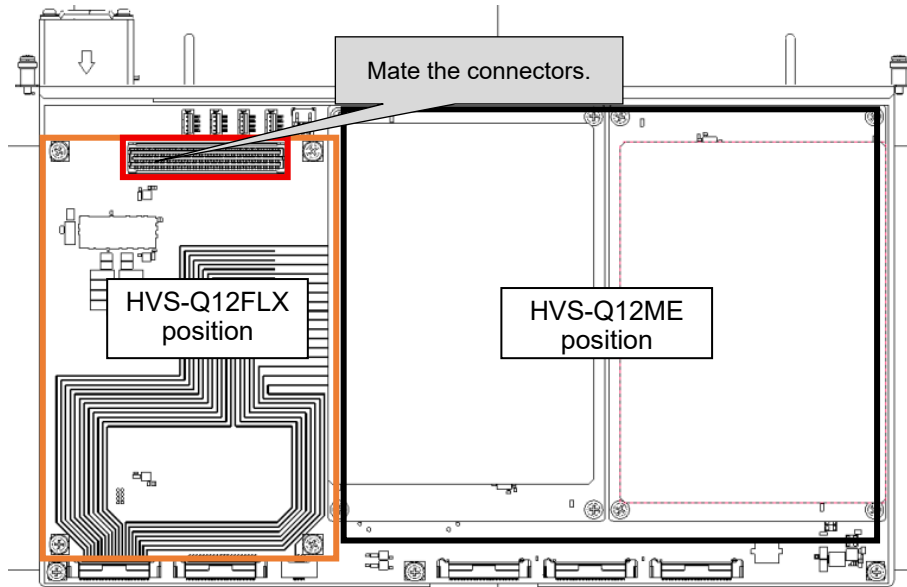
- (3) Loosen the captive screws on both sides and remove the Main card from the HVS-Q12.



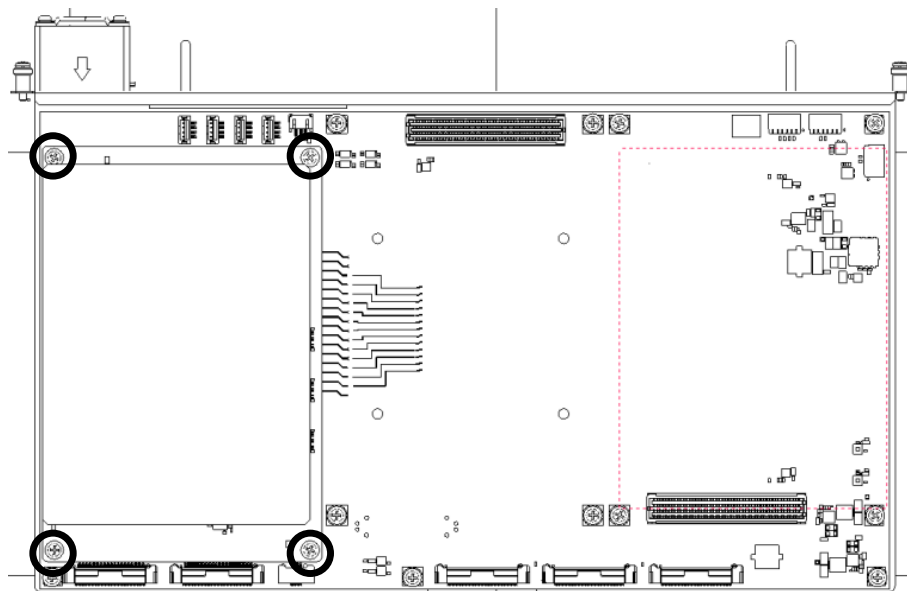
- (4) The HVS-Q12FLX card should be installed onto the following position on the Main card.



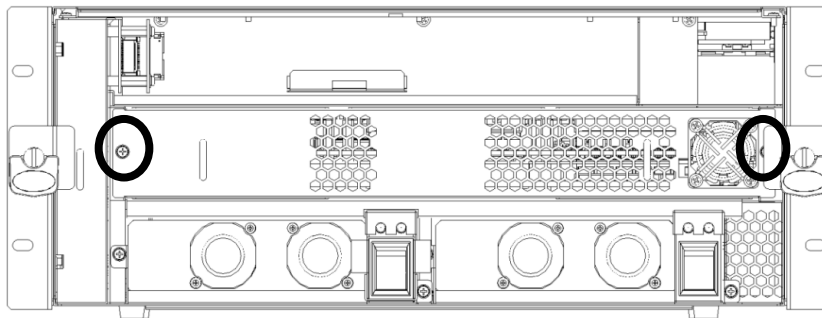
- (5) Mate the connectors on the Main card and HVS-Q12FLX card until they are fully seated.



- (6) Secure the HVS-Q12FLX card to the Main card with the supplied 4 screws.



- (7) Insert the Main card onto the HVS-Q12. Make sure that the card is inserted correctly and secure the card with screws on both sides.



- (8) Re-install the front panel to the HVS-Q12 with two screws on both sides.

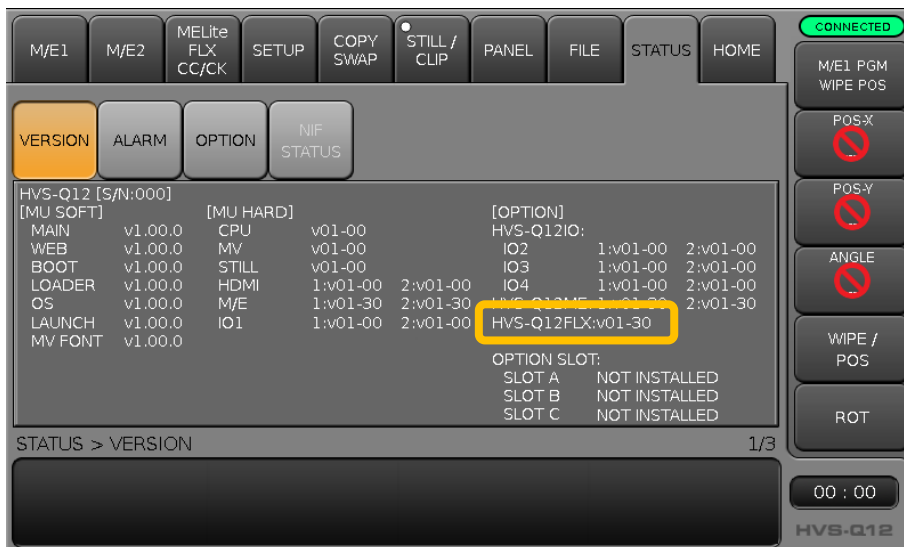
2-2. Checking the Installation

Verify that the HVS-Q12FLX is correctly installed.

- (1) Connect the power cord and turn on the power of the switcher.
- (2) Open [STATUS > OPTION] menu PAGE1 on the control panel.
- (3) Check that **INSTALLED** is displayed under HVS-Q12FLX..



- (4) Open [STATUS > VERSION] menu PAGE1 on the control panel.
- (5) Check that the FLX version is displayed. (See below)
If the version is not displayed, consult your FOR-A reseller



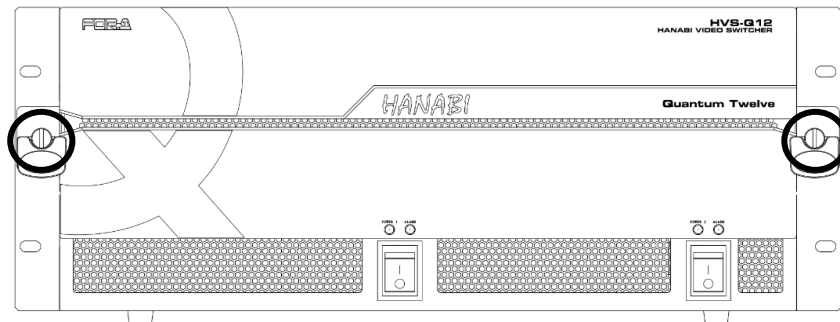
3. HVS-Q12 ME

The HVS-Q12ME is the M/E expansion card specially designed for the HVS-Q12 switcher. The HVS-Q12 can be configured as an **1M/E 8KEYER** switcher or **2 M/E 4KEYER** (for each) switcher as standard. If HVS-Q12ME is installed, the **2 M/E 8KEYER** (for each) configuration is available. Furthermore, if the HVS-Q12UHD 4K option is installed, **2 M/E 4KEYER** (for each) is configurable in 4K system mode. (See below.)

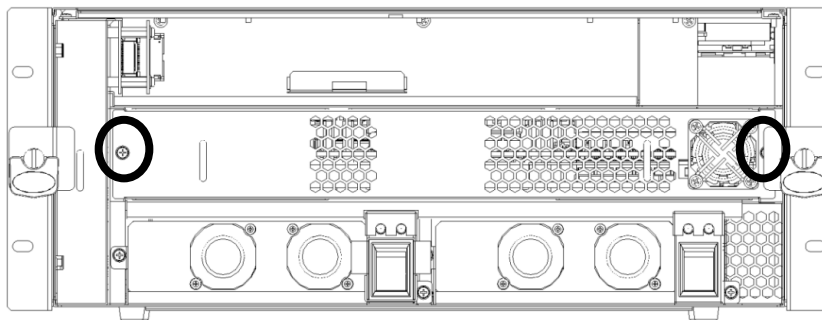
System mode	System format	SDI	HVS-Q12ME option	
			None (Standard)	Installed
HD mode	1080i /59.94, 50 1080PsF /29.97, 25, 24, 23.98 720p /59.94, 50 1080p /29.97, 25, 24, 23.98	1.5G	1M/E 8KEYER or 2M/E 4KEYER for each	2M/E 8KEYER for each
	1080p /59.94, 50	3G		
4K(UHD) mode	2160p /29.97, 25, 24, 23.98 2160p /59.94, 50	6G 12G	1M/E 4KEYER for each	2M/E 4KEYER for each

3-1. Installing the HVS-Q12ME

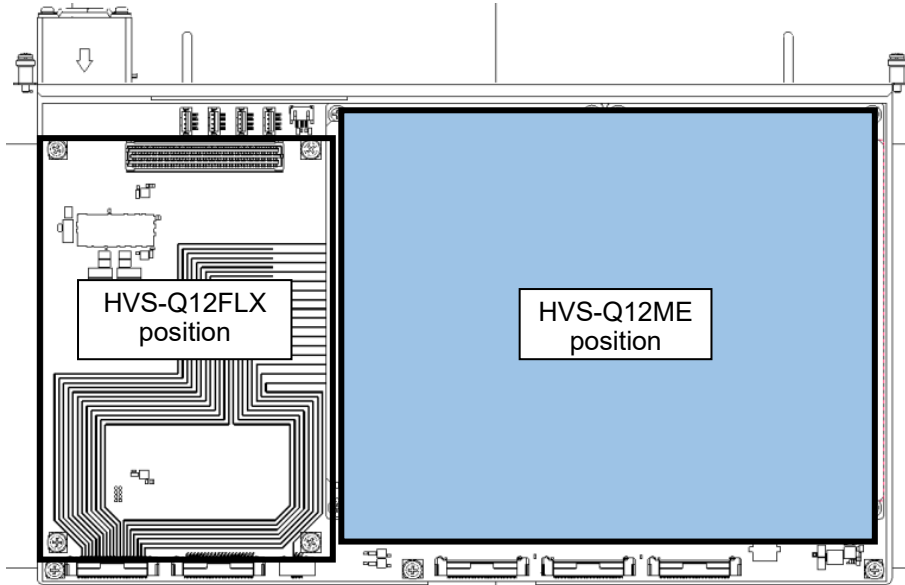
- (1) Power off the HVS-Q12 and remove the power cord.
- (2) Loosen the captive screws on both side of the front panel and remove the front panel.



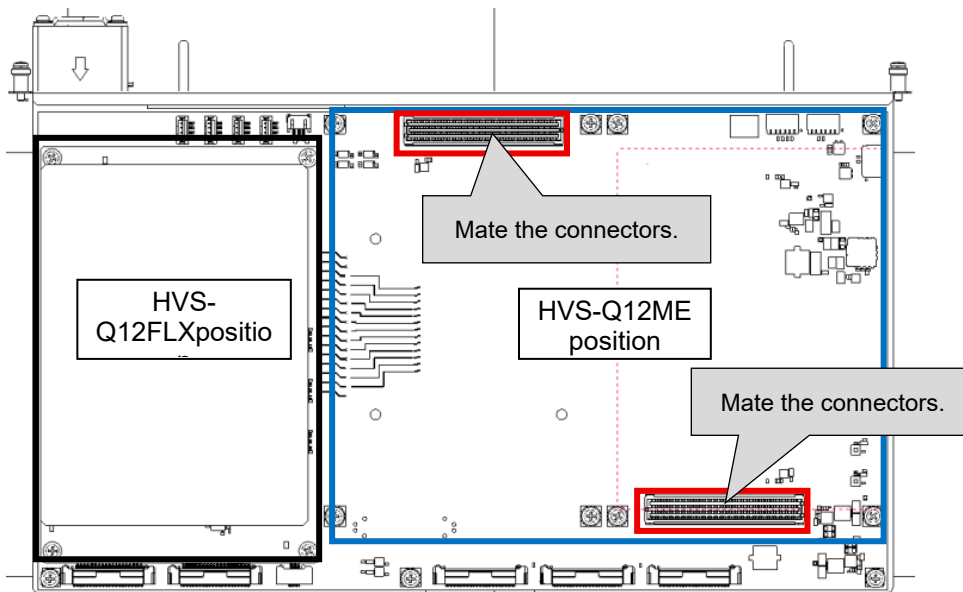
- (3) Loosen the captive screws on both sides and remove the Main card from the HVS-Q12.



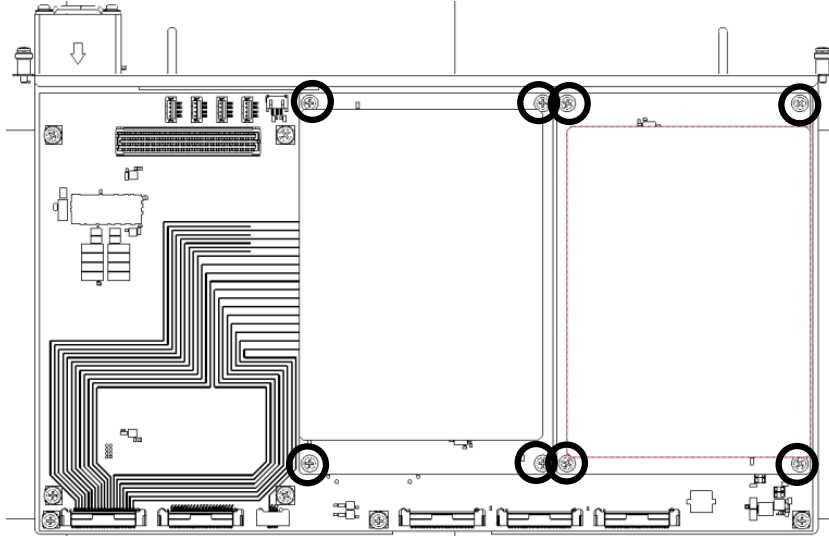
(4) HVS-Q12ME card should be installed onto the following position on the Main card.



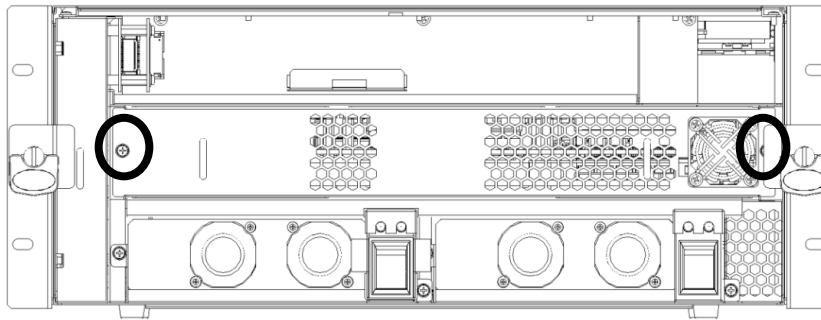
(5) Mate the connectors on the Main card and HVS-Q12ME card until they are fully seated.



(6) Secure the HVS-Q12ME card to the Main card with the supplied 8 screws.



(7) Insert the Main card onto the HVS-Q12. Make sure that the card is inserted correctly and secure the card with screws on both sides.



(8) Re-install the front panel to the HVS-Q12 with two screws on both sides.

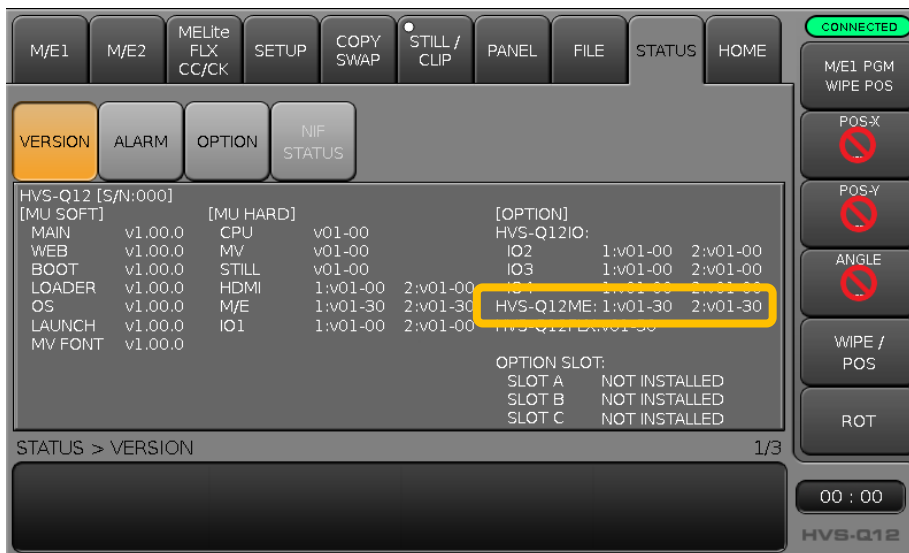
3-2. Checking the Installation

Verify that the HVS-Q12ME is correctly installed.

- (1) Connect the power cord and turn on the power of the switcher.
- (2) Open [STATUS > OPTION] menu on the control panel.
- (3) Check that **INSTALLED** is displayed under HVS-Q12ME.



- (4) Open [STATUS > VERSION] menu PAGE1 on the control panel.
- (5) Check that the ME version is displayed. (See below)
If the version is not displayed, consult your FOR-A reseller.

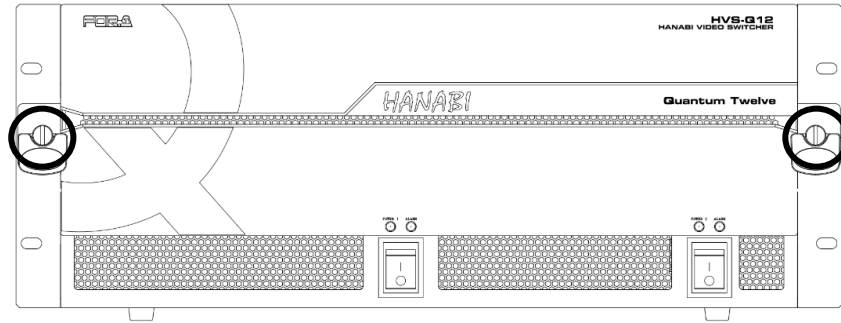


4. HVS-Q12SSD

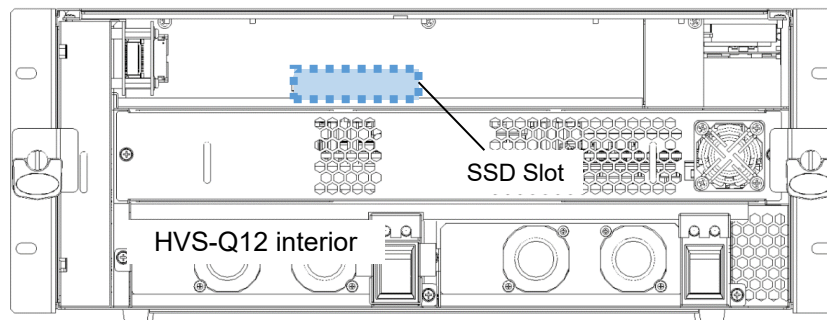
HVS-190SSD is an SSD storage option for HVS-Q12 switchers and enables auto backup of image data in the switcher.

4-1. Installing the SSD

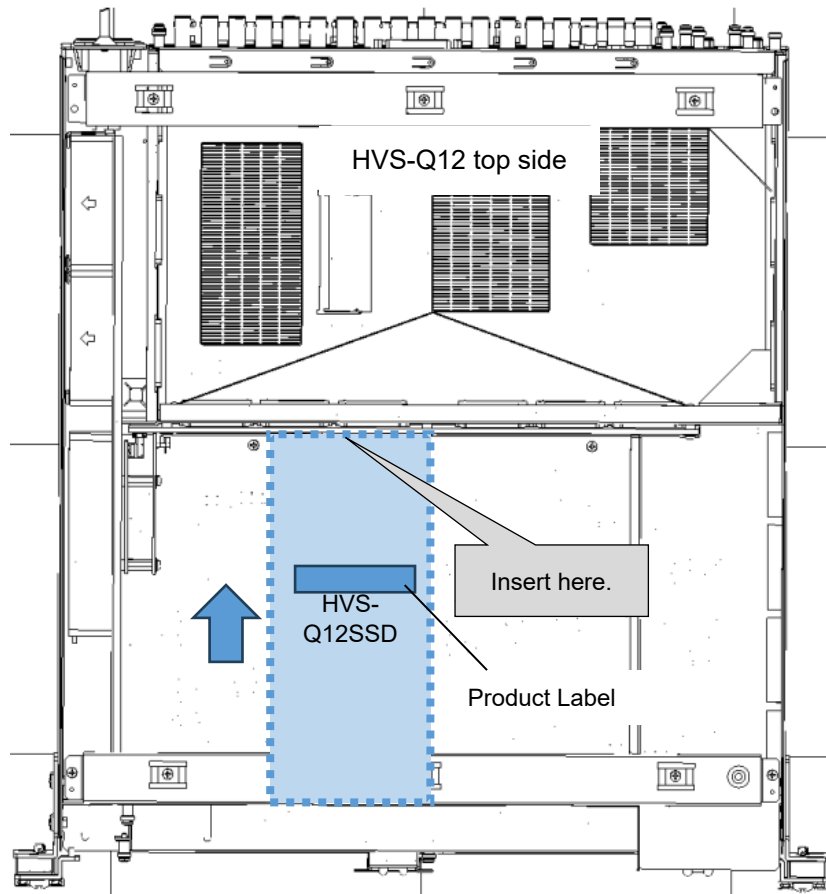
- (1) Power off the HVS-Q12 and disconnect the power cable(s).
- (2) Remove the front panel by loosening the captive screws on both sides of the panel.



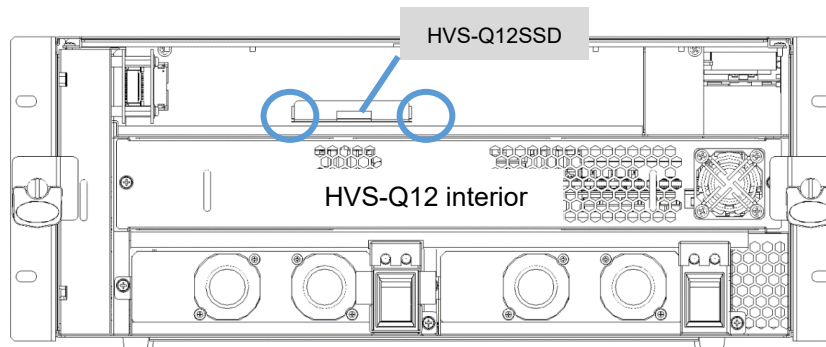
- (3) The SSD should be inserted onto the slot on the first board of the HVS-Q12 front inside. Release the screws on both sides of the blank panel and remove the panel.



- (4) With the product label of the SSD facing up, insert the SSD until the connectors are firmly seated.



- (5) Use the supplied three screws to fix the SSD to the plate of the chassis.



- (6) Re-install the top panel to the chassis with two removed screws.

4-2. Checking the Installation

Verify that the HVS-Q12SSD is correctly installed.

- (1) Connect the power cord and turn on the power of the switcher.
- (2) Open [STATUS > OPTION] menu on the control panel.
- (3) Check that “**INSTALLED**” is displayed for HVS-Q12SSD. (See below)

