

Release Notes for the BVM-HX3110

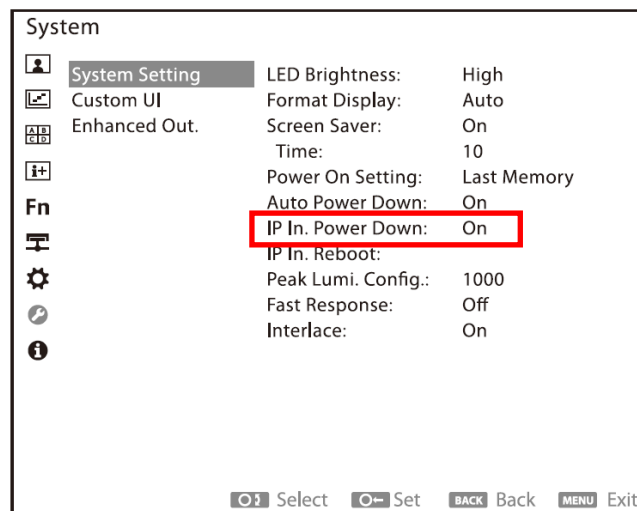
V2.01

1. Applicable Firmware:

BVM-HX3110 Ver.1.00 or later

Notes

- The software version for the monitor can be found in the "Unit Status" of the "Status" menu.
- This release provides update firmware for the Monitor body. There is no update for the IP interface function software from V2.00 to V2.01. If the NET board software is V1.00, please update to V2.00 as needed.
- If you do not use the IP interface function (hereafter, NET board), updating the NET board is not necessary. In that case, set "IP In. Power Down" to "On" (factory default). "IP In. Power Down" can be set from "System Setting" in the "System" menu.



("System Setting" menu)

- When using the IP interface function, updates are required for both the Monitor Body and the NET board, and each is performed independently. An IP network connection environment is required for updating the NET board. For details, please refer to "4. Preparation" and "6. Update Method - NET Board" in this document.
- After updating the Monitor Body from software V1.00 to V2.01, due to the bug fix described in ID 4 below, you may need to recalibrate the color temperature settings of your monitor.

2. Firmware Information:

Module	Old Version
Software	1.00
FPGA1	1081
FPGA2	0043
FPGA3	1024
FPGA4	1002200
FPGA5 ^{*1}	0B74CC
FPGA6 ^{*2}	1.00
FPGA7 ^{*2}	4DF35B31
CPLD1	0001
CPLD2	0000A100
CPLD3 ^{*2}	1516201
DATA1	0011
DATA2	0045
DATA3	0045
Bootloader ^{*2}	1.01

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Module	Old Version	New Version
Software	2.00	2.01
FPGA1	1143	
FPGA2	0052	
FPGA3	1024	
FPGA4	1002200	
FPGA5 ^{*2}	2.00	
FPGA6 ^{*2}	4DF35B31	
CPLD1	0001	
CPLD2	0000A100	
CPLD3 ^{*2}	01516201	
DATA1	0011	
DATA2	0053	
DATA3	0053	
Bootloader ^{*2}	1.02	

*1: The version of FPGA5 in V1.00 is no longer displayed from V2.00 onward, and FPGA6 and 7 in V1.00 are promoted to FPGA5 and 6. Please use the above module combinations.

*2: They are Modules for the NET board. The Bootloader data version can be checked from the [Maintenance] tab in the Web menu. For confirmation, an IP network connection environment is required.

Note

- You need to update both the software and the hardware/FPGA. You also need to update both the Bootloader and Software Package of the NET board.
Refer to the following chart for the estimated update time for each BVM-HX3110 unit.

Category	Firmware	Update time
Monitor body	Software / FPGA	Approx. 109 minutes
IP interface function (NET board)	Bootloader	Approx. 2 minutes
	Software Package	Approx. 6 minutes

3. Changes in Ver.2.01

- The changes from Ver.2.00 are as follows.
After this update, your monitor will be updated to Ver.2.01.

<Function Improvements>

The following function specifications have been changed:

ID	Descriptions
1	Improved so that markers/Grid Display can be displayed outside the active video area.
2	When displaying the list of function buttons of controller BVMK-R10 on the monitor screen (*), if the F key linkage function (Monitor F Key) of BVMK-R10 is set, the function name assigned to the function button on the monitor control panel will be displayed.

(*) When BVMK-R10 and the monitor are connected Peer to Peer or Single, and the menu is not displayed on the monitor screen, pressing the SELECT/ENTER knob on BVMK-R10 will display the functions assigned to the function buttons of BVMK-R10 on the monitor screen.

<Bug Fixes>

The following bugs have been fixed.

ID	Descriptions
1	In 16:9 video, when False Color Scale is displayed: <ul style="list-style-type: none">• When Pixel Zoom enlargement block is set to Upper / Upper Right / Center / Right / Lower / Lower Right, the False Color Scale is not at the edge of the screen.• When Pixel Zoom enlargement block is set to Upper Left / Left / Lower Left, the False Color Scale is not at the left edge of the video area and is not displayed correctly.

- The following changes from Ver.1.00 have been implemented. The on-screen display has also been adjusted to reflect the changes.

<New functions>

The following functions have been added.

ID	New functions	Descriptions
1	Side-by-Side display of 4K SDI/IP signals	Any two 4K SDI/IP signals can be simultaneously displayed in the Side-by-Side display mode.
2	BVMK-R10 support	The USB slot on the BVMK-R10 can work with the BVM-HX3110. Operability with the BVMK-R10 is also improved by this firmware update. You can now assign function buttons with the same number on the BVMK-R10 as the function buttons on the front control panel of your BVM-HX3110.
3	Setting copy function among BVM-HXxx10	Setting copy is available for BVM-HX3110/BVM-HX1710/BVM-HX1710N regardless of the screen sizes and/or the existence of IP Network connections.
4	Additional support for Closed Caption over 3G-SDI signals	The Closed Captioning function now supports decoding data over 3G-SDI Level A 1080/60P and 50P.
5	Source ID display	Up to 15 characters of source information embedded on the Ancillary Data area of SDI can be displayed at the top or bottom of the screen. This function is exclusive to the IMD function.
6	Status F key	A short cut function to the Status menu has been added for checking signal status etc.
7	Picture out Display	The on-screen image can be output in a reduced size along with IMD or Source ID, Scopes (1x only), ALM and TC.
8	H/V Delay	Ancillary Data embedded in the horizontal and vertical blanking periods can be displayed on the screen.
9	Scopes 2x display	WFM, Vector, and Color Gamut Scopes can be enlarged and displayed x 2.
10	IP Interface function Status display over Web menu	Error/Warning messages are displayed and confirmed.

<Improved functions>

The following functions are changed and improved.

ID	Changes
1	The Peak Lumi Config. settings have been changed with new settings added. Peak luminance settings for HDR are selectable from the following: Peak Lumi. 4000/3000/2000/1000/700/600/500/400 (Peak Lumi. 4x, 2x, and Off were selectable in V1.00.)
2	Changes to the Pixel Zoom function The area in which to perform Pixel Zoom has been expanded to 9 sections of the screen. The selected 1/9 of the picture can then be enlarged to full screen size. (Pixel Zoom was only available for 1/4 of the picture from the center of the screen for a 2 x zoom in V1.00)
3	Tally response time improvement Response time of Tally through the Parallel remote has been improved.

<Bug fixes>

The following bugs were fixed.

ID	Fixes
1	Embedded Audio from Blackmagic Design's video capture board can be shown in Audio Level Meter however, it is not output from the Headphone and/or the Audio monitor output.
2	When a 1920 x 1080/24 PsF signal was input and displayed in Native Scan mode, the vertical phase of part of the picture drifted from the Enhanced Monitor Output. This has been fixed.
3	The signal on screen became distorted if unstable signals were input to any of the other non-selected SDI inputs. This has been fixed.
4	Accuracy of long-term color temperature reinforcement has been improved*.

*: You may need to recalibrate the color temperature settings of your monitor after the update. This is because the new color temperature improvement may cause a drift from the previous calibration.

Note

- After the update, the monitor will keep your past stored settings. The default combinations of the F Key Presets were changed to represent V2 features. If you want to display the new settings, reset your monitor by using the User Reset function. With the exception of your Password, your past settings, data stored by All User Data Save and the stored data of User LUT1 to User LUT30, settings are returned to the new default settings after you execute the user reset function. Any data not saved will be cleared. Your past settings can be stored to a USB memory stick by using the Data Copy function in the Administrator menu in the on-screen display menu. For details, refer to the operating instructions of the monitor.

4. Preparation

When updating the monitor, prepare a USB memory stick as below:

Specification: USB 3.0, 8GB or less, FAT32 format

For details, refer to "Handling a USB memory stick" in the operating instructions of the monitor.

When updating NET board,

- Prepare the following IP network connection environment.
 - IP network switch (25/1 Gbps ports)
 - SFP28 Transceiver module
 - Optical fiber cable
 - Media converter (1Gbps, SFP to RJ-45)
 - LAN cable
 - PC (for operation of Web menu, Browser is required.)
 - Recommended browser: Chrome (The latest version is required.)
 - * Chrome browser and Chrome are trademarks of Google LLC.

5. How to update – Monitor body

5-1. Preparation-Monitor body

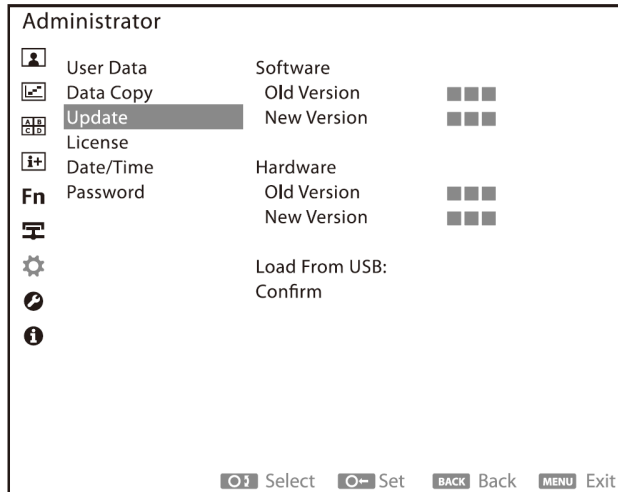
- Download the following zip file from the support page of Sony's web site.

File name: BVM-HX3110_V201.zip
- Extract the update file and store the "MSSONY" folder to the root folder of your USB memory stick.

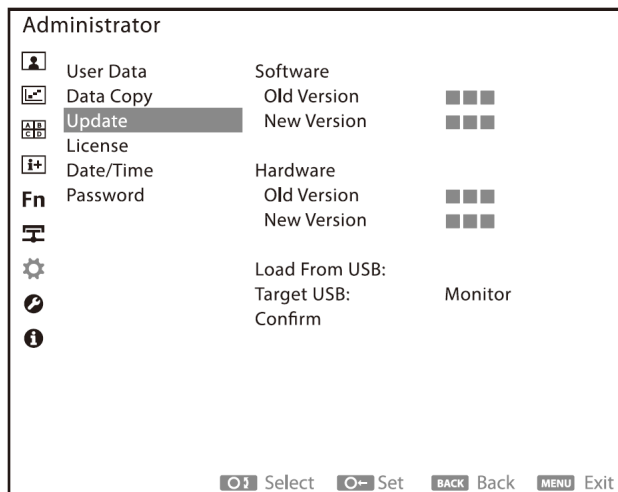
5-2. Installation procedure for the update of the Monitor body

- a) Insert the USB memory stick with the stored update into the USB connector of the monitor.
- b) Press the menu button and open the on-screen display menu.
- c) Go to the "Update" in the "Administrator" menu.

c-1) When the software version is V1.00,



c-2) When the software version is V2.00 or later,



Note

"Target USB" is displayed when the controller BVMK-R10 is connected "Peer to Peer" or "Single". Set "Target USB" to "Monitor" (factory default is "Monitor") to load the update file from the monitor's USB connector.

- d) Select "Load from USB", confirm the "New Version" columns of the "Software" and "Hardware" to the following numbers.

Category	New Version
Software	2.01
Hardware	1.47

- e) Select "Confirm".

The update will begin after "In Progress" is displayed for approximately 11 minutes 30 seconds.

The full update takes approximately 109 minutes including the "In Progress" indication period.

During the update, the indicators from F1 button to F12 button serially light on the front control panel of the monitor. After completing the software update, all function buttons light up.

Then, the FPGA update begins. During this update, the indicators from F1 button to F12 button also light serially on the front control panel. After completing the Software update, all Function buttons light up again.

- f) After completing the update, the monitor will automatically reboot.

Note

- **Do not turn off the power of the monitor.** Should it be turned off, execute this process again from the beginning in this section.

5-3. Confirmation of update completion -Monitor body

Confirm that the following new Version numbers are indicated in the “Unit Status” of the “Status” menu.

Module	Version
Software	2.01
FPGA1	1143
FPGA2	0052
FPGA3	1024
FPGA4	1002200
FPGA5	2.00
FPGA6	4DF35B31
CPLD1	0001
CPLD2	0000A100
CPLD3	01516201
Data1	0011
Data2	0053
Data3	0053

Note

- FPGA5, FPGA6 and CPLD3 are the version numbers for the modules of the NET board. They are not changed from the original V1.00 versions until the NET board is updated. Refer to the following instructions to update the NET Board.

Module	NET Board Ver.1.00
FPGA5	1.00
FPGA6	4DF35B31
CPLD3	1516201

6. How to update – NET board

6-1. Preparation -NET board

- Make the network connection below for this update. Connect either LAN1 or LAN2 of the monitor with your PC via an IP switch.

Configure the Network settings of the monitor and your PC with the same segment.

Example:

- Network setting of the monitor

IP address: 192.168.010.010

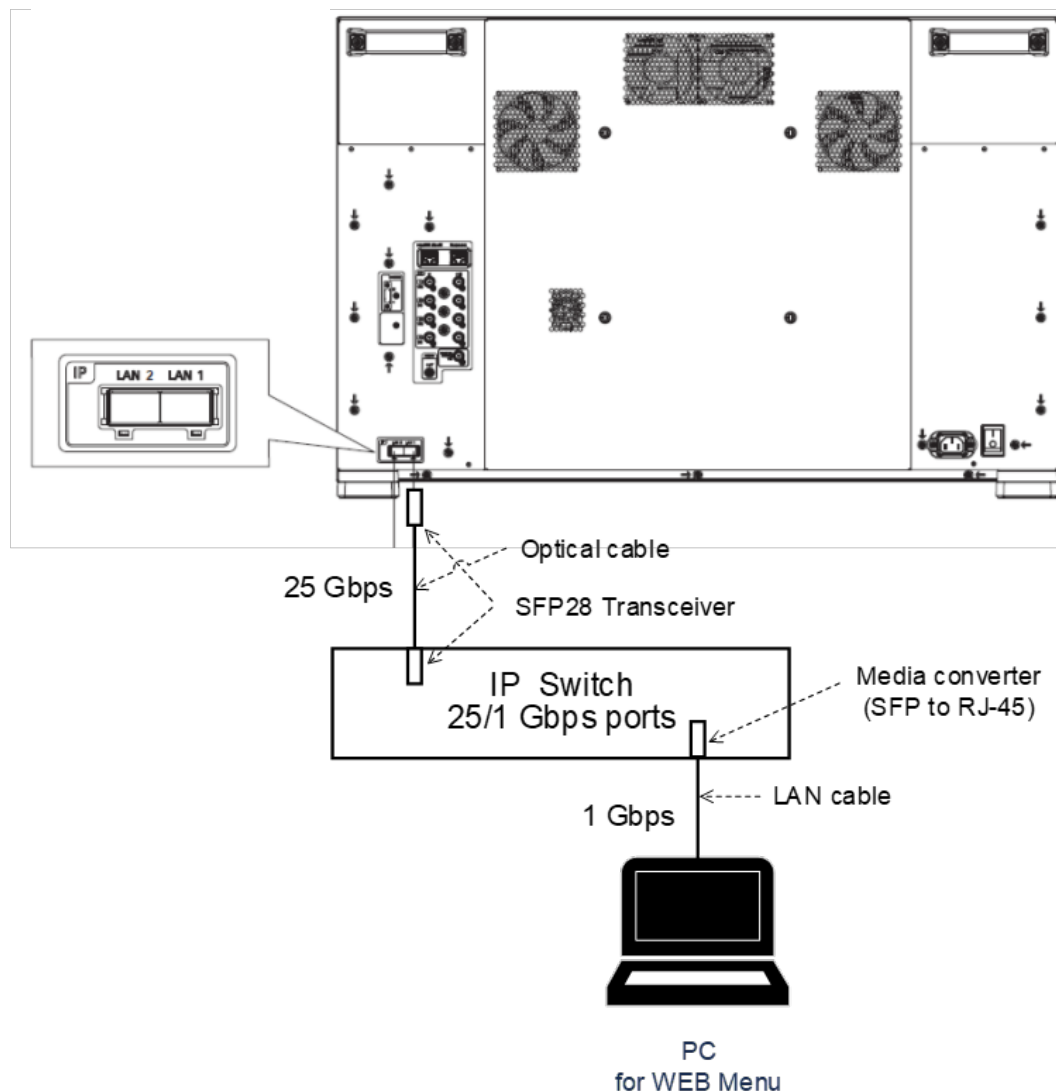
Subnet mask: 255.255.255.000

- Network setting of your PC

IP address: 192.168.10.200

Subnet mask: 255.255.255.0

[Connection example]



- Download the following zip file for the BVM-HX3110 V2.00 update from the support page of Sony's web site.

File name: BVM-HX3110_IP_V200.zip

- Extract the update file and the following two files will appear. Store them to a folder on your PC.

Step1_BVM-HX3110_IP_bootloader_v1.02.pkg : Bootloader Update file

Step2_BVM-HX3110_IP_2.00.pkg : Software Package Update file

6-2. Installation procedure -NET board

The update order is from a) to b). The Bootloader file should be updated first followed by the Software Package file.

a) Bootloader

b) Software Package

a-1) Press the monitor's menu button. Select "Off" in "IP In. Power Down" in the "System Setting" in the "System" menu of the OSD menu.

Wait approximately in 30 seconds to activate IP Interface function.

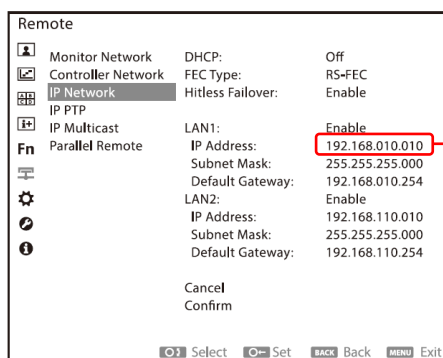
a-2) Click the WEB browser icon on your PC.

a-3) After inputting [https://\(IP address of one of the connected IP Inputs of this monitor\)](https://(IP address of one of the connected IP Inputs of this monitor)), press the "Enter" key of your PC.

Input one of the IP addresses for either LAN1 or LAN2 in the "IP Network" of the "Remote" menu in the OSD menu to the address bar of the WEB browser.

[Configuration example]

OSD Menu of the monitor



WEB Browser's screen of your PC

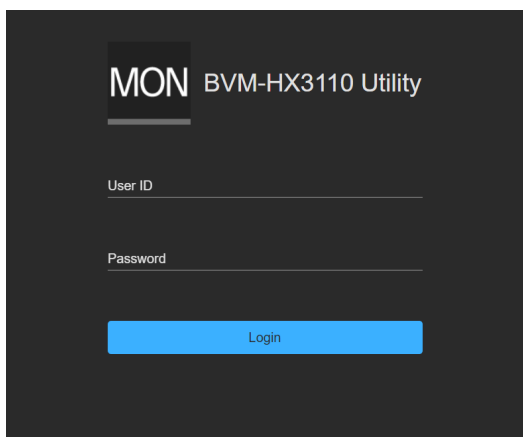


The WEB menu of the monitor appears after establishing the network connection between the monitor and your PC.

- a-4) Login to the monitor's WEB menu with an account with Administrator rights.
The default account and password for Administrator's rights are below.

User ID : admin

Password : nmidev123

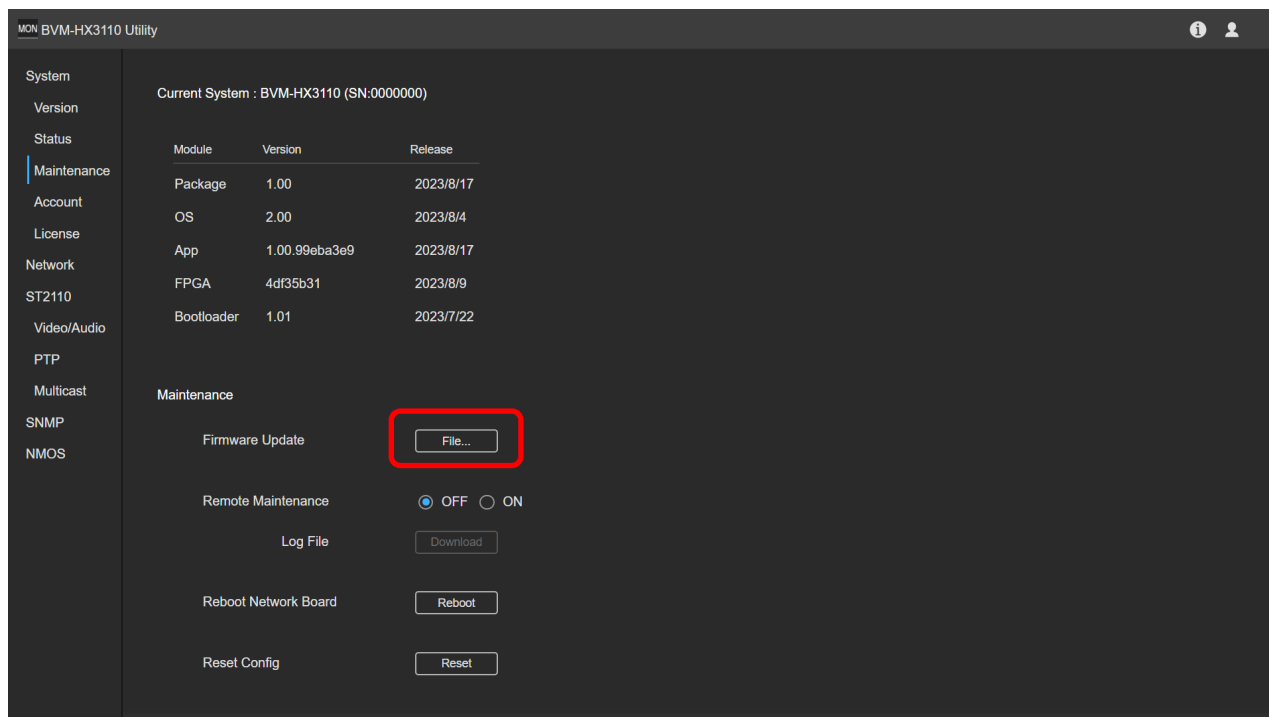


The image shows the login interface for the MON BVM-HX3110 Utility. It features a dark background with the 'MON' logo and the text 'BVM-HX3110 Utility' at the top. Below the logo, there are two input fields: 'User ID' and 'Password'. A blue 'Login' button is positioned below the password field.

Execute the update of the Bootloader first.

- a-5) Click [Maintenance] tab.

- a-6) Click [File...] below in the [Firmware Update] column in the [Maintenance] menu.

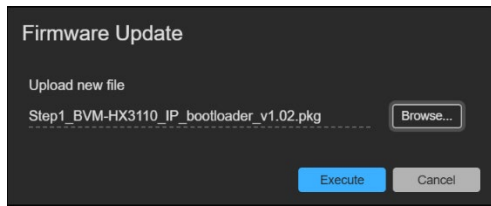


The image displays the 'Maintenance' menu of the MON BVM-HX3110 Utility. The left sidebar contains a list of menu items: System, Version, Status, Maintenance (highlighted), Account, License, Network, ST2110, Video/Audio, PTP, Multicast, SNMP, and NMOS. The main content area shows the 'Current System : BVM-HX3110 (SN:0000000)' and a table of system components.

Module	Version	Release
Package	1.00	2023/8/17
OS	2.00	2023/8/4
App	1.00.99eba3e9	2023/8/17
FPGA	4df35b31	2023/8/9
Bootloader	1.01	2023/7/22

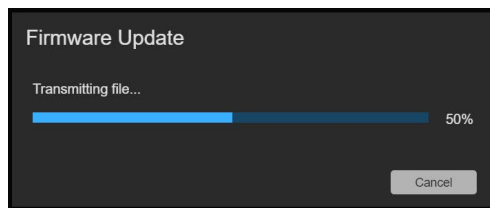
Below the table, the 'Maintenance' section is visible. It includes a 'Firmware Update' section with a 'File...' button (highlighted with a red box), a 'Remote Maintenance' section with 'OFF' and 'ON' radio buttons, a 'Log File' section with a 'Download' button, a 'Reboot Network Board' section with a 'Reboot' button, and a 'Reset Config' section with a 'Reset' button.

- a-7) Click [Browse...] and select the file named "Step1_BVM-HX3110_IP bootloader_v1.02.pkg" that was stored in your PC from the "Firmware Update" menu.



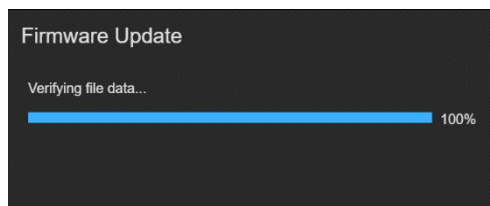
- a-8) Click [Execute].
The update will begin.

The progress bar will appear after the update starts.
Transmitting file...

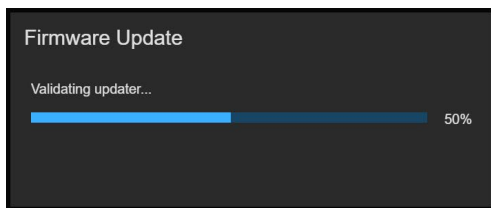


※"Transmitting file..." screen may not appear.

Verifying file data...



Validating updater

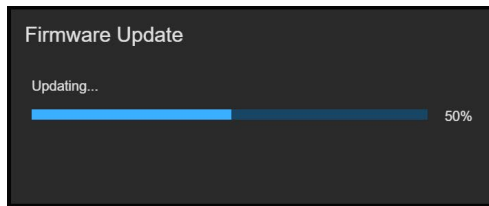


※"Validating updater..." may not appear.

Updating

After transitioning from the “Updating...” screen, the monitor will display a black screen.

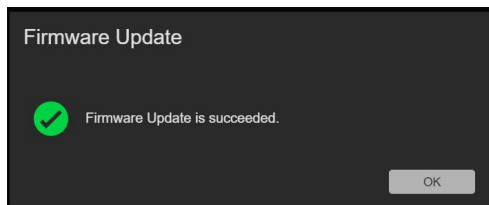
indicators from F1 button to F12 button serially light on the front control panel while the power indicator blinks.



※ 「Updating…」 screen may appear twice.

When the progress of “Updating...” reaches to 100 %, the message “Firmware Update is succeeded.” appears.

After completing this update, all Function buttons light up and the monitor will automatically reboot. It takes approximately 2 minutes from the click of “Execute” to completion of the reboot.



a-9) This update ends after clicking [OK].

Next update the Software Package.

- b-1) Follow the above procedures from a-2) to a-4) and display the WEB menu again.
- b-2) Click the [Maintenance] tab.
- b-3) Click [File...] below in the [Firmware Update] column in the [Maintenance] menu.
Refer to the picture and the procedure of a-6).
- b-4) Click [Browse...] and select the file named "Step2_BVM-HX3110_IP_2.00.pkg" and stored in your PC from the "Firmware Update" menu.
Refer to the picture and the procedure of a-7).
- b-5) Click [Execute].
The update will begin.

Note

- **Do not turn off the power of the monitor.** Should it be turned off, execute this process again from the beginning in this section.

The following progress indications will serially show up during this update.

- Transmitting file...
- Verifying file data...
- Validating updater
- Updating
- Firmware Update is succeeded.

※ Refer to the picture and the procedure of a-8).

After transitioning from the "Updating..." screen, the monitor will display a black screen. indicators from F1 button to F12 button will serially light on the front control panel while the power indicator of this monitor blinks.

When the progress of "Updating..." reaches to 100 %, the message "Firmware Update is succeeded." appears.

After completing this update, all Function buttons light up and the monitor will automatically reboot. It takes approximately 6 minutes from the click of "Execute" to completion of the reboot.

- b-6) This update ends after clicking [OK].

Note

- **Do not turn off the power of the monitor.** Should it be turned off, execute this process again from the beginning in this section.
- If the update of "Software Package" is executed FIRST, the update of "Bootloader" will fail displaying a file error. To fix this, download the following files from the Sony support site and follow the notes.

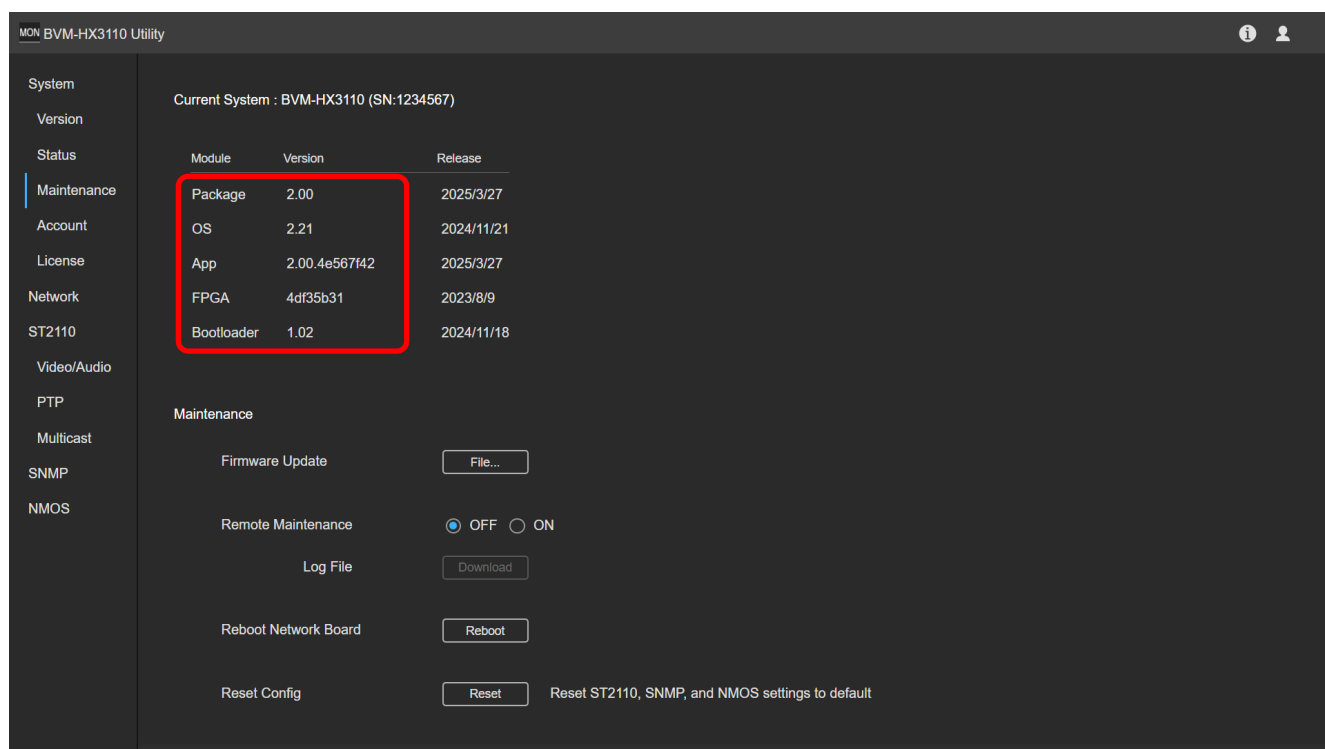
Note: Note for BVM-HX3110_V2_Bootloader_update_error(EN).pdf

File Name: BVM-HX3110_Bootloader_for_update_error.zip

6-3. Confirmation of the update completion -NET board

Confirm that the following new Version numbers are indicated in the [Maintenance] tab of WEB menu.

Module	Version
Package	2.00
OS	2.21
App	2.00.4e567f42
FPGA	4df35b31
Bootloader	1.02



Confirm that the following new Version numbers of FPGA5, FPGA6 and CPLD3 are indicated in the "Unit Status" of the "Status" menu.

Module	Version
Software	2.01
FPGA1	1143
FPGA2	0052
FPGA3	1024
FPGA4	1002200
FPGA5	2.00
FPGA6	4DF35B31
CPLD1	0001
CPLD2	0000A100
CPLD3	01516201
Data1	0011
Data2	0053
Data3	0053