

Release Notes for the PVM-X3200/X2400/X1800 Ver.5.02

1. Applicable Firmware:

PVM-X3200 Ver.2.00 or later
PVM-X2400 Ver.1.04 or later
PVM-X1800 Ver.1.04 or later

Notes

- The software version for the monitor can be found in the Unit Status of the Status menu.
- Note: If your monitor software version is currently Ver.1.03, you must update to Ver.1.04 first.
- The update firmware for Ver.1.04 for the PVM-X2400 and PVM-X1800 can be downloaded from the PVM-X support page.
- The update of Ver.1.04 takes approximately 1 hour and 10 minutes.

2. Firmware Information:

Firmware	Old Version						New Version
Software	2.00	3.01	4.00	4.01	5.00	5.01	5.02
FPGA1	0143	0230	0370				
FPGA2	0053	0060	0060 (X1800/X3200) 0061 (X2400)				
FPGA3	0032 or 1023 or 1024						
FPGA4	1002200						
FPGA5	0B74CC				- 1)		
CPLD	0003						
Data1	0004						
Data2	0053 (X1800/X2400) 0054 (X3200)	0061	0064				

1) : When the firmware version is Ver.5.00 or later, the FPGA5 version is not displayed.

Note

- You need to update both the software and the hardware/FPGA. Refer to the following chart about the update time of the unit.

Old Version	Update time
Ver.1.04 or Ver.2.00	Approx. 1 hour 25 minutes
Ver.3.01 or later	Approx. 1 hour 7 minutes

3. Preparation

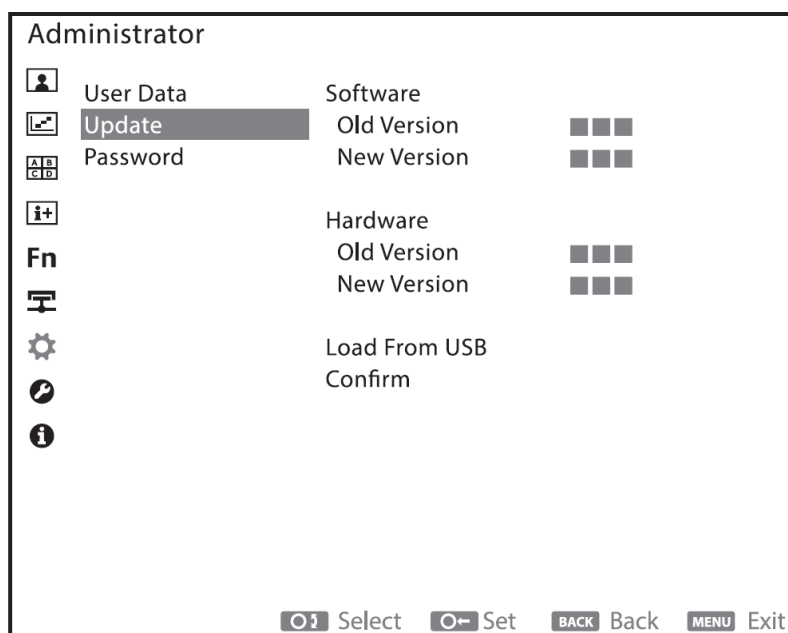
You will need 1 USB memory stick for this installation.

Specification: USB 3.0 up to 8GB, FAT32 format

For more details, read "Handling a USB memory stick" in the operating instructions for the PVM-X3200, X2400 and the PVM-X1800.

4. How to Update:

- Unzip the update files downloaded from the Sony web site and then copy the "MSSONY" folder from the PVM-X3200_V501 folder, the PVM-X2400_V501 folder or the PVM-X1800_V501 folder to the root of your USB Memory stick.
- Insert your USB Memory stick with the update software into the monitor.
- Open the On-screen display menu.
- Go to "Update" in the "Administrator" menu.



- Select "Load from USB" and confirm the update files are displayed as the following.

Software New Version : 5.02

Hardware New Version : 3.71

- Select "Confirm".
- When your monitor is Ver.1.04 or V2.00, turn the power off and on again after all the function keys light up twice. In the case of the update from Ver.3.01 or later, the unit will automatically restart after the update is completed.

For more details, see the "Update" in the "Administrator" menu in the operating instructions.

Notes

- **Do not turn off the power of the monitor.** Should it be turned off, execute this process again from the beginning in this section.
- **All the function keys light up when the software update is done. However, the process is NOT complete at this point. The update will now move on to the hardware update. There may be a pause between the two updates. Please let the process continue, it will commence shortly. Do not turn off the unit before the hardware update begins.** If the unit is turned off during the update, you will need to run the update again from the beginning.
- **The LEDs on the function buttons blink in sequence from F5 to F11 during the update. All the function keys will light up again after the hardware update is done.**

5. Changes in Ver.5.02:

The changes from Ver.5.01 are as follows.

Your monitor will be updated to Ver.5.02 once this update has been applied.

<Function Improvements>

The following function specifications have been changed:

ID	Descriptions																								
1	The factory default settings for Ch.28 to Ch.30 have been changed as follows:																								
	<table><tr><th>Ch.No</th><th>Ch.28</th><th>Ch.29</th><th>Ch.30</th></tr><tr><td>Name</td><td>4K/2K_HD_SDR</td><td>500ext</td><td>600ext_Clip</td></tr><tr><td>EOTF</td><td>2.4</td><td>ITU-R BT.2100(HLG) Normal Lumi.: 1.075</td><td>ITU-R BT.2100(HLG) Normal Lumi.: 1.105</td></tr><tr><td>Color Space</td><td>ITU-R BT.709</td><td>ITU-R BT.2020</td><td>ITU-R BT.2020</td></tr><tr><td>Transfer Matrix</td><td>ITU-R BT.709</td><td>ITU-R BT.2020</td><td>ITU-R BT.2020</td></tr><tr><td>Chr./Bright./Cont.</td><td>1000/0/400</td><td>1000/0/200</td><td>1000/0/240</td></tr></table>	Ch.No	Ch.28	Ch.29	Ch.30	Name	4K/2K_HD_SDR	500ext	600ext_Clip	EOTF	2.4	ITU-R BT.2100(HLG) Normal Lumi.: 1.075	ITU-R BT.2100(HLG) Normal Lumi.: 1.105	Color Space	ITU-R BT.709	ITU-R BT.2020	ITU-R BT.2020	Transfer Matrix	ITU-R BT.709	ITU-R BT.2020	ITU-R BT.2020	Chr./Bright./Cont.	1000/0/400	1000/0/200	1000/0/240
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2	Improved so that markers/Grid Display can be displayed outside the active video area.																								

<Bug Fix>

The following bug has been fixed.

ID	Description
1	On the PVM-X1800, enabling the interlace display function may cause image flicker.

The following changes from Ver.4.01 have been implemented. The on-screen display has also been adjusted to reflect the changes.

ID	New Features	Descriptions
1	Background processing EMO output function for HDR-SDR and 3D LUT conversion	While displaying HDR on the PVM screen, it is possible to output an SDR signal to an external monitor connected from the Enhanced Monitor Output (EMO hereinafter). You can also connect it to a recording device to create materials for offline editing. This is a functional improvement that increases the flexibility of simultaneous production of HDR/SDR videos.

ID	New Features	Descriptions
2	Side by Side left/right swap function during HDR-SDR conversion	When displaying Side by Side mode, SDR and HDR can be set to either the left or right side.
3	Free settings for EMO video when side by side	It is now possible to freely select either side of the displayed videos and set it to EMO.
4	HDR-SDR conversion during Quad View Display mode (HD only)	HDR-SDR conversion is possible even when displaying in Quad View Display mode.
5	Free settings for EMO (conversion output) video in Quad View (HD only)	You can output any one of the 4 displayed videos displayed according to each video to EMO.
6	Single Link 4K/HD auto-sensing (adapted to SDI Input 1 or SDI Input 3)	Single link signals from HD-SDI to 12G-SDI can be automatically detected (SDI Input 1 or SDI Input 3) without changing the CH. If your system supports the Video Payload ID, you can also set the Color Space, Transfer Matrix, and EOTF of your PVM-X monitor are automatically set according to the VPID in a video signal.
7	Interlaced display function	By inserting a black line into each even and odd line of an interlace signal alternately, you can check field dominance during online editing.
8	Black Detail Mode for HDR	The maximum luminance can be set to 400/500/600/700cd/m ² * and the black luminance can be lowered. In ITU-R BT.2100 (HLG), it is displayed as the maximum luminance of the video, and in SMPTE ST2084 (PQ) and S-Log3, the video is clipped at the set luminance.
9	Source ID display function	The source information (up to 15 characters) superimposed on the SDI Metadata part can be displayed overlapping the video.

*: This luminance is a typical value at D65 (x, y) = (0.3127, 0.3290) and is not a guaranteed value.

<Bug Fixes>

The following bugs have been fixed.

ID	Descriptions
10	The displayed image is disturbed when an unstable signal is input to other terminal which is not selected.
11	The luminance of the internal signal is low, when BlackDetailMode400,500,600,700 is selected.

Note

- The monitor keeps user data stored after the update. If you want the new F Key Preset to appear or apply the setting changes for Ch.28 to Ch.30 in Feature Change ID 1 of V5.02, you will need to perform "User Reset". The monitor returns to the factory data with the exception of the password, the settings saved using All User Data and the stored User LUT1 to User LUT30 data. This means user data that was not saved is cleared when you perform "User Reset" in the "Administrator" menu.