

BVM X300 V1.2 UPDATE INSTRUCTIONS

Attached is version 1.2 firmware for the BVM X300 master monitor. Please use these instructions to guide you through the update process.

The monitor can be updated from either V1.0 or V1.1. There is no need to install V1.1 prior to updating to V1.2.

Final version numbers can be viewed on page four of the status pages. After updating the monitor, the software version should be V1.2 with FPGS BLU changed to V063 and FPGA VERDE changed to V123.

NEW FUNCTIONS THAT ARE ADDED TO THE BVM X300 ARE:

Support for SMPTE ST372 1.5G Dual Link and the addition of XYZ decoding for use on DCP QA operations. The following formats are now supported.

	System Nomenclature		Signal Format	Mapping	4K Image Division
HD-SDI Dual-Link	1920x 1080	60*P, 50P	4:2:2 (YCbCr) 10bit		
		60*I, 50I	4:4:4 (RGB) 12/10bit		
			4:4:4 (YCbCr) 12/10bit		
		30*P, 25P, 24*P	4:4:4 (RGB) 12/10bit		
			4:4:4 (YCbCr) 12/10bit		
	2048x 1080	30*PsF, 25PsF, 24*PsF	4:4:4 (RGB) 12/10bit		
			4:4:4 (YCbCr) 12/10bit		
		60*P, 50P, 48*P	4:2:2 (YCbCr) 10bit		
		30*P, 25P, 24*P	4:4:4 (RGB) 12/10bit		
			4:4:4 (YCbCr) 12/10bit		
3G-SDI Single-Link	2048x 1080	30P, 25P, 24P	4:4:4 (XYZ) 12bit	Level A Level B-DL	
		30PsF, 25PsF, 24PsF	4:4:4 (XYZ) 12bit	Level A Level B-DL	
3G-SDI Quad-Link	4096x 2160	30P, 25P, 24P	4:4:4 (XYZ) 12bit	Level A Level B-DL	Square 2-SI
		30PsF, 25PsF, 24PsF	4:4:4 (XYZ) 12bit	Level A Level B-DL	Square

Support of both HLG ST 1.2 and ST variable EOTFs.

Addition of area and aspect markers

PREPARATION

You will need a PC using Windows 7® OS.

- Connect the monitor to the PC using a crossover Ethernet cable.
- Make sure that no video is connected to the monitor!!!
- The monitor IP address is 192.168.0.1
- Set the computer to 192.168.0.100
- The subnet mask should be 255.255.255.0

PROCEDURE

Unzip the BVM-X300_V12.zip file. Included are three folders and a new operations manual.

FPGA UPGRADE

Open folder Operation_1

EXECUTE "BLU_R063_151211_QUAD_22M_UPDATE.BAT"

The update process will take from 8 to 10 minutes.

The message "Press any key to continue" and "Finished correctly" should appear at the bottom of the text. Press the space bar to continue.

Open folder Operation_2

EXECUTE "VERDE_R123_16115_QUAD40M_UPDATE.BAT"

The update process will take from 10 to 12 minutes.

The message "Press any key to continue" and "Finished correctly" should appear at the bottom of the text. Press the space bar to continue.

Turn the monitor off and then on again.

SOFTWARE UPDATE

Open folder Operation_3

EXECUTE "APPLICATION_UPDATE.BAT"

The update process will take from 2 to 3 minutes.

The message "Press any key to continue" and "Finished correctly" should appear at the bottom of the text. Press the space bar to continue.

EXECUTE "OSD_BITMAP_UPDATE.BAT"

The update process will take about 3 minutes.

The message "Press any key to continue" and "Finished correctly" should appear at the bottom of the text. Press the space bar to continue.

EXECUTE "OSD_FONT_UPDATE.BAT"

The update process will take about 20 minutes.

The message "Press any key to continue" and "Finished correctly" should appear at the bottom of the text. Press the space bar to continue.

Turn the monitor off and then on again.

CONFIRMATION

Press the menu key to display the status menu. Press enter and use the control knob to go navigate to page four of the status menu. Confirm that the software versions are:

Software Version	V1.2
FPGA 1	0063
FPGA 2	0123
FPGA 3	0110
FPGA 4	0110
FPGA 5	0703
FPGA 6	0703