

AV Bridge XL Conversion Platform

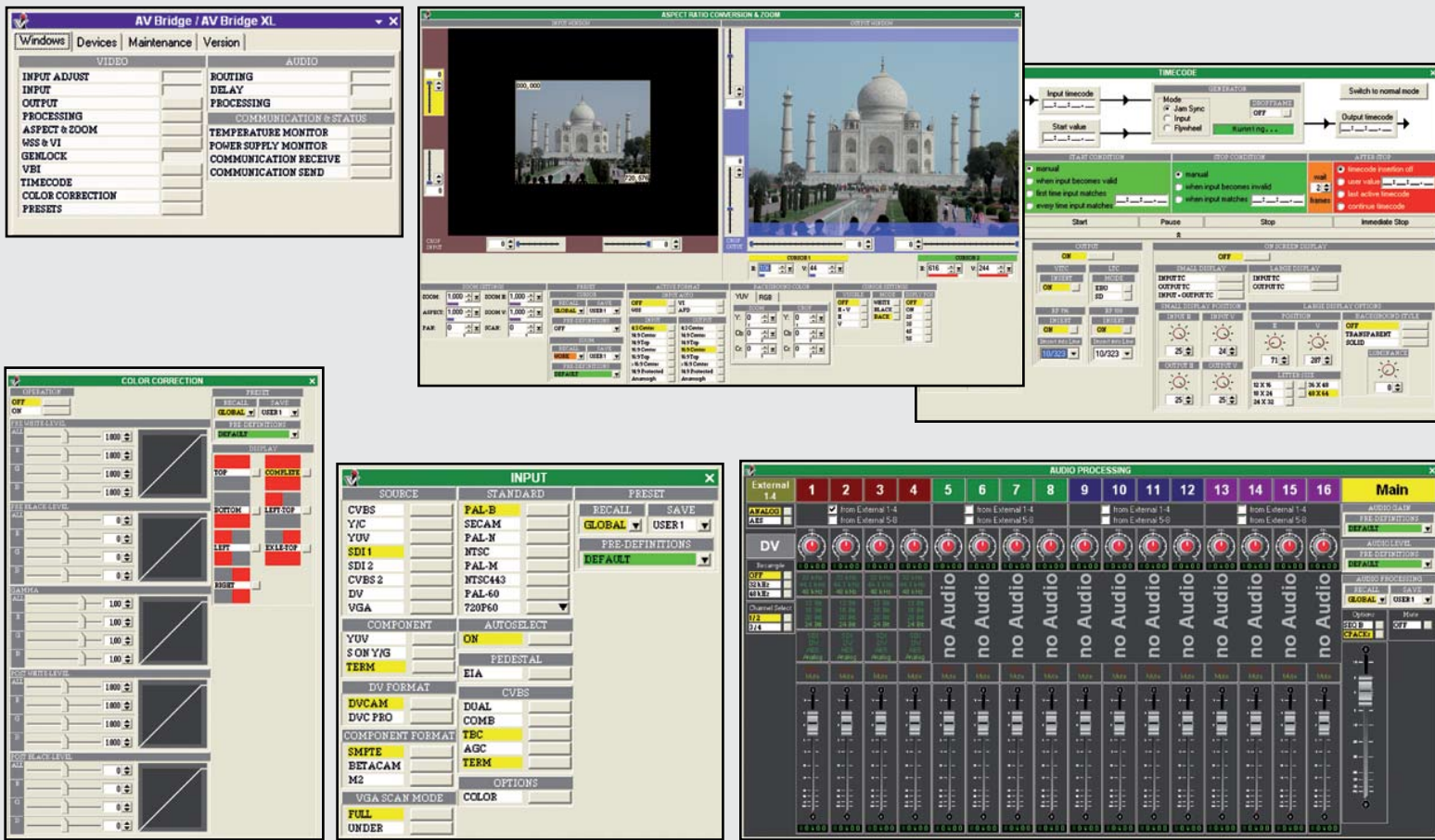


MS Windows based Remote Environment

A remote control application for MS Windows based PCs is standard. You can control and monitor every function of the AVBridgeXL from your PC, even functions which are not accessible via the local control panel. With a single PC you are able to control as many units as you can connect to monitor the complete state of the system in several windows, one for each group of functions. Adjust the systems settings with graphical control components. You do not have to guess about the results of your adjustment - you are able to see it while modifying it!

System Requirements

A PC running MS Windows Vista, MS Windows XP or MS Windows 2000 with at least 500 MHz and 256 MByte of RAM. The software needs 6 MB of disk space. A screen resolution of at least 1024 x 768 pixels with 64 k of colors is recommended. The communication with the unit is done via a standard RS232-port, alternatively an Ethernet adapter is available.



All Preset functions for the different groups of functions are summarized in the Remote Environment in a single window. That allows a short look into all relevant system functions. You can name the several presets and save them to a file for documentation purposes and later recall them to set up the unit exactly as it was before.

The timecode window allows the definition of timecode procedures with start condition, stop condition, with jam sync and many other features. Monitor input and output timecode simultaneously in the remote or in the on screen display. Just define everything as you want it to be!

The remote environment contains complete audio control for embedded and external audio. You can adjust the level of all channels and route everything as you want.

Complete graphical control of color correction and legalization with a quick overview of all parameters.

Change and monitor the zoom, aspect, pan, scan and crop settings. Helpful predefined presets are available with one mouse click.

AV Bridge XL

Conversion Platform



Input Formats and Video Standards

- CVBS** PAL (I, B, G, D, M, N), NTSC (EIA, EIA-J, 4.43), SECAM, Pal60, Black/White as CVBS
Y/C
YPbPr/RGB 525/625 N10, MII or Betacam Sync on Y/G or external
Genlock Analog Black Burst/CVBS

Input Video Connectors

- CVBS** 2 x BNC – dual / looping input
Y/C 4 pin female S-Video connector
YPbPr/RGB 3 x BNC
Genlock 2 x BNC dual / looping input analog

Output Formats and Video Standards

- CVBS** PAL (I, B, G, D, M, N), NTSC (EIA, EIA-J, 4.43) SECAM
Y/C as CVBS
YPbPr/RGB 525/625 N10, MII or Betacam Sync on Y/G

Output Video Connectors

- CVBS** 2 x BNC
Y/C 4 pin female S-Video connector
YPbPr 3 x BNC

Time code

VITC In- and Output, 60Hz DropFrame / non-DropFrame

Video Processing

Quantizing Scheme 4:2:2 conforming to ITU BT656, SMPTE 259M
 Sampling – Luminance 13.5MHz x 12 Bit
 Sampling – Chrominance 2 x 6.75 MHz x 12 Bit
 Digital Enhancement Horizontal and Vertical
 Noise Reduction Recursive Y and C up to 20dB
 Median Filter Y and C
 Full Frame TBC
 RGB Color Corrector and Legalizer
 4 Field / 4 Line Standards Conversion with spatio temporal motion adaptive interpolation
 SECAM Ident (input) Horizontal
 SECAM Ident (output) Horizontal + Vertical
 CVBS Chroma Modulation PAL R-Y/B-Y Axis
 NTSC I/Q Axis

Frequency Response

Luminance (Y) 5.5 MHz, 0.5 dB
 Chrominance (C) 0.5-1.5 MHz, 1 dB
 Differential Phase <1°, Differential Gain <1%
 Signal to Noise Ratio >68dB CCIR Flat field

Remote Control

RS232C Remote Control 9 D-Sub
 Windows Control Software included

Power Requirements

AC Voltage 90-260V, 50 / 60 Hz
 Power Consumption <150VA

Physical

Dimensions 44 x 444 x 460mm (H x W x D)
 Weight 8kg approx
 Chassis 1RU 19" Rack mounting
 Cooling Forced air – cross flow (side to side)



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Audio Processing

(either Option /SDI or /AEB required)
 Audio Delay Time 4-1023ms
 Audio Gain -∞ ... +18dB
 Internal Processing 32 Bit
 channel swap via routing matrix

Additional Timecode Processing

(either Option /SDI or /HD required)
 LTC In- and Output, BNC, format EBU / SMPTE
 RP188

Option /SDI

(included with Option /HD)
 conforming to ITU BT656, SMPTE 259M
 Input 2 x BNC, 1 x BNC (Genlock)
 Output 2 x BNC
 Embedded Audio Processing 16 channels 20 / 24 Bit, 32 kHz / 44,1 kHz / 48 kHz

Option /HD

(includes Option /SDI, /DV with common I / O)
 conforming to ITU BT656, SMPTE 259M, SMPTE 292M
 Input 2 x BNC
 Genlock 1 x BNC (SMPTE292, Trilevel)
 Output 2 x BNC
 Embedded Audio Processing 16 channels 20 / 24 Bit, 32kHz / 44,1 kHz / 48 kHz

OUT \ IN	625I50	720P50	720P25	1080I50	1080sF25	1080P25	1250I50	525I59	720P60	720P59	1035I60	1035I59	1080I60	1080I59	1080sF24	1080sF23	1080P24	1080P23
625I50																		
720P50			1)															
720P25	1)	1)	1)	1)	1)	1)	1)											
1080I50																		
1080sF25																		
1080P25																		
1250I50																		
525I59																		
720P60																		
720P59																		
1035I60																		
1035I59																		
1080I60																		
1080I59																		
1080sF24																		
1080sF23																		
1080P24																		
1080P23																		

1) Standard does not support embedded audio

Option /DV

supports IEEE 1394, DV / DVCAM / DVCPRO25 525 / 625 lines
 two Firewire connector (6 Pin)
 • /HD Option not installed: supports I / O simultaneously
 • /HD Option installed: supports either Input or Output

Option /MV

motion vector compensated standards conversion
 with scene / cut detection

Option /AEB

Analog / AES Audio Embedding / Deembedding
 Digital Audio AES or SPDIF 32kHz / 44.1kHz / 48kHz up to 24 Bit
 ADC/DAC Resolution 24 Bit
Analog In 4 x Mini-XLR (balanced)
Digital In 2 x BNC
Analog Out 4 x Mini-XLR (balanced)
Digital Out 2 x BNC

Option /VGA

VGA Input up to 2048 x 1536
 15 D-Sub-Min looping input

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