

# BLT VIDEO SERVER

	SMS-2U	SMS-3U	SMS-4U
<b>VIDEO</b>			
Inputs	2 x SDI (HDTV/SDTV)	3 x SDI (HDTV/SDTV) with active loop-through	4 or 6 x SDI (HDTV/SDTV) with active loop-through
Outputs	2 x SDI (HDTV/SDTV) with dual output 2 x SDI (Down Converted) with on-screen display	3 x SDI (HDTV/SDTV) with dual output 3 x SDI (Down Converted) with on-screen display 3 x SDI input monitor with down converter	4 x SDI (HDTV/SDTV) with dual output 4 x SDI (Down Converted), with on-screen display 4 x SDI input monitor with down converter
Gen. Lock	Automatic with Black Burst/composite video, or tri-level sync, with Hi-z for loop-through		
TV Standards	1080i/50 1080i/59.94 625i/50 525i/60 SMPTE 259/274/292 (296 TBD)		
Compression	Full 10 bit precision, 1920x1080 unscaled process 4:2:2 JP2K I-frame only, VBR Constant Quality with data rate up to 150 Mbit/sec. each channel		
<b>AUDIO</b>			
Inputs per video channel	4 mono channels (2 stereo) with internal flexible router 2 x 4 Analog 2 x 4 AES-EBU Embedded (SMPTE 272MA/299)	4 mono channels (2 stereo) with internal flexible router 3 x 4 Analog 3 x 4 AES-EBU Embedded (SMPTE 272MA/299)	4 mono channels (2 stereo) with internal flexible router 4 x 4 Analog 4 x 4 AES-EBU Embedded (SMPTE 272MA/299)
Outputs per video channel	4 mono channels (2 stereo) 2 x 4 Analog 2 x 4 AES-EBU Embedded (SMPTE 272 MA / 299)	4 mono channels (2 stereo) 3 x 4 Analog 3 x 4 AES-EBU Embedded (SMPTE 272 MA / 299)	4 mono channels (2 stereo) 4 x 4 Analog 4 x 4 AES-EBU Embedded (SMPTE 272 MA / 299)
Connectors	Analog: female DB25, balanced 600 Ohm or Hi-z AES-EBU: BNC 75 Ohm		
Analog Levels	+ 4dBm		
Sampling	Linear PCM 16/24 bit, 48KHz - not compressed		
<b>TIME CODE</b>			
Inputs	LTC through 3-pin XLR or ATC Embedded (SMPTE 291 RP-188) or internal TCG		
Outputs	LTC through 3-pin XLR ATC Embedded (SMPTE 291 RP-188) on-screen display		
<b>CONTROL INTERFACE</b>			
Protocol	B75 compatible over IP with BLT extensions		
Connectors	2 x LAN Gigabits and 9-pin RS-422A (RS-232 with adaptor)		
<b>GENERAL</b>			
Chassis (Hard Disk included)	Rack 19" 2U	Rack 19" 5U	Rack 19" 5U
Hard Disk	Interface: SATA with RAID protection (option) Type: 2 x 2" 1/2 inc. internal, removable	Interface: SAS with RAID protection level 5 Type: 8 x 2" 1/2 inches, internal, removable	
Recording Time	HDTV up to 40 hours (total) SDTV up to 100 hours (total)		
High Speed Recording compatibility	HDC-3300 (HDTV x 3) SK-HD1500 (HDTV x 3) LDK-8300 (HDTV x 3) LDK-8200 (HDTV x 2) BVP-9500WS (SDTV x 3) LDK-23HS (SDTV x 3)		
<b>POWER</b>			
Voltage	200~240 or 100 ~117 Vac auto switch 50/60Hz		
Consumption	75 W approx	250 W approx	
<b>MECHANICAL</b>			
Dimensions (HDD includ.)	Weight: 430 (w) x 88 (h) x 500 (d) mm	Weight: 430 (w) x 220 (h) x 500 (d) mm	
Weight	10 Kg approx	21 Kg approx	
Environmental	Operating temperature: 0°~ 40°C Humidity: less than 90% (non condensing)		
<b>OPTIONS</b>			
HR	The HR option is the HDTV Ready version, with the same functionality limited to SDTV. Upgrade to full HDTV through on-field board swap replacement		
	<b>RAID</b> optional RAID level 5 storage data protection	<b>3R2P</b> 3 REC / 2 PLAY Channels <b>3R3P</b> 3 REC / 3 PLAY Channels	<b>4R2P</b> 4 REC / 2 PLAY Channels <b>4R4P</b> 4 REC / 4 PLAY Channels <b>6R2P</b> 6 REC / 2 PLAY Channels



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Design and specification subject to change without notice ~ September 2011



# BLT VIDEO SERVER

## SMS-2U • SMS-3U • SMS-4U

VIDEO SERVER FOR STUDIO AND OUTSIDE BROADCAST LIVE EVENTS





# BLT VIDEO SERVER

SMS-2U • SMS-3U • SMS-4U

Spanning through a broad range of applications, BLT Video Server are especially appropriate for live and sports event production. Capturing sports events is one of the most challenging steps in the television broadcast chain. BLT Video Server provide to television directors the flexible and efficient tools, allowing the capture of unforgettable moments for the enjoyment of millions of viewers, bringing them "the thrill of victory and the agony of defeat".

Full HDTV, S3DTV, instant replay, playlist, highlights, live editing, networking and super slow motion are the features!

## KEY FEATURES

- Front access to video BLT process boards
- Hot swap removable SAS HDD storage
- Swap removable SAS HDD storage, allowing to fly away and swap the entire production asset in a minute
- Internal transition DVE (using just a single channel)



- Native interface with BLT hardware control panel for powerful & user friendly operation



- Audio/Video material sharing through dual LAN
- Hot Swap removable double PSU Built-in HDTV to SDTV and viceversa up-down converters
- Flexible internal Audio router and editor



## SMS-2U

**4** HDTV CHANNELS  
**2** CAMERAS

The BLT SMS-2U is a compact 4 channels Video Server, with simultaneous recording while playback, featuring full HDTV capability and stereoscopic recording for S3DTV.

Thanks to its compact dimension, SMS-2U is particularly suited for live sport and news applications for Studio and OB VAN.



## SMS-3U

**6** HDTV CHANNELS  
**3** CAMERAS

The BLT SMS-3U is a 6 channels Video Server, with simultaneous recording while playback, featuring full HDTV capability and stereoscopic recording for S3DTV. Recording sources can be separated cameras (ISO-Cam use) or a High Speed Camera to perform Super Slow Motion up to x3.

Thanks to its compact and limited size (5 unit rack), SMS-3U is particularly suited for live sport and news applications for Studio and OB VAN.



## SMS-4U

**8** HDTV CHANNELS  
**4/6** CAMERAS

The BLT SMS-4U is an 8 channels Video Server, with simultaneous recording while playback, featuring full HDTV capability and stereoscopic recording for S3DTV. Recording sources can be separated cameras (ISO-Cam use) or High Speed Cameras to perform Super Slow Motion up to x3. The extended version, 6R2P allows up to 6 cameras recording or 2 High Speed cameras. Multiple Playback channels configuration can be either multiple independent users or coupled as Program/Preview to allow live instant action editing.

Thanks to its compact and limited size (5 unit rack), SMS-4U is particularly suited for live sport and news applications for Studio and OB VAN.

## APPLICATION EXAMPLE

12 ISO-CAM + 2 Super Slowmotion (x3) networked OB-VAN

