



BLT VIDEO SERVER

SMS-2U • SMS-4U

VIDEO SERVER FOR STUDIO AND OUTSIDE BROADCAST LIVE EVENTS



italian emotion since 1959

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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, super slow motion and ultra motion are the current features.

KEY FEATURES

- Front access to video BLT process boards
- RAID protected material storage
- Hot Swap removable internal material storage, allowing to fly away and swap the entire production asset in a minute
- Internal transition DVE (using just a single channel)
- Embedded MultiViewers (up to 4 independent MVW)

- Native interface with BLT hardware control panel for powerful & user friendly operation
- Auxiliary Operator Second-screen control through touch tablet (SportTouch option)



- Multiformat Audio I/O: Embedded, AES-EBU, Analog, MADI (AES-10) with flexible router up to 128 tracks
- Audio/Video material sharing through dual LAN
- Built-in HDTV to SDTV and viceversa up-down converters either for source and playback
- Flexible internal Audio router and editor
- Hot Swap removable double PSU



SMS-2U

6 HDTV CHANNELS

The BLT SMS-2U is a compact Video Server up to 6 channels, with simultaneous loop recording while playback, featuring full HDTV capability and stereoscopic recording for S3DTV.

Recording sources can be isolated cameras (ISO-Cam) or special cameras as High Speed Camera for Super Slow Motion (up to x3) or Ultra Motion/Hypermotion.

SMS-2U is not "just a Video Server": thanks to the internal Audio router, the Multiviewer and the DVE with Zoom and TeleStrator it is an all-in-one production center for live contribution and real time editing.

Playback channel configuration can be set either as two independent users or coupled as Program/Preview.

Each Video channel is associated with timecode and up to 16 Audio tracks; Audio I/Os are multiformat: Embedded, AES-EBU, Analog and MADI (AES-10) with internal flexible router.

The SMS-2U compact size (just 2 rack units) makes it particularly suited for live sport and news applications in Studio or OB VAN.



SMS-4U

12 HDTV CHANNELS

The BLT SMS-4U is a 12 channel Video Server, with simultaneous recording while playback, featuring full HDTV capability, stereoscopic recording for S3DTV and ready for upgrade to UltraHDTV (4K, full resolution 50/60P) through a dedicated BLT adaptor processor.

Recording sources can be isolated cameras (ISO-Cam) or High Speed Cameras to perform Super Slow Motion up to x8 or Ultra Motion/Hypermotion.

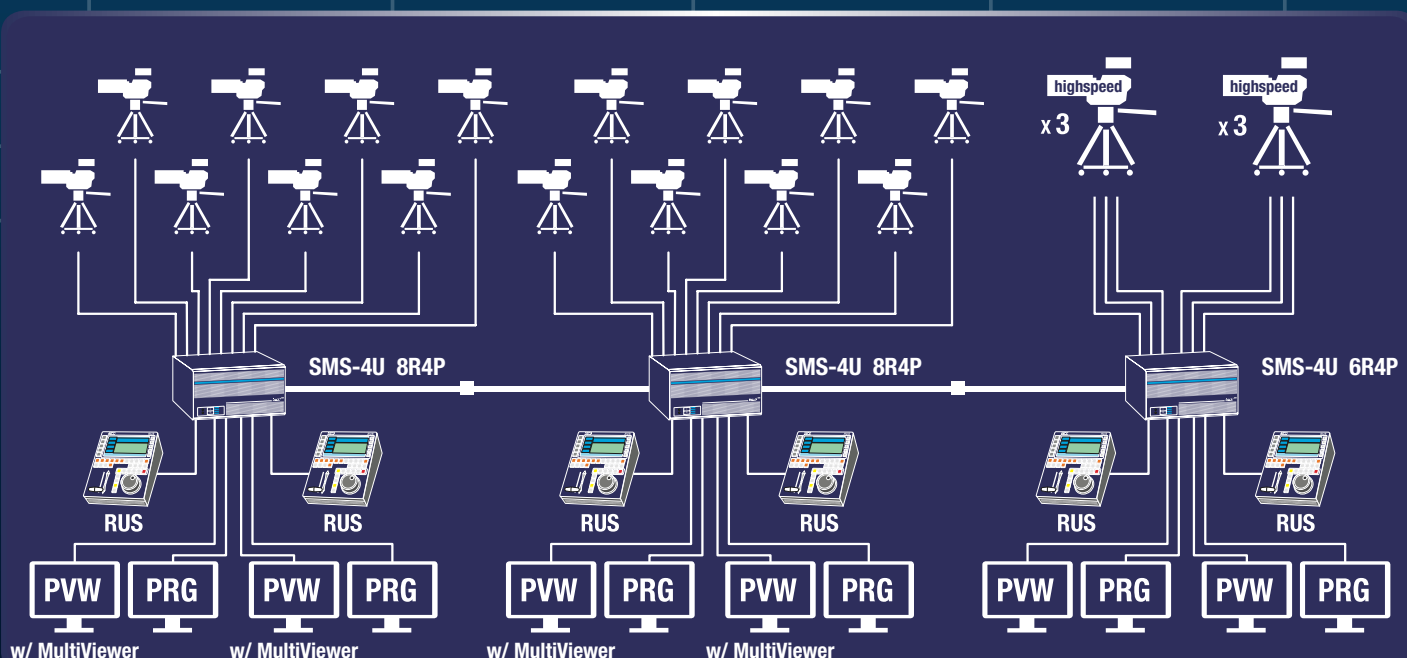
SMS-4U comes in different scalable configurations ranging from 2R2P (2 inputs~2 outputs) up to 8R4P (8 in~4 out). Each Video channel is associated with timecode and up to 16 Audio tracks. The top version, 8R4P allows up to 8 cameras recording or 2 High Speed cameras.

Multiple Playback channel configuration can be set either as multiple independent users or coupled as Program/Preview to allow live instant action editing.

Thanks to its compact size (5 rack units) and rugged chassis, SMS-4U is particularly suited for live sport and news applications in Studio or OB VAN.

APPLICATION EXAMPLE

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



BLT VIDEO SERVER

SMS-2U		SMS-4U	
VIDEO			
Inputs	up to 4 x SDI (HDTV/SDTV)		up to 8 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 1 x SDI Multiview (option)		4 x SDI (HDTV/SDTV) with dual output 4 x SDI (Down Converted), with on-screen display or MVW 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 720p/50 720p/59.94 625i/50 525i/60 SMPTE 259/274/292/296		
Compression	Full 10 bit precision, 1920x1080 unscaled process 4:2:2 JP2K I-Frame only, VBR Constant Quality, data rate up to 150 Mbit/sec. each channel		
AUDIO			
Inputs per video channel	8 mono (4 stereo) Audio tracks, option 16 Audio tracks with internal flexible router 2 x 4 Analog 2 x 4 AES-EBU Embedded (SMPTE 272MA/299)		8 mono (4 stereo) Audio tracks, option 16 Audio tracks with internal flexible router 4 x 4 Analog 4 x 4 AES-EBU Embedded (SMPTE 272MA/299)
Outputs per video channel	8 mono (4 stereo) Audio tracks, option 16 Audio tracks 2 x 4 Analog 2 x 4 AES-EBU Embedded (SMPTE 272 MA / 299)		8 mono (4 stereo) Audio tracks, option 16 Audio tracks 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	MADI (AES-10): BNC 75 Ohm (option)
Analog Levels	+ 4dBm		
Sampling	Linear PCM 16/24 bit, 48KHz - not compressed		
TIME CODE			
Inputs	LTC through 3-pin XLR or ATC Embedded (SMPTE 291 RP-188) or internal TCG		
Outputs	LTC through 3-pin XLR and ATC Embedded (SMPTE 291 RP-188) and on-screen display		
CONTROL INTERFACE			
Protocol	B75 compatible over IP with BLT extensions		
Connectors	1 x LAN Gigabit and 9-pin RS-422A (RS-232 with adaptor)	2 x LAN Gigabit and 9-pin RS-422A (RS-232 with adaptor)	
GENERAL			
Chassis (Disks included)			
Hard Disk or Solid-State Drive	Interface: SATA (HDD/SSD) with RAID protection (option) Type: up to 4 x 2" 1/2 inches, internal, removable		Interface: SAS/SATA (HDD/SSD) with RAID protection Level 5 Type: up to 8 x 2" 1/2 inches, internal, removable
Recording Time	HDTV up to 150 hours (total) SDTV up tp 300 hours (total) - subject to change according to storage size defined at order time		
High Speed Recording Camera compatibility	LDK-8200 (HDTV x 2) LDK-8300 (HDTV x 3) SK-HD1500 (HDTV x 3) HDC-3300 (HDTV x 3) LDK-8600 (HDTV x 6) HDC-4300 (HDTV x 8) BVP-9500WS (SDTV x 3) LDK-23HS (SDTV x 3)		
POWER	Single PSU or Dual Redundant PSU as option		Hot swap Dual Redundant PSU
Voltage	200~240 or 100 ~117 Vac auto switch 50/60Hz		
Consumption	75 W approx		250 W approx
MECHANICAL			
Dimensions (HDD includ.)	430 (w) x 88 (h) x 500 (d) mm		430 (w) x 220 (h) x 550 (d) mm
Weight	10 Kg approx		25 Kg approx
Environmental	Operating temperature: 0°~ 40°C Humidity: less than 90% (non condensing)		
OPTIONS			
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		
RAIDSMS2U optional RAID storage data protection for SMS-2U	1R1P 1 REC / 1 PLAY Channels 2R1P 2 REC / 1 PLAY Channels 2R2P 2 REC / 2 PLAY Channels 4R2P 4 REC / 2 PLAY Channels	3R2P 3 REC / 2 PLAY Channels 3R3P 3 REC / 3 PLAY Channels 12C 8 REC / 4 PLAY Channels with Dual-SMS operation mode 2 x (4 REC / 2 PLAY) Channels	4R2P 4 REC / 2 PLAY Channels 4R4P 4 REC / 4 PLAY Channels 6R2P 6 REC / 2 PLAY Channels 6R4P 6 REC / 4 PLAY Channels 8R4P 8 REC / 4 PLAY Channels
MADI	64 and 56 MADI (AES-10) input through BNC, with flexible internal channel assignment		
MVW	one MultiViewer		up to four independent MultiViewer



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