BLT VIDEO SERVER
SMS-2U • SMS-4U

VIDEO SERVER FOR STUDIO AND OUTSIDE BROADCAST LIVE EVENTS

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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 efficent 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, ready for upgrade to UltraHDTV (SMS-4U only)!

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)**
- **Ready to upgrade to UltraHDTV (SMS-4U only)**

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

- **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**
- **Rugged chassis suitable for OB VAN installation**

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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.

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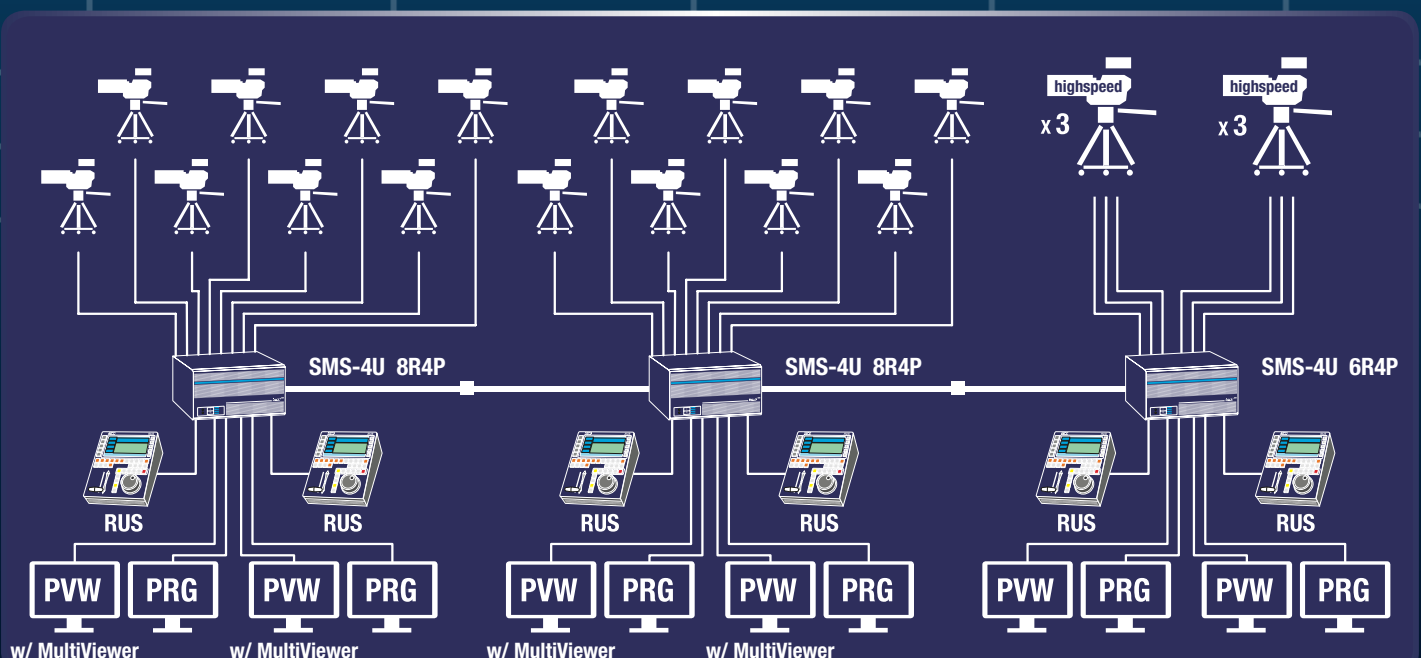
Recording sources can be isolated cameras (ISO-Cam) or High Speed Cameras to perform Super Slow Motion up to x8 or Ultra Motion.

SMS-4U comes in different scalable configurations ranging from 2R2P (2 inputs - 2 outputs) up to 8R4P (8 inputs - 4 outputs). 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 1080p/50 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	4 mono tracks (2 stereo) with internal flexible router 2 x 4 Analog 2 x 4 AES-EBU Embedded (SMPTE 272MA/299)	16 mono tracks (8 stereo) with internal flexible router 8 x 4 Analog 8 x 4 AES-EBU Embedded (SMPTE 272MA/299)
Outputs per video channel	4 mono tracks (2 stereo) 2 x 4 Analog 2 x 4 AES-EBU Embedded (SMPTE 272 MA / 299)	16 mono tracks (8 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	
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 40 hours (total) SDTV up tp 100 hours (total)	
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 600 (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
MVW	one MultiViewer	up to four independent MultiViewer

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