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 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 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 (new 2014 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
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 or Ultra Motion.

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.

The BLT SMS-4U is a 10 channel Video Server, with simultaneous recording while playback, featuring full HDTV capability and stereoscopic recording for S3DTV.

Recording sources can be isolated cameras (ISO-Cam) or High Speed Cameras to perform Super Slow Motion up to x3 or Ultra Motion.

SMS-4U comes in different scalable configurations ranging from 2R2P (2 inputs - 2 outputs) up to 6R4P (6 inputs - 4 outputs). The top version, 6R4P allows up to 6 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), SMS-4U is particularly suited for live sport and news applications in Studio or OB VAN.

**APPLICATION EXAMPLE**

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

**Inputs**
- up to 4 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)

**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:
  - 4 mono channels (2 stereo)
  - 2 x 4 Analog
  - 2 x 4 AES-EBU Embedded (SMPTE 272MA/299)

**Outputs**
- per video channel:
  - 4 mono channels (2 stereo)
  - 4 x 4 Analog
  - 4 x 4 AES-EBU Embedded (SMPTE 272MA/299)

**Connectors**
- Analog: female DB25, balanced 600 Ohm or Hi-z
- AES-EBU: BNC 75 Ohm

**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**
- Hard Disk included

**Hard Disk**
- Interface: SATA
- with RAID protection (option)
- Type: up to 4 x 2.5 inches, internal, removable

**Recording Time**
- HDTV up to 40 hours (total)
- SDTV up to 100 hours (total)

**High Speed Recording Camera compatibility**
- HDC-3300 (HDTV x 3), SK-HD1500 (HDTV x 3), LDK-8300 (HDTV x 3), LD-8200 (HDTV x 2), BVP-9500WS (SDTV x 3), LDK-23HS (SDTV x 3)

**POWER**
- Single PSU or Dual Redundant PSU as option

**Voltage**
- Consumption: 75 W approx
- 200–240 or 100 –117 Vac auto switch 50/60Hz
- 250 W approx

**MECHANICAL**
- Dimensions (HDD included): 430 (w) x 88 (h) x 500 (d) mm
- 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)

### OPTIONS

**HR**
- The HR option is the HDTV Ready version, with the same functionality limited to SDTV. Upgrade to full HDTV through on-board board swap replacement

**RAID SMS2U**
- 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
- 4R2P 4 REC / 2 PLAY Channels
- 4R3P 4 REC / 3 PLAY Channels
- 6R2P 6 REC / 2 PLAY Channels
- 6R3P 6 REC / 3 PLAY Channels
- 4R4P 4 REC / 4 PLAY Channels

**MVW**
- one MultiViewer
- up to four independent MultiViewer

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