MediaServer G Series

Multi-channel SD/HD video server with integrated channel branding

The MSV G combines SDI and IP stream play-out, routing and channel branding into an integrated application with industry standard APIs to seamlessly integrate into broadcast operations. The advanced channel branding graphics capability is powered by a real time rendering engine made up of audio mixer, video mixer, character generator, and accelerated graphics processing for play-out of complex scenes.

Channel branding made simple
- Supports 4 branding channels with advanced scheduling and live inputs
- Supports 16 audio channels
- Supports SMPTE 2020 metadata handling
- Supports SDI/IP playout
- Compatible with Oxtel graphic protocol

Easy to use for efficient workflows
- Customizable user interface
- Last-minute playlist changes by relative time code
- Populate real time data into the graphics template from databases or file base during playout

Integral component in tapeless broadcast
- Stream-through with the XOR Universal MediaLibrary or Universal MediaLibrary N Series
- Communicates with third-party applications such as customer-preferred automation and MAM, including XOR Media Controller, for both branding and playback, through IP or RS422 interface

Rich branding features
- Up to 8 play-to-air level real-time branding layers
- Supports dynamic data source from database, file base (XML, txt, etc.), and internet for rendering
- Branding template preview via Adobe Flash SWF graphics
- Supports updating template elements on the fly

No single point of failure
- RAID 6 protection against two-drive failure
- Redundant, hot-swappable power supplies and fans
- Flash SSD boot disk for high-speed booting and extra reliability

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【HD DECODER PACKAGE】

Video interfaces

- SMPTE 292M (switchable to 259M): 1 HD SDI or SDI output
- 75 Ohm BNC connectors
- Up to 4 HD channels (with Channel Upgrade Kit)

Video compression formats

- MPEG-2 @ HL 4:2:0, I-frame or Long GOP
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- XDCAM-HD (17.5, 25, 35 & 50Mb/s)
- DV 100 &HDV
- DNxHD (120, 145, 180, 185, 220Mb/s) (VC-3 SMPTE 2019) (Optional)
- AVC-Intra 100/50 (Optional)
  Switchable to SD

Video formats

- 1920 x 1080i (29.97Hz or 25Hz)
- 1280 x 720p (59.94Hz or 50Hz)
- 1440 x 1080i (60Hz or 50Hz, HDV and XDCAM-HD35 only)
  Switchable to SD

Media multiplex formats

- MXF OP1A : D10 compatible with XDCAM/e-VTR and XDCAM-HD
- MXF OP1A : single ES video and multiple MPEG /AES3/BWFaudio essences
- MXF OP1A : DV DIF or separate (DV25, DV50 & DV100)
- MXF OP1A : DNxHD (VC-3)

- MPEG-2 Program Stream or Transport Stream
- Raw DV
- MOV: Movie file and self-contained for MPEG-2, IMX, DV, XDCAM HD422, and AVC-Intra
- MXF OP-1b: Single MPEG-2 ES video and multiple MPEG/AES3/BWF audio essences
- MXF OP-ATOM: DV100, DNxHD, and AVC-Intra 100/50

Ancillary data

- 6 lines compressed VBI
- Uncompressed VBI (SMPTE 436M)
- Close caption (CEA-708)
- OP-42 &OP-47 teletext
- VITC (SMPTE 12M)
- AFD support (SMPTE 2016)

【SPECIFICATIONS】

Audio interfaces	• SMPTE 272M
Audio spec	• Up to 8 AES pairs per video channel (SMPTE 302M) • Up to 4 AES pairs with IMX/D10 • Up to 4 MPEG-1 Layer 2 audio • Data pass-through including Dolby E and AC-3 • 48 KHz audio sampling • 16, 20, or 24-bit audio quantization

IP streaming	• Supported formats
	  Http live streaming up to 2.4Mbp
	  H.264/MPEG4 over UDP up to 8Mbp
	• Density
	  Two channels

Media storage	• 0/8/16 x 1TB/2TB/4TB/8TB SATA HDD or 240GB/480GB/960GB/1.92TB/3.84TB SSD • RAID6-protected • All data drives are hot-swappable
Time code	• VITC & LTC via SDI input/output • Optional LTC input per input
Control	• VDCP by RJ45 port or Limited VDCP by Ethernet • Oxtel protocol for graphic • Support GPI control
Server characteristics	• Boot Service Disk: Flash SSD • 4 Rear USB ports • 15-pin VGA port • Dedicated IPMI port
Reference genlock	• Analog black burst

Network	• 2 Gigabit Network ports, RJ45 connectors • File transfer via FTP
Power supply	• Redundant, dual hot swappable 1200W power supplies • Range: 100-140VAC,180-240VAC, 50-60Hz
Dimensions (W x H x D)	• 17.2" x 5.2" x 25.5"
Environment requirements	• Operating temperature range: 10-35°C (50-95°F) • Non-Operating temperature range: -40-70°C (-40-158°F) • Operating Humidity Range: 8-90% non-condensing • Non-Operationg Humidity Range: 5-90% non-condensing
Software pack	• HD Branding pack
Channel	• Maximum four HD branding channels