The MediaServer C Series is high-density video server with an optional storage capacity of up to 128TB.

MediaServer C Series

Multi-channel SD/HD standalone video server

Key features and operational benefits

Cost-effective
- Flexible storage portfolios with built-in eight or sixteen HDD SATA of 1TB, 2TB, 4TB, 8TB, or SSD SATA of 240GB, 480GB, 960GB, 1.92TB, 3.84TB, or stream-through with XOR Universal MediaLibrary N Series
- With the base 4 in/out channels and easily expandable up to 8 in/out channels

Support of wide range of codec formats
- Support for multiple codec formats such as MPEG-2, DV, QuickTime, AMWA AS02 DNxHD and AVC-Intra
- Back-to-back playout of multi-formats and multiplexes
- Support for up/down conversion and closed captioning
- Channel configurable as SD only or SD/HD switchable
- A la carte channel configuration

Graphic capabilities
- Logo rendering

IP Streaming
additional license needed
- Format: TS H.264 HD 8Mbps, SD 2Mbps or HLS SD/HD 300Kbps to 2.4Mbps
- Density: Up to 8 TS channels and 8 HLS channels simultaneously

Support stream-through

Support of Low Proxy
additional license needed
- Http Live streaming

Support Preview
additional license needed
- Support of preview on external PC or locally

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

XOR MediaServer C (MSV C), the latest series of modular codec servers from XOR Media, is designed for broadcast-quality SD and HD video ingests and playback. It offers multi-resolution and multi-format operations, and ease of channel expansion, making it ideal for TV broadcast, content production, live entertainment, and sports applications.

The MSV C Series provides cost-effective software codec configuration for SD and HD interoperability, and flexible storage combinations with either built-in storage or connecting to XOR Universal MediaLibrary N Series for massive storage capacity. Starting with the base 4 input/output channels, the scalable MSV C Series can easily expand to higher channel density of totaling 8 input/output channels.

The MSV C Series supports a wide range of codec formats. All formats can be played back-to-back with up/down and cross conversion and closed captioning when needed. Furthermore, MSV C is also capable of graphic rendering, making channel delivery more convenient.

The MSV C Series integrates seamlessly into the XOR production workflow, enabling a vast range of video formats to be ingested directly into the storage system. It eliminates the need for a time-consuming intermediary ingest cache. Additionally, a true edit-in-place workflow is established, and users can enjoy direct access to all content in the system at any time. The XOR production workflow empowers

broadcasters to stream content directly through the MSV C, should their standard deployment require additional capacity, or if the broadcaster requires a content repository behind their edge servers.

Input/output signals are SMPTE 259M or SMPTE 292M-compliant and support up to 8 embedded AES pairs and various modes for VBI and ANC support. Vertical Interval Time Code is supported on each SDI input and output. Linear Time Code is also supported.

The MSV C series can be provisioned with 8 or 16 HDD/SSD disks storage. Disks are RAID6-protected to ensure uninterrupted operations even in the unlikely event of two-drive failure. All disks are hot-swappable, making field replacements a snap. It can also work with high-performance XOR Universal MediaLibrary N Series using a 10GigE IP backbone; and by standard networking protocols such as CIFS, FTP, NFS, and HTTP.

The MSV C Series is equipped with redundant power supplies and a flash SSD boot disk for high speed booting and extra reliability. Power supplies are also hot-swappable for quick field replacement.

MediaServer C Series Product Specification

Common Specifications

Audio Interface
- Up to 8 embedded AES pairs per SDI I/O per video channel
- SMPTE 272M

Audio Specifications
- 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

Media Storage
- Use UML-N as storage
- With local storage
  - With 8 x 1TB/2TB/4TB/8TB HDD
  - With 16 x 1TB/2TB/4TB/8TB HDD
  - With 8 x 240GB/480GB/960GB/1.92TB/3.84TB SSD
  - With 16 x 240GB/480GB/960GB/1.92TB/3.84TB SSD

Timecode
- VITC & LTC via SDI input/output
- Optional LTC input per input

Control
- VDCP by RJ45 port or Limited VDCP by Ethernet
- XOR MediaClient API by Ethernet

Network
- 2 Gigabit Network ports, RJ45 connectors
- FTP for file transfer

Server Characteristics
- Boot Service Disk: SSD, 128GB or above
- 4 rear USB ports
- 15-pin VGA port
- Dedicated IPMI port

Power Supply
- Redundant, dual hot swappable 1000W power supplies
- Range: 100-127VAC, 100-240VAC, 50-60Hz

Dimensions
- 5.2" H x 17.2" W x 25.5" D

Physical Requirements
- Operating Temperature Range: 10 - 35°C (50° - 95°F)
- Non-Operating Temperature Range: -40 - 70°C (-40° - 158°F)
- Operating Relative Humidity Range: 8 - 90% non-condensing
- Non Operating Relative Humidity Range: 5 -95% non-condensing

Pack Description

SD Encoder Pack (SD10)
SD Decoder Pack (SD01)
HD Encoder Pack (HD10)
HD Decoder Pack (HD01)

Simulcast Decoder Pack (SP01)

Channels

1 SD record channel
1 SD playback channel
1 HD record channel (switchable to SD)
1 HD playback channel
(with up conversion, down conversion, switchable to SD also)
1 Simulcast playback channel with both SD and HD output channel

	SD Encoder Pack	SD Decoder Pack	HD Encoder Pack	HD Decoder Pack
Video Interface	- SMPTE 259M : 1 SD-SDI input - Up to 8 SD channels (with Channel Upgrade Kit)	- SMPTE 259M : 1 SD-SDI output - Up to 8 SD channels (with Channel Upgrade Kit)	- SMPTE 292M (switchable 259M) : 1 HD SDI input - SMPTE 425M : 1 HD SDI Input - Up to 8 HD channels (with Channel Upgrade Kit)	- SMPTE 292M (switchable 259M) : 1 HD SDI output - SMPTE 425M : 1 HD SDI output - Up to 8 HD channels (with Channel Upgrade Kit)
Video Compression Formats	- DV, DVCAM, DV25, DV50 - IMX 30, 40, 50 - MPEG-2 @ ML 4:2:0, I-Frame & Long GOP - MPEG-2 @ ML 4:2:2, I-Frame & Long GOP		- MPEG-2 @ HL 4:2:0, I-frame or Long GOP - MPEG-2 @ HL 4:2:2, I-frame or Long GOP - XDCAM-HD (17.5, 25, 35 & 50Mb/s) - DV 100 &HDV - DNxHD (120, 145, 180, 185, 220Mb/s) (VC-3 SMPTE 2019) (Option) - AVC-Intra 100 (Option) *SD specs are also supported. Please refer to SD pack section.*	
Video Formats	- 720 x 480i @ 29.97Hz - 720 x 576i @ 25Hz - 720 x 576i @ 29.97Hz		- 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) *SD specs are also supported. Please refer to SD pack section.*	
Media Multiplex Format	- MXF OP1A : D10 compatible with XDCAM/e-VTR - MXF OP1A : single ES video and multiple MPEG / AES3 / BWF audio essences - MXF OP1A : DV DIF or Separate (DV25, DV50) - MPEG-2 Program Stream or Transport Stream - Raw DV - MOV : Movie file and self-contained for MPEG-2, IMX, and DV		- MXF OP1A : D10 compatible with XDCAM/e-VTR, XDCAM-HD - MXF OP1A : single ES video and multiple MPEG/AES3/BWF audio 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	
Ancillary Data	- 6 lines compressed VBI - Uncompressed VBI (SMPTE 436M) - Close caption (CEA-608) - OP-42 teletext - VITC (SMPTE 12M) - AFD support (SMPTE 2016)		- 6 lines compressed VBI - Uncompressed VBI (SMPTE 436M) - Close caption (CEA-708) - OP-42 &OP-47 teletext - VITC (SMPTE 12M) - AFD support (SMPTE 2016)	