

# SeaChange® MediaServer 1200XD

## Multi-channel SD/HD Flash SSD Video Server

The SeaChange MediaServer 1200XD is a broadcast-quality video server equipped with flash memory-based drives. It is the latest SeaChange evolution of the popular range of video servers.

The SeaChange MediaServer 1200XD (MSV 1200XD) offers multi-resolution and multi-format operations, making it ideal for channel expansion, TV broadcast, content production, live entertainment, and sports applications. It has a flexible and cost-effective software codec configuration for SD, HD, MXF and QuickTime interoperability. With the MSV 1200XD, broadcasters can choose both their preferred broadcast automation system and their edit controller, including the new MediaController Tool by SeaChange. The scalable MSV 1200XD starts with 2 inputs and 4 outputs, and can expand easily to 4 inputs and 8 outputs to facilitate higher channel density.

Equipped with flash SSD, the MSV 1200XD features up to 26% lower power consumption and up to 30 times lower failure rate in a standalone unit. It eliminates moving parts, thus increasing on-air reliability. Flash memory lowers operational costs and supports a longer drive operating life compared to hard disk-based video servers.

At only 3RU, the MSV 1200XD holds 2.4TB (8 x 300GB SSDs) or 4.8TB (16 x 300GB SSDs) of data. Drives are RAID 6-protected to ensure uninterrupted operations even in the unlikely event of a two-drive failure.

The MSV 1200XD is a key building block of the SeaChange Media Architecture, enabling a complete tapeless workflow with high-speed file transfer and ultra-reliable edge playout. The first affordable flash video server in the market, the MSV 1200XD supports standard definition as well as 1080i and 720p high definition. It can easily be configured as SD, HD, or a hybrid SD and HD supporting dozens of formats such as AVC-Intra 100, XDCAM HD422, or DNxHD.

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, as is Linear Time Code input.

The MSV 1200XD 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.

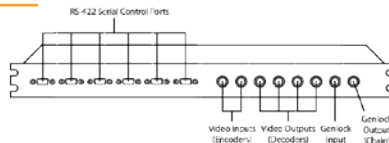


### Key Features

- Flash-based built-in storage
- 64-bit codec
- Best channel density in HD in a single server
- QuickTime, P2, MXF OP Atom/AS02
- A la carte channel configuration for each I/O port
- Frame-accurate back-to-back playback of any clip format using the same output decoder
- Stream-through with the Universal MediaLibrary Grid storage

### Operational Benefits

- 30x lower failure rate than hard disk-based servers
- 26% lower power consumption
- Appropriate compression formats for different types of material: XDCAM HD422 for long duration programs and AVC-Intra or DNxHD for promos or advertisements; back-to-back playback support for these formats from the same decoder for simple operation; no transcoding required
- Improved tapeless integration with support for encoding and decoding of content from popular NLEs
- Backward compatibility with BMC or MCL 4000/6000 series-encoded files



Pack Description	Channels
SD Encoder pack (SD10)	1 SD record channel
SD Decoder pack (SD01)	1 SD playback channel
HD Encoder pack (HD10)	1 HD record channel (switchable to SD)
HD Decoder pack (HD01)	1 HD playback channel (with up conversion, switchable to SD)

Common Specifications
<b>Audio Interface</b> Up to 8 AES embedded per SDI I/O per video channel SMPTE 272M
<b>Audio Specifications</b> <ul style="list-style-type: none"> <li>Up to 8 AES pairs per video channel (SMPTE 302M)</li> <li>Up to 4 AES pairs with IMX/D10</li> <li>Up to 4 MPEG-1 Layer 2 audio</li> <li>Data pass-through including Dolby E and AC-3</li> <li>48 KHz audio sampling</li> <li>16, 20 or 24-bit audio quantization</li> </ul>
<b>Media Storage</b> 8 or 16 x 300GB flash SSD RAID 6-protected All data drives are hot-swappable
<b>Timecode</b> VITC & LTC via SDI input/output Optional LTC input per input
<b>Reference Genlock</b> Analog black burst, BNC loop-thru connectors
<b>Control</b> <ul style="list-style-type: none"> <li>VDCP by RS422 serial port (9-pin) or Limited VDCP by Ethernet</li> <li>SeaChange MediaClient API by Ethernet</li> </ul>
<b>Network</b> <ul style="list-style-type: none"> <li>2 Gigabit Network ports, RJ45 connectors</li> <li>FTP for file transfer</li> </ul>
<b>Server Characteristics</b> Boot Service Disk : 64GB Flash SSD PS2 mouse and keyboard ports 15-pin VGA port
<b>Power</b> Redundant, dual hot swappable 800W power supplies Range : 100-240VAC, 50-60Hz
<b>Dimensions</b> Height: 5.2" (132mm, 3RU) Width: 17.2" (437mm) Depth: 25.5" (648mm)
<b>Environmental Conditions</b> Operating Temperature Range: 10 - 35°C (50° - 95°F) Non-Operating Temperature Range: -40 - 70°C (-40° - 158°F) Humidity Range: 8 - 90% non-condensing

	SD Encoder Pack	SD Decoder Pack	HD Encoder Pack	HD Decoder Pack
<b>Video Interface</b>	<ul style="list-style-type: none"> <li>SMPTE 259M : 1 SD-SDI input</li> <li>75 Ohm BNC connectors</li> <li>Up to 4 SD channels (with Channel Expansion kit)</li> </ul>	<ul style="list-style-type: none"> <li>SMPTE 259M : 1 SD-SDI output</li> <li>75 Ohm BNC connectors</li> <li>Up to 8 SD channels (with Channel Expansion kit)</li> </ul>	<ul style="list-style-type: none"> <li>SMPTE 259M : 1 HD-SDI or SDI input</li> <li>75 Ohm BNC connectors</li> <li>Up to 2 HD channels</li> </ul>	<ul style="list-style-type: none"> <li>SMPTE 292M (switchable 259M) : 1 HD-SDI or SDI output</li> <li>75 Ohm BNC connectors</li> <li>Up to 4 HD channels</li> </ul>
<b>Video Compression Formats</b>	<ul style="list-style-type: none"> <li>DV, DVCAM, DV25, DV50</li> <li>IMX 30, 40, 50</li> <li>MPEG-2 @ ML 4:2:0, I-Frame &amp; Long GOP</li> <li>MPEG-2 @ ML 4:2:2, I-Frame &amp; Long GOP</li> </ul>		HD <ul style="list-style-type: none"> <li>MPEG-2 @ HL 4:2:0, I-frame or Long GOP</li> <li>MPEG-2 @ HL 4:2:2, I-frame or Long GOP</li> <li>XDCAM-HD (17.5, 25, 35 &amp; 50Mb/s)</li> <li>DV 100</li> <li>DNxHD (120, 145, 180, 185, 220Mb/s) (VC-3 SMPTE 2019) (Option)</li> <li>AVC-Intra 100 (Option)</li> </ul> SD <ul style="list-style-type: none"> <li>DV, DVCAM, DV25, DV50</li> <li>IMX 30, 40, 50</li> <li>MPEG-2 @ ML 4:2:0, I-Frame &amp; Long GOP</li> <li>MPEG-2 @ ML 4:2:2, I-Frame &amp; Long GOP</li> </ul>	
<b>Video Formats</b>	720 x 480i @ 29.97Hz 720 x 576i @ 25Hz 720 x 576i @ 29.97Hz		HD <ul style="list-style-type: none"> <li>1920 x 1080i (29.97Hz or 25Hz)</li> <li>1280 x 720p (59.94Hz or 50Hz)</li> <li>1440 x 1080i (60Hz or 50Hz, HDV and XDCAM-HD35 only)</li> </ul> SD <ul style="list-style-type: none"> <li>720 x 480i @ 29.97Hz</li> <li>720 x 576i @ 25Hz</li> <li>720 x 576i @ 29.97Hz</li> </ul>	
<b>Media Multiplex Format</b>	<ul style="list-style-type: none"> <li>MXF OP1A : D10 compatible with XDCAM/e-VTR</li> <li>MXF OP1A : single ES video and multiple MPEG / AES3 / BWF audio essences</li> <li>MXF OP1A : DV DIF or Separate (DV25, DV50)</li> <li>MPEG-2 Program Stream or Transport Stream</li> <li>Raw DV</li> <li>MOV : Movie file and self-contained for MPEG-2, IMX, and DV</li> </ul>		<ul style="list-style-type: none"> <li>MXF OP1A : D10 compatible with XDCAM/e-VTR, XDCAM-HD</li> <li>MXF OP1A : single ES video and multiple MPEG / AES3 / BWF audio essences</li> <li>MXF OP1A : DV DIF or Separate (DV25, DV50 &amp; DV100)</li> <li>MXF OP1A : DNxHD (VC-3)</li> <li>MPEG-2 Program Stream or Transport Stream</li> <li>Raw DV</li> <li>MOV : Movie file and self-contained for MPEG-2, IMX, DV, XDCAM HD422, and AVC Intra</li> </ul>	
<b>Ancillary Data</b>	<ul style="list-style-type: none"> <li>6 lines compressed VBI</li> <li>Uncompressed VBI (SMPTE 436M)</li> <li>Close caption (CEA-608)</li> <li>OP-42 teletext</li> <li>VITC (SMPTE 12M)</li> <li>AFD support (SMPTE 2016)</li> </ul>		<ul style="list-style-type: none"> <li>6 lines compressed VBI</li> <li>Uncompressed VBI (SMPTE 436M)</li> <li>Close caption (CEA-608)</li> <li>OP-47 teletext</li> <li>VITC (SMPTE 12M)</li> <li>AFD support (SMPTE 2016)</li> </ul>	

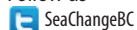
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