

SeaChange® MediaClient 8200

New-generation Transmission Codec Server

The SeaChange MediaClient 8200 is the latest in the series of broadcast-quality modular codecs that offer multi-resolution and multi-format operations, with the best channel density in the market.

The MediaClient 8200 (MCL 8200) has a new software codec configuration for SD only and HD and SD, along with open standard MXF interoperability — making it flexible and future-proof. With the MCL 8200, broadcasters can choose their preferred automation system or media asset manager, including the SeaChange MediaController tool. The MCL 8200 facilitates high channel density of up to 12 SD channels or 11 HD channels.

The MCL 8200 integrates seamlessly with the SeaChange Media Architecture based on open standards such as AVC Intra, MXF, and MOV; with the high-performance Universal MediaLibrary storage using a 10GigE IP backbone; and with standard networking protocols such as CIFS, FTP, NFS, and HTTP.

The MCL 8200 supports standard definition as well as 1080i and 720p high definition. It can easily be configured as SD only or HD/SD switchable supporting all the standard broadcast formats. 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. Vertical Interval Time Code is supported on each SDI input and output. Linear Time Code input is also supported.

The MCL 8200 features multi-path support, allowing automatic streaming of a clip from a secondary/backup storage, should the primary storage become available. It is equipped with redundant hot-swappable power supplies and a flash SSD boot disk for high-speed booting and extra reliability.

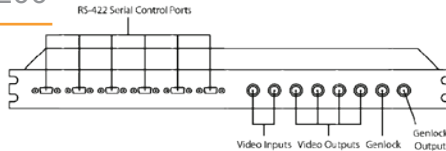


Key Features

- 64-bit codec
- Best channel density in HD
- New formats supported such as AVC-Intra, QuickTime MOV, and MXF OP Atom
- 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
- Multi-path support
- Direct streaming with the Universal MediaLibrary Grid storage

Operational Benefits

- 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
- Efficient use of rack space



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)
Simulcast Pack (SP01)	Single Simulcast HD and SD decoders

Common Specifications
Audio Specifications <ul style="list-style-type: none"> 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 Compatible with Universal MediaLibrary
Timecode VITC & LTC via SDI input/output Optional LTC input per input
Reference Genlock Analog black burst, BNC loop-thru connectors
Control <ul style="list-style-type: none"> VDCP by RS422 serial port (9-pin) or limited VDCP by Ethernet SeaChange MediaClient API by Ethernet
Network <ul style="list-style-type: none"> 2 Gigabit Network ports, RJ45 connectors FTP for file transfer
Server Characteristics Boot Service Disk : 64GB Flash SSD PS2 mouse and keyboard ports 15-pin VGA port
Power Redundant, dual hot swappable 800W power supplies Range : 100-240VAC, 50-60Hz
Dimensions Height: 5.2" (132mm, 3RU) Width: 17.2" (437mm) Depth: 25.5" (648mm)
Environmental Conditions 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 Non-Operating Humidity Range: 5 - 95% non-condensing

	SD Encoder Pack	SD Decoder Pack	HD Encoder Pack	HD Decoder Pack
Video Interface	<ul style="list-style-type: none"> SMPTE 259M : 1 SD-SDI input 75 Ohm BNC connectors Up to 4 SD channels (with Channel Expansion kit) 	<ul style="list-style-type: none"> SMPTE 259M : 1 SD-SDI output 75 Ohm BNC connectors Up to 8 SD channels (with Channel Expansion kit) 	<ul style="list-style-type: none"> SMPTE 292M (switchable 259M): 1 HD-SDI or SDI input 75 Ohm BNC connectors Up to 2 HD channels 	<ul style="list-style-type: none"> SMPTE 292M (switchable 259M) :1 HD-SDI or SDI output 75 Ohm BNC connectors Up to 4 HD channels
Video Compression Formats	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	HD <ul style="list-style-type: none"> 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 DNxHD (120, 145, 180, 185, 220Mb/s) (VC-3 SMPTE 2019) (Option) AVC-Intra 100 (Option) SD <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> MPEG-2 @ ML 4:2:0, I-Frame & Long GOP MPEG-2 @ ML 4:2:2, I-Frame & Long GOP
Video Formats	720 x 480i @ 29.97Hz 720 x 576i @ 25Hz 720 x 576i @ 29.97Hz	720 x 480i @ 29.97Hz 720 x 576i @ 25Hz 720 x 576i @ 29.97Hz	HD 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 720 x 480i @ 29.97Hz 720 x 576i @ 25Hz 720 x 576i @ 29.97Hz
Media Multiplex Format	<ul style="list-style-type: none"> 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 AS02* (MPEG-2 only) 	<ul style="list-style-type: none"> 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 AS02* (MPEG-2 only) 	<ul style="list-style-type: none"> 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 AS02* (MPEG-2 only) 	<ul style="list-style-type: none"> 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 AS02* (MPEG-2 only)
Ancillary Data	<ul style="list-style-type: none"> 6 lines compressed VBI Uncompressed VBI (SMPTE 436M) Close caption (CEA-608) OP-42 teletext VITC (SMPTE 12M) AFD support (SMPTE 2016) 	<ul style="list-style-type: none"> 6 lines compressed VBI Uncompressed VBI (SMPTE 436M) Close caption (CEA-608 & 708) OP-42 & OP-47 teletext VITC (SMPTE 12M & RP188) AFD support (SMPTE 2016) 	<ul style="list-style-type: none"> 6 lines compressed VBI Uncompressed VBI (SMPTE 436M) Close caption (CEA-608 & 708) OP-42 & OP-47 teletext VITC (SMPTE 12M & RP188) AFD support (SMPTE 2016) 	<ul style="list-style-type: none"> 6 lines compressed VBI Uncompressed VBI (SMPTE 436M) Close caption (CEA-608 & 708) OP-42 & OP-47 teletext VITC (SMPTE 12M & RP188) AFD support (SMPTE 2016)

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