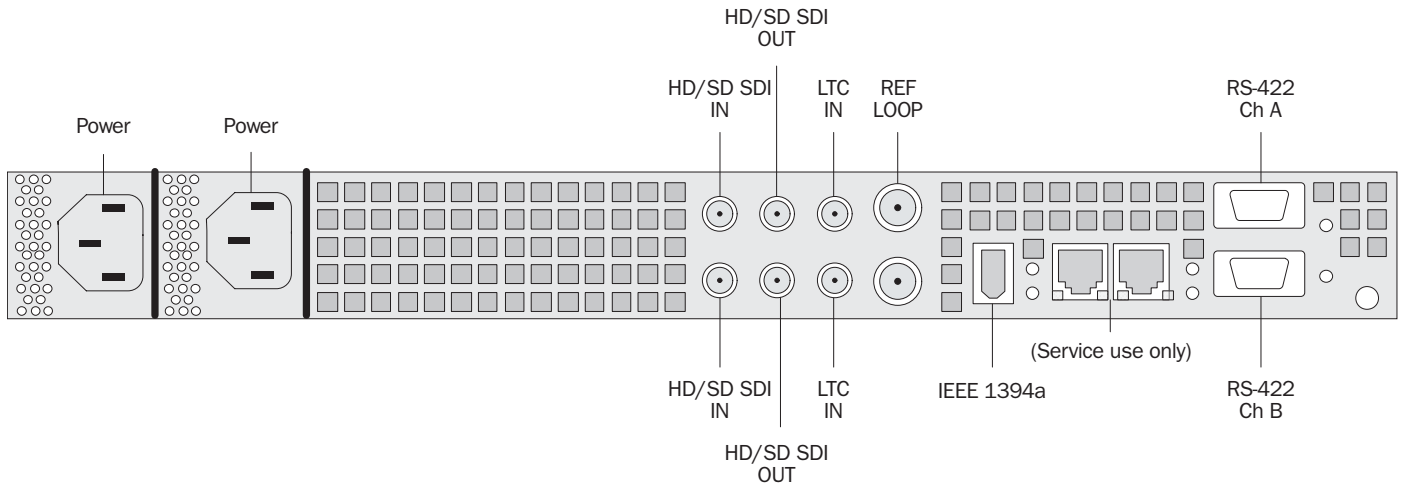


6300 Series HD/SD DV MediaPort MIP-6321



MIP-6321 rear panel

The Omneon 6300 series HD/SD DV MediaPort provides record and play of HD and SD video and digital audio, using the proven DV method for compressing it for storage on the Omneon Spectrum Video Server. The product is supplied in its own enclosure and connects to the server by external cabling.

The MediaPort 6321 offers the features described below.

- Two channels of HD or SD SDI video record or playback compliant with SMPTE 292M or SMPTE 259M respectively.
- 8 channels of embedded audio per video channel.
- Spectrum MediaPorts are “hot swappable” and can be installed or replaced without disrupting other operations on the server
- Video data compressed using DVCPRO-HD method at 100 Mb/s (SMPTE 370M), DVCPRO 50 method at 50 Mb/s, or DV/DVCPRO method at 25 Mb/s (SMPTE 314M). Audio synchronized (“locked”) to video in accordance with specification.
- Playback of material fully compliant with DV specifications. Audio data is stored separately
- HD frame geometry of 1920x1080i @ 25 and 29.97 Hz, and 1280x720p @ 50 and 59.94 Hz.
- SD frame geometry of 720x480i @ 29.97 Hz, and 720x576i @ 25 Hz.
- HD horizontal sample rate of 1280 at 1080i @ 50, or 1440 at 1080i @59.94 and 960 at 720p (either frame rate), in accordance with DVCPRO-HD specification. SD horizontal sample rate equal to horizontal line length in pixels.
- 4:2:2, 4:2:0, or 4:2:1 chroma sampling as appropriate for the operating point selected.
- QuickTime reference, MXF OP-1a, and MXF OP-1b media wrappers.
- Supports SDI embedded audio compliant with SMPTE 272M or SMPTE 299M, as appropriate.
- Supports pass-through (data mode) of pre-compressed audio such as AC-3 and Dolby™ E

Audio is supplied to the MediaPort by SDI embedded audio (8 audio channels per video channel). SDI embedded audio support in accordance with SMPTE 299M/272M is a standard feature of the 6300 series, eliminating the need for external embedders and de-embedders.

■ PRODUCT SPECIFICATION

6300 Series HD/SD DV MediaPort Specifications

Parameter	Specification	Detail
Video I/O	HD: SMPTE 292M SD: SMPTE 259M	75 Ohm BNC (Two bidirectional channels with 1 HD/SD-SDI input and 1 HD/SD-SDI output per channel)
Audio I/O	HD: SMPTE 299M SD: SMPTE 272M Pre-compressed Audio	8 channels, 24 bits per sample at 48 KHz, embedded in SDI Pass-through (data mode) of AC-3 and Dolby E
HD Video compression	SMPTE 370M	DVCPRO HD at 100 Mb/s (4:2:2 chroma)
SD Video compression	SMPTE 314M	DV at 25 Mb/s 4:1:1 chroma for 29.97 Hz systems 4:2:0 chroma for 25 Hz systems DVCPRO at 25 Mb/s (4:2:2 chroma) DVCPRO 50 at 50 Mb/s (4:2:2 chroma)
HD Video sampling and format	SMPTE 370M	1440 x 1080i @ 29.97 fps 1280 x 1080i @ 25 fps 960 x 720p @ 50 and 59.94 fps
SD Video sampling and format	SMPTE 314M	720 x 480i @ 29.97 fps 720 x 576i @ 25 fps
Audio storage format	Uncompressed PCM, 24 or 16-bit, 48 KHz	Audio essence is PCM in WAV or AIFF (not DV-interleaved with video)
Control	VDCP Omneon Player API	RS-422 interface; DB-9 connector per video channel Control of 6300 series via software; access via Ethernet to server
Server interface	IEEE 1394a	Interface via external cable to MediaDirector
HD Ancillary data	Stored in accordance with SMPTE 375M SMPTE 334 and EIA-708	Timecode, Dolby metadata, Japanese subtitle, user-defined HD-SDI closed caption
SD Ancillary data	SMPTE 314M Omneon proprietary	Closed-caption extracted and stored in DV essence Waveform VBI lines preserved as specified
Timecode	SMPTE RP188 LTC (record only)	In baseband ancillary data (VITC) Input BNC connector per video channel
Reference timing signal	Analog composite video with color burst, black	Supplied via REF LOOP connector; reference timing must be identical for MediaPort and its host MediaDirector.
Environmental	Operating Temperature Humidity	+10C to +35C 10% to 80% non-condensing
Safety	EN 60950-1-2001 +A11 CB - Scheme	TUV/CB
EMC	FCC Part 15 CE (89/336/EEC)	Class A for Digital Equipment, USA EN55022:2006, EN55024:1998+A1+A2
Dimensions	W: 44.4 cm (17.5 inches) H: 4.4 cm (1.75 inches) D: 64.8 cm (25.5 inches)	Chassis only, inside rack 1 RU Chassis front to chassis rear
Weight	7.7 kg (17.0 lb)	



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