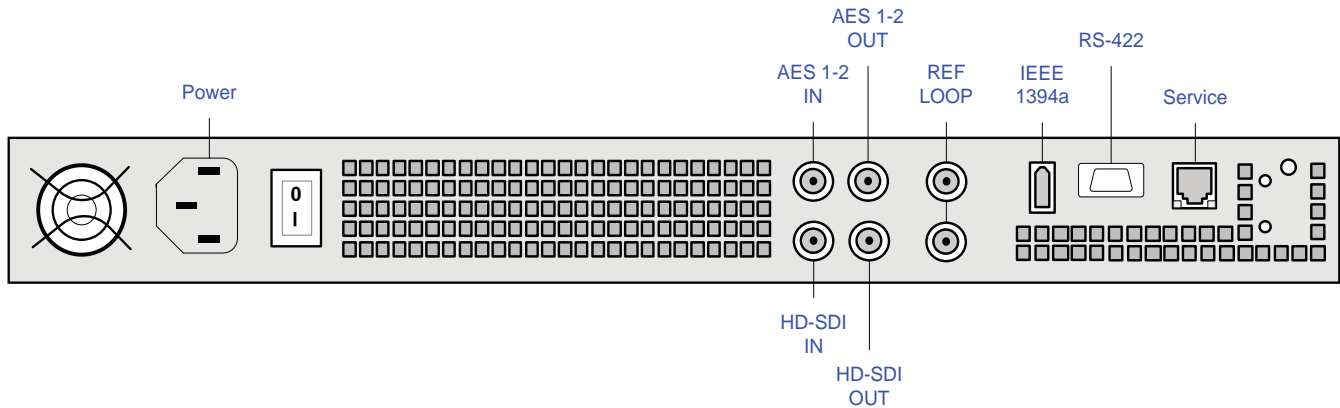OMNEON®

Active Storage for Digital Content™

6100 Series DVCPRO HD MediaPort MIP-6101

MIP-6101 rear panel

The Omneon 6100 series DVCPRO HD MediaPort provides record and play of HD video and digital audio, compressing it for storage on the Omneon Spectrum Video Server, using the DVCPRO HD compression format. The MIP-6101 is supplied in its own enclosure and connects to the server by external cabling.

The MediaPort 6100 offers the features described below:

· One channel of HD-SDI video record or playback compliant with SMPTE 292M.

· 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). Audio synchronized ("locked") to video in accordance with specification.

· Playback of material fully compliant with DVCPRO-HD specification. Audio data is stored separately.

· Frame geometry of 1280x720p @ 50 and 59.94 Hz, and 1920x1080i @ 25 and 29.97 Hz.

· Horizontal sample rate of 960 at 720p in accordance with SMPTE 370M; decode/playback interpolates back to 1280 in accordance with standard.

· 4:2:2 chroma sampling.

· QuickTime reference wrapper format.

· Supports SDI embedded audio compliant with SMPTE 272M.

Audio is supplied to the MediaPort by SDI embedded audio (8 audio channels per video channel). SDI embedded audio support in accordance with SMPTE 272M is a standard feature of the 6100 series, eliminating the need for external embedders and de-embedders.

6100 Series DVCPRO HD MediaPort Specifications

Parameter	Specification	Detail
Video	SMPTE 292M	75 Ohm BNC (Single channel with 1 HD SDI input and 1 HD SDI output)
Audio	SMPTE 272M AES/EBU Stereo Pair	8 channels, 24 bits per sample at 48kHz, embedded in HD SDI 2 channels on dedicated 75 ohm BNC connector
Compressiion	SMPTE 370M (DVCProHD)	Video: DVCPRO HD at 100 Mb/s, Chroma: 4:2:2 fixed Audio: Uncompressed PCM, 24-bit, 48 KHz Audio essence is stored in separate tracks (not interleaved with video)
Video sampling and format	SMPTE 370M	720p @ 50 and 59.94 frames per second 1080i @ 25 and 29.97 frames per second
Control	VDCP Omneon Player API	RS-422 interface; DB-9 connector Control of 6100 series via software; access via Ethernet to MediaDirector
Server interface	IEEE 1394a	Interface via external cable to MediaDirector
Closed captioning	SMPTE 334 and EIA-708	HD SDI closed caption
Timecode	SMPTE RP188	Interleaved in video essence
Ancillary data	SMPTE 291M SMPTE 375M	HD SDI ancillary data Ancillary data storage in DVCPRO 100 essence All vertical ancillary (VANC) data (up to 5760 bytes per 1080i frame, or 2880 bytes per 720p frame) present on input are stored when recording. Recorded VANC data is regenerated as ancillary data on HD SDI output during playback.
Reference timing signal	Analog composite video with color burst, black	Supplied via REF LOOP connector; common black reference must be supplied to both MediaPort and 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 EN 55022:2006 and EN 55024:1998+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)	
Power	100-240 VAC, 3.6-1.5A, 50/60Hz, 235W typical	Single power supply with IEC 60320 C-14 socket
Cooling	800 BTU/hour typical	