

## AES/Analog Audio Embedder / De-embedder (balanced AES/ Analog)

LYNX | Centraal™

yelloGUI✓

- Simultaneous embedding and de-embedding
- Ideal as bidirectional master
- 3G-SDI Level A and Level B support
- SDI video formats up to 12G-SDI (2160p60)
- 4 x AES/Analog inputs / outputs with selectable audio groups
- Optional Fiber I/O
- Integrated 1 kHz test tone generator
- Automatic PCM / encoded audio detection
- Auto black if no video present
- Selectable SDTV 24 bit mode
- Video and Audio present LED indicators
- LynxCentraal & yelloGUI compatible for additional internal setting



The PDM 1484 D is a versatile AES audio embedder and de-embedder designed for a wide range of SDI video formats up to 12G. It supports balanced AES and analog audio I/O using a 25 pin SubD connector. The 25 pin SubD breakout board RBO A025 is included.

Audio groups are selected using the rotary switches or control software. It is possible to embed and de-embed additional audio groups by cascading modules together. Simultaneous embedding and de-embedding means the module will de-embed and output the audio from the selected audio group before overwriting with new audio (if required). The module automatically detects audio formats and will deactivate the sample rate converters to preserve encoded bit streams such as Dolby.E. A 1 kHz test tone generator is included for audio testing purposes.

Analog audio processing for embedding can be set to balanced and unbalanced input modes. Balanced I/O can be 24, 22, 20, 18, 15, 12 dBu, professional line level or user defineable fullscale level.

The "auto black" mode uses a black video frame if no SDI input is present. This allows the module to embed audio even when no video source is available. This mode is useful if the module is being used in an "audio only" application.

The module is also compatible with the LynxCentraal and yelloGUI control software, which provides access to a host of additional internal settings.

### Fiber I/O Options:

SDI Fiber Transmitter Options			
Model	Description	Power	
OH-TX-12G-LC	12G SFP Fiber TX - Singlemode - LC conn. - 10km	-5 ... +0.5dBm	
OH-TX-12G-ST	12G SFP Fiber TX - Singlemode - ST conn. - 10km	-5 ... +2dBm	
OH-TX-12G-XXXX-LC	12G CWDM SFP Fiber TX - SM - LC conn. -10km	-2 ... +3dBm	
SDI Fiber Receiver Options			
Model	Description	Sensitivity	
OH-RX-12G-LC	12G SFP Fiber RX - Singlemode - LC Connector	-10dBm (12G) -14dBm (6G/3G) -16dBm (1.5G)	
OH-RX-12G-ST	12G SFP Fiber RX - Singlemode - ST Connector	-10dBm (12G/6G) -14dBm (3G/1.5G)	
SDI Fiber Transceiver Options			
Model	Description	Power	Sense
OH-TR-12G-LC	SFP Fiber RX/TX - Singlemode - LC Conn. - 10km	-5 ... 0.5 dBm	-10dBm (13G/6G) -14dBm (3G/1.5G)
OH-TR-12G-XXXX-LC	12G CWDM SFP Fiber RX/TX - SM - LC Conn. - 10km	-2 ... +3 dBm	-10dBm (13G/6G) -14dBm (3G/1.5G)

XXXX=Wavelength. 18 according to ITU T G692.2 1270nm through 1610nm

Shown with optional fiber SFP installed

### Technical Specifications

<b>SDI I/O</b>	1 x SDI video input on BNC connector ( 75 Ohm )
	1 x SDI video output on BNC connector ( 75 Ohm )
	SMPTE 259M, SMPTE 292M, SMPTE 424M, SMPTE 2081-1, SMPTE 2082-1
	Multi-standard operation from 270Mbit/s to 12Gbit/s
	SDTV (525/625)
	720p (23.98/24/25/29.97/30/50/59.94/60 Hz)
	1080psf (23.98/24/25/29.97/30 Hz)
	1080i (50/59.94/60 Hz)
	1080p (23.98/24/25/29.97/30/50/59.94/60 Hz)
	2160p (23.98/24/25/29.97/30/50/59.94/60 Hz)
	Electrical Return Loss: to 1.5GHz >15dB to 3GHz >10dB to 6GHz >7dB to 12GHz >4dB
	270Mbit/s 1.5Gbit/s 3Gbit/s 6Gbit/s 12Gbit/s
Automatic cable EQ	340m 200m 150m 100m 100m
	Belden 1694A Belden 4794R
<b>Fiber I/O</b>	(optional) 1 x fiber optic input and output ( see table )
	SMPTE 297M - 2006
<b>AES I/O</b>	4 x AES3 balanced inputs on 25 pin SubD Connector (110 Ohm)
	4 x AES3 balanced outputs on 25 pin SubD Connector (110 Ohm)
	AES group selection provided via rotary switch
<b>Analog Audio I/O</b>	4 x Analog audio input on 25 pin SubD Connector (10k Ohm)
	4 x Analog audio output on 25 pin SubD Connector (150 Ohm)
	Balanced I/O mode for 24, 22, 20, 18, 15, 12 dBu, professional line level and user defineable full scale level (selectable)
<b>Power</b>	+12VDC @ 12.96W nominal - ( supports 8 - 14VDC input range )
<b>Physical</b>	Size (incl. connectors): 126mm x 90mm x 22mm (4.96" x 3.54" x 0.86") Weight (excl. SFP): 200g (7.05oz)
<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
<b>Model #</b>	PDM 1484 D - ( EAN# 4250479329065 )
<b>Includes</b>	Module, RBO A025, AC power supply

PDM1484-D\_DS\_rev03 Specifications subject to change

