

## 12Gbit Fiber Optic / SDI Transceiver (CWDM)

- Optical receiver and transmitter in single package
- Supports SDI video up to 12Gbit/s (4096x2160 @ 60 Hz)
- 3Gbit Level A and Level B support (all formats)
- Auto relocking 1.5Gbit / 3Gbit / 6Gbit / 12Gbit
- CWDM with 18 wavelengths (1270nm to 1590nm) selections
- Error free optical connections
- Up to 10km (6.2 miles) @ 12Gbit/s (singlemode)
- Duplex LC/PC single mode optical connections
- Supports hot swapping and hot plugging

The OTR 1440 is a CWDM Fiber Optic to SDI transmitter and receiver combined in a compact self contained package. It is a convenient and cost-effective solution to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances.

Each OTR 1440 CWDM transceiver has an independent transmitter and receiver channel, which provides an effective solution for any SDI signal up to 12Gbit/s (4096x2160 @ 60Hz), while preserving full uncompressed quality. Select from 18 transmitter wavelengths for full CWDM compatibility (ITU-T G.694.2)

The OTR 1440 will auto-detect and re-clock any 1.5Gbit, 3Gbit, 6Gbit, or 12 Gbit SDI source prior to conversion. The module is fully compatible with 3Gbit Level A and Level B formats.

### Power Adapter Options

The kit **INCLUDES** AC power supplies. The power adapters below are optional.



#### P-TAP 1000

Use with a standard battery P-TAP power source.



#### XLR 1000

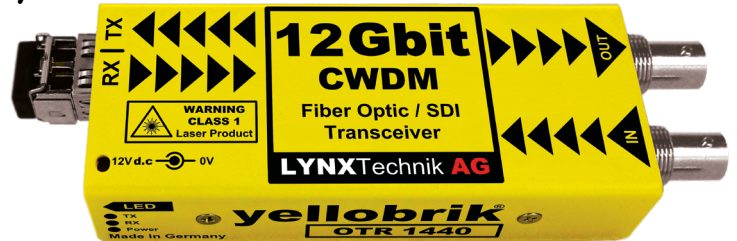
Use with a standard 4 pin XLR camera battery power source.

### Ordering Info:

Note: The **OTR 1440** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required wavelength from the option list below.

### CWDM Wavelength Options. ITU-T G.694.2 (select one)

Wavelength	Option #	EAN	Wavelength	Option #	EAN
1270nm	OH-TR-12G-1270-LC	4250479326552	1490nm	OH-TR-12G-1490-LC	4250479326750
1290nm	OH-TR-12G-1290-LC	4250479326569	1510nm	OH-TR-12G-1510-LC	4250479326767
1310nm	OH-TR-12G-1310-LC	4250479326576	1530nm	OH-TR-12G-1530-LC	4250479326774
1330nm	OH-TR-12G-1330-LC	4250479326583	1550nm	OH-TR-12G-1550-LC	4250479326781
1350nm	OH-TR-12G-1350-LC	4250479326682	1570nm	OH-TR-12G-1570-LC	4250479326798
1370nm	OH-TR-12G-1370-LC	4250479326699	1590nm	OH-TR-12G-1590-LC	4250479326804
1390nm	OH-TR-12G-1390-LC	4250479326705	1610nm	OH-TR-12G-1610-LC	4250479326811
1410nm	OH-TR-12G-1410-LC	4250479326712	<b>TX Power (all options)</b>		
1430nm	OH-TR-12G-1430-LC	4250479326729	-2dBm (min) to +3dBm (max)		
1450nm	OH-TR-12G-1450-LC	4250479326736	<b>RX sensitivity (all options)</b>		
1470nm	OH-TR-12G-1470-LC	4250479326743	-10dBm (6G,12G) -14dBm (1.5G,3G)		

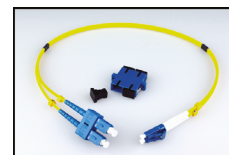


### Technical Specifications

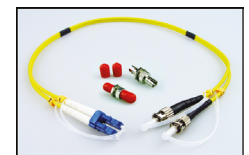
<b>SDI Video</b>	1 x SDI video input 1 x SDI Video output 75 Ohm BNC connectors  SMPTTE 2082-1, SMPTTE 2081-1, SMPTTE 424M, SMPTTE 292M  Multi-standard operation from 1.5Gbit/s to 12Gbit/s  Multi-rate relocking 1.5Gbit/s - 5Gbit/s - 6Gbit/s-12Gbit/s  Automatic cable EQ 260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable) 80m @ 12Gbit/s, 6Gbit/s (Belden 4794R cable)
<b>Fiber Optic</b>	<b>1 x fiber optic input and output (Transceiver)</b> Provides flexibility in choosing different types of SFPs (TX,RX, TR)  SMPTTE 297M - 2006  Hot pluggable  TX active LED, and RX active on side of module  Single mode transmit / receive (duplex connector)  Max. distance approx. 10km (6.2 miles) @ 12Gbit/s (Singlemode)
<b>Power</b>	+12VDC @ 1.9W nominal without SFP +12VDC @ 2.7W nominal with SFP ( supports 7 - 24VDC input range )
<b>Physical</b>	Size: 140mm x 42mm x 22mm (5.51" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
<b>Model #</b>	OTR 1440 - ( EAN# 4250479326620)
<b>Includes</b>	Module, AC power supply

### Fiber Adapter Options

These adapter kits allow the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.



Model# **LC/SC DUP**  
LC/PC to SC/PC Adapter



Model# **LC/ST DUP**  
LC/PC to ST/SC Adapter

OTR1440-rev3.1 Specifications subject to change