

## Analog Sync / Video Fiber Optic Receiver

- Supports analog black burst, bi-level, tri-level sync signals and NTSC and PAL composite video
- Two outputs
- Broadcast quality performance
- Versions for LC, ST or SC fiber connections
- Multimode version available
- Supports hot swapping and hot plugging
- yelloGUI compatible to access additional internal settings



ORX 1702-1 LC Version Shown



LC singlemode    ST singlemode    SC singlemode    LC multimode

Using the same basic module we provide four versions suitable for LC, ST or SC singlemode fiber connections, as well as a version for multimode fiber. Each version has a different SFP installed.

The ORX 1702-1 is a compact analog sync or NTSC/PAL composite video to fiber optic receiver. This device is specifically designed to combat the restrictions involved with the distribution of broadcast quality analog reference and composite video signals over long distances.

When paired with the fiber optic transmitter OTX 1712-2 you have a very cost-effective optical transmission system for analog sync reference signals or NTSC/PAL composite video. This device is particularly useful for reference sync distribution between remote installations to maintain correct synchronization.

Unlike other very basic analog to fiber conversion solutions, the ORX 1702-1 incorporates technology to maintain a very high degree of sync and burst phase stability during the fiber reception and analog conversion.

The module receives an SDI signal (including reference and other relevant information) before it is converted to an analog signal. Therefore, when the ORX 1702-1 is used for 525 or 625 SDI video sources it is possible to convert the signal to an analog NTSC or PAL composite output directly. For example: if the 525 or 625 signal is received from an SDI video transmitter OTX 1812.

The ORX 1702-1 provides two analog outputs and support for LC, ST, SC singlemode fiber connections. An LC version suitable for multimode fiber is also available.

### 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.

### Technical Specifications

<b>Fiber Input Singlemode</b>	1 x fiber optic Input LC, ST or SC connection
	SMPT 297M - 2006
	Input range (wavelength): 1260nm to 1620nm
	RX sensitivity: -3dBm to -19dBm
	RX active LED on side of module
<b>Fiber Input Multimode</b>	1 x fiber optic input LC connection
	SMPT 297M - 2006
	Input range (wavelength) 780nm to 880nm
	RX sensitivity: 0dBm to -15dBm
	RX active LED on side of module
<b>Analog Output</b>	Sync = analog black burst / SDTV bi-level / HDTV tri-level Video = NTSC / PAL composite video 2 identical outputs provided 75 Ohm BNC connectors
	NTSC SMPT 170M, PAL CCIR624 Analog tri-level sync SMPT 274, ST 296 720p 50/59.94/60 1080i 50/59.94/60 1080p 23.97/24/25/29/30 1080psF 23.97/24
	Return loss: 46.5dB to 10MHz
<b>Power</b>	+12VDC @ 3.5W nominal - ( supports 8 - 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>	ORX 1702-1 LC - ( EAN# 4250479320383 ) ORX 1702-1 ST - ( EAN# 4250479320390 ) ORX 1702-1 SC - ( EAN# 4250479320406 ) ORX 1702-1 MM (multimode) - ( EAN# 4250479320413 )
<b>Includes</b>	Module, 12V DC power supply

