

Technical Specifications

SDI Video	4x 12G-SDI inputs on 75 Ohm BNC connector SMPTE 2082-1, SMPTE 2081-1, SMPTE 424M, SMPTE 292M, SMPTE 259M Multi-standard operation from 270Mbit/s to 12Gbit/s Automatic cable EQ: 220m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable). 90m @ 6Gbit/s, 80m @ 12Gbit/s (Belden 4794R cable)
Fiber	4x Fiber outputs 2x Duplex LC/PC connectors Single-mode Standard 1310nm or CWDM SMPTE 297M - 2006 Side-mounted TX activity LEDs
Power	+12V DC @ 2.4W excl. SFPs - (supports 7 - 24V DC input range)
Physical	Size: 140mm x 83.8mm x 22mm (5.51" x 3.29" x 0.86") incl. connectors Weight: 168g/6oz excl. SFPs, 268g/9.5oz incl. SFPs
Includes	Module, AC power supply, SFP depending on model

Ordering Information

Model	Mode	Type	TX Wavelength	SFP Included
OTT 1414	Single	Standard	1310nm	Yes
OTT 1414 CW	Single	CWDM	1270 - 1610nm	No



WARNING
CLASS 1M LASER PRODUCT
LASER RADIATION

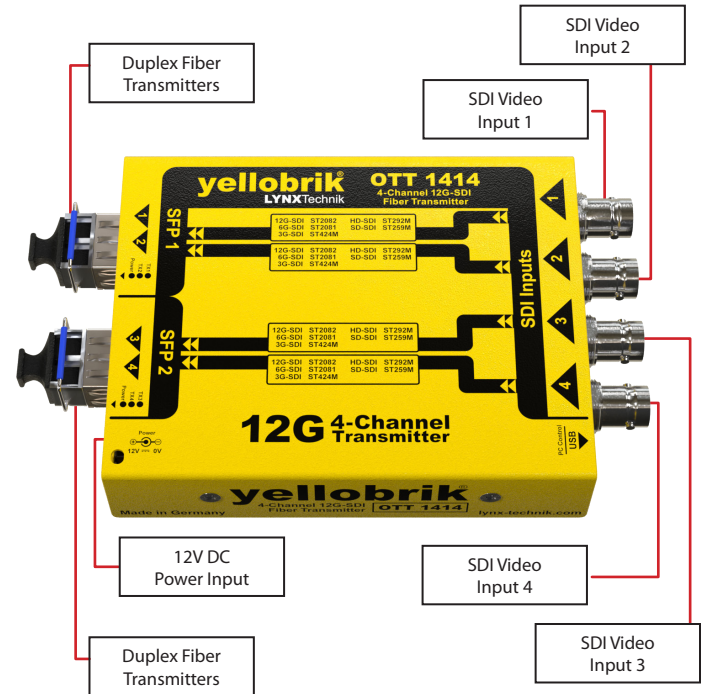
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OTT 1414

4-Channel 12G-SDI to Fiber Transmitter



The OTT 1414 is a compact 4-Channel fiber transmitter combining four independent transmitters in a single unit. It supports uncompressed 12G-SDI signals up to 4K 60fps, with automatic detection and re-clocking of 12G, 6G, 3G, HD, and SD-SDI inputs.

Connections

The SDI inputs and outputs are connected to the 75 Ohm BNC connections. The fiber interface uses LC duplex connections with dense or coarse wavelengths. To protect the optical interface from dust and contamination, keep the supplied dust plug installed whenever the fiber connection is not in use. A USB port is provided for firmware updates, configuration, and monitoring.

Operation

The OTT 1414 combines four independent fiber transmitters single package. Different SDI video formats and standards (12G, 6G, 3G, 1.5G and 270M) can be transmitted on each channel. For transmission, SDI video formats are automatically detected, reclocked and then transmitted over the fiber optic TX connections. Data transmission activity is indicated by the TX LEDs on the side of the module.

Module LEDs

Power LED		
	Green	Device Running
	Yellow (blinking)	"Locate Module" function active
	Red (blinking)	Hardware Issues
	Off	Device Not Powered
TX LED		
	Green	Output Signal Active
	Off	No Input Signal Detected, No Signal Transmitted (Laser Active)

Distances

OTT 1414	Single-mode Standard 1310nm: up to 10km (6.2 miles)
OTT 1414 CW	Single-mode CWDM: up to 10km (6.2 miles)

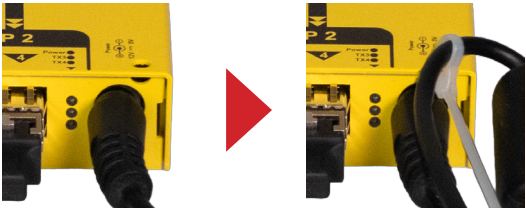
Power

The module requires a 12V DC power input. The LED indicates when power is connected. If using an external power supply, a clean 7–24V DC source is required.

The OTT 1414 has a power consumption of 2.4W (excluding SFP).

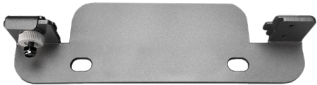
Power Lead Strain Relief

Yellobrik modules have a small hole above the power connection to prevent the power lead from being accidentally pulled out. Secure the lead using the supplied tie-wrap as shown below.



Optional Mounting Solutions

The optional RFR 1001 mounting bracket allows the module to be installed on any surface and 19" rack rails.



The RFR 1200 rack frame can hold up to 14 yellobriks and can provide power redundancy for all installed devices.

