# yellobrik®
## OTR 1414

## Technical Specifications

| | |
|---|---|
| **SDI Video** | 2x 12G-SDI inputs on 75 Ohm BNC connector<br>2x 12G-SDI outputs 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: 260m @ 1.5Gbit/s, 150m @ 3Gbit/s (Belden 1694A cable), 80m @ 12Gbit/s, 6Gbit/s (Belden 4794R cable) |
| **Fiber** | 2x Fiber inputs, 2x Fiber outputs<br>2x Duplex LC/PC connectors<br>Single-mode Standard 1310nm or CWDM |
| | SMPTE 297M - 2006 |
| | Side-mounted TX/RX activity LEDs |
| **Power** | +12V DC @ 3.4W 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<br>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 |
|---|---|---|---|---|
| OTR 1414 | Single | Standard | 1310nm | Yes |
| OTR 1414 CW | Single | CWDM | 1270 - 1610nm | No |

**WARNING**
**CLASS 1M LASER PRODUCT**
**LASER RADIATION**

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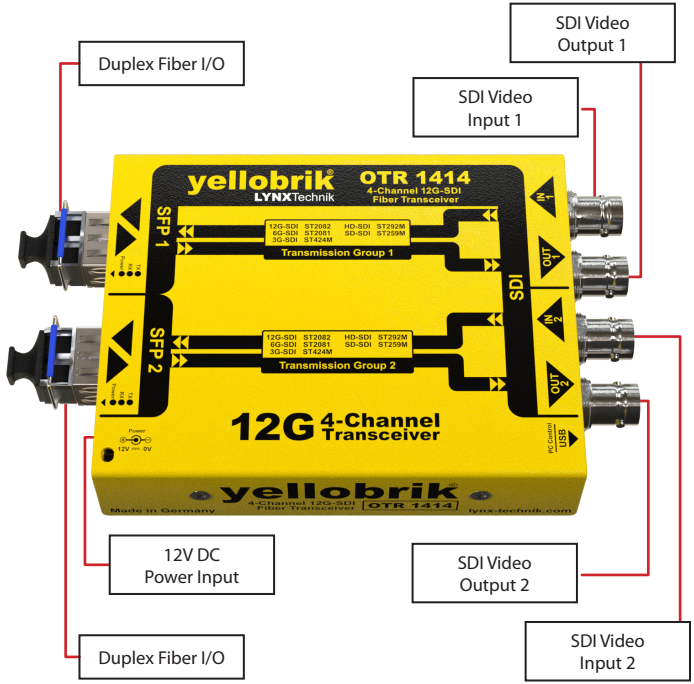
**LYNX**Technik | Broadcast Television Equipment

# yellobrik® | Quick Reference

## OTR 1414
### 4-Channel 12G-SDI to Fiber Transceiver




The OTR 1414 is a compact 4-Channel fiber transceiver combining two independent transmitters and two independant receivers 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 supports LC/PC 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. Firmware updates are provided free of charge via yelloGUI and Lynx Centraal.

## Operation

The OTR 1414 combines two independent fiber transmitters and receivers in a single package. Different SDI video formats and standards (12G, 6G, 3G, 1.5G and 270M) can be transmitted and received on each channel.
For transmission, SDI video formats are automatically detected, reclocked and then transmitted over the fiber optic TX connections. For reception, the optical SDI video input signals on the RX connections are automatically detected, reclocked and provided on the SDI output connections. Data transmission and reception activity is indicated by the TX and RX 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) |
| **RX LED** | |
| Green | Valid Signal Received |
| Green/Red | Incompatible Input Signal |
| Off | No Signal Detected |

## Distances

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

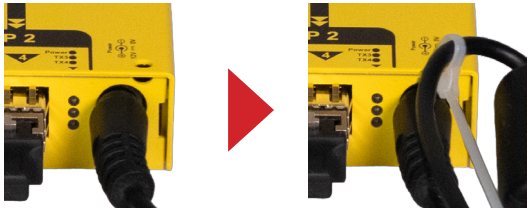
## Power

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 OTR 1414 has a power consumption of 3.4W (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.

