

Technical Specifications

SDI Video	4x 12G-SDI output 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: 190m @ 1.5Gbit/s, 140m @ 3Gbit/s (Belden 1694A cable), 80m @ 12Gbit/s, 6Gbit/s (Belden 4794R cable)
Fiber	4x Fiber inputs 2x Duplex LC/PC connectors Single-mode Standard 1310nm and CWDM SMPTE 297M - 2006 Side-mounted RX activity LEDs
Power	+12V DC @ 1.8W 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	RX Sensitivity	RX Input Range	SFP Included
ORR 1404	Single	-9dBm	1260 - 1620nm	Yes
ORR 1404 HS	Single	-18dBm	1260 - 1620nm	Yes



WARNING
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LASER RADIATION

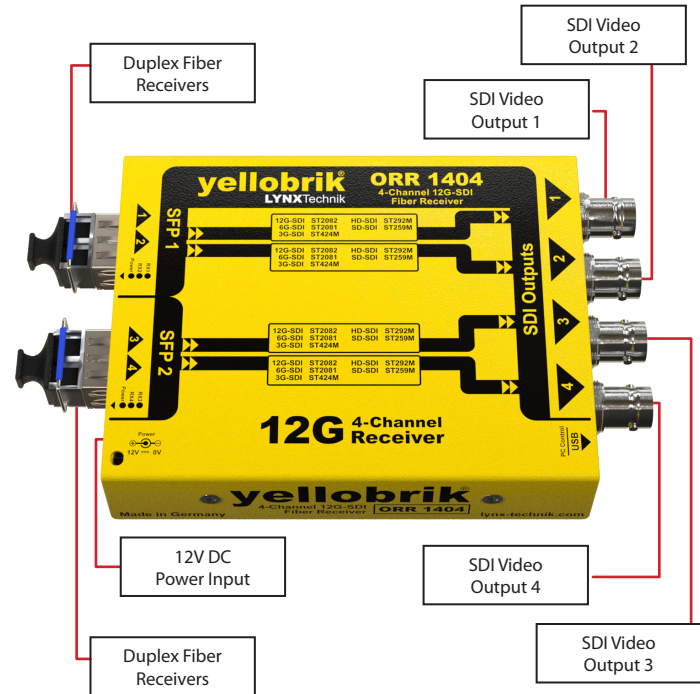
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ORR 1404

4-Channel 12G-SDI Fiber Receiver



The ORR 1404 is a compact 4-Channel fiber receiver combining four independent 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 and works with CWDM and Standard 1310nm fiber.

Connections

The SDI 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 ORR 1404 combines four independent fiber receivers in a single package. Different SDI video formats and standards (12G, 6G, 3G, 1.5G and 270M) can be received on each channel. The optical SDI video input signals on the RX connections are automatically detected, reclocked and provided on the SDI output connections. Data reception activity is indicated by the 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
RX LED		
	Green	Valid Signal Received
	Green/Red	Incompatible Input Signal
	Off	No Signal Detected

Distances

ORR 1404	from up to 10km (6.2 miles)
ORR 1404 HS	from up to 40km (25 miles) using high sensitivity SFPs

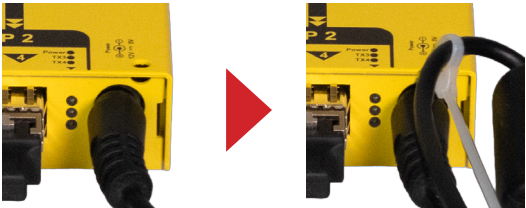
Power

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 ORR 1404 has a power consumption of 1.8W (excluding SFP).

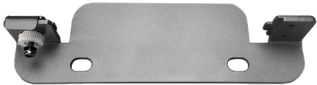
Power Lead Strain Relief

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.

