



Eclipse is an R&D house specialising in live-broadcast equipment. Everything is designed, created and produced by accomplished and acclaimed engineers, all of whom possess extensive knowledge and understanding of using equipment out in the field. This means that from inception, all products are designed in a practical, perceptive and intelligent manner and every aspect of the design is focused on the user and its operating environment. Eclipse equipment is already successfully used by leading Broadcasters but it's also regularly used by the team that design it. A team who are continually developing and improving the technology in order to meet the constantly evolving landscape of live-broadcasting.

## FIBRE OPTIC

# Fibre Optic Tranciever

Polar Single Channel Fibre Optic  
Tranceiver kit - OLED interface

### Overview

The Polar fibre optic transmitter and receiver kit is designed to take a Digital Video Source on BNC and transmit it via Fibre optic cable to the receiver. (FC Connection, others available on request, contact us for details)

Each unit also has an OLED screen for diagnostic purposes, this will allow the user to determine the status of the incoming Video Signal, the transmit level of the TX Unit and the receive level at the RX unit (so determining whether the fibre is in good condition and clean). It also displays supply voltage, unit temperature and some configurable options, such as screen time out, and the option to turn off the transmitting laser when no video input is present.

It also stores a log of any faults found, in order to help with fault evaluation, which enables the user to quickly and easily determine where any issues are, and solve them faster than with conventional products.

Each unit also features a Reclocker, although this can easily be disabled as may be required in some specific circumstances.

The units are colour coded for easy identification, Green for TX, Red for RX.

Power requirements is 7-17V DC via 4 pin xlr connectors.

All of the products in the range have been created using high quality components and materials, arguably the best available on the commercial market, making them robust, durable and dependable.



### Technical details

- HD-SDI Input/Output via 1 x 75Ohm BNC
- Fibre levels and other diagnostic info displayed on a TFT screen
- Optional Reclocker bypass in both units
- Supports SD, HD and 3D SDI at data rates of 270Mb/s, 1483.5 Mb/s, 1485 Mb/s, 2967Mb/s & 2970Mb/s
- Up to 30 Km range
- Enclosed within a strong snap-close enclosure, with two mounting points on the base
- SMPTE, DVB and ASI Compliant
- Power On LED
- Video-Lock LED is Tri Colour to indicate Signal Type

- Input Voltage is 7 - 17.5 VDC, 2W at 13.8V DC (4 pin XLR connector)
- Including Connectors  
Dimensions are 150mm x 68mm x 41mm
- FC fibre connectors fitted as standard, ST and others available on request
- Configurable relay-trigger short output for alarm and/or fibre level warnings (pins 2 & 3 of power XLR)

Accepts the following Formats;

1080/60p, 1080/59.94p, 1080/50p, 1080/30p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 1080/60i, 1080/59.95i, 1080/50i, 1080/30psF, 1080/29.97psF, 1080/25psF, 1080/24psF, 1080/23.98psF, 720/60p, 720/59.94p, 720/50p, 720/30p, 720/29.97p, 720/25p, 720/24p, 720/23.98p