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 impoving the technology in order to meet the constanlty evolving landscape of live-broadcasting.

Fibre Optic Tranciever

Trent Dual Channel Fibre Optic
Tranceiver kit - TFT interface

Overview

The Trent fibre optic transmitter and receiver kit is designed to take two Digital Video Sources on BNC and transmit them via Fibre optic cable to the receiver, or transmit one signal in either direction if using tranceivers.

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

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

It is also possible to output an alarm signal via pins 2 & 3 on the 4 pin power XLR socket. This could, for example, be connected to a remote lamp near the Vision Guarantee's position, to provide a visual warning of any problems.

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.

The enclosures are available in a number of colours.

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
- Loop Out facility for each coaxial input of the TX channels
- Units available in TX (x2), RX (x2) or Tranceive (TX + RX)

- 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