



**1490E
SERIES
MULTIMODE**

**SINGLE FIBER TRANSCEIVER - ONE WAY VIDEO WITH
BI-DIRECTIONAL RS422 DATA AND CONTACT CLOSURE**

Features:

- ◆ Compatible with NTSC; RS – 170A
RS –343A and PAL
- ◆ Diagnostics: Video, Power and
- ◆ Optical Presence
- ◆ Full Color Transmission
- ◆ Modules or Rack Cards

SPECIFICATIONS:

Video:

I/O Level 1 Vp-p
I/O Impedance 75 Ω
Bandwidth 8 MHz
Differential Gain 5%
Differential Phase 2°
SNR 60 dB
Connector BNC

Optical:

Wavelength 1300/1550nm
Loss Budget (62.5/125µm fiber) 18 dB
Max Distance 10 km
Connector ST

Data: RS422

Data Rate up to 19.2 Kb/s
Data Connector 5 Pin Screw Terminal

Contact Closure:

Input Switch Closure to Ground
Output Dry Contact
Response Time 2 ms
Max Voltage 100Vdc
Max Current 500mA
Connector 5 Pin Screw Terminal

Temperature (Operating)

-40°C to +75°C, non-condensing

Power Supply:

Module Transmitter - 12 VDC
(AFI Part #: PS-12D)
Module Receiver - 12 VDC
(AFI Part#: PS-12D)

Size:

Module 8 7/8 x 5 1/2 x 1 1/8
Rack Card 2 rack slots 8" x 5" x 2"
Maximum 7 Rack Cards per SR-20/2

Ordering information:

MT=Module Transmitter – Video Source
MR=Module Receiver- Control Site
RT=Rack Card Transmitter – Video Source
RR=Rack Card Receiver –Control Site

Example:

MT-1490E to RR-1490E

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Photo of a single mode link, multimode is available in the same package

The American Fibertek 1490E Series transmits high quality video and simultaneously bi-directional RS422 data and contact closure on one multimode optical fiber. The signals are transmitted using high performance analog FM technology.

Designed to be completely transparent to all camera and monitor manufacturers, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20/2 or SR-20H/2 (redundant power supplies) .

