



**946C
SERIES
MULTIMODE**

**FOUR-CHANNEL DIGITAL VIDEO & MULTI-PROTOCOL
RS485/RS422/RS232/MANCHESTER & CONTACT
CLOSURE SYSTEM**

Features:

- ◆ Compatible with NTSC, (RS – 170A & RS –343A), PAL and SECAM
- ◆ Diagnostics: Video, Data, OLI, DC Power and Digital Frame Sync
- ◆ Automatic Resettable Fuses on Power Lines
- ◆ RS485/422/232 Two Way Data
- ◆ Real Time Video Transmission
- ◆ Serial Digital Transmission

Specifications:

Video:

I/O Level1 Vp-p (±3 dB)
 I/O Impedance 75 Ohms
 Bandwidth7 MHz
 Differential Gain2 %
 Differential Phase.....0.7 °
 SNR (Unified Weighted).....55 dB
 Connector BNC

Data:

Interface....485(2 or 4 Wire)/RS422/RS232
 Data FormatAsynchronous, Serial
 Data Rate DC to 115 Kbs
 Connector5 Pin Screw Terminals

Contact Closure:

Input Switch Closure to Ground
 OutputDry Contact
 Response Time 2 mS
 Max Voltage 100 VDC or Peak AC
 Max Current 0.5 A
 Connector.....Terminal Block

Optical

Wavelength 1310/1550 nm
 Loss Budget (62/125µ).....12 dB
 Maximum Distance2 Km
 (Limited by Fiber Dispersion)
 Connector ST

Environmental

Operating Temp.....-40°C to +75°C
 Storage Temp.....-40°C to +85°C
 Humidity.....0% to 95% (non condensing)
 MTBF.....>100,000 hours

Power Supply:

Module : 12 VDC (AFI Part#: PS-12D)
 Rackcard: SR20/2

Size:

Module.....81/8" x 41/8" x 11/2 "
 Rack Card-2 rack slots..... 6½" x 5" x 2"
 Maximum Loading:.....7 Cards per SR-20/2

Ordering information:

Example: MT-946C to RR-946C



The American Fibertek 946C Series transmits four channels of high-quality 10 bit digitized video and one channel of multi-protocol data (RS485 (2 wire or 4 wire) or RS422 or RS232 or Manchester) and a bi-directional contact closure on one multimode optical fiber at 1310 and 1550nm.

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. **The “Afinety” intelligent remote monitoring system is available on this product, please consult factory.**

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 (with redundant power supplies).

