



**945C  
SERIES  
MULTIMODE**

**FOUR CHANNEL DIGITAL VIDEO SYSTEM WITH TWO  
BI-DIRECTIONAL MULTI-PROTOCOL DATA CHANNELS**

**Features:**

- ◆ Compatible with NTSC, (RS – 170A & RS –343A), PAL and SECAM
- ◆ Diagnostics: Video, DC Power, Digital Frame Sync, OLI, Data Activity
- ◆ Available with Enhanced "Afinety" Intelligent Monitoring System
- ◆ 10 Bit Digital Video Transmission
- ◆ Serial Digital Transmission

**Specifications:**

**Video:**

I/O Level ..... 1 Vp-p (±3 dB)  
 I/O Impedance ..... 75 Ohms  
 Bandwidth ..... 7 MHz  
 Differential Gain ..... 2 %  
 Differential Phase ..... 0.7 °  
 SNR (Unified Weighted) ..... 65 dB  
 Connector ..... BNC

**Data:**

Number of Channels ..... 2 (Full Duplex)  
 Interface ..... 485(2 or 4 Wire)/RS422/RS232  
 Data Format ..... Asynchronous, Serial  
 Data Rate ..... DC to 115 Kbs  
 Connector ..... 5 Pin Screw Terminals

**Optical**

Wavelength ..... 1310/1550 nm  
 Loss Budget (62/125µ) ..... 12 dB  
 Maximum Distance ..... 2 Km  
 (Limited by Fiber Dispersion)  
 Connector ..... ST

**Temperature (Operating)**

-40°C to +75°C, non-condensing

**Power Supply:**

Module – 12 VDC @ 800 mA  
 Rack Card – AFI SR 20/2

**Size:**

Module ..... 8 1/8" x 4 1/8" x 1 1/8 "  
 Rack Card:  
 2 rack slots ..... 6 1/2" x 5" x 2"

**Ordering information:**

MT-945C Module Transmitter  
 MR-945C Module Receiver  
 RT-945C Rack Card Transmitter  
 RR-945C Rack Card Receiver

**Example: RT-945 to RR-945**

10/12/12



The American Fibertek 945C Series transmits four channels of high-quality 10 bit digitized video and two channels of multi-protocol data on one multimode optical fiber using WDM 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. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as rack cards, these are mounted in the American Fibertek Card Cages: SR-20/2 or SR-20R/1.

