Single Fiber Two-Channel FM Video System

FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Modules or Rack Cards
- Compatible with 500 Series Audio/Data Modulators & Demodulators
- PFM Transmission

SPECIFICATIONS:

Video:

I/O Level	1 Vpp
I/O Impedance	75 Ohms
Bandwidth	10 MHz
Differential Gain	5%
Differential Phase	3°
SNR	55 dB
Connector	BNC

Optical:

Wavelengths	1300 nm
Maximum Transmission Distance	5 Km
Loss Budget (62.5/125μ)	12 dB
Connector	ST

Temperature (Operating):
-40°C to +75°C, non-condensing

Power Supply:
Module Transmitter -
24 VAC Center Tap (AFI Part #: PS-24-CT-T)
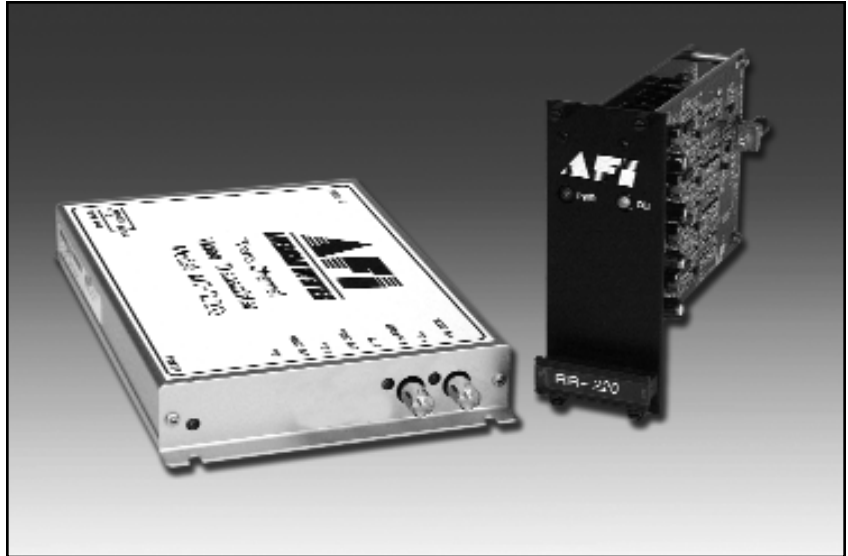Module Receiver -
24 VAC Center Tap (AFI Part #: PS-24-CT-T)

Size:
Module Receiver - 8⅞″ x 5½″ x 1⅛″
Module Transmitter - 8⅞″ x 5½″ x 1⅛″
Rack Card Receiver requires 2 rack slots -
    8″ x 5″ x 2″
Rack Card Transmitter requires 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: RT-220 to RR-220

The American Fibertek 220 Series transmits two channels of high-quality video on one multimode optical fiber at 1300nm. 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. In addition, two sub-carriers can be added to each video channel using the 500 Series modulators and demodulators. 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-20R/1.

Video 1 →
Video 2 → **MT-220 Transmitter** ··········· One Fiber ··········· **MR-220 Receiver** → Video 1 → Video 2

VIDEO WITH 500 SERIES
MODULATORS AND DEMODULATORS

Video →
A, D or CC →
A, D or CC → **500 Series Modulator** → One Channel → **220 Series Transmitter** → One Fiber → **220 Series Receiver** → One Channel → **500 Series Demodulator** → Video
→ A, D or CC
→ A, D or CC

A = AUDIO   D = DATA   CC = CONTACT CLOSURE
MODULATORS AND DEMODULATORS