

# 1800-2W SERIES MULTIMODE



## Single Fiber Bi-directional Transceivers One-Way Video With Bi-directional Two-Wire Audio



### FEATURES:

- Video with Bi-Directional Two-Wire Audio Utilizing One Multimode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- 24 VAC Standard or 12 VDC Option
- Full Color Transmission

### PRODUCT ENHANCEMENTS:

- Additional bi-directional features available for audio, data or contact closure - choice of one.

### SPECIFICATIONS:

#### Video:

I/O Level.....	1 Vpp
I/O Impedance.....	75 Ohms
Bandwidth.....	8 MHz
Differential Gain.....	4%
Differential Phase.....	4°
SNR.....	63 dB
Connector.....	BNC

#### Audio:

I/O Level.....	0 dBm
I/O Impedance.....	600 Ohms
Bandwidth.....	20 Hz to 10 KHz
THD @ 1 KHz.....	1%
SNR.....	55 dB
Connector.....	5 pin screw terminal

#### Optical:

Wavelength.....	850/1300 nm
Loss Budget (62.5/125µ).....	12 dB
Connector.....	ST

#### Temperature (Operating):

-20°C to +70°C, non-condensing

#### Power Supply:

Module - 24 VAC (AFI Part #: PS-24)  
12 VDC available upon request, consult factory  
Rack Card - (See AFI Part #: SR-20/2)

#### Size:

Module - 6¾" x 5¾" x 1¾"  
Rack Card requires one rack slot - 6½" x 1" x 5"

### ORDERING INFORMATION:

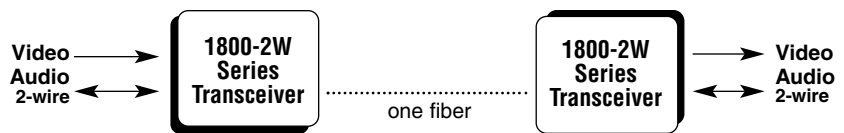
MT = Module Transmitter - Video Source  
MR = Module Receiver - Control Site  
RT = Rack Card Transmitter - Video Source  
RR = Rack Card Receiver - Control Site

**Example: MT-1800-2W to RR-1800-2W**

The American Fibertek 1800-2W Series transmits high-quality, simultaneous video with bi-directional Two-Wire Audio on one multimode optical fiber. An additional bi-directional audio, data, or contact closure option may be added for enhanced



applications. These systems require 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-20R/1.



### PRODUCT ENHANCEMENTS:

- |   |               |
|---|---------------|
| <b>1820-2W Series</b> - Video One-Way _____   | <b>V A D</b>  |
| 1 - channel of bi-directional Audio   |               |
| 1 - channel of bi-directional return AD or Bosch Code   |               |
| <b>1830-2W Series</b> - Video One-Way _____   | <b>V D A</b>  |
| 1 - channel of bi-directional Audio   |               |
| 1 - channel of bi-directional RS-232  |               |
| <b>1840-2W Series</b> - Video One-Way _____   | <b>V A D</b>  |
| 1 - channel of bi-directional Audio   |               |
| 1 - channel of bi-directional RS-422  |               |
| <b>1870-2W Series</b> - Video One-Way _____   | <b>V A D</b>  |
| 1 - channel of bi-directional Audio   |               |
| 1 - channel of bi-directional TTL   |               |
| <b>1880-2W Series</b> - Video One-Way _____   | <b>V A A</b>  |
| 2 - channel of bi-directional Audio   |               |
| <b>1890-2W Series</b> - Video One-Way _____   | <b>V A CC</b> |
| 1 - channel of bi-directional Audio   |               |
| 1 - channel of bi-directional contact closure<br>rated at 100V Max (DC or peak AC) @ 0.5A with<br>a response time of 2 ms |               |