

# 1400K SERIES MULTIMODE



## Single Fiber Bi-directional Transceivers for Kalatel Systems One-Way Audio & Video with Reverse RS422



### FEATURES:

- Audio & Video with Reverse RS422 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

#### Data:

Data Rate.....	Up to 19.2 Kbps
Data Connectors.....	5 pin screw terminal

#### 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:

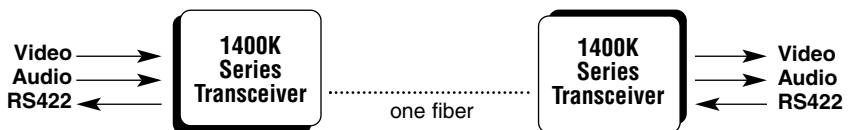
MT = Module Transmitter - Video Source  
MR = Module Receiver - Control Site  
RT = Rack Card Transmitter - Video Source  
RR = Rack Card Receiver - Control Site

Example: MT-1400K to RR-1400K

The American Fibertek 1400K Series transmits high-quality, simultaneous Audio & Video with reverse RS422 on one multimode optical fiber. Designed to be used with Kalatel products, these systems require no field adjustments at installation or additional



maintenance thereafter. An additional bi-directional audio, data, or contact closure option may be added for enhanced applications. 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:

- 1420K Series** - Video & Audio One-Way ————— **VADP**  
1 - channel reverse RS422  
1 - channel return AD or Bosch Code
- 1430K Series** - Video & Audio One-Way ————— **VADP**  
1 - channel reverse RS422  
1 - channel bi-directional RS232 up to 19.2 Kbps
- 1440K Series** - Video & Audio One-Way ————— **VADP**  
1 - channel reverse RS422  
1 - channel bi-directional RS422
- 1470K Series** - Video & Audio One-Way ————— **VADP**  
1 - channel reverse RS422  
1 - channel of bi-directional TTL up to 19.2 Kbps
- 1480K Series** - Video & Audio One-Way ————— **VADP**  
1 - channel reverse RS422  
1 - channel of bi-directional audio  
Bandwidth of 20 Hz to 10 KHz and THD @ 1 KHz of 1%.  
SNR 55dB, I/O Impedance 600 Ohms balanced.
- 1490K Series** - Video & Audio One-Way ————— **VACP**  
1 - channel reverse RS422  
1 - channel of bi-directional contact closure rated at 100V  
Max (DC or peak AC) @ 0.5A with a response time of 2 ms

- For singlemode product equivalent to the 1400K series please see the 3400K series product.