

Overview

The IFS VAT/VAR1200 video and audio transmitter/receiver supports the simultaneous transmission of video and audio over one multimode fiber optic cable. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The modules incorporate power and AGC status indicating LED's to monitor proper system operation. The modules are available in either stand-alone or rack mount versions.

Application Examples

- Fixed Video with One-Way Audio
- CCTV and Paging (Public Address) Systems
- One-Way Teleconferencing Link
- Distance Learning

Standard Features

- AM Video Transmission
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- 600 Ohms Audio Input Impedance
- Transmits Balanced or Unbalanced Line-Level Audio (2.2 Volts Peak-to-Peak)
- Full Range Peak-to-Peak Automatic Gain Control (AGC)
- No In-field Electrical or Optical Adjustments Required
- Power and AGC Status Indicating LED's to Monitor System Performance
- Automatic Resettable Fuses on all Power Lines
- Hot-Swappable Rack Modules
- Distances up to 2.5 miles (4 km) without Repeaters
- Comprehensive Lifetime Warranty

Video with One-Way Audio

Simultaneous video and audio transmission over one multimode fiber optic cable.



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Specifications subject to
change without notice

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Agency compliance



Made in the USA

Complies with FDA Performance
Standard for Laser Products, Title 21,
Code of Federal Regulations, Subchapter J

Specifications

Video

Video Input/Output: 1 volt pk-pk (75 ohms)
Bandwidth: 5 Hz - 10 MHz
Differential Gain: 5% typical
Differential Phase: 5° typical
Tilt: <1%
Signal-to-Noise Ratio (SNR): 60 dB (typical)

Audio

Input/Output: 2.2 Volts Peak-to-Peak
Bandwidth: 300 Hz - 5 kHz
Input Impedance: 600 ohms (single ended or differential)

Wavelength

850 nm, Multimode

Number Of Fibers

1

Connectors

Optical: ST
Power and Audio: Terminal Block with Screw Clamps
Video: BNC (Gold Plated Center-Pin)

Electrical & Mechanical

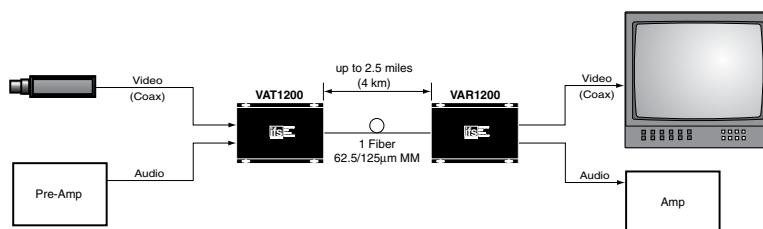
Power: 21-24 VAC C.T. @ 150 mA
Surface Mount: From Rack
Rack: 1
Number of Rack Slots: Automatic Resettable Solid-State Current Limiters
Current Protection: 750 ft.
Max. RG59 Cable Length: Meets IPC Standard
Circuit Board: 7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 2.5 cm
Size (in./cm.) (LxWxH): 7.7 x 5.0 x 1.0 in., 19.6 x 12.7 x 2.5 cm
Surface Mount: < 2 lbs./0.9 kg
Rack Mount:
Shipping Weight:

Environmental

MTBF: > 100,000 hours
Operating Temp: -40° C to +74° C
Storage Temp: -40° C to +85° C
Relative Humidity: 0% to 95% (non-condensing)†

†May be extended to condensation conditions by adding suffix '-C' to model number for conformal coating.

System Design



Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	VAT1200 VAR1200	Video Transmitter/Audio Transmitter (850 nm) Video Receiver/Audio Receiver (850 nm)	1	14 dB	2.5 miles (4 km)
Accessories†	PS-24 VAC CT 24 Volt AC Center tap Power Supply (Included) PS-24 VAC CT 230 24 Volt AC Center tap Power Supply, 230 VAC Input (Included if specified at time of order)				
Options	Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately) Add '-C' for Conformally Coated Printed Circuit Boards (Extra charge, consult factory)				

* Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.

Distance can also be limited by fiber bandwidth. ** For 50/125 Fiber, subtract 4 dB from Optical Power Budget. † All accessories are third party manufactured.



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