



DESCRIPTION

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

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

Available at: **www.ifs.com**

- A & E Specifications, (CSI)
- AutoCAD Drawings
- Operation Manuals
- Technical Bulletins

ORDERING INFORMATION

	PART NUMBER	DESCRIPTION	FIBERS REQUIRED	OPTICAL PWR BUDGET	MAX. DISTANCE*
MULTIMODE 62.5/125µm**	VAT1200	Video Transmitter/Audio Transmitter (850 nm)	1	14 dB	2.5 miles (4 km)
	VAR1200	Video Receiver/Audio Receiver (850 nm)			
ACCESSORIES♦	PS-24VACCT 24 volt AC Center Tap Power Supply (Included)				
	PS-24VACCT-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.



TECHNICAL SPECIFICATION VIDEO WITH ONE-WAY AUDIO

VAT/VAR1200

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:	
Surface Mount:	21 - 24 VAC C.T. @ 150 mA
Rack:	From Rack
Number of Rack Slots:	1
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 5.1 cm
Rack Mount:	7.7 x 5.0 x 1.0 in., 19.6 x 12.7 x 5.1 cm
Shipping Weight:	< 2 lbs./0.9 kg

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.

AGENCY COMPLIANCE

FCC PART 15
COMPLIANT



MADE IN THE USA

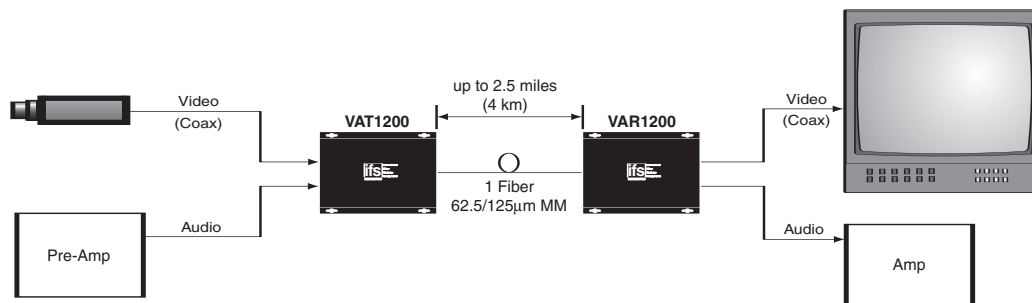
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

OPTICAL POWER BUDGET

FIBER	WAVELENGTH	TRANSMITTER		RECEIVER		OPTICAL PWR BUDGET	MAX. DISTANCE*
		MODEL	OUTPUT	MODEL	SENSITIVITY		
Multimode 62.5/125µm**	850 nm	VAT1200	25µw (-16 dBm)	VAR1200	1 µw (-30 dBm)	14 dB	2.5 miles (4 km)

* 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.

SYSTEM DESIGN



International
Fiber
Systems
Incorporated

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Due to our continued effort to advance technology, product specifications are subject to change without notice.