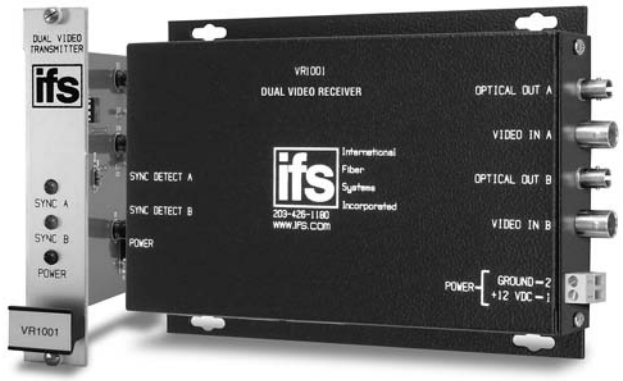
# PRODUCT SPECIFICATION
# DUAL INDEPENDENT AM VIDEO RECEIVER
# VR1001




## DESCRIPTION

The IFS VR1001 dual video receiver detects two independent AM video signals in one module on two independent multimode fiber optic cables. The module is not a multiplexer. The module is ideal for smaller CCTV installations and the rack-mount version can be used to double the fixed video capacity of the R3 rack for up to 28 independent video channels per card cage. The modules utilize manual gain control. The receiver is compatible with the IFS VT1101M, VT1101M-AC, and VT1001 series transmitters. Plug-and-play design ensures ease of installation. The module incorporates power and sync detect status indicating LED's for monitoring proper system operation. The module is available in either stand-alone or rack mount version.

## APPLICATION EXAMPLES

- CCTV (Fixed Video)

## FEATURES

- AM Video
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Two Independent Receivers in One Module
- Can be Used to Double the Fixed Video Capacity of an R3 Card Cage
- Plug and Play Design for Ease of Installation
- Power and Sync Detect Status Indicating LED's to Monitor System Performance
- Hot-Swappable Rack Modules
- Automatic Resettable Fuses on all Power Lines
- 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 |
|---|---|---|---|
| **MULTIMODE 62.5/125µm**** | VR1001 | Dual Video Receiver (850 nm) | 2 |
| | VR1001 Series is compatible with: VT1101M, VT1101M-AC & VT1001 Series Transmitters | | |
| **ACCESSORIES♦** | PS-24VACCT 24 volt AC Center Tap Power Supply (Included)<br>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)<br>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
# DUAL INDEPENDENT AM VIDEO RECEIVER
# VR1001

## SPECIFICATIONS

### VIDEO

| | |
|---|---|
| Video Output: | 1 volt pk-pk (75 ohms) |
| Bandwidth: | 5 Hz - 10 MHz |
| Differential Gain: | <5% |
| Differential Phase: | <5° |
| Tilt: | <1% |
| Signal-to-Noise Ratio (SNR): | 60 dB typical, 54 dB minimum |

### WAVELENGTH
850 nm, Multimode

### NUMBER OF FIBERS
2

### CONNECTORS

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

### ELECTRICAL & MECHANICAL

| | |
|---|---|
| Power: | |
| Surface Mount: | 24 VAC C.T. @ 300 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 2.5 cm |
| Rack Mount: | 7.7 x 5.0 x 1.0 in., 19.6 x 12.7 x 2.5 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 CE cULus GSA
*Federal Supply Schedule Contract No. GS-07F-0049M*

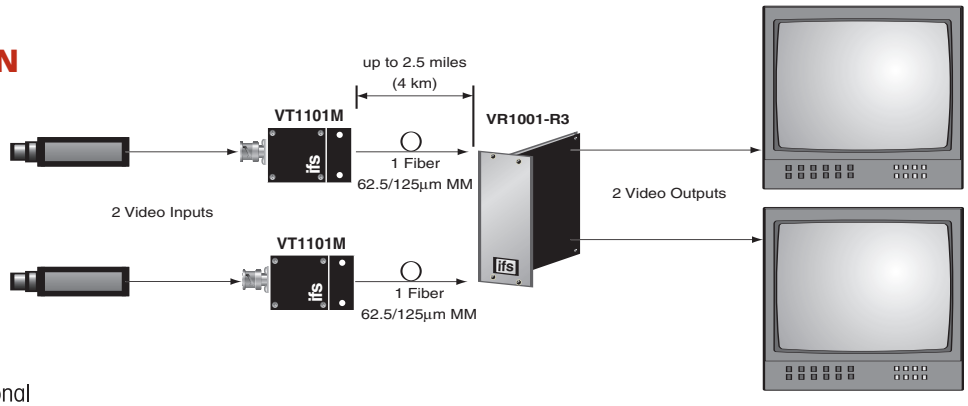
### MADE IN THE USA
**Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J**

## OPTICAL POWER BUDGET

| FIBER | WAVELENGTH | TRANSMITTER | | RECEIVER | | OPTICAL PWR BUDGET | MAX. DISTANCE* |
|---|---|---|---|---|---|---|---|
| | | MODEL | OUTPUT | MODEL | SENSITIVITY | | |
| Multimode 62.5/125µm** | 850 nm | VT1101M-AC VT1001 VT1101M | 25µw (-16 dBm) | VR1001 | 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





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