VR2100 Series
IFS Dual Independent AM Video Receiver with AGC

OVERVIEW
The IFS VR2100 Series dual video receiver detects two independent AM video signals in one module on two independent multimode fiber optic cables. 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 receiver utilizes automatic gain control (AGC). The receiver is compatible with the IFS VT1101M, VT1101M-AC, and VT1001 series transmitters. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The receiver incorporates power and AGC 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)

STANDARD FEATURES
• AM Video
• NTSC, PAL, SECAM Compatible
• Automatic Resettable Fuses on all Power Lines
• Two Independent Receivers in One Module
• Can be Used to Double the Fixed Video Capacity of an R3 Card Cage
• Full Range Automatic Gain Control (AGC)
• Automatically Maximizes Contrast
• No In-field Electrical or Optical Adjustments Required
• Power and AGC Status Indicating LED’s to Monitor System Performance
• Full Color Compatibility
• Hot-Swappable Rack Modules
• Comprehensive Lifetime Warranty

SYSTEM DESIGN

Video (Coax)
Video (Coax)

up to 2.5 miles
(4 km)

VT1001

2 Fibers
62.5/125μm MM

VR2100

Video (Coax)
Video (Coax)

interlogix.com
### VR2100 Series
IFS Dual Independent AM Video Receiver with AGC

#### Ordering Information

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<th>Part Number</th>
<th>Description</th>
<th>Fibers Required</th>
<th>Optical Pwr. Budget</th>
<th>Max. Distance*</th>
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<td>Multimode 62.5/125µm**</td>
<td>VR2100</td>
<td>Dual Video Receiver with AGC (850nm)</td>
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<td>14 dB</td>
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VR2100 Series is compatible with: VT1101M, VT1101-AC, AND VT1001 Series Transmitters

| Accessories♦ | PS12/DC1.5A-U | 12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (included) |

Options Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately)

*B: All accessories are third party manufactured.

**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.

### Specifications

#### Video

- **Video Output:** 1 volt pk-pk (AGC controlled)
- **Bandwidth:** 5 Hz - 10 MHz
- **Differential Gain:** <5%
- **Differential Phase:** <5°
- **Tilt:** <1%
- **Signal-to-Noise Ratio (SNR):** >55 dB at 10 dB Attn.

#### Wavelength

850 nm, Multimode

#### Receiver Sensitivity

1 µW (-30 dBm)

#### Transmitter Output

25 µW (-16 dBm)

#### 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. @ 200 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):** 7.0 x 4.9 x 1.0 in., 10.7 x 12.5 x 2.5 cm
- **Surface Mount:** 7.7 x 5.0 x 1.0 in., 17.8 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)

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**Agency Compliance**

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

FCC PART 15 COMPLIANT

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Specifications subject to change without notice.

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