



International
Fiber
Systems
Incorporated

Installation/Operation Instructions and Warranty Information for Models...

VT1505
VT1505-R3
VT1505WDM
VT1505WDM-R3
VR1505
VR1505-R3
VR1505WDM
VR1505WDM-R3

SERIES DESCRIPTION

This operating guide describes a family of International Fiber Systems, Inc. (IFS) fiber optic modems. Not all modems have all of the features in this guide.

The VT/VR1505 series is designed to transmit and receive video from a Closed Circuit Television (CCTV) camera as well as a return data signal for PTZ (pan, tilt, zoom) camera control. The video receiver contains automatic gain control (AGC) circuitry which eliminates the need for any video adjustment by automatically maximizing contrast. This series is composed of multimode fiber optic interfaces that are compatible with only "Up-the-Coax." style (video and PTZ via a coaxial cable) video systems.

PART NUMBER DESCRIPTION

VT1505 SERIES	
VT1505	VIDEO TRANSMITTER / DATA RECEIVER: 850 nm, TWO MULTIMODE FIBERS
VT1505-R3	VIDEO TRANSMITTER / DATA RECEIVER: 850 nm, TWO MULTIMODE FIBERS, RACK MOUNT
VT1505WDM	VIDEO TRANSMITTER / DATA RECEIVER: 850/1300 nm, ONE MULTIMODE FIBER
VT1505WDM-R3	VIDEO TRANSMITTER / DATA RECEIVER: 850/1300 nm, ONE MULTIMODE FIBER, RACK MOUNT
VR1505 SERIES	
VR1505	VIDEO RECEIVER / DATA TRANSMITTER: TWO MULTIMODE FIBERS
VR1505-R3	VIDEO RECEIVER / DATA TRANSMITTER: TWO MULTIMODE FIBERS, RACK MOUNT
VR1505WDM	VIDEO RECEIVER / DATA TRANSMITTER: ONE MULTIMODE FIBER
VR1505WDM-R3	VIDEO RECEIVER / DATA TRANSMITTER: ONE MULTIMODE FIBER, RACK MOUNT

COMPATIBILITY CHART

TRANSMITTER	COMPATIBLE RECEIVER
VT1505	VR1505, VR1505-R3
VT1505-R3	VR1505, VR1505-R3
VT1505WDM	VR1505WDM, VR1505WDM-R3
VT1505WDM-R3	VR1505WDM, VR1505WDM-R3

POWER CONNECTION**(a) Stand-alone Modules:**

VT1505 SERIES		VR1505 SERIES	
24 VAC CENTER-TAP INPUT		24 VAC CENTER-TAP INPUT	
PIN 1	12 VAC	PIN 1	12 VAC
PIN 2	GROUND	PIN 2	GROUND
PIN 3	12 VAC	PIN 3	12 VAC
12 VDC INPUT			
PIN 2	GROUND		
PIN 3	+ 12 VDC		

(b) –R3 Modules:

All “-R3” models receive power from the back plane of the R3 rack. Insert the “-R3” unit into any available R3 rack slot such that the female 3-pin connector on the back of the module engages the companion male connector of the back plane. The red power LED will glow when voltage is applied to the unit.

CAMERA / RECEIVER-DRIVER CONNECTION

Attach a 75 ohm coaxial cable (terminated with BNC connectors) from the camera/receiver-driver’s BNC connector to the "VIDEO IN" BNC connector on the VT1505 series module.

CONTROLLER CONNECTION

Attach a 75 ohm coaxial cable (terminated with BNC connectors) from the controller’s “Video In” BNC connector to the "VIDEO OUT" BNC connector on the VR1505 series module.

FIBER OPTIC CONNECTION

Select a quality fiber optic cable containing either 50/125 or 62.5/125 fiber and attach a ST style fiber optic connector using the connector manufacturer's recommended procedures. Connect the fiber optic cable to the ST connector marked "OPTICAL OUT" on the VT1505 series module to the ST connector marked “OPTICAL IN” on the VR1505 series module. In a similar fashion, connect the fiber optic cable to the ST connector marked and "OPTICAL IN" on the VT1505 series module to the ST connector marked “OPTICAL OUT” on the VR1505 series module.

NOTE: When using a “WDM” fiber optic module (single fiber unit), connect the fiber optic cable to the ST connectors marked “OPTICAL CABLE.” on the VT and VR modules

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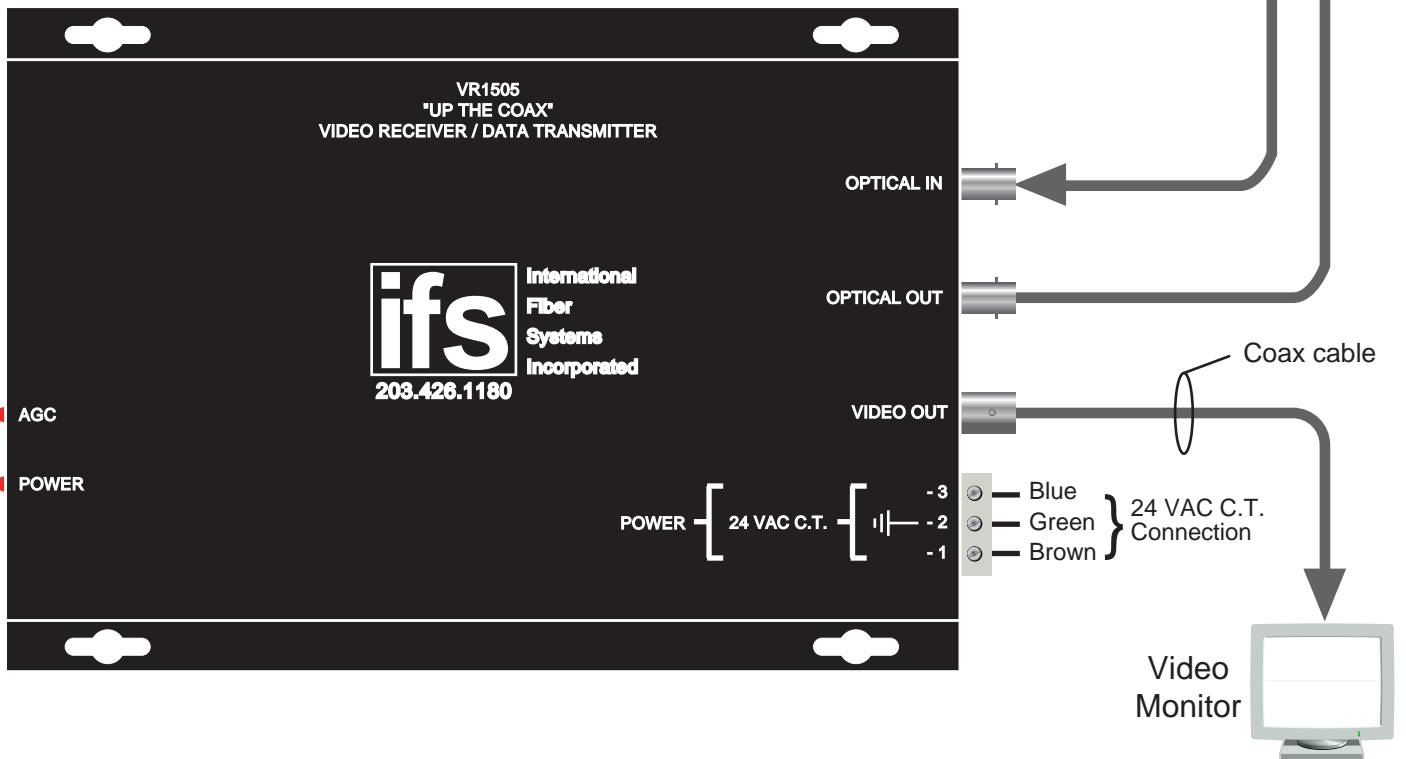
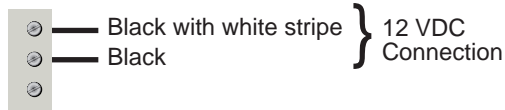
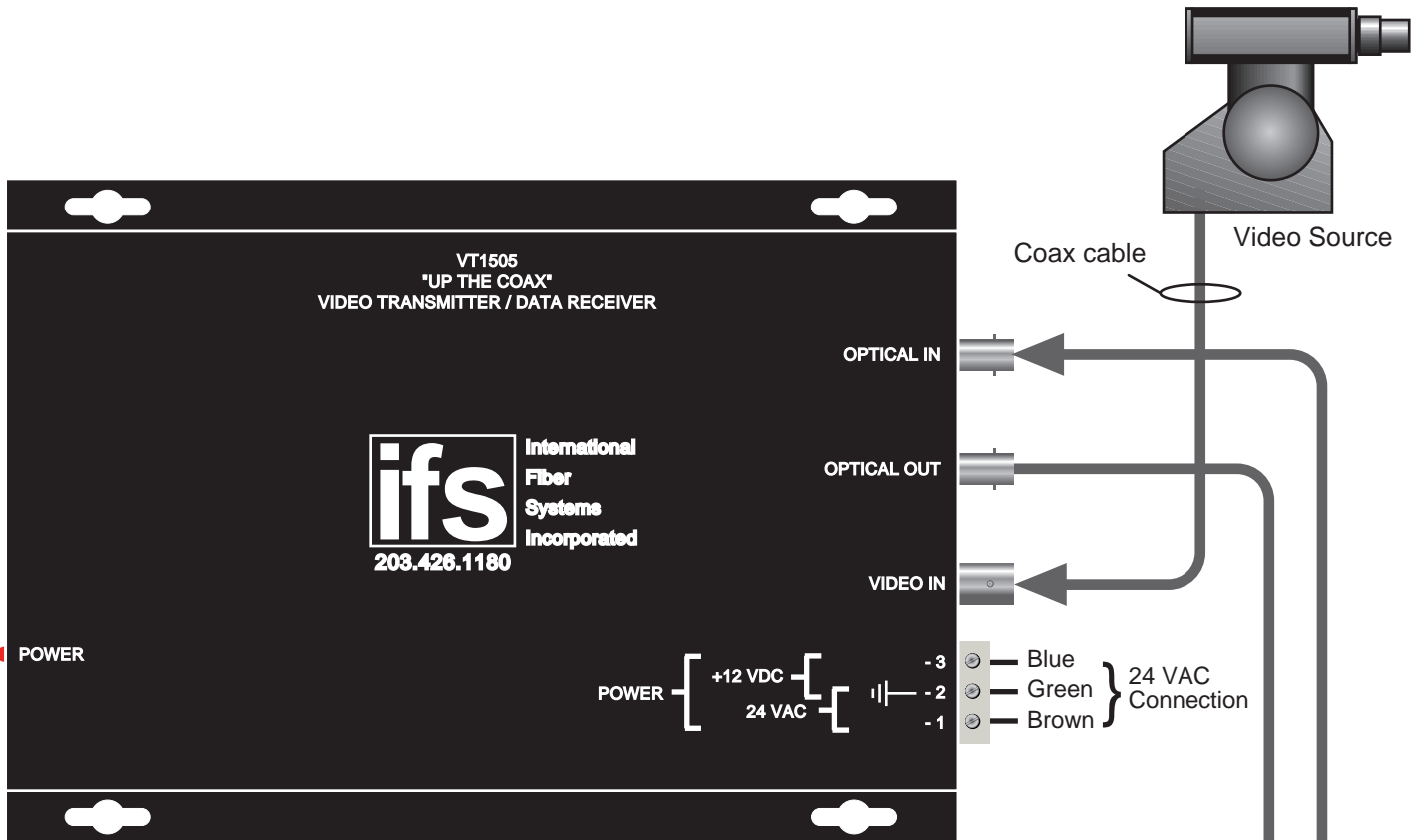
VT/VR1505 Rev: 1 08/21/98

MOUNTING STAND-ALONE UNITS

Hold the VT1505 or VR1505 series module against the mounting surface and mark the locations of the keyhole slots on the rear mounting brackets. Install mounting screws into keyhole marks, allowing leeway under the screw heads for the box to be mounted. Mount the brackets over the screws, slide, and tighten.

VIDEO LINK OPERATION

Make sure that power is applied to the VT1505 and VR1505 series modules, camera, and video monitor. Ensure that the camera and monitor are turned on, and that any lens cover on the camera has been removed. Verify that coaxial cables and fiber optic cable are properly connected (i.e., the same fiber connects to the video input and output on transmitter and receiver). Successful link operation should be visible at this point as witnessed by a good quality video picture on the monitor.



Note: To verify the number of fiber optic cables, and fiber optic cable types of other models within this series, check the compatibility chart and part number description sections within this manual.

International Fiber Systems, Inc.
LIFETIME WARRANTY

INTERNATIONAL FIBER SYSTEMS, INC. (IFS) warrants to the original purchaser that all IFS manufactured products shall be free from defects in material or workmanship at the time of shipment.

LABOR AND PARTS: From the date of purchase to the original user, if this product is determined to be defective, IFS will repair or replace the product at no charge.

Our obligation under this warranty is limited only to the repair or replacement of any of our products, providing said products are used within the specified ratings and applications, and said products are applied in accordance with good engineering practices, and providing said products are proved by our examination to be defective.

This warranty does not extend to any IFS products which have been subject to acts of God, accident, misuse, abuse, neglect, improper application or installation, improper operation or maintenance, connection to an improper voltage supply or to materials which have been altered or repaired outside of an authorized IFS factory repair center.

This warranty shall constitute the fulfillment of IFS' liability. IFS shall not be liable for any incidental or consequential damages or breach of any express or implied warranty on this product, except to the extent prohibited by applicable law. Any implied warranty of merchantability or fitness for a particular purpose of this product is limited in duration to the duration of this warranty.

Exclusions:

Power transformers, batteries, or cosmetic damage.

