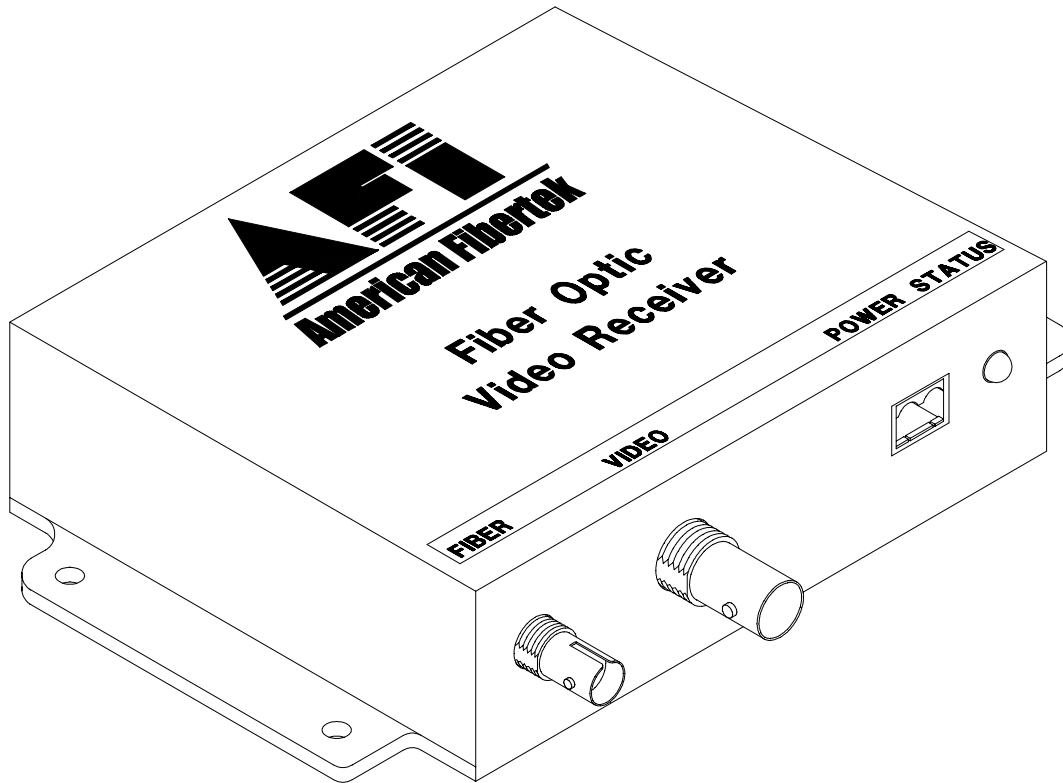




120 Belmont Drive
Somerset, NJ 08873-1204

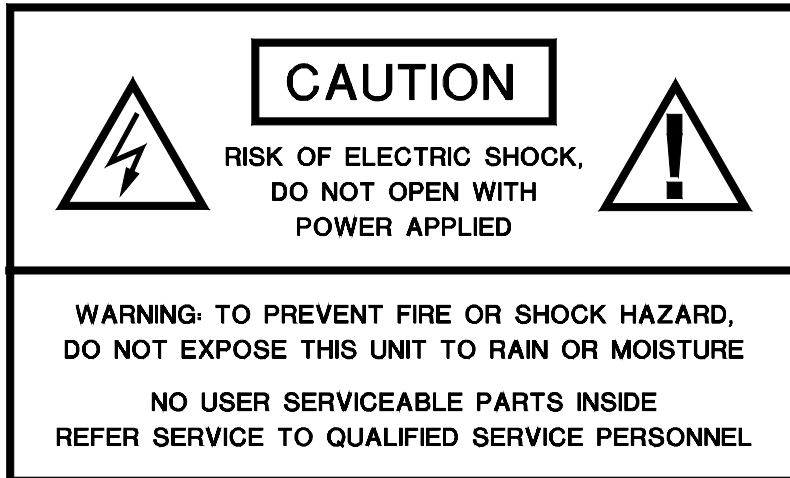
American Fibertek

Phone: 732.302.0660 Fax: 732.302.0667



Instruction Manual

MR-10 Video Receiver



INSTALLATION AND OPERATION INSTRUCTIONS

INTRODUCTION

Thank you for purchasing your American Fibertek MR-10 multimode video receiver. Please take a few minutes to read these installation instructions in order to obtain the maximum performance from this product.

FUNCTIONAL DESCRIPTION

The MR-10 operates as half of a transmitter / receiver pair for the transmission of baseband NTSC, PAL, RS170, or RS343 video signals over a single multimode fiber optic cable. It is designed to operate with the MT-1, MT-10, RT-10, or RT-20 video transmitter. The RT-20 contains the electronics and optics of two RT-10 units mounted on one printed circuit board to save space and reduce cost.

The MR-10 converts a single AM modulated optical input into a single video output using an 850 nm wavelength detector. The 1,10, and 20 Series product is designed to operate over an optical loss budget range of 0 to 17 dB. The MR-10 operates on 50 um or 62.5 um multimode fiber. Refer to the data sheets for detailed performance specifications.

This unit is contained in a compact and rugged aluminum housing with internal dc voltage regulation. The detachable terminal block and LED indicator provide for easy installation and monitoring of video and ac power.

The MR-10 is designed for mounting as a modular stand alone unit. For a rack mounted version please see the RR-10 or the RR-20.

INSTALLATION

THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO THE NATIONAL ELECTRICAL CODE, ANSI/NFPA 70 AND LOCAL CODES.

Mount the unit to a secure surface using #8 (3mm) hardware in four places. See the drawing at the bottom of this page for mounting dimensions. Be sure to allow sufficient room for the required minimum bend radius of the fiber cable used.

POWER SOURCE

THIS PRODUCT SHALL BE POWERED BY A LISTED CLASS 2 POWER SUPPLY ONLY.

This unit requires a 24 VAC power source with an isolated output for proper operation. In the USA and in Canada an American Fibertek PS-24 is supplied with this unit. ANSI/NFPA 70 Class 2 wiring is recommended.

POWER CONNECTION

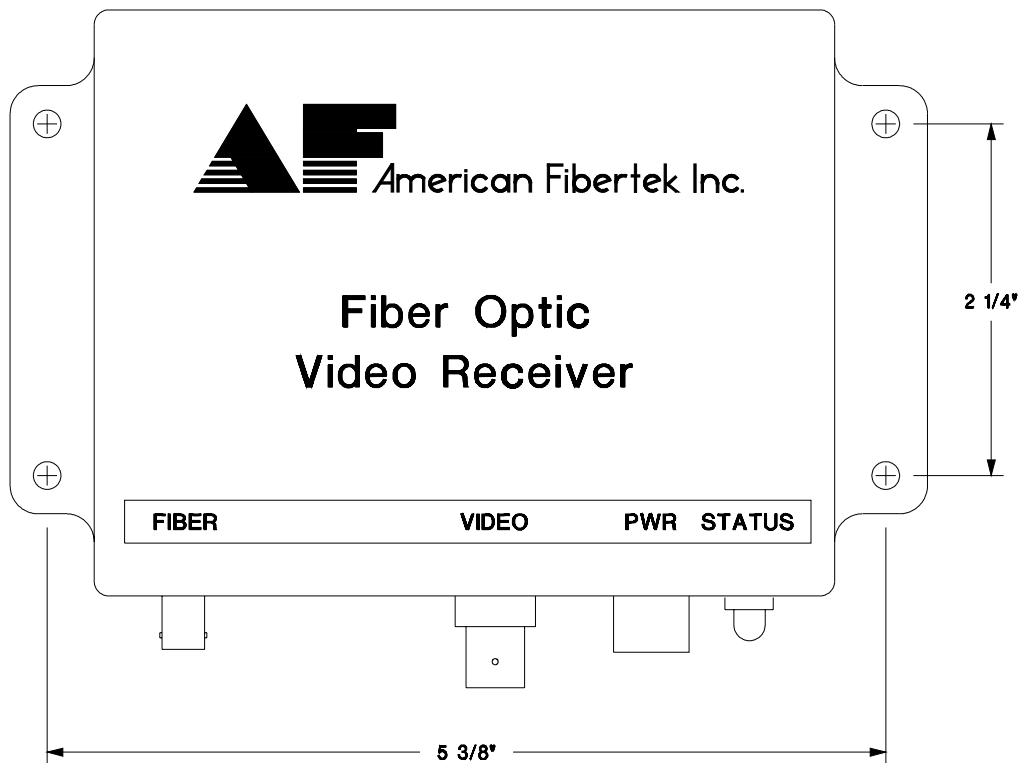
Power is supplied to the unit via a two pin terminal connector. See the labeling on the unit and the drawing on the next page for proper location of the 24 volt ac input.

FIBER CONNECTION

The fiber optic connection is made via a ST connector located on the side of the unit.

VIDEO OUTPUT CONNECTION

The video output connection is made via a BNC connector on the side of the unit. The 75Ω video output can be looped through typical baseband video inputs of switchers, recorders and other equipment as required. For proper operation, the output must be terminated with 75Ω. For optimum performance the video cables should be the shortest length of coax practical.



MR-10 STATUS INDICATOR

The MR-10 receiver provides the following LED status indicator to aid in installation and troubleshooting:

STATUS

A bi-color LED indicator monitors the optical input power of the video signal that is being received at the MR-10 from the MT-1, MT-10, RT-10, or RT-20. AC power and optical input status associated with this LED are summarized below.

Status Indicator	AC Power Status	Optical Status
Green	On	Proper Optical Input Power Present
Red	On	Optical Input Not Detected
Off	Off	Check Power Supply Input

LIFETIME WARRANTY INFORMATION

American Fibertek, Inc warrants that at the time of delivery the products delivered will be free of defects in materials and workmanship. Defective products will be repaired or replaced at the exclusive option of American Fibertek. A Return Material Authorization (RMA) number is required to send the products back in case of return. All returns must be shipped prepaid. This warranty is void if the products have been tampered with. This warranty shall be construed in accordance with New Jersey law and the courts of New Jersey shall have exclusive jurisdiction over this contract. **EXCEPT FOR THE FOREGOING WARRANTY, THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, EXPRESSED OR IMPLIED, WHICH EXTENDS BEYOND THE WARRANTY SET FORTH IN THIS AGREEMENT.** In any event, American Fibertek will not be responsible or liable for contingent, consequential, or incidental damages. No agreement or understanding, expressed or implied, except as set forth in this warranty, will be binding upon American Fibertek unless in writing, signed by a duly authorized officer of American Fibertek.

SERVICE INFORMATION

There are no user serviceable parts inside the unit.

In the event that service is required to this unit, please direct all inquiries to:

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120 Belmont Drive
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