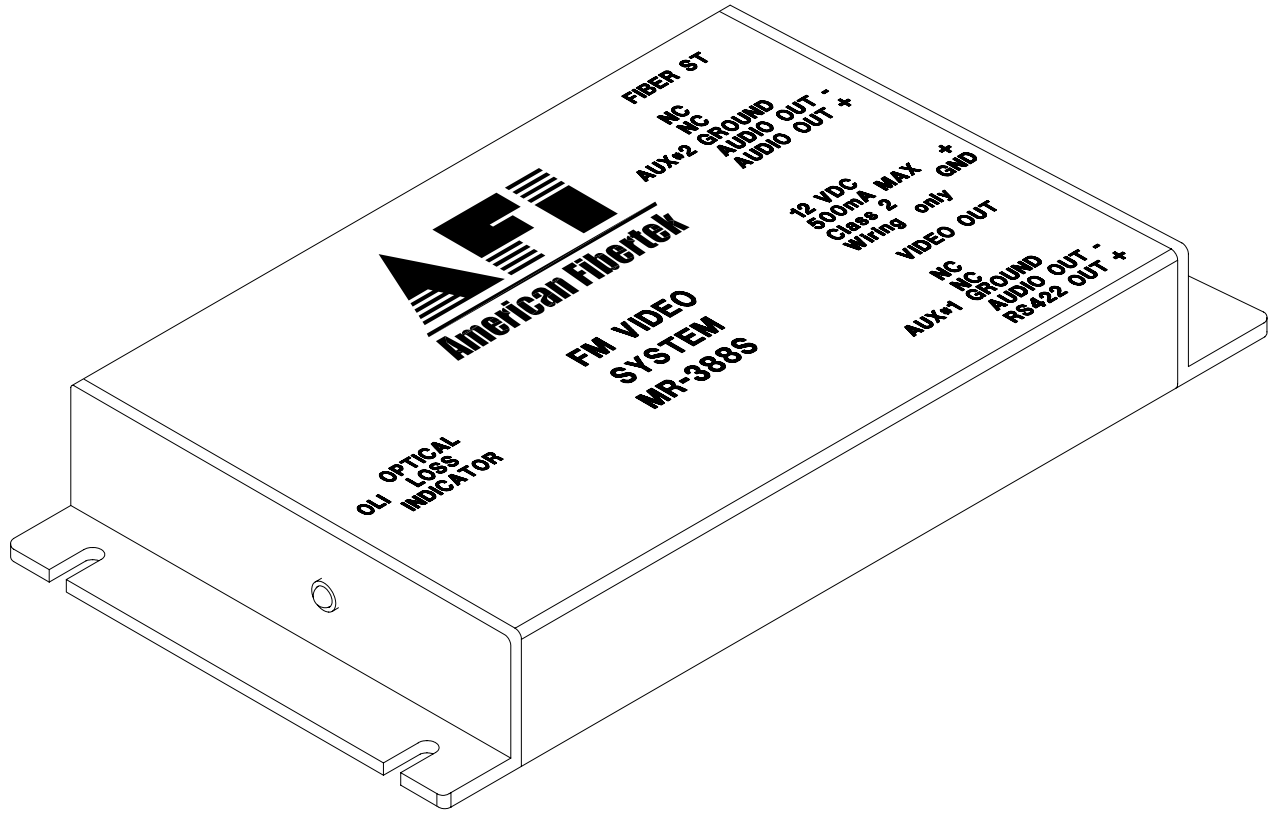




120 Belmont Drive
Somerset, NJ 08873-1204

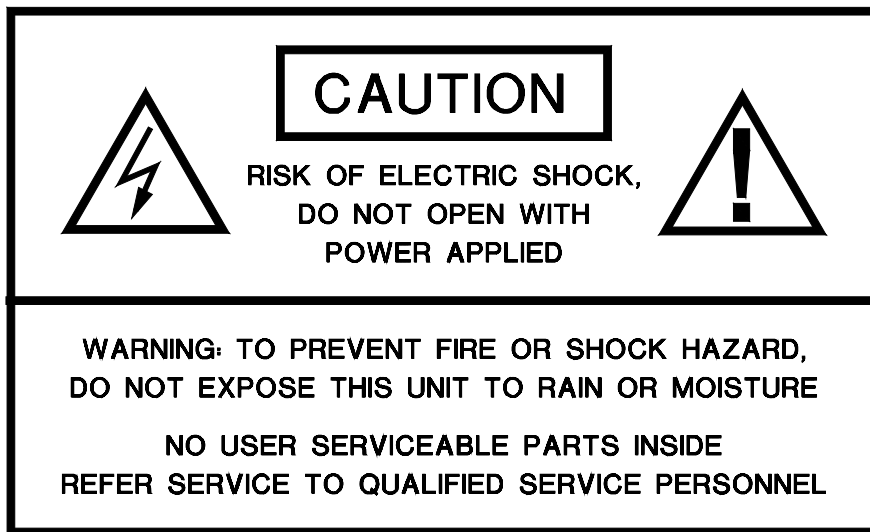
American Fibertek

Phone: 732.302.0660 Fax: 732.302.0667



Instruction Manual

MR-388S Video Receiver With Two Channels of Audio



INSTALLATION AND OPERATION INSTRUCTIONS

INTRODUCTION

Thank you for purchasing your American Fibertek MR-388S singlemode video/audio 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-388S operates as half of a transmitter/receiver pair for the transmission of a one way baseband NTSC, PAL, RS170, or RS343 video signal with two channels of one way audio. It is designed to operate with the MT-388S or RT-388S video/audio transmitter over one singlemode fiber optic cable.

The MR-388S converts an optical input signal into a single video output and two separate audio outputs using an 1300 nm wavelength detector. The 388S Series product is designed to operate over an optical loss budget range of 0 to 16 dB. The MR-388S operates on 9 um singlemode 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 blocks and LED indicator provide for easy installation and monitoring of video/audio and dc power.

The MR-388S is designed for mounting as a modular stand alone unit. For a rack mounted version please see the RR-388S.

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 on the next 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 12 volt DC power source for proper operation. In the USA and in Canada an American Fibertek PS-12 is supplied with this unit. ANSI/NFPA 70 Class 2 wiring is recommended.

POWER CONNECTION

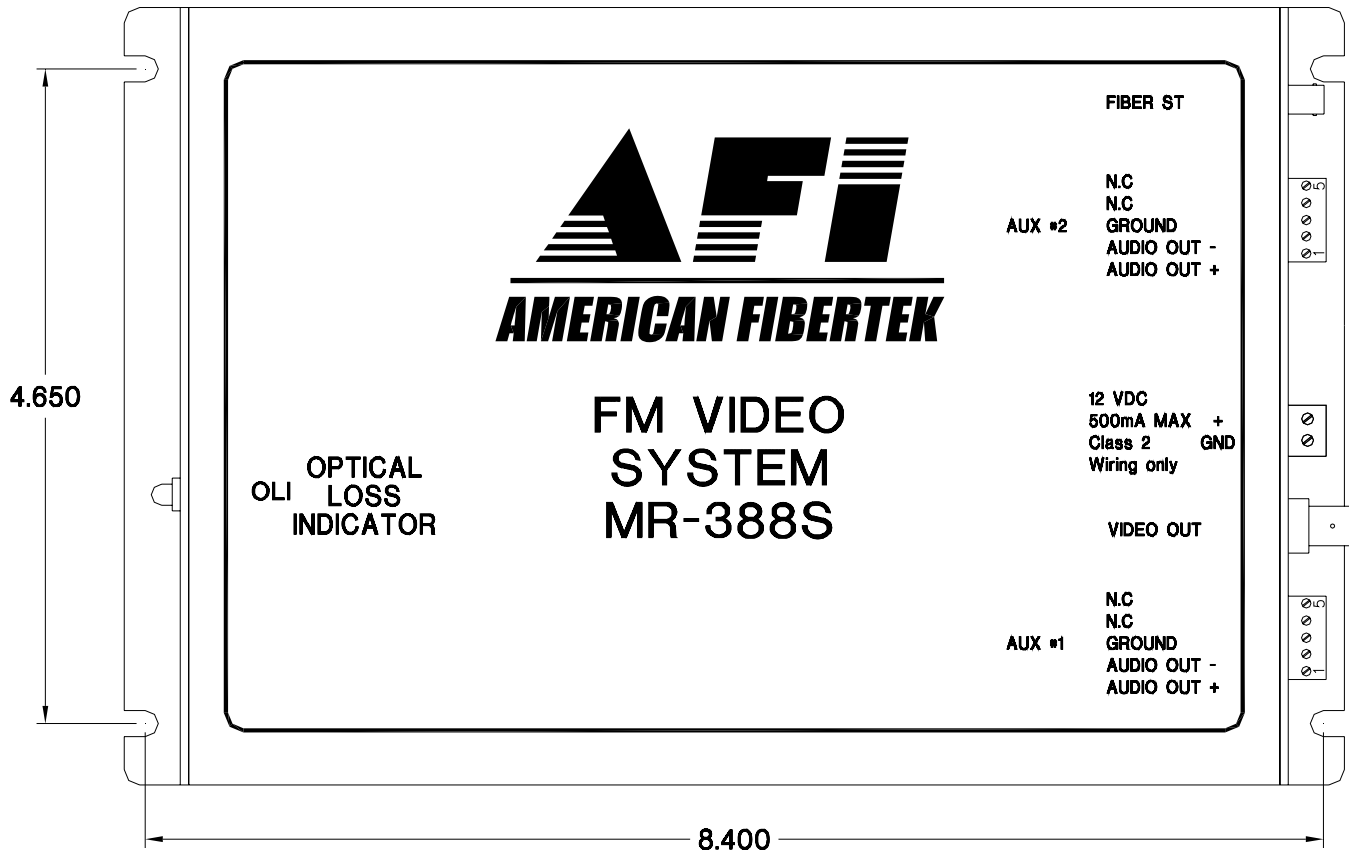
Power is supplied to the unit via a two pin terminal connector on the side of the unit. See label on unit for proper location of input power.

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. For proper operation, the output must be terminated with 75Ω. For optimum performance the video cables should be the shortest length of coax practical.



AUDIO OUTPUT LEVELS

The audio output signal appears on both the plus and minus terminals of this unit. Half of the signal appears on each output terminal. The two outputs are 180° out of phase. The balanced output impedance is 600 Ohms while the unbalanced output impedance is 300 Ohms. The output signal level will be half of the input level (-6dB) in an unbalanced configuration.

AUDIO OUTPUT CONNECTIONS

Audio output connections are made via terminal blocks on the side of the unit. In a balanced audio configuration, the output connection is made across both the plus and the minus terminals. To connect unbalanced, the plus output terminal is used for the audio connection, along with the ground terminal. Please note that Audio In on the MR-388S becomes Audio Out on the MT-388S or RT-388S after going across the fiber. For optimum performance the audio cables should be the shortest length of wire practical.

MR-388S STATUS INDICATOR

The MR-388S provides the following LED status indicator to aid in installation and troubleshooting:

OLI

A bi-color LED indicator monitors the optical input power of the video/audio signal that is being received at the MR-388S from the MT-388S or the RT-388S. Internal DC power and optical input status associated with this LED are summarized below.

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

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:

American Fibertek, Inc.
120 Belmont Drive
Somerset, NJ 08873

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Phone: (732) 302-0660
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