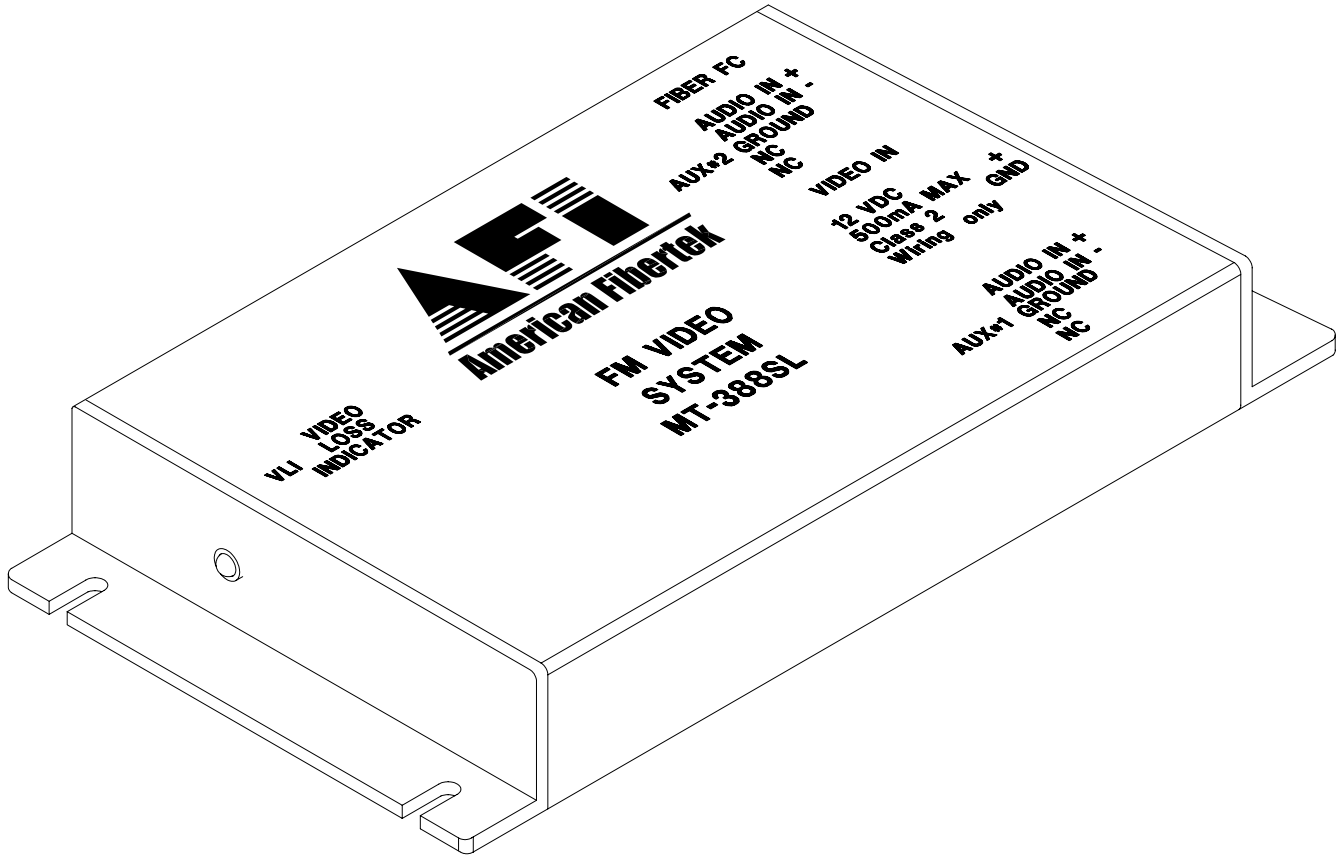




120 Belmont Drive
Somerset, NJ 08873-1204

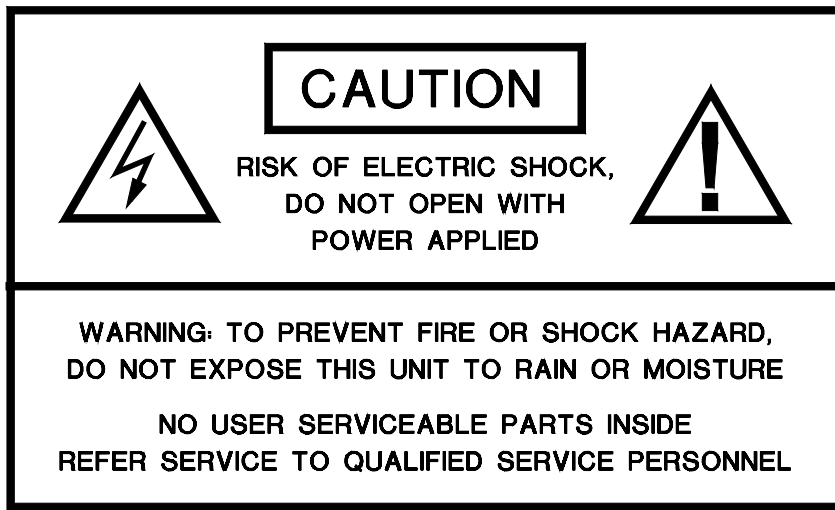
American Fibertek

Phone: 732.302.0660 Fax: 732.302.0667



Instruction Manual

MT-388SL Video Transmitter With Two Channels of Audio



INSTALLATION AND OPERATION INSTRUCTIONS

INTRODUCTION

Thank you for purchasing your American Fibertek MT-388SL singlemode video/audio transmitter. Please take a few minutes to read these installation instructions in order to obtain the maximum performance from this product.

FUNCTIONAL DESCRIPTION

The MT-388SL operates as half of a transmitter/receiver pair for the transmission of a one way baseband NTSC, PAL, RS170, or RS343 video signals along with two channels of one way audio. It is designed to operate with the MR-388SL or RR-388SL video/audio receiver over one singlemode fiber optic cable.

The MT-388SL converts a single video input and two separate audio inputs into an optical output using a 1300 nm wavelength source. The 388SL Series product is designed to operate over an optical loss budget range of 0 to 21 dB. The MT-388SL 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 power.

The MT-388SL is designed for mounting as a modular stand alone unit. For a rack mounted version please see the RT-388SL.

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

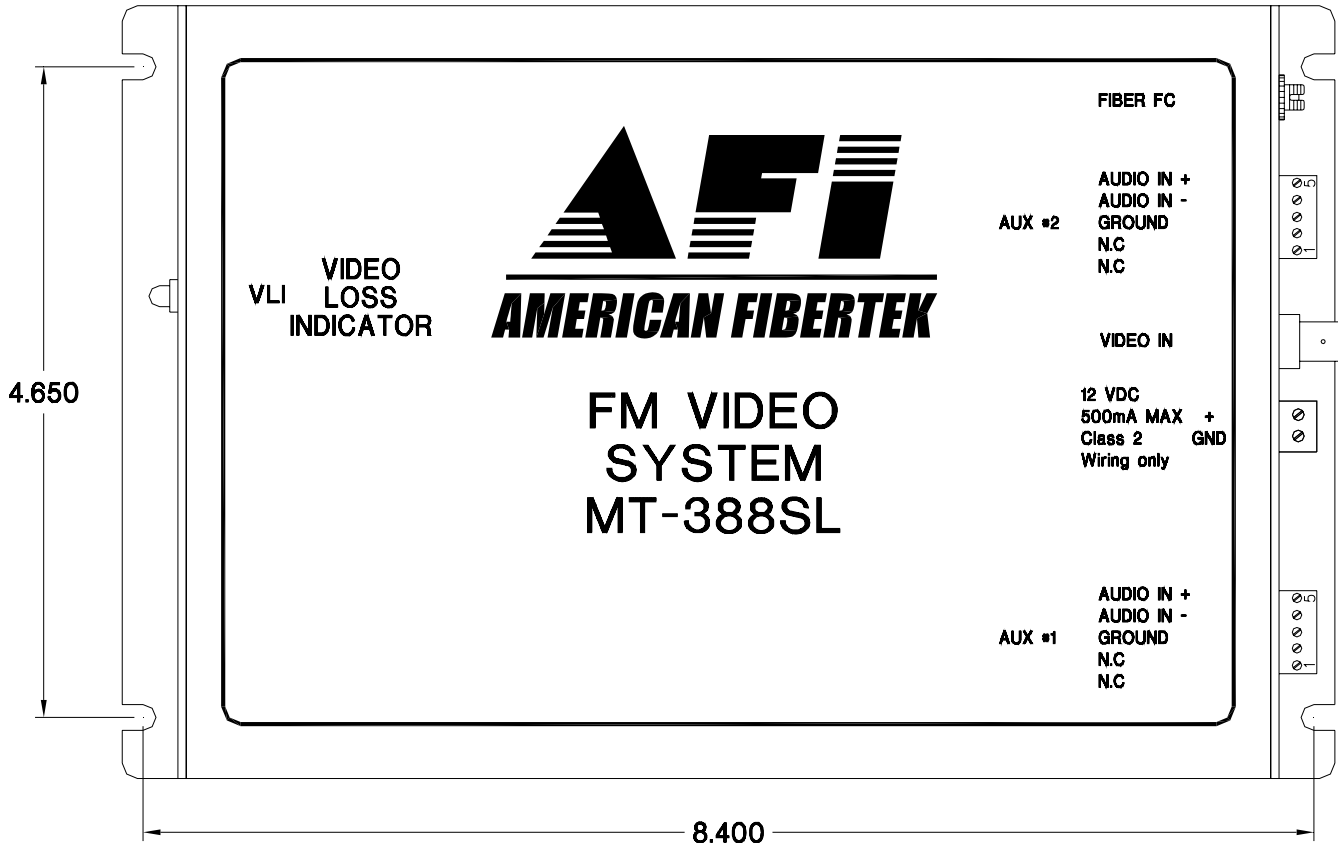
Power is supplied to the unit via a two pin terminal connector on the side of the unit. See label on unit for proper location of input power.

FIBER CONNECTION

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

VIDEO INPUT CONNECTION

The video input connection is made via a BNC connector on the side of the unit. The video input should be connected to an appropriate 75Ω baseband video source such as a camera or a video recorder output. 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 INPUT LEVELS

The ideal audio input level is 0dBm₆₀₀. (This is 1mW across the 600 Ohm input impedance.) On a voltage basis, this is equal to 0dBV or 2.19 Vp-p. Higher input levels will cause increased distortion. Up to +3dBm, the distortion will increase a small amount. Above this level the distortion will increase rapidly. Lower input signal levels will reduce the signal to noise ratio. In either balanced or unbalanced configuration, the input impedance is 600 Ohms.

AUDIO INPUT CONNECTIONS

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

MT-388SL STATUS INDICATOR

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

VLI

A bi-color LED indicator is provided for the video input to the MT-388SL. Internal DC power and video status associated with this LED is summarized below.

Video Presence LED	DC Power Status	Video Status
Green	On	Proper Input Video Present
Red	On	Input Video 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:

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

Phone: (877) 234-7200
Phone: (732) 302-0660
FAX (732) 302-0667

E-mail: techinfo@americanfibertek.com