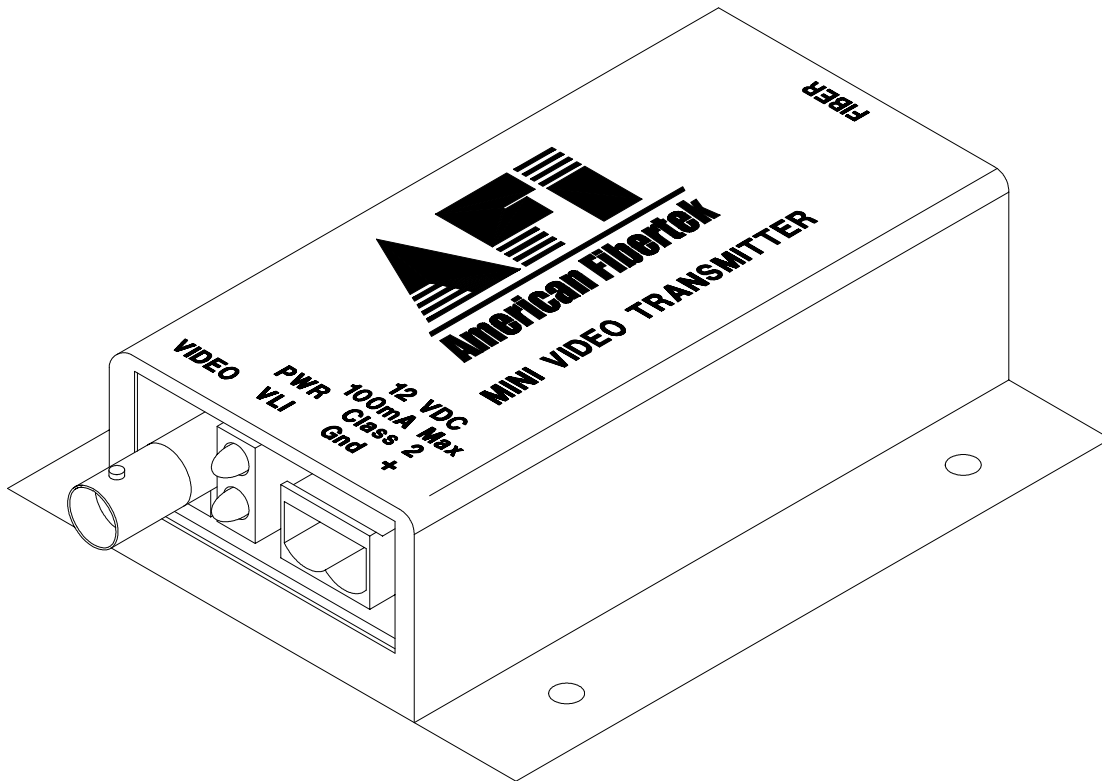




120 Belmont Drive  
Somerset, NJ 08873-1204

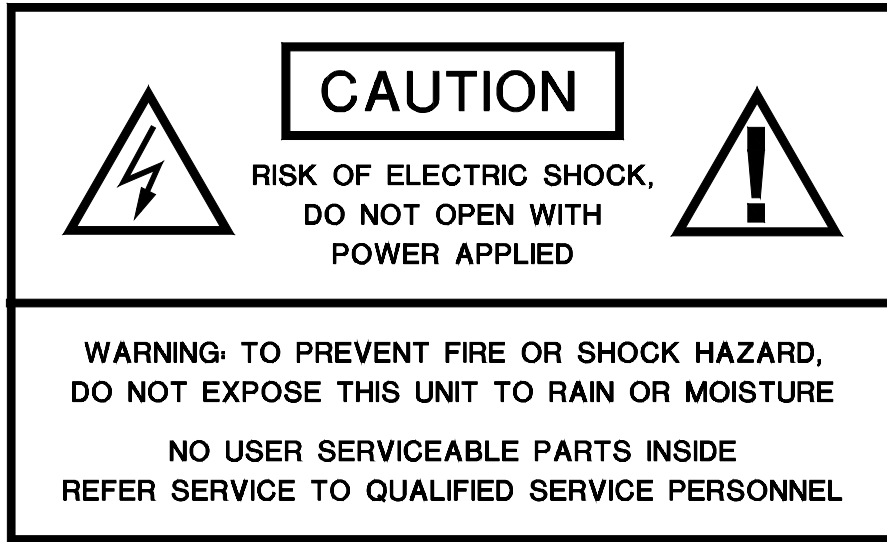
**American Fibertek**

Phone: 732.302.0660 Fax: 732.302.0667



## Instruction Manual

### MTM-300 Mini Video Transmitter



## INSTALLATION AND OPERATION INSTRUCTIONS

### INTRODUCTION

Thank you for purchasing your American Fibertek MTM-300 multimode mini video transmitter. Please take a few minutes to read these installation instructions in order to obtain the maximum performance from this product.

### FUNCTIONAL DESCRIPTION

The MTM-300 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 MRM-300, RRM-300, or RRM-33 video receiver. The RRM-33 contains the electronics and optics of three RRM-300 units mounted on one printed circuit board to save space and reduce cost.

The MTM-300 converts a single video input into a single FM modulated optical output using a 1300 nm wavelength source. The M300 Series product is designed to operate over an optical loss budget range of 0 to 12 dB. The MTM-300 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 indicators provide for easy installation and monitoring of video and dc power.

The MTM-300 is designed for mounting as a modular stand alone unit. For a rack mounted version please see the RTM-300 or the RTM-33.

## 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.

The unit requires a +12VDC power source for proper operation. The DC input is diode protected. Current draw is approximately 100mA maximum. In the USA and in Canada an American Fibertek PS-12 is supplied with this unit. The negative side of the power input is directly connected to ground. ANSI/NFPA 70 Class 2 wiring is recommended.

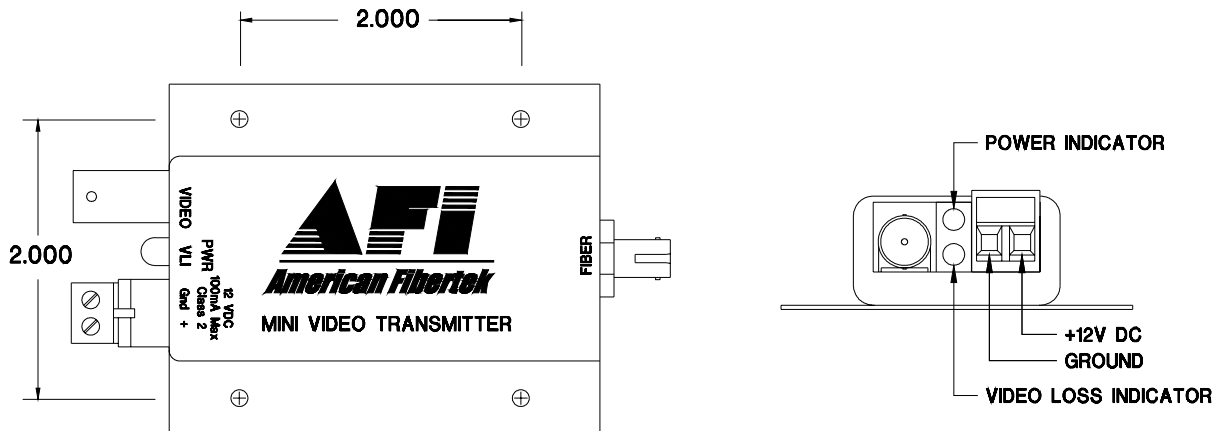
## POWER CONNECTION

Power is supplied to the unit via a two pin terminal connector. Follow label on unit for proper orientation of +12 volt dc and ground.

## INPUT / OUTPUT CONNECTIONS

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

The video input connection is made via a BNC connector on the left 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. For optimum performance the video cables should be the shortest length of coax practical.



### MTM-300 STATUS INDICATORS

The MTM-300 transmitter provides the following LED status indicators to aid in installation and troubleshooting:

#### POWER

A green LED indicator monitors the internal dc voltage created within the MTM-300. Power status associated with this LED is summarized below.

Power Indicator	Power Status
Green	Voltage Present
Off	Voltage Not Present

#### VLI

A green LED indicator is provided for the video input to the MTM-300. Video status associated with this LED is summarized below.

Video Level Indicator	Video Status
Green	Proper Input Video Present
Off	Input Video Not Detected

### 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  
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Phone: (877) 234-7200  
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