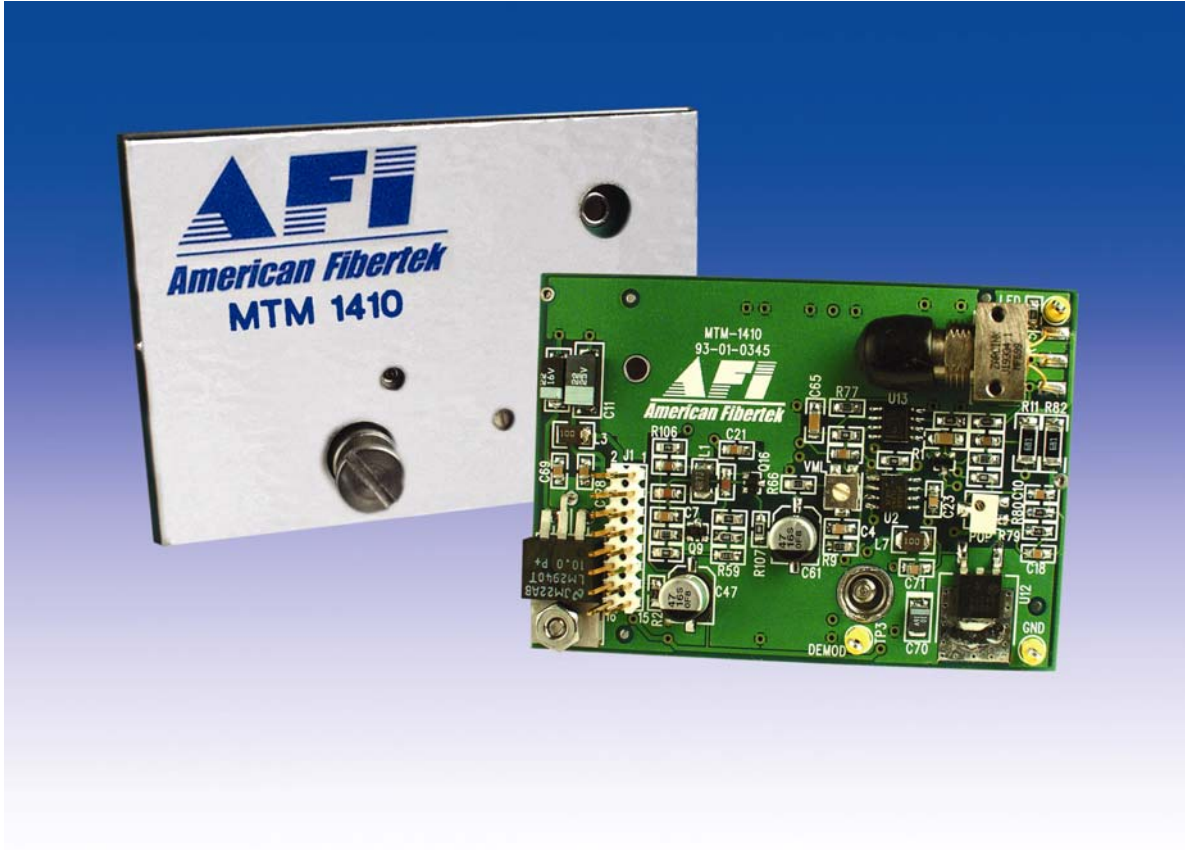




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Instruction Manual

MTM-1410 Video Transmitter With RS422 Control Data

INSTALLATION AND OPERATION INSTRUCTIONS

INTRODUCTION

Thank you for purchasing your American Fibertek MTM-1410 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-1410 operates as half of a transmitter / receiver pair for the transmission of baseband NTSC, PAL, RS170, or RS343 video signals and return RS422 control data for Pelco Spectra III camera systems. It is designed to operate with the MRM-1410, the RRM-1410, or the RRM-1420 video receiver over a single multimode fiber optic cable.

The MTM-1410 converts a single video input into a FM modulated optical output using a 1300 nm wavelength source. The MTM-1410 also converts an optical control signal returning on the same fiber into an electronic camera control signal using an 850 nm wavelength detector. The MTM-1410 is designed to operate over an optical loss budget range of 0 to 10 dB. The MTM-1410 operates on 50 um or 62.5 um multimode fiber. Refer to the data sheets for detailed performance specifications.

The MTM-1410 is designed for mounting as a modular stand alone unit within the Pelco Spectra III Back Box. For a rack mounted version please see the RTM-1400.

INSTALLATION

THE INSTALLATION OF THIS UNIT SHOULD BE MADE BY A QUALIFIED SERVICE PERSON(S) AND MUST CONFORM TO ALL LOCAL CODES.

This unit comes with a factory installed non-conductive ST style fiber patchcord. Replacement of this patchcord with a cable using a metallic ST connector will result in damage to the back box circuit board and possibly the MTM-1410. **(SEE ADDITIONAL IMPORTANT NOTICE ON NEXT PAGE)**. Remove sixteen pin jumper from J4/ translator connector on printed circuit board located in the back box of the Pelco Spectra III dome. Line up the 16 pin connector block of the MTM-1410 to fit in place of this J4 jumper. Insert pins into socket and tighten the screw on the MTM-1410 unit into the white post extending from the back box board. Verify that power and fiber cables move freely after tightening screw. Dress the fiber cable toward the open space between the black plastic dome enclosure and the outside metal housing directly opposite the housing fan (see picture next page). GENTLY close the back box card into the top of the back box housing while observing fiber cable to insure fiber is not bent beyond minimum bend radius of one inch. While not required, removing the unused coax cable connection from plug J8 along with any unused terminal blocks in plugs P4 and P5 may assist in a better fit of the printed circuit board into the back box.

POWER CONNECTION

This unit receives its power from the Spectra III unit. No other external power source is required. Power is supplied to the unit via the sixteen pin connector interface.

INPUT / OUTPUT CONNECTIONS

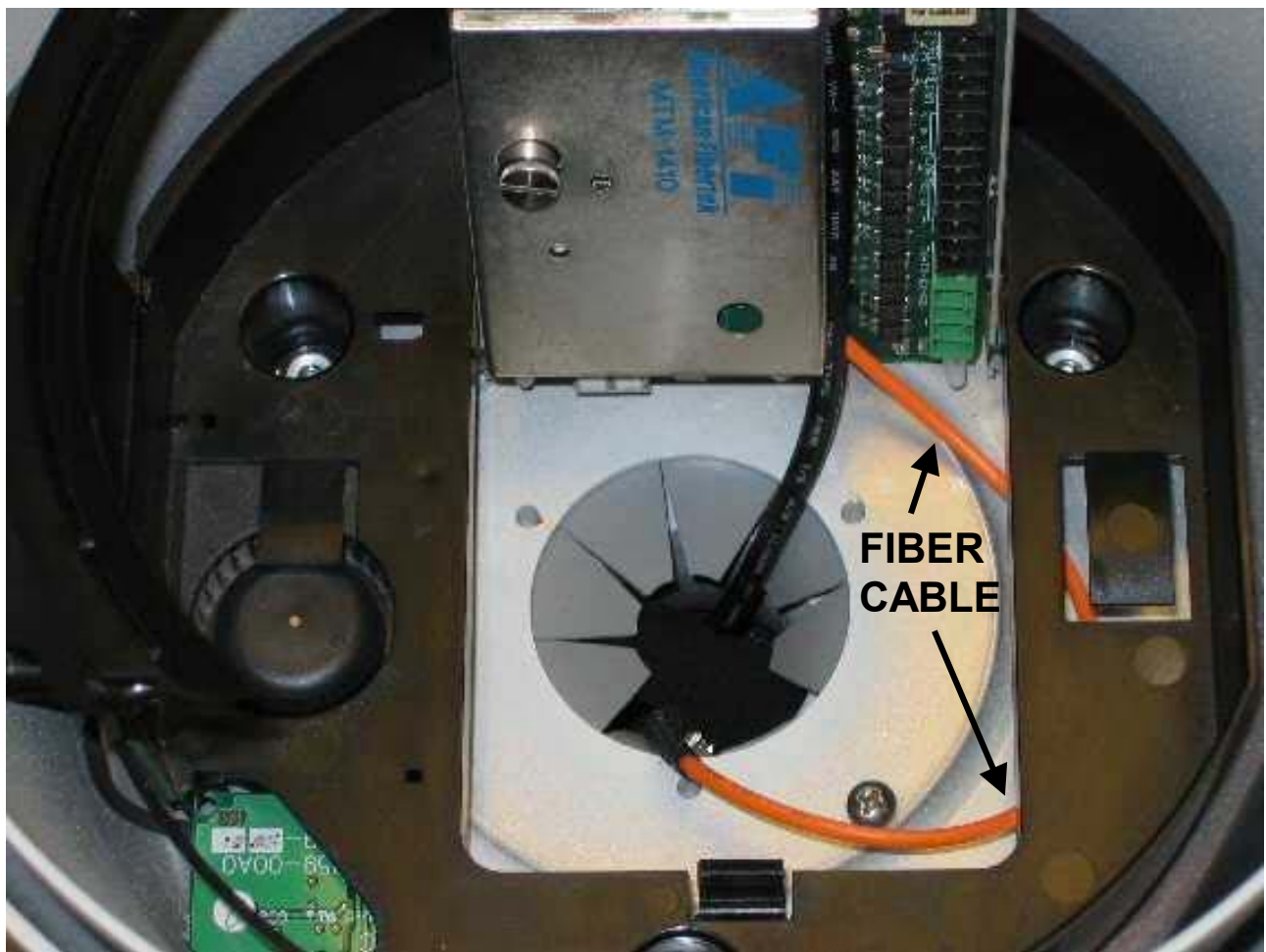
The fiber connection is made via a ST coupler at the end of the factory installed patchcord.

The video input and control data output connections are made via the sixteen pin connector on the back of the unit.

IMPORTANT NOTICE:

CONNECTING FIBER TO MTM-1410:

Due to recent changes made by Pelco to the circuit board in their back box, it is now necessary to insure the housing of the ST fiber connector is non-conductive. This is accomplished by including a factory installed non-metallic patchcord with each unit. Please do not remove this patchcord. Failure to use this patchcord when installing this unit in the back box will result in damage to the back box circuit board and possibly the MTM-1410.



MTM-1410 installed into back-box.
Note routing of fiber cable between black plastic dome enclosure and metal housing.



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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