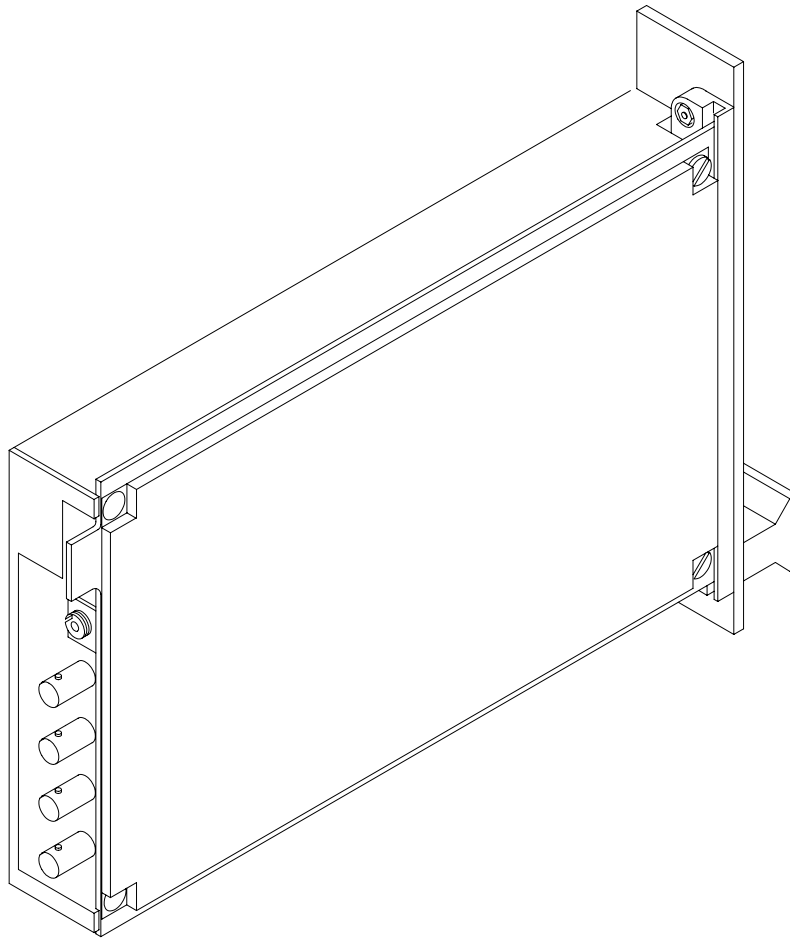




120 Belmont Drive
Somerset, NJ 08873-1204

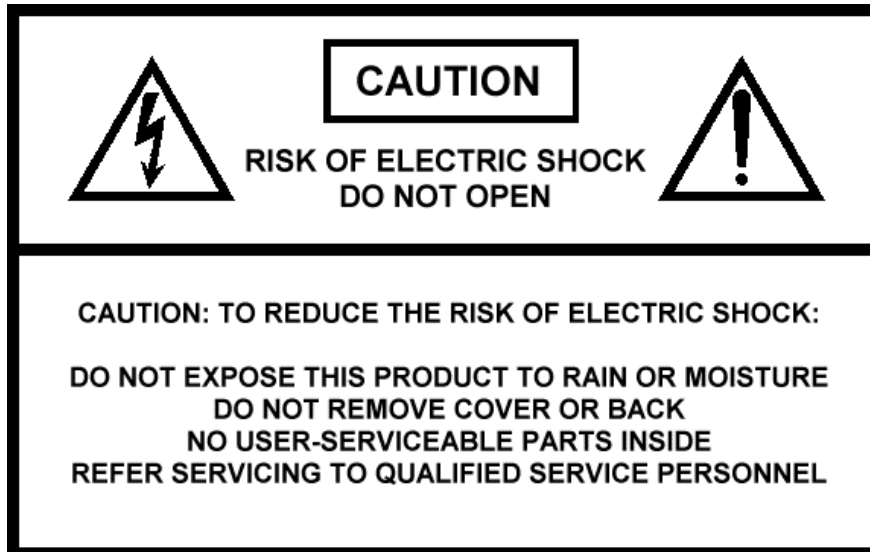
American Fibertek

Phone: 732.302.0660 Fax: 732.302.0667



Instruction Manual

RR-940D-SL Four Channel Video Receiver With Diagnostic Interface



**This unit complies with 21 CFR
1040.10 and 1040.11**

INSTALLATION AND OPERATION INSTRUCTIONS

INTRODUCTION

Thank you for purchasing your American Fibertek RR-940D-SL singlemode four channel video receiver with diagnostic interface. Please take a few minutes to read these installation instructions in order to obtain the maximum performance from this product.

FUNCTIONAL DESCRIPTION

The RR-940D-SL operates as half of a transmitter / receiver pair for the transmission of four channels of high performance 10 bit digital NTSC, PAL, RS170, or RS343 video signals. The RR-940D-SL is designed to operate with the RT-940D-SL video transmitter over one singlemode fiber optic cable. The 940D-SL Series product is designed to operate over an optical loss budget range of 0 to 21 dB. Refer to the data sheets for detailed performance specifications.

This unit is designed for rack mounting in the American Fibertek SR-20D/2 subrack. Slide in rack mounting, detachable terminal blocks, and LED indicators provide for easy installation and monitoring of video and optical power.

The RR-940D-SL has a built in capability to be remotely monitored through the AFINETY Remote Diagnostics System. A SR-20D/2 subrack and a RD-20D diagnostic card are required to facilitate this feature. Please refer to the SR-20D/2 and RD-20D Instruction Manuals for proper operation of this feature.

INSTALLATION

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

A maximum of seven 940D-SL units are recommended in one subrack. Forced air movement is required to dissipate heat in any installation containing seven or more 940D-SL units in one subrack.

POWER SOURCE

Power to the unit is supplied by the subrack. Please refer to the SR-20D and PSR-2 instructions for further details.

POWER CONNECTION

Power is supplied to the unit via a four finger backplane connector. The RR-940D-SL can be inserted into the subrack or removed from the subrack with power applied to the backplane.

FIBER CONNECTION

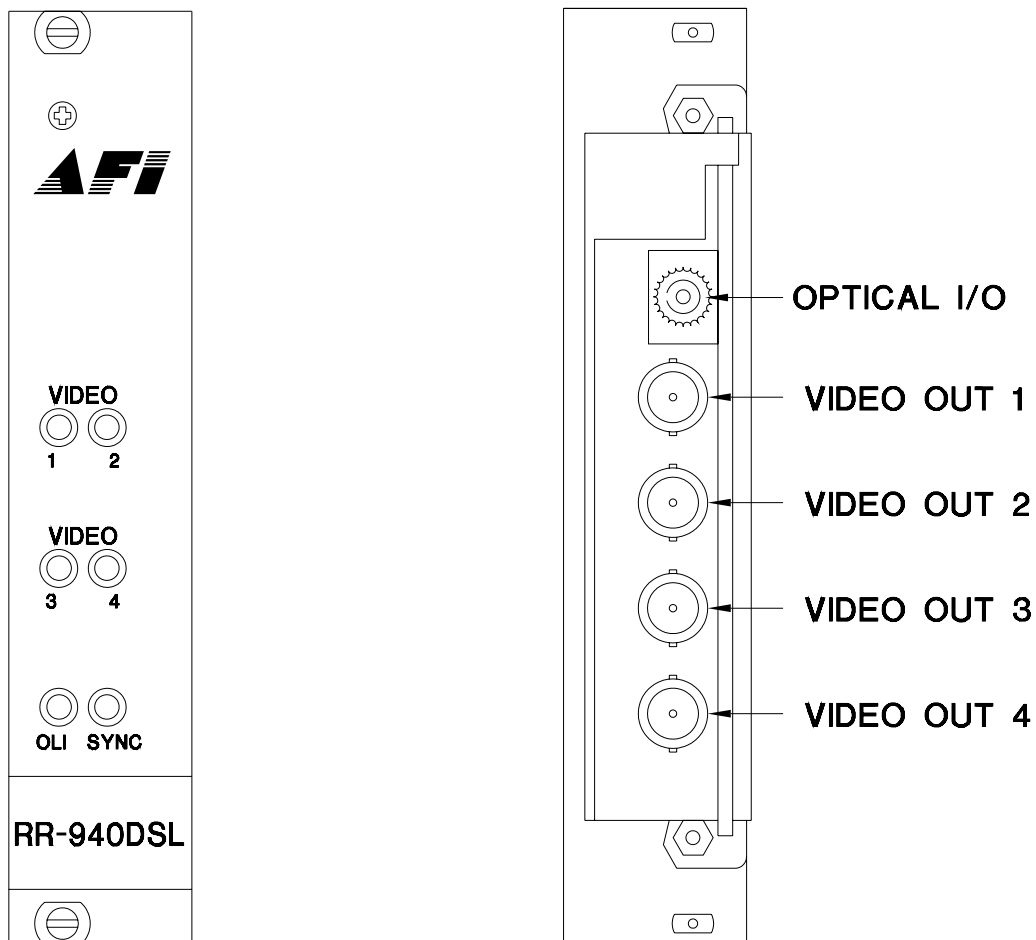
The fiber optic connection is made via a FC/PC connector located on the back of the unit. Be sure to allow sufficient room for the required minimum bend radius of the fiber cable used.

VIDEO OUTPUT CONNECTIONS

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

RR-940D-SL STATUS INDICATORS

The RR-940D-SL receiver provides the following LED status indicators described on the next page to aid in installation and troubleshooting:



VIDEO 1 THROUGH VIDEO 4

A bi-color LED indicator is provided for each of the four video outputs of the RR-940D-SL. DC power and video status associated with each of these LED's are summarized below.

Video Presence LED	DC Power Status	Video Status
Green	On	Proper Output Video Present
Red	On	Output Video Not Detected
Off	Off	Check Power Supply

OLI

A bi-color LED indicator monitors the optical input power of the data signal that is being received at the RR-940D-SL from the RT-940D-SL. 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

SYNC

A bi-color LED indicator is provided to monitor the proper serialization of the optical data stream through the RR-940D-SL and out to the electronic interface. Sync status associated with this LED is summarized below.

Sync LED	DC Power Status	Sync Status
Green	On	Proper Data Stream Serialization Present
Red	On	Data Stream Serialization 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
Somerset, NJ 08873

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