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# INSTALLATION AND OPERATING INSTRUCTIONS
# PR-160 / 170 / 180 R -0, -1, -2

## DESCRIPTION

The PR-160/170/180R-0, -1, -2 is a card fiber optic receiver that converts (FM) frequency modulated light to 75 Ohm composite video and up to three additional signals : maximum two (2) audio signals as 600 Ohm, 10 kOhm or 47 kOhm (bal or unbal) and 1 data; one (1) audio and two (2) data; or up to three (3) data from an optical cable.

## SYSTEM COMPATIBILITY

The PR-160/170/180R-0, -1, -2 is compatible with PAL, SECAM, and NTSC EIA RS-170 and RS-343A video, audio and data.

Meridian Technologies PR-160/170/180R-0, -1, -2 receiver cards are compatible with stand alone PT-160/170/180M-0, -1, -2 transmitter modules and PT-160/170/180R-0, -1, -2 transmitter cards. Selection depends on features and installation requirements. -0 indicates 850nm multimode, -1 indicates 1300nm multimode; -2 indicates singlemode.

## INSTALLATION

To install the PR-160/170/180R-0, -1, -2, it is necessary to allow enough space to accommodate the bend radius of the optical cable connected to it. The unit requires as short as practical a BNC terminated coaxial cable to output the video signal. Audio/Data output is via DE15 (15 pin) connector - see pin out on p. 3.

Series 160/170/180 cards occupy one slot; two knurled captive screws (on top and bottom of front panel) secures each card to the desk chassis or subrack. There is a globe on the upper portion of same front panel which indicates the top to bottom orientation. The front panel also features a power on LED on the left side of the globe. Each card incorporates two fuses for short circuit protection.

WARNING: A FULLY LOADED SUBRACK REQUIRES FORCED AIR COOLING. TO AVOID OVER HEATING OF CARD UNITS, WHENEVER POSSIBLE, INSTALL IN EVERY OTHER SLOT. A fan assembly tray (P/N FA-2000) with three (3) fans is available and should be installed under the 19" SR-2000/1 or SR-4000/1.

## AUDIO

There are adjusting potentiometers for the output of each of the two audio channels. Adjustments can be made from -6 dBm to +6 dBm from left to right.

**STATUS INDICATORS**

There are four (4) LEDs on the lower portion of the front panel of the PR-160/170/180R card providing output status as follows:

RED Color on Output (Receive)

| | |
|---|---|
| LED #1 | Video present |
| LED #2 | Audio over modulation >0 dBm or Data Present |
| LED #3 | Audio over modulation >0 dBm or Data Present |
| LED #4 | Data Present |

**ALARM DIAGNOSTICS**

There are no alarm diagnostic indicators on the front panel of the Series 160/170/180R cards. Units feature extensive diagnostics only when ordered with the SR-2000 or SR-4000 Command Center subracks and SpectraSmart software. For additional information see SpectraSmart manual.

**POWER SUPPLY**

The unit is powered by a plugin power supply that is offered with the appropriate desk chassis or EIA 19" subrack.

**STAND ALONE**

The unit may be converted to a stand alone module when installing into an SR-500/S. The SR-500/S may operate on 24VAC only. A second version called SR-500/SE9 may be utilized with either 24VAC or regulated 12VDC (Meridian P/Ns are WP-24A and WP-12D3 respectively).

**PINOUTS**

There is one DE15 (15 pin) connector on the front panels of the PR-160/170/180R-0, -1, -2 card. Pinout is given on the following page.

## Caution: do not look into optical ports with power on.

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