

WARRANTY & LIABILITY

All fiber optic transmission systems, products and accessories manufactured by Liteway, Inc. and its subsidiaries are fully tested prior to shipment and are warranted against defective materials and workmanship for a period of Five full years from the date of the original shipment. Should a problem occur, a Return Material Authorization Number (RMA) must be obtained from Liteway Inc. at www.liteway.com and the item returned to a USA Liteway, Inc. Location prepaid. Liteway Inc. will then, at its option repair or replace the defective item.

Liteway, Inc. maximum liability under this warranty is limited to the cost of the defective item only. No contingent liabilities of any kind are either assumed or implied.

Any items returned to Liteway, Inc. that have been misused, abused, damaged, modified, connected or adjusted in any way contrary to the instructions furnished by Liteway, Inc. or repaired by unauthorized personnel will not be covered by this warranty. Any non-warranty repairs required will be quoted at the current rate for such services.



Important Notices



CAUTION ! AVOID DIRECT EXPOSURE TO BEAM.

All -5, -7, -8, and -9 Models use laser diodes. These solid-state laser diodes are located in the optical ports of these units. Laser diodes produce invisible radiation that may be harmful to human eyes. Never look directly into the optical port of any fiber optic unit designed to operate with single-mode optical fiber.

NOT FOR LIFE SUPPORT SYSTEMS

Liteway, Inc. does not authorize or warrant any of its standard products or accessories for use in critical life support systems or applications of any kind. Please contact us for this critical specialty equipment.

OPERATING INSTRUCTIONS

LuxLink® Fiber Optic Modulated IRIG Signal Distribution

**Models;
IRGM-1004,
IRGP-1004**



The IRGM-1004 is an optical transmitter that converts a modulated electrical IRIG A through E input signal into four individual optical output signals for distribution over separate fiber optic cables to IRGR-1001 receivers. The IRGP-1004 is a receiver/repeater for use in a modulated IRIG distribution network.

Technical Specifications

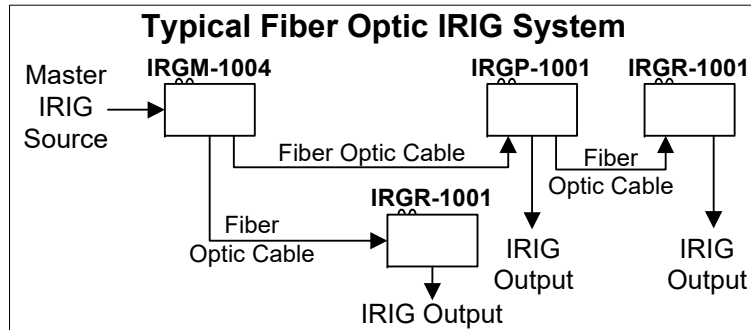
Signal Bandwidth	100 Hz to 500 KHz (+0, -3dB)
In Impedance	600 ohms
In Signal Level	3 volt peak to peak, (5 mA)
Signal/Noise Ratio	60 dB/min (ref 1Vpp)
Linearity & THD	3% max
Operating Wavelength	850 (-1), 1300 (-3,-7), 1550 (-9)
Optical Loss Budget	0 – 12 dB
Fibers Accommodated	1 Multimode (-1,-3), 1 Single-mode (-7,-9)
MTBF	100,000 Hours (MIL-HDBK-217)
Temperature Range	-35° to +75°C
Power Requirements	11-24 VAC/DC @500 mA
Physical Size (mm)	5.0"(127)L x 1.0" (25.4)W x 7.0"(178)D

All specifications measured with 1Km of 62.5u multimode fiber.

All specifications are subject to change without prior notice.

Installation Instructions

The diagram below shows the typical installation IRIG system that uses the IRGM-1004 and IRGP-1001 for IRIG distribution.



In the above diagram only two optical outputs are utilized. The IRGM-1004 provides four optical outputs.

The IRGP-1001 is the same as the IRGR-1001 but in addition it has a local IRIG output and an internal optical transmitter to retransmit the received optical signal to another receiver or receiver/repeater

Power Terminal Block Connections

Pin	Function
1	Alarm output for use with optional Alarm Sensing Unit ALM-1000. No other connections should be made to this terminal
2	+11 to 24 DC or AC Volts input
3	AC or DC return (Common to Housing)

Be certain to check all connections, settings and voltages before applying power

Indicator Lights

Indicator	Lights when
Pwr	Proper power is present.
Alm	The loss of signal alarm is activated and there is no IRIG signal present to transmit.
Sig	A data signal is being received.

The **Alarm** switch is used to turn the alarm function on and off.