

WARRANTY

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 (516) 931-2800 and the item returned to Liteway, Inc. 166 Haverford Road, Hicksville, NY 11801, USA, 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 products or accessories for use in critical life support systems or applications of any kind.

Operating Instructions

Fiber Optic Video & Contact Switch Data Transmission System

VCT-1001 Transmitter VCR-1001 Reciever VCR-1002 Dual Reciever



The **Litelink**® VCT/VCR-1001 system consists of the VCT-1001 transmitter and VCR-1001 receiver. Both transmits wide band video signals and a contact closure over a single fiber.

Technical Specifications

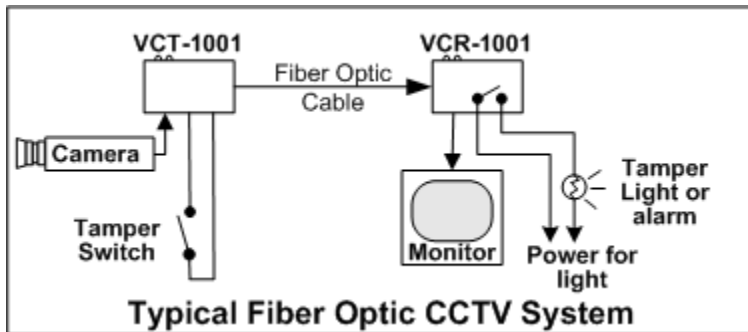
Video Bandwith	8 MHz (+0, -3dB)
Video In/Out Impedance	75 ohms
Video In/Out Level	1 volt pp
Video Signal/Noise Ratio	60 dB typical
Output Contact Ratings	0.5 A @ 125 VAC (62.5VA) 1.0 A @ 24 VDC
Operating Wavelength	850nm (-1), 1300nm (-3,-7), 1550nm (-9)
Optical Output	-14dBm (multimode) -10 dB (single-mode)
Optical Loss Budget	0 - 15 dB (multimode) 0 - 18 dB (single-mode)
Fibers Accommodated	1 multimode (-1,-3), 1 single-mode (-7,-9)
Temperature Range	-35° to +75°C
Power Requirements	11-24 VAC/DC @150 mA
Physical Size (mm)	5.0"(127)L x 1.0" (25.4)W x 3.0"(7)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 of the VCT-1001 VCR-1001.



Typical applications for the contact closure transmission is to sense a tamper switch in the camera housing that is utilized to trigger a remote alarm.

Video Level Control Adjustment

The video level control should be set for an output of 1 volt peak to peak.

Alternately, the control can be set for a pleasing picture. If it is set too low, the picture will appear dull and "washed out". If it is set too high, the picture will appear harsh or severely distorted.

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

Data Terminal Block Connections

Pin	Tx Description	Rx Description
1	Connect to Pin 2 to close relay on Receiver	Normal Open contact channel 1; connects to pin 2, when close condition on transmitter
2	Connect to Pin 1 to close relay on Receiver (5 VDC)	Normal Open contact channel 1; connects to pin 1 when an close condition on transmitter.
3	Ground	Ground
4*	N/A	Normal Open contact channel 2; connects to pin 2, when close condition on transmitter
5*	N/A	Normal Open contact channel 2; connects to pin 1 when an close condition on transmitter.

* Only Present on the Dual Receiver VR-1002

Indicator Lights

Indicator	Lights when
Pwr	Proper power is present.
Alrm	The loss of video alarm is activated and there is no video present
Sig (Signal)	A video signal is present
Cnt (Contact)	Contact signal active (ie closed)