



LTM-PM Series User Manual

PHATCAT™

CAT5 BROADCASTING



Model LTM-PMVA

LTM-PM Series

Media Over CAT5 (MOC-5)

Transmission System



LTM-PM Series User Manual

GETTING STARTED

Warranty Information

Laird warrants your product to be free from malfunctions and defects in both materials and workmanship for one year from the date of purchase. Please see the enclosed warranty card for full details or your local dealer or Distributor for questions concerning the warranty.

Technical Support

Laird maintains a free user support web site to help with all of your technical support needs. Visit: <http://laird-support.com/>

Unpacking the LTM-PM

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipments.
- Review the contents of this instruction manual.

Your package should contain:

- Transmitter Unit (labeled with a RED dot)
- Receiver Unit (labeled with a GREEN dot)
- 12V DC Power Supply

SPECIFICATIONS

Connectors: **Transmitter:** RJ45
Signal Connectors are based on specific model:
BNC Video, RCA Audio

Receiver: RJ45
Signal Connectors are based on specific model:
BNC Video, RCA Audio

Power: 12Volts DC @ 500mA via 4-Pin XLR male

Dimensions: 2.75" H x 6.0" W x 6.5" D, ABS Plastic

Weight: 2.5lbs. (Less Shpg. Carton)

LOW COST BROADCAST CAT5 SYSTEM FOR VIDEO AND AUDIO

The LAIRD LTM-PM series of high performance CAT5 transmitter/receiver links are the latest in quality high- end broadcast Cat5 media long haul cable systems. Designed to meet the needs of the broadcast professional where long distance cable runs are required for video and audio with no losses over low cost Cat5 cable. The LTM-PM works with any composite, Component or YC baseband video signal, or any unbalanced audio line level signal. The signals are converted and sent over Cat5 cables wired in StyleB for distances up to 1500 feet. Each consist of a send and receive unit which is powered by 12VDC using a standard 4pin XLR. They can be used as a video or audio snake since they will not cause any hum or induced noise over the full distance. Each box is housed in a LAIRD MiniCAB enclosure. They can be rackmounted using the LTM-RK2 rackmount adaptor.

Three models are available:	LTM-PMAV ---	2 Video Lines and Two Audio Lines
	LTM-PMV ---	4 Video Lines: Can be used for dual YC, 4 CV or 1 YUV+CV
	LTM-PMA ---	4 Unbalanced Audio Lines up to 2500 feet

FEATURES

The LTM-PM systems are designed with BNCs for video and RCAs for audio. Based on the model selected for your application, it is delivered from the factory aligned for 1000 feet of Cat5 cable. For cable lengths below 500 feet it will have to be re-calibrated. This can be performed in the field with the proper equipment and personnel. If this is required, please contact LAIRD tech support for assistance. Audio is transmitted as a balanced signal to eliminate hum or ingress noise



LTM-PMAV: This model features 2 Video lines and 2 Audio lines

Options:

Video: 1 Vpp into 75 Ohms : Baseband Composite Video: 2 lines Using BNC connectors YC(SVHS) : 1Vpp Luma, .4Vpp Chroma : Using a 4pin to Dual BNC cable.

Audio: 2 Vpp into 10Kohm Unbalanced 100Hz-20Khz



LTM-PMV: This model features 4 video lines

Options: Composite Video: 1Vpp into 75 Ohms 4 lines using BNCs

Component(YUV) 3 lines + 1 Composite Video line
YC(SVHS) 2 paths using 4pin to Dual BNC cables



LTM-PMA: This model features 4 Unbalanced line level audio lines

Options: Dual stereo feeds: 2Vpp into 10Kohm Unbalanced 100Hz-20Khz

Four audio lines: 2Vpp into 10Kohm Unbalanced 100Hz-20Khz

All models are powered by 12Volts DC @ 200mA using a provided AC adaptor designed with a 4pin XLR and wired in standard external battery configuration Pin 1 Ground and Pin 4 is hot(12VDC). The Cat5 wiring requirement for cables is standard STYLE B CAT5 CONFIGURATION.

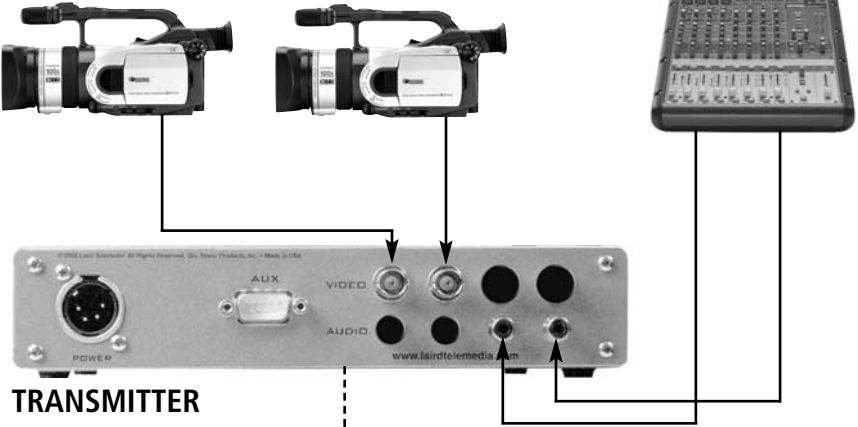
The LTM-PM products are active and buffered for high quality line drive performance. Using standard Cat5 cable, the distance is maximized at 1500 feet and optimized for 1000 feet. If the requirement is for longer distances, then low skew media twist Cat5 may be used. This will allow distances up to 2000 feet. The product would have to be re-aligned for use with this type cable and distance. A properly qualified technician with the proper equipment can be instructed in the realignment process. The unit can also be sent back to LAIRD for re-calibration. A fee will be charged for this service. Contact Tech Support for this service: 800.898.0759

TYPICAL WIRING CONFIGURATION

CAMERA 1

CAMERA 2

AUDIO MIXER

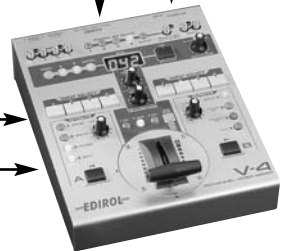


TRANSMITTER
Model LTM-PM AV

CAT5 CONNECTION



RECEIVER
Model LTM-PM AV



PRODUCTION MIXER

NOTES

NOTES



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