LAIRD TELEMEDIA

LTM-FDR User Manual

LTM-IEEE 1394
FireWire Repeater

CE

LTM-FDR User Manual

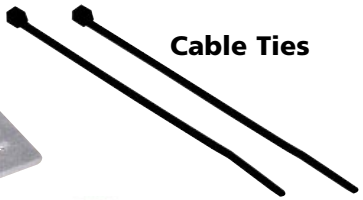
DESCRIPTION

The **Laird Telemedia LTM-FDR** is a plug and play inline bidirectional IEEE1394 FireWire repeater. The LTM-FDR provides the ability to extend up to three 75 foot cables 225 feet. Works in either a self-powered mode, where power is present on the FireWire cable, or plug-in the included AC power supply anywhere on the cable run. A 12 volt portable battery source may also be used in the field.

INCLUDED ITEMS

LTM-FDR UNIT

Cable Ties



POWER SUPPLY

NOTE: This product has been tested with a variety of DV cameras, VTRs, and NLE computers using Laird DVistance 70foot cables. Though the circuitry supports port speeds up to 400Mbps, certain external 1394 equipment such as printers, CD-Rom drives, Hard Drives, and Scanners may not operate properly. It is recommended only for media devices at this time.

TECHNICAL SUPPORT

For current support issues and answers to common questions, please visit the Laird support website at:

http://www.laird-support.com

or Call 800-898-0759

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Operational Features

Port speeds supported:	100/200/400 Mbps
Compliant Plug & Play for:	IEEE1394, IEEE1394a
External or 6Pin powered:	Can be powered by supplied 12V power supply
Can be powered by:	Part# **LTM-FDRBATTS** (for Sony, Panasonic) or **LTM-FDRBATTC** (for Canon)

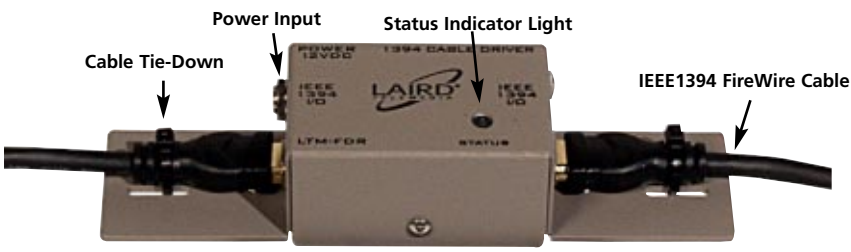
- Bi-directional operation
- Each extended length of 1394 cable requires two(2) LTM-FRD units (see **Figure 2**)
- Drives up to 70 feet of 1394 cable

The **LTM-FDR** is a powerful yet low profile single channel bi-directional IEEE1394 signal repeater-driver. Coupled with LAIRD DVistance extended firewire cables, the **LTM-FDR** will provide up to 210 feet of firewire cable drive (using multiple units).

The **LTM-FDR** is low profile and works in-line with standard 1394 6pin cables. The sturdy case allows for the screw-on addition of the **LTM-FDRBATT**(C)(S) 7.5Volt-12Volt adaptor which will run the **LTM-FDR** for up to three hours. Contact your LAIRD dealer for the **LTM-FDRBATT**(C)(S) products for either Sony, Panasonic or Canon batteries (for a view of the LTM-FDR with **LTM-FDRBATT**(C)(S), see **Figure 2** on page 3). Provisions are made for the use of cable ties to secure the cables onto the body of the driver. A bus light confirms the active operation of the device.

Figure 1 shows a typical setup of the **LTM-FDR** without **LTM-FDRBATT**.

Figure 1



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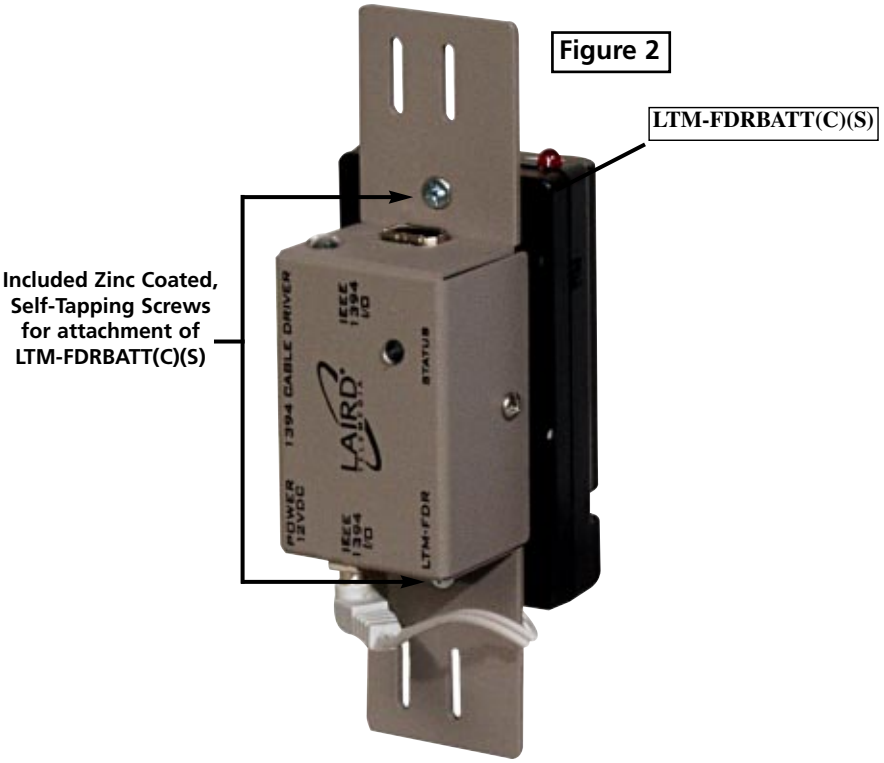


Two zinc coated self taping screws are provided for securing the Battadapt(C)(S) to the **LTM-FDR**. Keep these in a safe place so that they will be available should you purchase another **LTM-FDRBATT**(C)(S) in the future. (See **Figure 2**)

Please note that if power is being supplied on the 6pin connector that this power cannot travel long distances beyond 15feet. When using the **LTM-FDR** with 70 foot DVistance cables, it is recommended that the external power supply be used. You can use either the DC adaptor provided or order the **LTM-FDRBATT**(C)(S) product which allows the unit to be powered by a Canon, Panasonic or Sony 7.5V camcorder battery.

The **LTM-FDR** must be used on each end of the cable being driven. A short 3foot cable can be used to connect from the device to the **LTM-FDR**, then the long distance is connected to the output of the **LTM-FDR**. On the receive or destination side, another 3 foot cable can be used to interface to the destination equipment.

See **Figure 3** which illustrates this setup.

The **LTM-FDR** is bidirectional and either port can be designated as input or output.

Figure 3

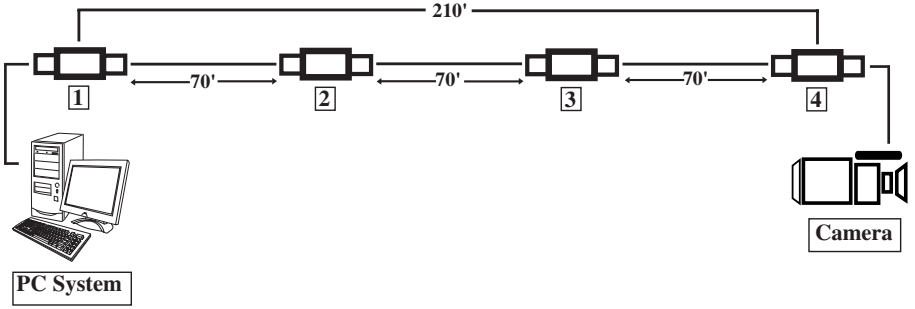
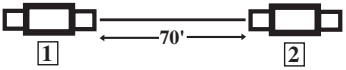


Figure 4



Please note that a single run configuration as shown in **Figure 4** requires two(2) **LTM-FDR** units for proper operation.

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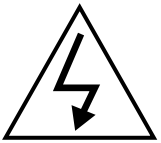
Safety Precautions



1. To prevent fire or shock hazard, do not expose this equipment to the environment of Humidity and/or dust. Do not use this equipment in an unprotected outdoor installation or any area classified as a wet area.
2. The operating temperature of this product must be kept between -40°C and +95°C. Direct sunlight or an intense source of heat, direct or ambient, must not be introduced to the product either by induction or contact.
3. Always keep the product on a stable and secure base or enclosure. Do not drop the product or subject it to sudden heavy impact.
4. Provide adequate ventilation so that thermal characteristics do not cause an increase in product temperature to resulting in overheating.
5. Do not clean the unit by using electrically conductive or corrosive chemicals. Always be certain to unplug the unit from AC wall power before any major cleaning. Use a damp cloth only for cleaning.
6. Do not subject the product to electrical mains power over voltage: The product must be used at the rated supply voltages indicated on the product rear panel only.
7. Do not plug the product into an overloaded electrical outlet. This may result in fire or electrical shock.
8. Object Ingress and Liquid Entry: Never insert or push sharp metal objects into the product or use such devices for an attempt at opening or servicing the product. Servicing should be referred to a trained and qualified technician only. Do not allow liquid of any type to enter the unit. Do not allow the unit to be submersed in water as this may cause a shock hazard.
9. A trained qualified technician should perform all servicing of the unit. There are no serviceable components within the unit for user access.

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