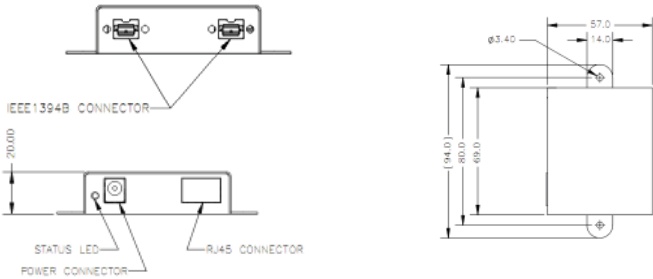


FirePRO™ LDR Contents



General Specifications

Dimensions	69 x 57 x 20mm (W x D x H)
Mass	85 grams
Power requirements	8 to 32V, 2.8 W at 12 V via 1394b or external power supply
Power output	1 A per port at 12 V
Power Plug Type	5.5 mm (OD) x 2.1 mm (ID), male, center-positive
Cabling	Cat5e or Cat6
Mounting	Front / rear, M3x4mm screw holes
Compliance	RoHS, FCC Class B, CE
Warranty	2 Years
Operating temperature	0°C to 45°C
Storage temperature	-30°C to 60°C

Requirements

Drivers

- Compatible with Windows driver or FirePRO driver (v1.8 or later)
- Incorporates automatic or manual host controller gap count setting (for information refer to [Knowledge Base Article 307](#))

Cable

- 9-pin connectors
- Standard Category5e (Cat5e) or Cat6 cable
- 1394 cable

Power

- 8-32V external power required at camera side (see Sample Configuration) Part Number ACC-01-9002

Compatibility

- All Point Grey 1394 camera and FirePRO products
- Backward compatible with 1394a
- Fully interoperable with FireWire™ and iLINK™
- Supports Plug and Play and hot swapping

LED Status

LED Status	Description
Blinking Green	Heartbeat
Solid Green	Ethernet connected
Blinking Red	Intermittent error
Solid Red	Sustained errors
Solid Orange	FireWire connected and transferring data

Installation

1. Connect the LDRs with the Cat5e cable

- Each end of the Cat5e cable connects to the RJ45 port on each LDR.

2. Connect the LDR furthest from the host system

- Connect the camera to the 1394b port on the LDR using a FireWire cable.
- If connecting a second camera, connect it to the second 1394b port on the LDR.
- Connect an 8-32V external power supply to the power connector on the LDR.

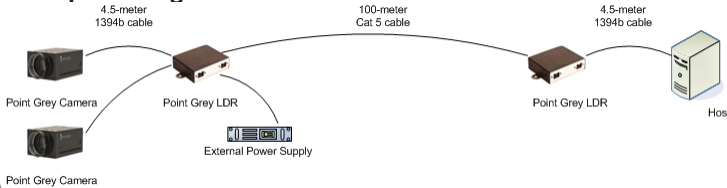
3. Connect the LDR closest to the host system

- Connect the LDR to the host PC using a FireWire cable.

4. Confirm Successful Connection

- To test your camera's image acquisition capabilities while connected to the LDR, run the FlyCap demo program. From the Start menu, select All Programs > Point Grey Research > PGR FlyCapture > FlyCap.exe.

Sample Configuration



Troubleshooting

Limitations

- For each port, Cat5e cable is limited to 100 MB/s
- Ethernet packet format is not routable through a switch
- Running multiple repeaters for greater than 100m of Cat5e cable is not recommended (eg 3 LDR's for greater than 100m).

Windows Drivers

To run your camera device at S800 speeds, Windows XP SP2 or SP3 users must install and use the FirePRO driver, or downgrade to the XP SP1 1394 low-level drivers. Otherwise, the camera is limited to S100 speed. Vista users must install and use the FirePRO driver, or be limited to S400 speed.

Note: The LDR is compatible with the FirePRO driver that is installed with FlyCapture software v1.8.0.1 or later. This driver incorporates the automatic or manual gap count setting of the host controller. However, it may be necessary to manually adjust the gap count when the camera is operating in high data rate formats or modes.

Knowledge Base

Our on-line Knowledge Base (www.ptgrey.com/support/kb/) also addresses the following problems:

- Article 171: Performance of 1394 devices may decrease after installing Windows XP SP2 or SP3
- Article 258: Which Point Grey camera driver should I use?
- Article 307: Setting Gap Count for Long Cables

Contacting Point Grey Research

Email: For all general questions about Point Grey Research please contact us at info@ptgrey.com.

For technical support (existing customers only) contact us at www.ptgrey.com/support/contact/.

Main Office: **Mailing Address:** Point Grey Research, Inc.
12051 Riverside Way
Richmond B.C. Canada V6W 1K7
Tel: +1 (604) 242-9937
Toll Free (N. America only): +1 (866) 765-0827
Fax: +1 (604) 242-9938
Email: sales@ptgrey.com

Knowledge Base: Find answers to commonly asked questions in our knowledge base at www.ptgrey.com/support/kb/.

Downloads: Users can download the latest manuals and software from www.ptgrey.com/support/downloads/.



FirePRO™ LDR

FireWire 800Mb/s Cat5 Repeater



Getting Started Manual

Document revised December, 2010

Copyright © Point Grey Research Inc. 2010. All rights reserved.
PGR, the Point Grey Research, Inc. logo, FirePRO and FlyCapture are trademarks of Point Grey Research, Inc. in Canada and other countries.