

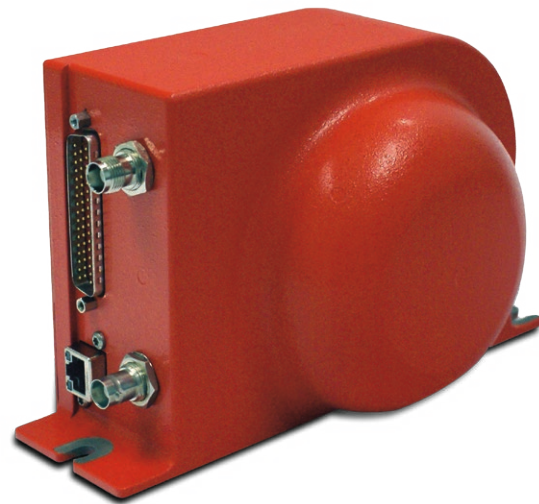
## Lightweight Data Recorder

The L3 Lightweight Data Recorder (LDR) is a small, lightweight package providing crash-protected recording of audio, image and flight data on small General Aviation (GA) helicopters and fixed-wing aircraft. Any subset of the total LDR capability can be utilized for any particular installation not intended for regulatory-mandated applications. While some installations may make use of only the audio and image recording capability, others may want to exploit the full audio, image, data (ARINC 717 or ARINC 429) and GPS recording.

A built-in web server makes it easy for data retrieval and configuration with just a laptop and web-browser. No expensive software or complicated cabling is required for on-aircraft downloads.



Use of U. S. DoD visual information does not imply or constitute DoD endorsement.



### FEATURES

- Certified — ED-155 and FAA
- TSO C-197
- Crash-Survivable Memory Unit (CSMU)
- Built-in web server — retrieve recorded data with just a laptop and web browser
- Optional internal/external GPS receiver
- Area microphone
- Provisions for analog camera as video source
- Status monitoring and fault logging
- Optional ARINC 429 recording

## Lightweight Data Recorder

### SPECIFICATIONS

#### PHYSICAL

Height	4.9 in. (12.45 cm)
Width	3.9 in. (9.9 cm)
Depth	8.0 in. (20.3 cm)
Weight	< 5 lbs. (2.27 kg)
Reliability	10,000 hrs.

#### POWER

Requirements	28 VDC
Consumption	< 5 W (without external microphone and camera)

#### CONNECTORS

Coaxial BNC	NTSC analog video (on certain LDR models)
Coaxial TNC	GPS RF antenna (on certain LDR models)
D-Sub 50-Pin	Analog audio, control inputs, status outputs, ARINC 717 serial data, ARINC 429 serial data on certain LDR models, external GPS serial data
RJ-45	100 Base-T Ethernet

#### ENVIRONMENTAL

Temperature	Operating	-55 °C to +70 °C
	Non-operating	-55 °C to +85 °C
Altitude	Operating	0 to 55,000 ft.
Vibration	DO-160F Cat. S, curve M	
Penetration	250 lbs. @ 10 ft. ¼-in. probe	
Static Crush	5,000 lbs.	
Fire Protection	1100 °C for 15 min. and 260 °C for 5 hrs.	
Impact Shock	1,000 G over 6-axis	

#### RECORDING

	GPS RECORDING	ARINC 717	ARINC 429	AUDIO	VIDEO	
	25 hours	25 hours	25 hours	2 hours	2 hours	
Part Number	External RS232 GPS Compatible	Internal GPS w/ External GPS Antenna	Up to 512 wps	Up to 6100 msg/sec	16-bit @ 48 kbps	5 frames/sec
1000-1710-00	√	√	√	Up to 3 buses	4 Channels	NTSC Analog
1000-1210-00	√		√	Up to 3 buses	4 Channels	
1000-1000-00	√		√		2 Channels	

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Front view



Side view

#### OPTIONS

Microphone	Panel-mount (LDR-MIC-0200) Surface-mount (LDR-MIC-0100)
Camera	NTSC (not L3 supplied)
GPS	External GPS antenna (L1 Active) with TNC connector P/N 009-E5557-00
Compliance	ED-155 (full details available upon request)

#### COMPANY CERTIFICATION

L3 Aviation Products Quality Management System is ISO 9001:2008 and AS9100:2009 Rev. C Certified

#### L3 Aviation Products

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L3 Aviation Products is a leading provider of commercial and military avionics, as well as MRO services. We manufacture a diverse line of safety- and efficiency-enhancing products that sets the standard for next-generation cockpit requirements.