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.

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 ºC for 15 min. and 260 ºC for 5 hrs.
Impact Shock 1,000 G over 6-axis

RECORDING

<table>
<thead>
<tr>
<th>GPS RECORDING</th>
<th>ARINC 717</th>
<th>ARINC 429</th>
<th>AUDIO</th>
<th>VIDEO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>External RS232 GPS Compatible</td>
<td>Internal GPS w/ External GPS Antenna</td>
<td>Up to 512 wps</td>
<td>Up to 6100 msg/sec</td>
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<td>2 Channels</td>
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