The L3Harris Lightweight Data Recorder (LDR) is a small, lightweight package providing crash-protected recording of audio, image and flight data for General Aviation (GA) 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 data downloads directly on the aircraft.

DISCOVER MORE:
www.L3Harris.com/avionics
# Specifications

## LDR

### Physical

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>4.9 in. (12.45 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>3.9 in. (9.9 cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>8.0 in. (20.3 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>&lt; 5 lbs. (2.27 kg)</td>
</tr>
<tr>
<td>Reliability</td>
<td>10,000 hrs.</td>
</tr>
</tbody>
</table>

### Power

<table>
<thead>
<tr>
<th>Requirements</th>
<th>28 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumption</td>
<td>&lt; 5 W (without external microphone and camera)</td>
</tr>
</tbody>
</table>

### 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. 5, curve M

**Penetration**
- 250 lbs. @ 10.25 feet probe

**Static Crush**
- 5,000 lbs.

**Fire Protection**
- 1100°C for 15 min. and 260°C for 5 hrs.

**Impact**
- 1,000 G over 6-axis

### Options

- **Microphone**: Panel and surface-mount microphones available
- **Video**: NTSC Input for optional camera (PAL available)
- **GPS**: External GPS antenna (L1 Active) with TNC connector P/N 009-E5557-00

### Compliance

- ED-155 (full details available upon request) FAA TSO-C197

### Recording

<table>
<thead>
<tr>
<th>Part Number</th>
<th>GPS Recording</th>
<th>ARINC 717</th>
<th>ARINC 429</th>
<th>Audio</th>
<th>Video</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000-1710-00</td>
<td>X</td>
<td>X</td>
<td>Up to 512 wps</td>
<td>Up to 3 buses</td>
<td>4 Channels</td>
</tr>
<tr>
<td>1000-1210-00</td>
<td>X</td>
<td>X</td>
<td>Up to 6100 msg/sec</td>
<td>16-bit @ 48 kbps</td>
<td>5 frames/sec</td>
</tr>
<tr>
<td>1000-1000-00</td>
<td>X</td>
<td>X</td>
<td>Up to 3 buses</td>
<td>2 Channels</td>
<td></td>
</tr>
</tbody>
</table>

---

© 2020 L3Harris Technologies, Inc. | 07/2020

This document consists of basic marketing information that is not defined as technical data under EAR Part 772.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers’ mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.