



Lightweight Data Recorder (LDR)

Maximize recording capabilities with data and video recording with web browser access



The Acron Aviation Lightweight Data Recorder (LDR) is a small, lightweight package providing crash-protected recording of audio, image and flight data for helicopter operators. 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 helicopter.



KEY FEATURES

- > ED-155 Compliant
- > FAA TSO-C197 & EASA ETSO-2C197 certified
- > Meets EASA SIB 2019-15R1 for in-flight recording for light aircraft
- > Crash-Survivable Memory Unit (CSMU)
- > Built-in web server – retrieve recorded data with just a laptop and web browser
- > Optional internal/external GPS receiver
- > Up to four channels of audio, including Cockpit Area Microphone (CAM)
- > Provisions for analog camera as video source
- > Status monitoring and fault logging
- > Optional ARINC 429 recording
- > Industry standard file types (audio, data, video)

OPTIONS

- > GPS receiver supported – internal and external
- > Video Input for analog cameras
- > ARINC 429 recording

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LDR						
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. @ 10.25 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					
Company Certification						
ISO 9001:2008 and AS9100:2009 Rev. C Certified						
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	X	X	X	Up to 3 buses	4 Channels	NTSC Analog
1000-1210-00	X		X	Up to 3 buses	4 Channels	
1000-1000-00	X		X		2 Channels	

LDR

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