

Cockpit Voice and Data Recorder

The L3 FA2100 solid-state Cockpit Voice and Data Recorder (CVDR) delivers exceptional reliability, is lightweight and has a low cost of ownership. The FA2100 CVDR provides four-channel, 2-hour or 30-minute, high-quality audio recording and 64/128/256/512 words-per-second (wps) flight data for a minimum of 25 hours.



FEATURES

- Up to 2 hours of high-quality recording on all four channels and a minimum of 25 hours of flight data at 64/128/256/512 wps
- Commercial airline field experience of > 50,000 hours
- ARINC 573/717/747 (data) 557 and 757 compliant
- ARINC 429 Onboard Maintenance System (OMS) and MIL-STD-1553 available
- Military options – Night Vision Goggles (NVG), 8 Ω
- Lightweight – 10.6 lb. maximum, with stainless steel Crash-Survivable Memory Unit (CSMU) (4.8 kg)
- Optional titanium CSMU
- Low-power consumption – 13.8 W max AC and 12.3 W max DC
- Stand-alone Cockpit Voice Recorder (CVR) and Flight Data Recorder (FDR) options available
- Control units, microphones and installation accessories are available
- Common ground support equipment with FA2100 CVR and FDR



Cockpit Voice and Data Recorder

SPECIFICATIONS

PHYSICAL

Size	½ ATR short
Height	5.5 in. (14.00 cm)
Width	5.0 in. (12.70 cm)
Depth	12.6 in. (32.00 cm)
Weight	10.6 lb. maximum; 8.3 lb. optional

POWER

Requirements	115 V, 400 Hz or 28 VDC
Consumption	13.8 W max AC; 12.3 W max DC
Control Unit	18 VDC, 25 mA short-circuit protected power source for preamplifier

RECORDING

Audio	30 min. or 120 min. high-quality 4-channel recording
Data	25 hrs. of 573/717 flight data at 64/128/256/512 wps, rotor speed and time code

MONITOR OUTPUT

Headphone Jack	600 Ω at the control unit; optional 8 Ω
Bulk Erase	Fail-safe, double electric interlock audio memory erasure completed in 5 sec.

CONNECTORS

Rear	AS81659- and ARINC 404-compliant 57-pin single receptacle
Mating	AS81659- and ARINC 404-compliant single-insert plug

ENVIRONMENTAL

Temperature	Operating	-55 °C to +70 °C
	Non-operating	-55 °C to +85 °C
Altitude	Operating	-1,000 to 55,000 ft.
Vibration	Operating	DO-160C Para 8.6.2 Category C (random)
Penetration	500 lbs. /10 ft. / ¼-in. probe	
Static Crush	5,000 lb.	
Fire Protection	50,000 BTU/sq. ft./hr. for 60 min. at 1100 °C; 10 hrs. at 260 °C	
Impact	3,400 G, 6.5 ms, half-sine shock wave	

UNDERWATER ACOUSTIC BEACON

90-day beacon, seven-year battery and bracket supplied with unit

PRODUCT CERTIFICATION

FAA TSO-C123a and C124a , TSO-C123 and TSO-C124b

REGULATORY SPECIFICATIONS

ARINC 404A, 757, EUROCAE MOPS ED-55 and ED-112, ED-56A

COMPANY CERTIFICATION

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

L3 Aviation Products

100 Cattlemen Road
Sarasota, Florida 34232 U.S.A.
Tel: 941-371-0811 Fax: 941-377-5591
www.L3aviationproducts.com



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.