

Electrodynamics, Inc.

SRVIVR® VOICE & DATA RECORDER

DATA... WHEN YOUR SAFETY DEPENDS ON IT.

SRVIVR® Voice & Data Recorder

L-3 Electro Dynamics has developed a truly flexible crash-survivable Cockpit Voice and Flight Data Recorder (CVFDR) that can be configured for a wide range of helicopters and civil and military fixed-wing aircraft. The SRVIVR® family of CVFDRs was developed in response to the industry's need for a flexible voice and data recorder capable of accommodating a wide range of air vehicle interfaces with flexible memory capacity. In addition to these features, SRVIVR offers the smallest size and lowest weight ED-112 compliant recorder in the industry today. An optional Acoustic Beacon Underwater Locating Device is securely mounted to the housing.

SRVIVR can be configured to record data or voice only, combined voice and data, or voice, data, and discrete sensor inputs in a single recorder. It includes one or more air vehicle interfaces in a single recorder potentially eliminating the need for multiple recorders in the aircraft. SRVIVR will be approved to TS0-C123b and TS0-C124b in 2010.

SRVIVR can provide up to four channels of voice recording for up to 120 minutes (one area microphone and three voice audio channels) and 25 hours of flight data recording at 64 to 1024 words/second, or a rotor speed interface. Information retrieval is accomplished via 10/100 BASE-T Ethernet output to a PC for analysis using optional flight data analysis and simulation software.

Available air vehicle interfaces include:

- Audio and Rotor Speed
- ARINC 429
- RS-422 or RS-485
- MIL-STD-1553
- IEEE 1394b
- 10/100 BASE-T Ethernet



KEY FEATURES

- Compact design combines voice and data into one recorder
- Flexible architecture enables aircraft-specific configuration
- Weighs less than 5 lbs (depending on configuration)
- Compatible with ARINC 757 and ARINC 429 signals
- Wide range of air vehicle interfaces available
- Fast data download
- Provides cost and weight savings
- Complies with 2008 FAA rule changes

Flexible Technology
Providing Creative
Solutions



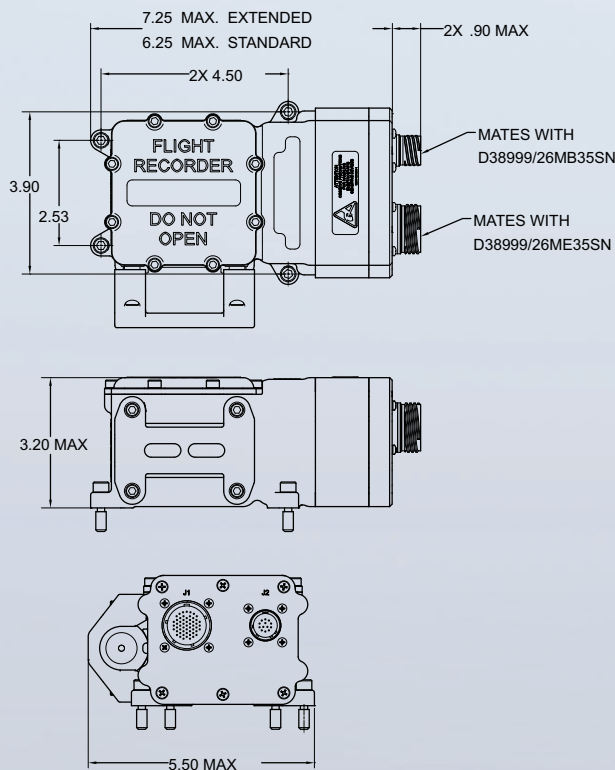
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TECHNICAL SPECIFICATIONS

- Temperature Range . . . Operating: -40° C to +71° C;
Non-operating: -55° C to +85° C
- Environments Operational shock 20 g, vibration 11 gRMS,
altitude 70,000 feet, humidity 100%
- Withstands Acceleration, sand, dust, drips, ice, salt,
fungus, fluids, explosive atmosphere,
indirect lightning, ESD, flammability
- EMI/EMC D0-160E
- BIT Power-up, initiated, continuous and
prognostic
- Reliability >20,000 operating hours MTBF
- Input Power +16 to +32 VDC, D0-160E
- Power Consumption 5-8 watts depending on configuration
- Cooling Passive convection
- Dimensions 3.2" H x 6.5" D x 5.5" W standard
configuration; 3.2" H x 7.2" D x 5.5" W
extended configuration
- Weight 4.5 to 6.55 lbs depending on configuration
- Color Fluorescent Orange (FS 38903);
high-reflectivity white stripes optional

OUTLINE DRAWINGS



HARDWARE SPECIFICATIONS

- Crash Survivability (per ED-112)**
 - Impact Shock 3,400 g, 6.5 ms half sine
 - Static Crush 5,000 lbs
 - Penetration 500 lbs dropped from 10 feet with
¼" diameter impact pin
 - Fire 50,000 BTU/sq ft/hr for 60 minutes
at 1,100°C; 10 hours at 260°C
 - Immersion Seawater at 20,000 feet for 30 days
- Crash Protected Solid-State Memory**
1 GB standard, expandable to 2 or 4 GB
- Available Air Vehicle Interfaces**
 - Audio Four inputs: each one is selectable for an
area mic (150-6,000 Hz) or a crew mic
(150-3,500 Hz)
 - Rotor Speed One input: 7 Hz to 6 kHz,
2 VRMS to 122 VRMS
 - ARINC 429 Up to four inputs, one output
 - RS-422/RS-485 One: 19,200 to 921,600 baud
 - MIL-STD-1553B One RT or monitor with one optional
monitor
 - IEEE 1394b One: 100 to 400 Mbps
 - Discretes Variable quantity, 5 VDC to 28 VDC or
open/ground
 - Analogs Variable quantity, 50 mVDC to 15 VDC,
differential or single-ended
 - Ethernet One: 10/100 BASE-T with TCP/IP and FTP
- Connectors**
MIL-C-38999 Series III Up to 45 signals and 9 power/ground pins
- Acoustic Beacon Underwater Locating Device (optional)**
Meets TSO-C121, with 30-day output and 6-year replaceable
battery; Reversible for upright reading and test access; Can be
located on right or left side of the recorder
- Control Unit (optional)**
ARINC 757-compatible panel-mount unit for audio testing and
erasing, with internal cockpit area microphone option; Recorder
Independent Power Supply (optional); ARINC 777/TSO-C-155-
compatible bolt-down unit for 10 additional minutes of CVR/FDR power

Specifications subject to change. Other options available. Consult factory for details.

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communications
Electrodynamics, Inc.

L-3. Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.