

Electrodynamics, Inc.

SRVIVR[®] VOICE & DATA RECORDER

SAFETY AND ECONOMY – THE SRVIVR[®] ADVANTAGE

SRVIVR[®] Voice & Data Recorder

The SRVIVR family of Cockpit Voice and Flight Data Recorders (CVFDR) combines the latest in recorder technology with the smallest and lightest, fully EUROCAE-ED-112-compliant recorder on the market today. This combination of flexible technology, weight and space reduction, and survivability offers many benefits for fleet operators at a time when data is critical to aircraft performance and opportunities for cost savings are limited.

Weighing as little as 4.5 pounds, SRVIVR is available as a CVR, FDR or combi unit and provides up to four channels of audio recording for up to 2 hours. It also records 25 hours of flight data, supports TSO-C177 data link recording and includes a rotor speed interface. SRVIVR offers a range of avionics interfaces enabling direct communications with a variety of aircraft systems, including glass cockpits, potentially eliminating the need for a separate Flight Data Acquisition Unit (FDAU).

Understanding the importance of accurate and reliable data, SRVIVR includes survivability to the highest industry standards, ensuring retrieval of precise data to support your Flight Data Management (FDM) and Flight Operational Quality Assurance (FOQA) programs as well as crash investigations. SRVIVR minimizes the risk of inaccurate or corrupted data, regardless of the environment.

The combination of increased functionality, reduced size and weight, and precise data allows you to realize true cost savings over heavier and less-reliable CVFDRs. It also increases the volume available in the aircraft for more productive uses and provides the information you need to improve the operational efficiency of your fleet. With SRVIVR, all of these benefits are possible — now and well into the future.



THE SRVIVR ADVANTAGE

- Lower weight reduces operating costs
- Compact size increases available space
- Flexible design enables aircraft-specific configuration
- Data is secure, even in the event of a fire
- Supports FDM, FOQA and incident investigation
- TSO C123b & TSO C124b and TSO-C177 authorization in process
- Compatible with ARINC 757, 717 and 429 signals
- No mounting brackets required
- Retrieve data quickly via Ethernet download

Flexible Technology
Providing Creative
Solutions



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TECHNICAL SPECIFICATIONS

Temperature Range . . . Operating: -55° C to +70° C;
 Non-operating: -55° C to +85° C

Environments Operational shock 20 g, vibration 11 gRMS,
 altitude 70,000 feet, humidity 100%

EMI/EMC DO-160F

BIT Power-up, initiated and continuous

Reliability >20,000 operating hours MTBF

Input Power +18 to +32 VDC, DO-160F

Power Consumption . . . 5 to 8 watts depending on configuration

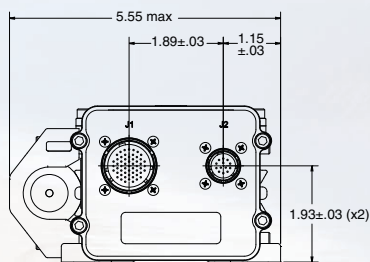
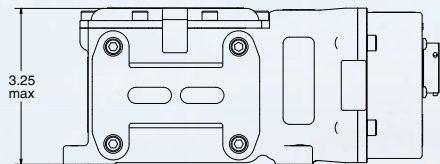
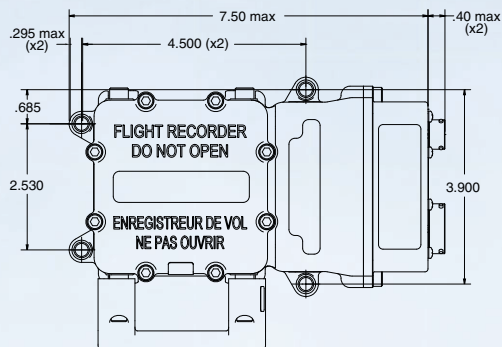
Cooling Passive convection

Dimensions 3.25" H x 6.55" D x 5.55" W standard
 configuration; 3.25" H x 7.2" D x 5.55" W
 extended configuration

Weight 4.5 to 6.6 lbs, depending on configuration

Color Fluorescent orange (FS 28915);
 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; aircraft and fire extinguishing fluids for 48 hours

Crash-Protected Solid-State Memory

2 GB standard

Aircraft Interface Options

Audio Four inputs; each one is selectable for an area mic (150-6,000 Hz) at 3mV to 3V or a crew mic (150-3,500 Hz) at 50mV to 3V

Rotor Speed One input: 7 Hz to 6 kHz, 2 VRMS to 122 VRMS

ARINC 429 Up to four inputs, one output

ARINC 717 64 to 1024 WPS with data output

ARINC 777 RIPS interface

RS-422/RS-485 . . . One: 19,200 to 921,600 baud

Ethernet One: 10/100 BASE-T with TCP/IP and FTP

Microphone Optional preamp in recorder

Connectors

MIL-C-38999 Series II

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 the 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 (RIPS)

Optional bolt-down RIPS authorized to ARINC777 and TSO-C155 for additional 10 minutes of CVFDR power

Other options available. Consult factory for details.

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communications

Electrodynamics, Inc.

L-3. Headquartered in New York City, L-3 Communications is a prime contractor in C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems, aircraft modernization and maintenance and government services. L-3 is also a leading provider of a broad range of electronic systems used on military and commercial platforms.