



Safety and Economy – The SRVIVR® Advantage

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 6 pounds, SRVIVR is available as a Cockpit Voice Recorder (CVR), Flight Data Recorder (FDR) or combination unit and provides up to four channels of audio recording for up to 2 hours. It also records 25 hours of flight data and 2 hours of CNS/ATM data link and includes a rotor-speed interface. SRVIVR features dual-isolated aircraft power bus inputs enabling battery bus power compatible with RIPS requirements in our CVR. SRVIVR also 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.

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
- Dual-isolated MIL-STD-704F power bus inputs
- Compatible with ARINC 757, 757A, 717 and 429 signals
- No mounting brackets required
- Retrieve data quickly via Ethernet download

Use of U.S. DoD visual information does not imply or constitute DoD endorsement.



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SPECIFICATIONS

PHYSICAL

Dimensions	3.25 in. H x 7.9 in. D x 5.75 in. W
Weight	7.10 lb., stainless housing
Color	Fluorescent orange (FS 28915); high-reflective white stripes optional

POWER

Input Power	+6 to +32 VDC, MIL-STD-704F
Consumption	8 W max (steady state)

MAIN CONNECTOR

MIL-C-38999 Series II, 55-pin

STORAGE CAPACITY

4 GB standard, crash-protected solid-state memory

ENVIRONMENTAL (MIL-STD-810G)

Temperature	Operating	-55 °C to +71 °C
	Non-operating	-55 °C to +85 °C
Humidity	100%	
Altitude	Operating	70,000 ft.
Operational Shock	20 G	
Vibration	14 g	
EMI/EMC	MIL-STD-461F	
BIT	Power-up, initiated and continuous	
Reliability	> 20,000 operating hrs. MTBF	
Cooling	Passive convection	
Crash Survivability	Per ED-112	
	Penetration	500 lb./10 ft./¼-in. probe
	Static Crush	5,000 lb.
	Fire Protection	50,000 BTU/sq. ft./hr. for 60 min. @ 1,100 °C; 10 hrs. @ 260 °C
Impact Shock	3,400 G, 6.5 ms, half-sine shock wave	
	Immersion	Seawater @ 20,000 ft. for 30 days; aircraft and fire extinguishing fluids for 48 hours

UNDERWATER ACOUSTIC BEACON

Beacon, 90-day, TSO-C121b; six-year battery and bracket supplied with unit

COMPANY CERTIFICATION

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



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AIRCRAFT INTERFACE OPTIONS

Audio	Up to 4 inputs, each one is selectable for an area mic (150-6,000 Hz) at 3 mV to 3 V or crew audio (150-3,500 Hz) at 50 mV to 3 V
Rotor Speed	1 input, 7 Hz to 6 kHz, 2 VRMS to 122 VRMS
ARINC 429	Up to 4 inputs, 1 output
ARINC 717	64 to 1024 wps with data output
ARINC 777	RIPS interface
Ethernet	Base-T 10/100 with TCP/IP and FTP
Microphone	Optional preamp in recorder
MIL-STD-1553B Channels	Up to two (2) dual-redundant buses (A- and B-channel on each) transformer coupled Bus 1 can be either a Remote Terminal (RT) or bus monitor; Bus 2 is a bus monitor
RS-422 Channels	One optional GSE/aircraft interface using L3 protocol Up to four (4) monitor channels, configurable for bit rate and parity
Analog Inputs	Up to 24 analog inputs up to (-10 to +10 VDC) single or differential
Discrete Inputs	Up to 36 recorded or control inputs

CONTROL UNIT (OPTIONAL)

ARINC 757-compatible panel-mount unit for audio testing and erasing, with internal and external cockpit area microphone options

RECORDER INDEPENDENT POWER SUPPLY (RIPS)

Optional bolt-down RIPS authorized to ARINC 777 and TSO-C155 for additional 10 min. of CVFDR power

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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.