SRVIVR25™ Fixed and deployable recorder solution (FDRS)

First commercially available deployable crash-protected 25-hour Cockpit Voice and Data Recorders (CVDR) provide reliability.

With nearly 60 years as a leading supplier of aircraft recorders, the first commercial deployable cockpit voice and data recorder solution is now available as part of L3Harris' innovative SRVIVR25 crash-protected recorders. This solution is a significant step in civil aviation history by adding new state-of-the-art capability to commercial airliners: the ability for both cockpit voice and flight data to be recorded and deployed in the event of substantial structural deformation or water submersion. It provides redundancy for voice and data by recording the four channels of voice and datalink information, as well as over 140 hours of flight data.

The L3Harris SRVIVR25 FDRS includes the CVDR and RIU combined with Leonardo DRS Technologies' new Automatic Deployable Flight Data Recorder (ADFR). The ADFR includes a crash-protected memory module containing over 25 hours of recorded cockpit voice and 70 hours of flight data. It has been designed to float and is equipped with an integrated dual-frequency Emergency Locator Transmitter (ELT) to help rescue teams rapidly locate the downed aircraft, attend to survivors, and recover the unit.

The SRVIVR25 FDRS solution will be certified in 2020 and meets the 2021 European Aviation Safety Agency's (EASA) mandate following the International Civil Aviation Organization's (ICAO) published safety standards to extend the voice recording duration. The deployable SRVIVR25 will be a line-fit solution on A350's starting in 2020. It also supports Autonomous Distress Tracking and Timely Recovery of Flight Data mandate date of Jan 2023.

This data helps accident investigators as well as provides thousands of parameters of data able for Flight Data Monitoring (FDM)/Flight Operations Quality Assurance (FOQA) supporting airlines Standard Operating Procedures (SOP).

SRVIVR25 FDRS

> Cockpit Voice Recorder (CVR), Flight Data Recorder (FDR), Combination Voice and Data Recorder (CVDR)

> Recorder Interface Unit (RIU)

> Automatic Deployable Flight Data Recorder (ADFR)

FEATURES

> 25+ hours of audio (CVR) recording

> 25+ hours Datalink recording

> 140+ hours of flight (FDR) recording @ 2048wps

> Lithium-free Underwater Locater Beacon (ULB)

> Plug & play replacement for FA2100s available

> Meets EU 2015/2338 mandate

> Supports Autonomous Distress Tracking & Timely Recovery of Flight Data 2023 mandate

LEONARDO DRS

SRVIVR25 FDRS standard configuration:

AUTOMATIC DEPLOYABLE FLIGHT DATA RECORDER (ADFR)
BAU - Beacon Airfoil Unit
Crash-survivable Memory Assembly
Emergency Locator Transmitter (ELT)
406 MHz & 121.5 MHz
GNSS Receiver
Battery
Breakaway connector
RRU - Recorder Release Unit
RRU Electronics (LEVEL B)
Crash Detection Circuit
> Hydrostatic switch
Cover, Aircraft-Specific Tray
A320, Single Aisle (SA)
A330, Long Range (LR)
A350

COCKPIT VOICE RECORDER (CVR), FLIGHT DATA RECORDER (FDR), COMBINATION VOICE AND DATA RECORDER (CVDR)
Pin configuration for CVR/FDR/CVDR personality at installation
25 hour minimum of 4-channel audio and GMT/datalink recording to meet new mandate (CVR/CVDR)
70+ hours of flight (FDR) recording @ 2048wps
TSO C123c, C124c, C177a, and ED-112A compliant
90-day Underwater Locator Beacon (ULB)
Flange mounting with Mil-38999 connectors
Gigabit Ethernet ground support equipment interface for faster download speeds
Power Consumption
10W max @ 28VDC
Approximate weight
8.97 lb. (4.07 kg)

RECORDER INTERFACE UNIT (RIU)
Pin configuration for CVR/FDR/CVDR personality at installation
TSO C123c, C124c, C177a, and ED-112A compliant
> Flange mounting with Mil-38999 connectors
Gigabit Ethernet ground support equipment interface for faster download speeds
Integrated web server for GSE using standard browser
Optional Ethernet interfaces 10/100Base-T x2 for Ethernet or IP video recording
Power Consumption
< 12W max @ 28VDC
Approximate weight
2.5 lb. (1.13 kg)

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