

Flexible Recording Options: Five Models Available
Internal Recorder Independent Power Supply (RIPS) Option

CVR/FDR

Cockpit Voice and Flight Data Recorders

No Internal Batteries to Maintain
Helicopter Rotor Speed
Meets ED-112



Lightweight and Compact Recorders

Universal Avionics line of Cockpit Voice and Flight Data Recorders (CVR/FDR) includes five model options, providing a customized recording solution for your aircraft. The line offers an independent as well as a combination or “combi” Cockpit Voice and Flight Data Recorder (CVFDR), each with an internal Recorder Independent Power Supply (RIPS) option. Weighing less than nine pounds, the lightweight and compact models are the most advanced and convenient recorders available today.

The CVR and CVFDR models provide 120 minutes of cockpit voice and ambient audio recording, as well as 120 minutes of data link message recording. The FDR and CVFDR models record at least twenty-five hours of flight data recording and interface with data downloader tools to allow quick download of data from virtually any aircraft between flights. The FDR and CVFDR also feature an Ethernet interface for on-aircraft data downloading.

A unique internal RIPS option provides a backup power source in the event of a main power failure and allows aircraft to meet the Federal Aviation Administration’s (FAA) latest RIPS requirement without the additional size, weight and complexity of an external RIPS unit. Universal Avionics’ proprietary technology provides these capabilities without the need to maintain internal batteries.

The CVR/FDRs were developed in compliance with the rigorous testing and crash survivability standards stipulated by the FAA and other aviation authorities around the world. Operators can meet all regulations for cockpit voice, digital flight data and data link recording with the convenience of our small, lightweight unit.

The CVR/FDR meet the following certification and safety requirements:

- TSO-C123b, Cockpit Voice Recorder Systems
- TSO-C124b, Flight Data Recorder Systems
- TSO-C155, Recorder Independent Power Supply
- TSO-C177, Data Link Recorder Systems
- EUROCAE ED-112, Minimum Operational Performance Specification for Crash Protected Airborne Recorder Systems
- FAA Revisions to Cockpit Voice Recorder and Digital Flight Data Recorder Regulations; Final Rule

Specifications

CVR/FDR Product Models

- CVFDR-145 (Combined CVR and FDR unit)
- CVFDR-145R (Combined CVR and FDR unit with embedded RIPS)
- CVR-120A (Baseline CVR)
- CVR-120R (CVR with embedded RIPS)
- FDR-25 (Baseline FDR)

Hardware

- Size: Height 6.1 in.
- Width 4.9 in.
- Depth 8.0 in.
- Weight: 8.6 lbs. with RIPS
- 8.0 lbs. without RIPS
- Power: 28 Vdc/115 Vac
- Mounting: Circular connector, bolt-down mount

Recorder Independent Power Supply (RIPS)

Optional backup power allows the CVR/CVFDR to record data for 10 minutes +/- 1 minute after a power fail

Voice/Data Stored In Solid-State Flash Memory

Recording Times

- 120 minutes of cockpit voice and ambient audio (CVR, CVFDR)
- 25 hours of flight data (minimum) (FDR, CVFDR)
- 120 minutes of data link messaging (CVR, CVFDR)

Maintenance on Condition Yields

Lower Cost of Ownership

No requirement for periodic maintenance (excluding ULB)

ARINC-757 Compatible Recorded Inputs

- Three crew microphones
- One area microphone
- Helicopter rotor speed
- UTC or FSK time
- Data link ARINC 758

Bulk Erase Feature

ARINC 717 Flight Data Recording

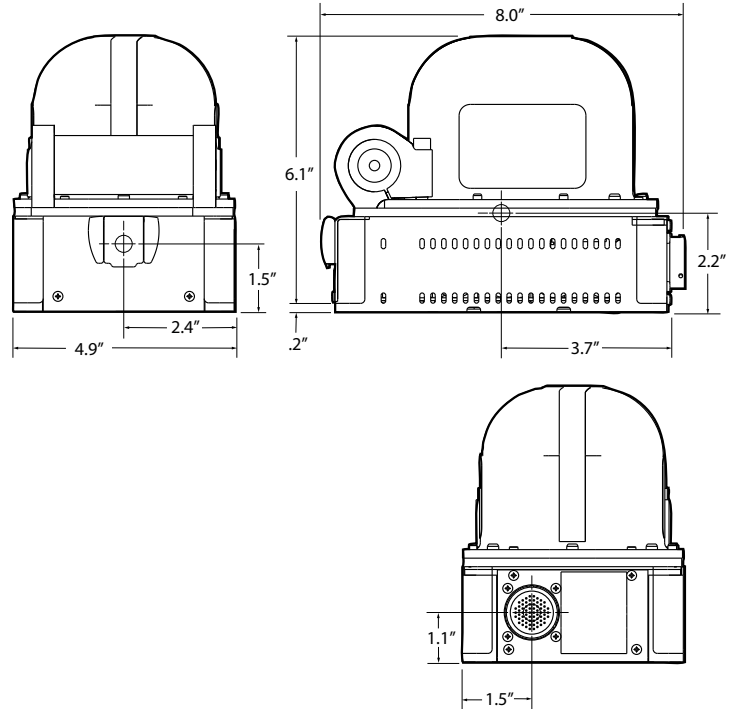
Additional data storage beyond 25 hours

Control Unit Options

Dzus mount or remote CCU

Test Set

PC-based ramp testing/diagnostic



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Features and capabilities are representative of systems at time of printing. Please contact your Universal Avionics sales representative for the latest system enhancements. Specifications contained herein are subject to change without notice.