

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 newest, most rigorous testing and crash survivability standards stipulated by the FAA and other aviation authorities around the world. Operators can now meet all published and emerging regulations for cockpit voice, digital flight data and data link recording with the convenience of a 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

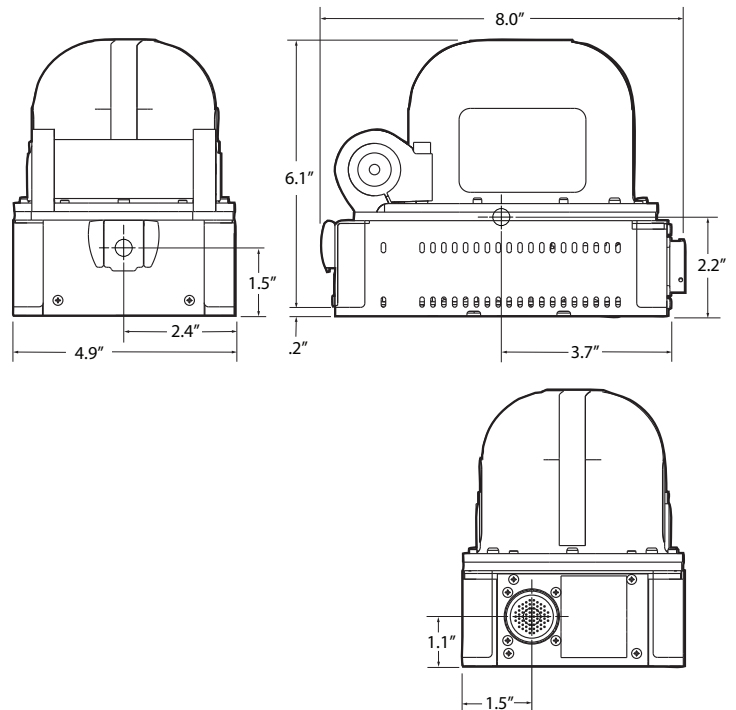
Additional data storage beyond 25 hours

### 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.