CURTISS-WRIGHT

Fortress Flight Recorders

Trusted. Proven. Leader.

CURTISS-WRIGHT

Aircraft often have safety concerns that can, or in many cases must, be addressed with a suitable crash protected recording solution. Flight recorders can meet these needs, but the introduction of new regulations may mean existing solutions no longer meet the requirements. Other aircraft OEMs and operators find they lack a recording solution with the functionality to help address high maintenance costs.

Curtiss-Wright has been designing flight recorders for over 65 years. Fortress™, our latest product line, meets all current and anticipated regulations, including ED-112A and 25-hour voice / datalink recording. Additionally, it is a highly flexible platform with the ability to collect and process custom data sets for various applications including maintenance operations.

Fortress features include

- Standalone or combined voice, data, datalink, and image recording to enhance flexibility and minimize SWaP

- Custom interface, form factor and data acquisition options to meet aircraft and application requirements

- Full ED-112A compliance that exceeds 25-hour cockpit voice recorder (CVR) requirements

- Integrated webserver for fast and free data download

- 90-day underwater locator beacon (ULB)

1957 - First magnetic crash recorder in service

Fortress Models

The Fortress flight recorder family was designed to meet the unique requirements of different aircraft without expensive customization and NRE. All Fortress flight recorders are based on the same core electronics and software, and almost any specific requirements can be met on each model. Find your perfect fit among the following selection of field-proven Fortress flight recorders.

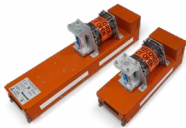|	Model	Description	Details
	757	Off-the-shelf Replacement for Fast Deployment	Standard ED-112A flight recorder. Ideal for replacing ARINC 757 recorders, including MPFRs (form and fit compatible). It provides the longest record duration and highest quality audio of any recorder on the market.
	HCR-25	Honeywell Connected Recorder-25	Curtiss-Wright and Honeywell jointly developed the Honeywell Connected Recorder-25 (HCR-25) CVR and FDR for the commercial airline and business jet market. They meets all current and anticipated regulations including 25-hour audio recording and supports real-time data streaming for the GADSS initiative.
	CVR-25 FDR-25	25-Hour CVR & 25-Hour FDR	The Fortress CVR-25 and FDR-25 provides 25 hours of high-quality cockpit voice recording and data respectively for rotorcraft and defense platforms. The CVR-25 also provides one channel of CPDLC datalink recording and the ED-112A compliant FDR-25 has leading data recording capacity (210+ hours @ 4,096 wps).
	DAFR	Broad Range of Interfaces for Data-Driven Applications	DAFR acquires more data than mandatory using sensor interfaces or off avionics busses such as ARINC 429, ARINC 664, or Ethernet. Can remove the need for a flight data acquisition unit.
	CPMM	Crash Protected Memory Module for Custom Developments	Ideal for those without in-house resources to develop flight recorders or protected storage solutions.
	OEM	Additional Computational and Data Functions for Custom Applications	Ideal for those looking for a custom recorder using some of their own electronics or another Curtiss-Wright module (such as HUMS, encryption, or GADSS solution).
	CSR	ARINC 404A Combined CVR/FDR with Removable Memory	Acquires more data than mandatory and has an additional integrated removable media for fast data access.

Flight Recorder Accessories

RIPS:
Recorder Independent Power Supply

Supplies continuous power to the CVR for 10 minutes after power is lost.

CCU:
Cockpit Control Unit

Control unit for your flight recorder providing an interface for the crew.

PGS:
Flight Data Replay Software

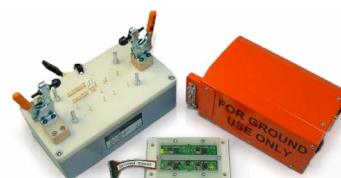Recreates flight in graphical, tabular, aural, and visual format.

CAM:
Cockpit Area Microphone

For recording ambient sounds in the cockpit. Interfaces directly with crash recorder.

CAC:
Cockpit Area Camera

Color H.264 HD camera with Ethernet interface. Can be mounted anywhere in the cockpit to capture instrument displays and switch settings.

CDRE:
Crash Damaged Recovery Equipment

Provides a means of recovering data in the event of damage to a recorder following an accident.

TXA201:
Tri-Axial Accelerometer

The TXA201 is suitable for nonenvironmentally controlled equipment bays and utilizes modern MEMS technology to easily replace outdated accelerometers.

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