



Data Management & Recorders

Aircraft Systems Recording Equipment & Services

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[Home](#) ◀

[Voice Recorders](#) ◀

[Flight Data Recorders](#) ◀

[Ground Support Equip](#) ◀

[Data Management](#) ◀

[PCMCIA Cards](#) ◀

[ADRAS For Windows](#) ◀

More than 40 years as the leader...
Smaller and Lighter than ever...

The New AR Recorders Product Family for Business/General Aviation and Helicopters



If you have a Recording need for your 28v aircraft, our new series of Advanced Recorders (AR) exemplify the Honeywell commitment to innovative solutions to improving the safety of flight - lighter and stronger than ever!

Shipping in CVR, FDR or "Combi" configurations.

Designed for Easy Maintainability

Modular construction means easy, low-cost maintenance:

- The AR series has been designed to detect and isolate errors to the Shop Replaceable Unit (SRU)
- The chassis consists of three easily replaceable (SRUs) - Controller board, Crash Survivable Memory Unit (CSMU) and Input and Power Supply board - making maintenance and repair simple (Estimated Mean Time to Repair [MTTR] of 30 minutes.)
- An Underwater Locating Beacon (ULB) is installed on the CSMU.
- No scheduled periodic maintenance or servicing is required during the life of AR products (except for the ULB, which requires battery replacement approximately every 6 years).

Low Cost of Ownership

Honeywell's "AR" series of Solid-State cockpit voice, flight data and "combi" recorders represent the standard for reliability and support.

- Field Reliability (MTBF) - 20,000 hours guaranteed (observed "mature" MTBF for similar AlliedSignal SSFDR/ SSCVR is observed in excess of 50,000 hours for SSCVR and 90,000 for SSFDR).
- Useful life in excess of 20 years, not including the ULB
- "On demand" maintenance only - no calibration requirements
- Low weight
- Field repair - only 3 SRU 's allow for simple repair
- World-wide product support
- Five-year warranty - standard

Honeywell ADRAS(TM) sets the standard for system support

Aircraft Data Recovery and Analysis Software (ADRAS)

Personal Computer (PC) based, MS Windows® operation provides for: Tabular and strip-chart presentations

- Logical search and zoom features
- Database and configuration changes via included editor
- Minimal data-search times
- Batch processing of data

Hand-Held Download Unit (HHDLU)

On-aircraft SSFDR download unit via RS -422 interface using a PCMCIA memory cartridge as the data transfer medium; approximately 5 min. for 64-word/sec., 25-hour memory capacity models.



Automatic Test Unit (ATU)

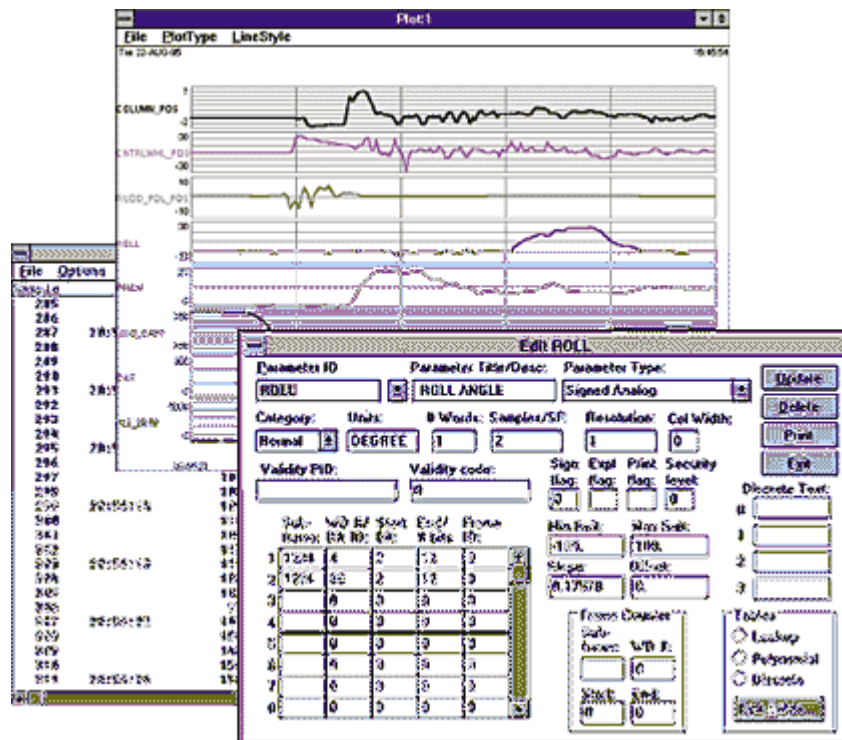
PC-based workstation used as the platform for Honeywell ADRAS for Windows® flight data analysis software. Also provides full Windows® based acceptance test, return-to-service and diagnostic software. Also includes a PCMCIA receptacle for the SSFDR and UFDRs upgraded to

solid-state. As an option, the ATU can also serve as the download, playback and test platform for tape-based UFDRs.

Playback and Test Station (PATS)

PC based workstation which includes Windows® based acceptance test, return-to-service and diagnostic software for the SSCVR. Also provides full audio playback of all recorded information, including the optional Rotor Speed and GMT FSK time indication, using industry standard audio data file formats.

The Standard for Performance and Reliability



Advanced Recorder Series Solid-State Cockpit Voice and Flight Data Recorders

Newest Generation of Recorders, Designed for Smaller Aircraft

The Honeywell AR recorders are may be used in any aircraft type but are

specifically designed for Business and General Aviation aircraft and helicopters/rotorcraft, where space and weight are of major concern. The compact SSCVR and SSFDR products, as well as a combined SSCVR/SSFDR "Combi", are part of this new line.

- AR Cockpit Voice Recorder
- AR Flight Data Recorder
- AR Combined Cockpit Voice Recorder/Flight Data Recorder (AR Combi)

Features

Honeywell presents the newest technology in recorders - the Advanced Recorders Series - specifically designed for General Aviation aircraft and meeting customer requests to minimize weight, reduce installation cost and delete maintenance.

- Smaller, lighter than ever - only 8.8 lbs.
- Quick, simple installation - no mounting tray required
- No scheduled maintenance or overhaul

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Proven Technology and Reliability

Honeywell has been providing cockpit voice and flight data recorders to the industry for over 40 years. The AR Series are built upon state of the art solid-state memory technology exceeding current industry standards for crash survivability, utilizing exclusive hazard protection technology.

Beating the Standards

AR Recorders meet or exceed all the Minimum Operational Performance Specifications (MOPS) of TSO C-123a/ C-124a and Eurocae ED-56/ 55A.

The AR CVR series of products simultaneously records up to four (4) channels of audio for 30 or 120 minutes. The AR FDR can record at data rates of 64, 128 or 256 words per second for 25 hours. The Combi provides both in one unit. Each system provides as appropriate:

- One area and 2 or 3 crew audio channels
- One ARINC 717 or ARINC 429 data input
- GMT input
- Rotor tachometer input
- Two, spare ARINC 429 inputs (reserved for CNS/ATM)

Industry's Premium Crash-Survivable Memory Unit

The AR Series crash survivable memory unit (CSMU) is designed to ensure complete data recovery when subjected to the crash survivable requirements of ED-55/ 56A (shown below.) These changes are the result of Honeywell's more than 40 years' experience in the design and production of protective enclosures:

- Impact shock of 3400Gs
- 500 lbs. dropped from 10 feet
- Penetration and static crush 5000 lbs
- High temperature fire exposure in excess of 60 minutes at 1100°C
- Low temperature fire exposure of 260°C for a period of 10 hours
- Deep water immersion at a depth of 20,000 feet for a period of 30 days

Microphone Monitor

In order to reduce weight and cockpit panel space the microphone pre-amplifier is

- Maintenance and status outputs contained within the microphone unit, eliminating the need for a control panel.
 - Optional CVR Erase Switch and Audio (headphone) monitor located where space permits
 - Extensive Power-On, built-in self test eliminates push-to-test requirement