

# AMIR-100C

CRASH SURVIVABLE MISSION DATA  
RECORDER

VIDEO & AUDIO & DATA RECORDING  
CRASH SURVIVABLE REDUNDANT MEMORY  
ED-112A FULLY COMPLIANT





# AMIR-100C

## CRASH SURVIVABLE MISSION DATA RECORDER

Crash Survivable Mission Data Recorder (AMIR-100C) is an electronic unit designed by ASELSAN to store and protect flight, audio and video data within its protected structure against extreme conditions of an accident.

By keeping the recorded data in the Crash Survivable Memory Unit (CSMU), it is ensured that the data is preserved in severe external conditions such as crash impact, severe temperature and deep sea pressure that may occur during an accident.

ULB (Underwater Locator Beacon) enables the location to be determined with its signal transmitter, in case the AMIR-100C falls into the water after an accident.

AMIR-100C can transfer the recorded data to the user after each flight via its ethernet interface. Post-flight data can be analyzed by ground station software developed with the equipment.

The AMIR-100C can operate in the harsh environmental conditions of fixed and rotary wing platforms thanks to its reliable, durable design, advanced conduction and natural convection cooling techniques.

Thanks to its compact and rugged design and multiple interface support, the AMIR-100C can be integrated into different aerial platforms.

### General Specifications

- ED-112A Fully Compliant
- Redundant Memory (ED-112A compliant)
- SAE 8045A compliant ULB
- 128 GB Memory
- Video, Audio and Data Recording
- Ground Station Software
- Conduction Cooling
- Multiple Interface Support

### Interfaces

- HD-SDI Digital Video I/O Interface
- Display Port Digital Video I/O Interface
- NTSC/ PAL Analog Video I/O Interface
- ARINC-429 I/O Interface
- Serial Interface (RS-232/RS-485/RS-422)
- Discrete I/O Interface
- Ethernet (10/100/1000 Mbps) Interface
- Dual Redundant MIL-STD-1553B Interface

### Physical Specifications

- Dimensions : 130 mm (W) x 240 mm (L) x 240 mm (H)
- Weight: < 6 kg

### Technical Specifications

- Power Input : 28 VDC (Nominal)
- Power Consumption : 25W (Nominal) / 40W (Maximum)
- Power hold-up for short time power interrupts

### Environmental Conditions

- Operating Temperature and Altitude: -40°C / +71°C, 50.000 ft
- Storage Temperature: -55°C / +85°C

### Qualifications

- MIL-STD-810H
- MIL-STD-461F
- MIL-STD-704A/F
- DO-160E
- EUROCAE ED-112A