

## COMPLETE SYSTEM FOR HIGH-RESOLUTION UAV/ROV-BASED MAGNETOMETRY & COMPENSATION

State-of-the-art system for magnetometry based on Unmanned Aerial Vehicles (UAVs) or Remotely Operated (Underwater) Vehicles (ROVs), with real-time compensation and general-purpose data acquisition/recording. Allows configurations with a single high-sensitivity magnetometer, or with two magnetometers in a gradiometer setup.

Intended for applications that require compensation of the magnetic interference generated by the platform, typically in fixed-mount installations. When coupled with advanced real-time compensation technology, this offers a largely superior approach to towed-sensor installations, with lower residual errors and none of their inherent risks and logistical issues.

## AARC52 Adaptive Aeromagnetic Real-Time Compensator [AARC52 Datasheet]

- Integrated magnetometer power/decoupler module for two sensors
- Real-time compensation of total-fields and gradient
- Includes fluxgate (vector) magnetometer for attitude reference
- Integrated dual-frequency GPS receiver (L-Band corrections)
- Built on the foundation of highly reliable hardware and firmware, and sophisticated and robust algorithms that have been proven in a multitude of installations
- Consistent with the magnetics, ancillary data acquisition is delivered with unparalleled performance, accuracy and reliability
- Full remote control and real-time monitoring from any Windows-based computer
- Scintrex CS-VL Magnetometers [CS-VL Manual]
  - Optically-pumped, self-oscillating cesium vapor magnetometer sensors for UAV/ROV applications
  - Very high sensitivity, narrow dead zones, low heading errors, simple integration extensively proven in a variety of airborne installations

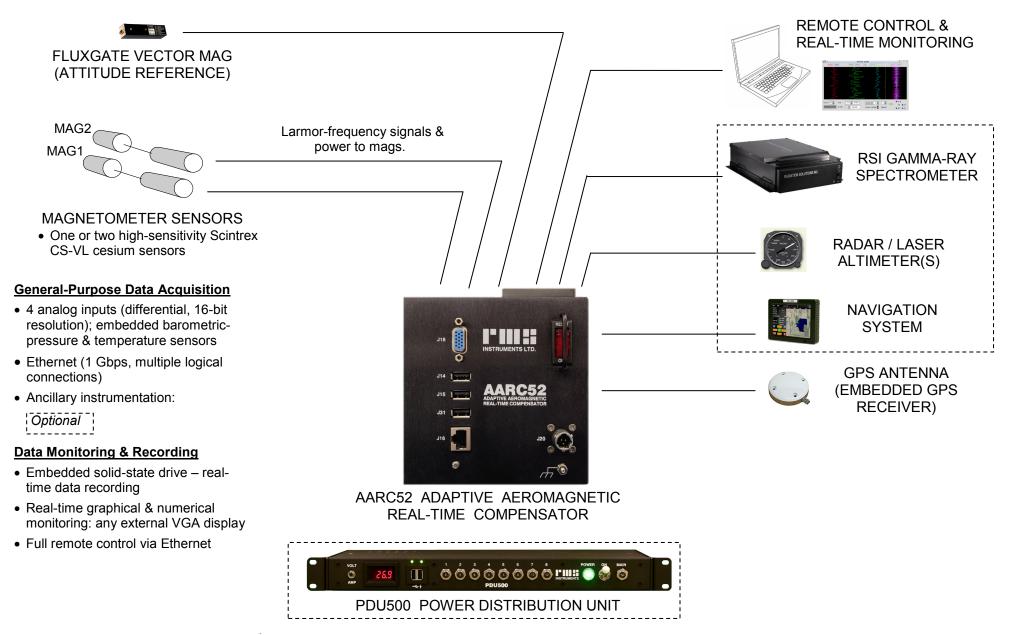
## Flying-Cam UAV Helicopters [Website]

- Fully-integrated, fixed-mount solutions on industry-leading helicopters, designed to meet or surpass the most stringent general aviation standards
- Single magnetometer or lateral gradiometer configurations
- Electric (up to 10-kg payload, 60-min flight time), or turbine (up to 30-kg payload, 3-hr flight time)



Photo courtesy of Flying-Cam.

□ Ancillary instrumentation: PDU500 Power Distribution Unit (*PDU500 Datasheet*), radar and/or laser altimeters, navigation system, etc.



AIRBORNE GEOPHYSICAL EXPLORATION CONFIGURATION

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