

GEM-2 UAV Sensor Package

The GEM-2 UAV is a special version of our GEM-2 handheld electromagnetic sensor.



The GEM-2 UAV shares most of the features and specifications of the GEM-2 Ski handheld sensor. It features frequency domain operation, at up to 10 simultaneous frequencies between 210 Hz and 96 kHz.

The sampling rate is 25 or 30 Hz for local noise rejection. It measures In-phase and Quadrature response at each frequency + power line amplitude. Timestamps and GPS input are automatically merged with the recorded data. Recommended flight altitudes are 1-2 meters.



Courtesy of US DOE, National Energy Technology Laboratory

The weight of the sensor is approximately 3 kg.

Instead of using an internal battery, the GEM-2 UAV draws power from the UAV batteries. The power requirement is 22-36 VDC at 20 watts.

The sensor is equipped with a MicroSD data logger for autonomous operation. The data logger will record all the survey data so that communications with the sensor are not necessary during a survey.

The GEM-2 UAV package includes: sensor boom (ski) with electronics console, power cable with pigtail leads, pre-formatted Micro SD card, a calibration ferrite and CD-ROM containing the manual and the operating software. The unit is factory calibrated and pre-configured for immediate use.

For more information, refer to the handheld GEM-2 documentation.

