



# MS-1000

*Large drone-borne spectrometer*

The Medusa MS-1000 is designed to be the best gamma-ray spectrometer for drone use. With a weight of 6.7 kg, it's ideally suited for attachment to off-the-shelf heavy-duty drones. This allows for efficient measurement of naturally occurring radionuclide concentrations in an area while moving at speeds exceeding 20 km/h.

## **medusa Detector Operating System (mDOS)**

A uniform interface for all our products. Whether doing an airborne survey, locating a lost source with a UAV, or using our detector for a handheld survey for mapping the environment, you can count on using the same familiar interface. This piece of software is developed for in-the-field usage. Optimized for ease of use and to automate your survey workflow.

## **KEY FEATURES**

- ✓ 6.7 Kg, easy to integrate under a drone
- ✓ Optimized for ease of use
- ✓ Integrated data storage and processing
- ✓ Life-long feature updates



## **TYPICAL APPLICATIONS**

- ✓ Drone-borne measurements
- ✓ Backpack soil scanning
- ✓ NORM characterization
- ✓ Contamination mapping



## MAPPING MADE EASY

The Medusa gamma-ray spectrometers can effectively map the radionuclide concentration of an area. Through its automated onboard data processing, the detector calculates the concentrations in the ground. This automation facilitates the generation of real-time maps, simplifying the evaluation of potential critical radionuclide contamination in the area. With this advanced system, conducting a survey is made easy and doesn't require specialized knowledge of gamma-ray data processing.

## TECHNICAL SPECS:

### Gamma-ray spectrometer

Scintillation crystal:	3×9" (1 l) CsI
Mapping speeds:	> 20 km/h
Recording frequency:	up to 5 hz
Online radionuclide analysis:	<sup>40</sup> K, <sup>238</sup> U, <sup>232</sup> Th and <sup>137</sup> Cs

### GPS

Type:	uBlox ZED-P9P
Accuracy:	1.5 m CEP
RTK accuracy:	<1 cm
Signals:	GLOSNASS, Bei-Dou, Galileo

### Data

Format:	JSON, NMEA, CSV
Streaming:	RS-232, ethernet and Wi-Fi
Sensors:	Spectrometer, GPS, PTH
Internal storage:	16 GB

### Mechanical

Dimension:	100 (Ø) x 375 (L) mm
Weight:	6.7 Kg
Operating T:	-20 to +65 °C
IP rating:	IP65

### Electrical

Input voltage:	5-35V
Power consumption:	3W (avg), 6W (max)
Battery:	Up to 8 hours

### Connectivity

Wi-Fi:	2.4 and 5 Ghz
Ethernet:	100 Mbps
Port:	RS-232, USB (optionally)

## CONTACT US:

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