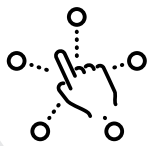




HERMES

MOBILE GAMMA SPECTROMETRY AND SURVEY UNITS



Wide range of detectors
and configurations

Detectors: NaI(Tl) with MCA,
Geiger-Muller, CsI(Tl), plastic

Rugged, high-protection
case with foam filling

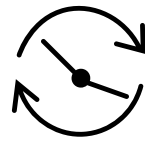
Customisable dimensions,
connections and equipment

Integrated GPS, LAN,
WiFi, 4G

Touch-screen panel PC with
intuitive user interface SW



Rugged portable case for
outdoor applications



Real-time radioisotope
identification

HERMES systems are portable, easily deployable units designed to perform field measurements of gamma radiation or gamma spectrometry analysis, for applications such as radiation monitoring, geology research, laboratory analysis, environmental survey, etc.

HERMES product line includes many customisable versions:

- **HERMES NAI** or **CSI**, with NaI(Tl) or CsI(Tl) detector and MCA to perform gamma spectrometry
- **HERMES GM** or **PLAS**, with Geiger-Muller or plastic detector for gamma monitoring
- **HERMES HUB**, with panel PC and software, collecting data from one or more HERMES units

The “HUB” component can also be integrated in any of the HERMES version, in order to provide an all-in-one configuration.

All available units can be used both as portable and fixed devices, and they can also be configured to be used on mobile laboratories thanks to wall-mounting plates and low voltage supply connection.

The **HERMES** data management and processing software provides dose rate values, nuclide identification and a heat map of the acquired data. The scan results are continuously saved into the local memory for further processing, together with GPS coordinates.

HERMES units can also be controlled through LAN or Wi-Fi (smartphone or tablet), thus allowing to operate remotely while the case is closed.

CONFIGURATION EXAMPLE

A representative configuration of HERMES unit is **HERMES NAI HUB**, which includes a rugged case with foam filling and insulation suited for outdoor environments and a 4"x4"x4" NaI(Tl) scintillation detector with PMT and MCA. This unit is designed to be used as an all-in-one device, with an integrated panel PC and internal rechargeable batteries, to perform field surveys and spectrometry analysis. The unit has connectors for mains power, LAN, GPS and WiFi.

TECHNICAL SPECIFICATIONS (HERMES NAI HUB)

- Typical resolution at 662 keV (Cs-137): <7.5%
- Energy range: 30 keV ÷ 3 MeV
- Gamma dose rate range: 0.03 μ Sv/h ÷ 10 μ Sv/h
- Identified radionuclides: industrial, natural, medical
- Automatic gain stabilization, continuous GPS coordinates recording
- MCA: 2048 channels
- Power: Li-Ion / Lead Acid batteries
- Operating temperature: -20°C ÷ 50 °C
- Dimensions (WxLxH): 480 x 420 x 230 mm
- Weight: approx. 22 kg, case included
- Protection grade: IP65
- Communication: LAN, WiFi, 4G, BT4.0



HERMES NAI HUB

OPTIONS

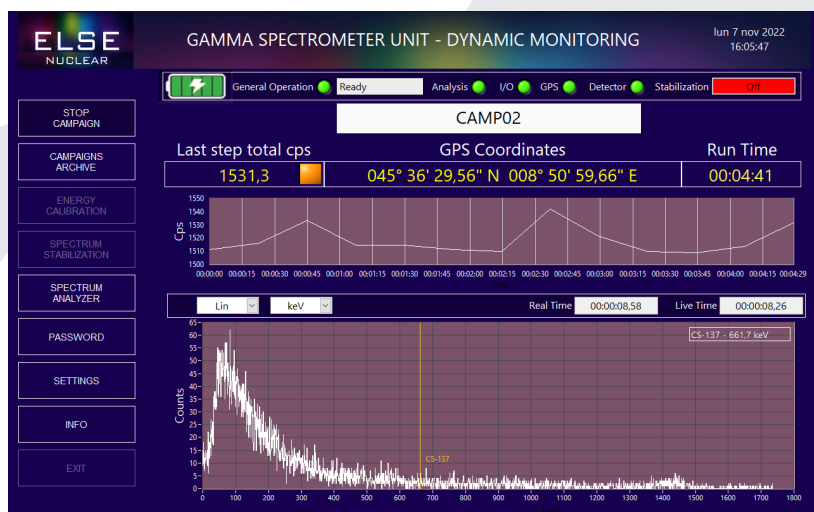
- NAI, CSI, GM, PLAS versions
- All-in-one configuration with integrated HUB component

ACCESSORIES AVAILABLE UPON REQUEST

- Vehicle mounting kit
- Outdoor long-term operation mounting kit
- Backpack configuration
- Photovoltaic panel power supply system
- Warranty extension from 12 months to 24 months



Outdoor long-term installation example



HERMES user interface example

