

MOBILE MICROSPEC

Simple when you want it. Smart when you need it.



BTT's revolutionary MICROSPEC™ was the world's first handheld radiation spectroscopy system. Now, this proven technology has been engineered for mobile early warning and emergency response applications. Built for mobile applications, the MOBILE MICROSPEC delivers the most accurate dose information, isotope identification, and radiation mapping capabilities in a portable, rugged unit. The MOBILE MICROSPEC is simple to use in the field, but provides the advanced data needed by experts to make the right decisions at the right time.

- Supports two probes simultaneously for extended gamma sensitivity range or monitoring of two radiation types
- Uses BTT's advanced spectroscopic probes (gamma, neutron with gamma suppression, X-ray, and beta with gamma suppression)
- Provides isotope-specific dose and dose rate, detailed spectroscopic data, and real-time dose rate mapping via on-board GPS
- Comprehensive, user-accessible isotope library with automatic peak search and isotope identification
- Ideal for mobile applications
- Splash and dust resistant (MIL810E)
- EMI certified (MIL461E)
- Remote operation by wireless link (optional)

MOBILE MICROSPEC™

Technical Specifications

(Visit www.bubbletech.ca for more information)

PHYSICAL SIZE

Analyzer: 33.0 x 23.0 x 16.2 cm (13.0 x 9.1 x 6.4 in)
4.1 kg (9.0 lb)

Probe: 1.5 to 4.0 kg (3.3 to 8.8 lb)
(Varies with probe type)

POWER

Type: Built-in rechargeable NiMH battery
or external 12-32 V power supply
(selectable)

Runtime: >12 hours, fully charged

Charger: 110 - 240 V, 50/60 Hz autosensing

TEMPERATURE

Operating: -20 °C to +40 °C (-4 °F to +104 °F)

Storage: -40 °C to +70 °C (-40 °F to +158 °F)

CASE

Type: High performance transport case with
custom-cut protective foam liner

SPECTROSCOPIC PROBES*

Gamma: NaI (various sizes)
50 keV to 8 MeV

X-ray: NaI with Be window
5 keV to 200 keV

Beta: Phoswich scintillator
100 keV to 3 MeV

Neutron: Liquid scintillator and ³He counter
Thermal to 20 MeV

*Additional data sheets available for probes

OPTIONS

- Ruggedized laptop (Windows 7 supported) for operation of the system in harsh environments
- RS232-based transceiver system for remote control and data acquisition

OPERATING MODES

Dosimetry:

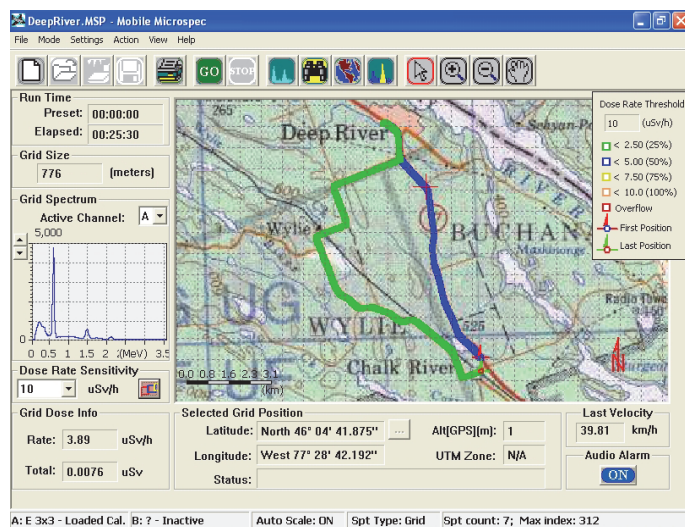
- Dose rate and cumulative dose in both mrem and μ Sv units
- H*(10), H'(0.07,0°), H'(3,0°) dose conventions
- Region-of-interest specific dose
- Two level audio/visual alarms

Spectroscopy:

- Automatic peak search and isotope identification
- 1 second spectrum update
- Dose and dose rate information
- Region-of-interest dose

Mapping:

- On-board GPS
- Full spectrum available at each measurement point
- Scalable grids for map display
- Spectral region-of-interest mapping



MOBILE MICROSPEC Mapping Mode

- Ability to incorporate GEOTIFF maps or satellite images for real time, global positional radiological data

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