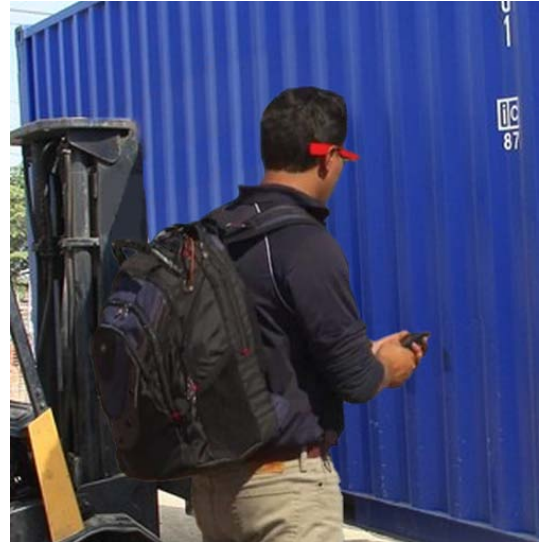


MP100

Backpack Radiation Detection



Covert Radiation Inspection

Gamma and Neutron Radiation Detection

High sensitivity

Lightweight and Easy to Use

The Rapiscan MP100 Backpack Radiation Detection system is a lightweight, high performance, easy to use radiation monitor housed in a compact commercial backpack. All of the features required for radiation detection are integrated in the MP100. It can be used as a standalone device and connected wirelessly to a Rapiscan oversight system for remote data collection and display. The MP100 is ideal for performing covert radiation inspection to find radiological and nuclear materials, for supporting security operations and for performing radiation surveys.

Standard Features

Gamma Radiation Detection

Optional Features

Neutron Radiation Detection

Gamma and Optional Neutron Radiation Detection

The MP100 uses commercial-off-the-shelf, field-proven electronics and detection technology. The PVT plastic scintillator gamma radiation detectors are designed to deliver enhanced directional sensitivity. Optional neutron detection capability employs B10 neutron detectors, which replace scarce and expensive He3 detectors. Both gamma and neutron radiation detection performance meet the requirements of ANSI N42.53.

Easy to Use Operation

Using the MP100 is as easy as walking. The Rapiscan Radviewer™ Android App displays the current position and direction toward the radiation source. A radiation alarm is signaled audibly via a headphone jack on the backpack or visually via Radviewer™. The onboard battery enables 16 hours of continuous operation in a wide range of environments. The MP100 can also be used as a static area monitor

Proven Radiation Inspection Technology

The MP100 is manufactured by Rapiscan's Radiation Detection Products division, which has supplied thousands of radiation monitors that are deployed at border crossings, seaports, airports and facilities around the world. The MP100 applies proven Rapiscan design principles and technology to a practical, high performance man-portable radiation detection solution.

Applications

- Customs and Border Control
- Event Security
- Defense
- Law Enforcement

MP100

SPECIFICATIONS

Physical

| | |
|----------------------------|--|
| Configuration | Radiation detection system in a backpack |
| Backpack | Commercially available backpack |
| Gamma Radiation Detector | 2 PVT plastic scintillator gamma detectors |
| Gamma Detector Volume | 1.2 liters |
| Electronics | Low noise electronics with embedded algorithms |
| Weight with Gamma Detector | 6.3kg (14lb) |

Performance

| | |
|---------------------------|---|
| Gamma Radiation Detection | Meets ANSI N42.53 detection performance. |
| Background Updates | Automatic background updates; manual updates per ANSI N42.53 |
| Azimuthal Response | Dual PVT detectors provide superior azimuthal response uniformity |

Operation

| | |
|--------------------------|---|
| Inspection Modes | Transportable search or static area monitor |
| Alarms | Audible alarm via headphone jack or visual alarm via Radviewer™ Android App |
| Control | Configurable alarm and algorithm parameters |
| Graphical User Interface | Rapiscan Radviewer™ Android App |
| Source Location | Left/right source location with Radviewer™ App |
| GPS | GPS coordinates via Android device |
| Power | Lithium-ion battery |
| Battery Life | 16 hours continuous operation |
| Network Interfaces | Wifi, wired Ethernet, TCP/IP |
| Remote Oversight | Rapiscan RTDC™ and RAVEN™ |

Operating Environment

| | |
|-------------|-------------------------|
| Temperature | -10°C to 50°C |
| Humidity | 5 to 95% non-condensing |

Options

| | |
|-----------------------------|---|
| Neutron Detector | B10 detector |
| Neutron Radiation Detection | Meets ANSI N42.53 detection performance |
| Weight with Gamma-Neutron | 10kg (22lb) |
| Environmental Protection | IP66 rated backpack |

