

MP100 BACKPACK RADIATION DETECTION

High performance radiation inspection with a backpack.

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.

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.

Standard Features

Gamma Radiation Detection

Optional Features

Neutron Radiation Detection

Markets

Customs and Border Control

Event Security

Defense

Law Enforcement

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Physical Specifications

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 Specifications

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

With continual development of our products Rapiscan Systems reserves the right to amend specifications without notice. Product pictures are for general reference. Please note that due to US laws and regulations, not all Rapiscan products are available for sale in all countries without restriction. Please contact your Rapiscan Systems sales representative for more information.

RAPISCAN RADIATION DETECTION PRODUCT LINE HEADQUARTERS

14000 Mead Street
Longmont, Colorado 80504
UNITED STATES of AMERICA
Tel: +1 970-535-9949
Fax: +1 970-535-3285

AMERICAS, CARIBBEAN

2805 Columbia Street
Torrance, California 90503
UNITED STATES of AMERICA
Tel: +1 310-978-1457
Fax: +1 310-349-2491

EUROPE, MIDDLE EAST, AFRICA

X-Ray House
Bonehurst Road
Salfords
Surrey RH1 5GG
UNITED KINGDOM
Tel: +44 (0) 870-7774301
Fax: +44 (0) 870-7774302

ASIA

240 Macpherson Road
#07-01 Pines Industrial Building
Singapore 348574
SINGAPORE
Tel: +65-6846-3511
Fax: +65-6743-9915

EMAIL

sales@rapiscansystems.com

WEB

www.rapiscansystems.com

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systems

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www.rapiscansystems.com