Globalsonics
Research Pty Ltd

Designed and
Made in Australia

AUSTRALRAD MINI 8-IN-1 WIRELESS with GPS

Powerful multi-radiation detection

1. Area monitor (with wall mounted bracket)
2. Survey meter (for gamma only)
3. Contamination meter (with Pancake detector for alpha, beta and x-ray)
4. Personal dosimeter (for gamma only)

Optional

5. Wipe Test Counter
6. Teledetector probe (4 meter rod optional accessory required)
7. Gas detector (accessory required)
8. PH meter (accessory required)

Applications

- **Nuclear industry***
- **Cyclotrons**
- **Defence**
- **Fire brigades**
- **Emergency services**
- **Radio pharmacy**
- **Nuclear medicine**
- **National security***
- **Police**
- **Mining industry***
- **Or wherever harsh environment is present***

Part No. G-400

Made In Australia

Globalsonics Institute for Medical Research Pty Ltd is recognised worldwide for innovative research and design of radiation protection, measurement and detection.

Professor Munoz-Ferrada has dedicated over 27 years to Medical and Scientific Radiation Research with Globalsonics, positioning it as one of the largest and best known organisations in the industry. His commitment has been recognised worldwide, with invitations to speak and to perform live surgical demonstrations at associations, hospitals and universities spanning the globe.

As a leader in the field we constantly strive to provide competitive and reliable technology to fulfil the needs of our clients and our commitment to after sales support extends from installation, well into the future.

The integrity and quality of our products and services are second to none. Globalsonics is committed to providing a continuing maintenance plan which includes regular, preventative service and calibration in out onsite world class facility.

Our ISO 9001 and ISO 13485 accreditations ensure our dedication to quality.

AUSTRALRAD MINI 8-IN-1 WIRELESS

NOW WITH **Bluetooth** WIRELESS TECHNOLOGY

Standard (depends on country)

The AustralRAD Mini has been specifically designed for use in medical and scientific industries where compliance with regulations and safe working conditions are fundamental.

The lightweight, ergonomic design has a number of distinctive features including CMOS processor technology, auto range, built in check source for self diagnostics and password key entry.

The AustralRAD Mini software makes reading measurements easy by depicting stored data on the simple graphic display provided. Downloading the information to a PC or laptop can be achieved by wireless transmission or cable connection, allowing stored results to be saved for scientific analysis at a later date.

All parameters such as the alarm threshold and radiation units can be modified by the software program or some can be done directly through the membrane keyboard on the unit.

Applications

- **Nuclear industry***
- **Cyclotrons**
- **Defence**
- **Fire brigades**
- **Emergency services**
- **Radiopharmacy**
- **Nuclear medicine**
- **National security***
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- **Mining industry***
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Note: *AustralRAD Mini Fukushima model

Function and features

Although the main functionality of the AustralRAD Mini is that of a survey meter, its versatility means that it can also be used for a variety of other applications. For instance, it can also be used as an area monitor when it is connected to the specially designed wall mounted cradle. It can be used as a contamination detector when it is connected to a pancake probe, end window detector or scintillator probe for nuclear medicine applications. As well as a

Dose rate meter or as a Tele-detector when it is complimented with the telescopic extension rod and other accessories to complete the package.

Standard Features

- Internal radiation detector
- Wireless transmission of real time data
- LCD Display: Backlit
- Dose Display: Real time dose and accumulate dose
- Display: Time and date
- Battery: Displays conditions on LCD
- Password: Resettable
- Radiation Units: Displays mR, mR/hr, µSv, µSv/hr, CPS, CPM
- Alarm Display: High and low alarm thresholds
- Conditions: Over range saturation display
- Electronics Diagnostic: Automatic self performed

The Software

Although the AustralRAD Mini has its own LCD display, the unit does come with complimentary software to help analyse data. The unit can be programmed through the micro processor to collect data on request allowing the user to create a map of the area in question. High / low alarms and sampling rates can also be set directly through the instrument or PC.

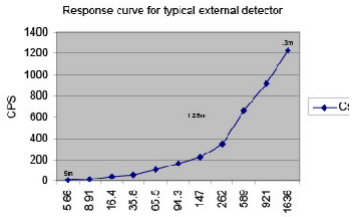
Software features

- User friendly interface
- Graphic display of dose and dose rates
- Sampling programme for time adjustment from 1 second to infinity
- Analyse and review stored data

Optional features

- External radiation detector for gamma
- Internal detector for toxic gas measurements
- Digital video recorder or photographic camera
- Distant measurement
- PH measurement

Display activity & dose



Contamination detector if connected to the Contamat H-3/C-14

for Alpha, beta & gamma

Specifications

- Photomultiplier Tube: 2.9 cm diameter
- Window: 0.25 mg/cm² aluminised mylar
- Window Area: Active area: approximately 100 cm²
- Operating Voltage: Depending of detector used
- Temperature Range: -20°C to +50°C
- Protective Screen: Removable stainless steel honeycomb screen, 79% open
- Size: Length 264.4 mm, Surface of detector 135 x 135 mm
- Weight: 0.9 kg

Le Torch External Detector

Ideal for monitoring large area spills, this detector can be used for the measurement of alpha, beta, gamma & x-ray.

Pancake Probe Detector

Ideal for monitoring large area spills, this detector can be used for the measurement of alpha, beta, gamma & x-ray.

Scintillator

Contamination detector for measurement of alpha beta, gamma.

Remote Detector

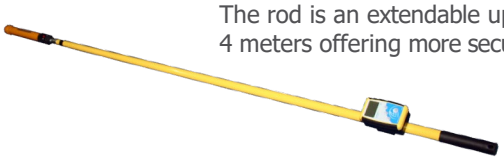
Standalone or as remote detector. PRWD

Toxic Gas Detector

Carbon monoxide, hydrogen sulfide and chlorine. Sensors for other lethal gases available.

Telescopic Probe Detector

The rod is an extendable up to 4 meters offering more security



Specifications

- Energy Response: 20 keV to 2.5 MeV
- Response Time: Typically 1 second from 10-90% of inal reading
- Radiation Detected: Gamma or beta, alpha depending on detector
- Detector: Built in energy compensated GM detector for gamma only
- Accuracy: 10% of full range display, depending on energy response
- Measurement Range: from 0.05 uSv/hr to up to 10 Sv/hr
- Units: (uR/hr, mR/hr, R/hr, nSv/hr, uSv/hr, mSv/hr, cps)
- Batteries: Internal rechargeable alkaline batteries trough wall-mounted cradle
- Readout connections: USB port facility through communicator base to PC to collect data sampling and logging reading of areas of interest.
- Micro processor features: Latest powerful atmel's ARM7 TDMI® ARM® Thumb® processor ,32 Bit RISC architecture, 512kB internal lash memory, 64kB high speed SRAM, 40 MHz speed Serial/ USB/ USART communication.
- Control buttons: Mode – changes readings; Log –stores current display data; Rate/Integrating – displays between the digitized rate value and the integrate value.
- Warm up time: Approximately 10 – 15 seconds
- Audio: Indicates counting event in the detector
- Alarm: Alarm can be set on any decant at 10% to 100% increments of 10% full scale; Setting dose and dose rate; On/off switch; Programmable sampling rate.
- Operating temperature:
  -15°C to +50°C recommended
- Humidity: 0 – 95% non condensed (Note: temperature higher than 40°C will make small changes on the detector depending also on the type).
- Bluetooth: 2.1 SIG qualified
- Display: Manual liquid crystal back illuminated display for low light usage; radio frequency shielded
- Dimensions: Approximately 150mm x 80mm x 30mm
- Weight: 220g (survey meter)

Wall mounted cradle

Charger 240V, 50Hz / 115V, 60Hz USB
port
Red warning light, green operation light Built
in audible alarm over 90 dB Permits the
attachment to main unit
Facility to connect external detector for area monitor applications Am-241 check device built In 0.9 uCi 70 keV energy (optional)

System includes

Main unit AustralRAD Mini 8 in 1 with GM internal detector for gamma and x-ray Wall mounted cradle
User manual
Power supply and cables
AustralRAD software CD (Windows 7 and XP compatible)

Standard

CE: Mark ISO 13485:2016 / ISO 9000/2015 / IP65&68 / ISO IEC 61526 DEF (AUST) 5168
Traceable to the Australian National Standard.

Certified company:
Gammasonics Institute for Medical Research Pty Ltd
ISO 9001:2015
ISO 13485:2016

DESIGNED AND MANUFACTURED IN AUSTRALIA FOR THE WORLD

www.globalsonics.com.au

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