

## SPECIFICATIONS

**Energy Response:** 20 keV to 2.5 MeV

**Response Time:** Typically 1 second from 10-90% of final reading

**Radiation Detected:** Gamma, Beta or Alpha depending on detector

**Detector:** Built in energy compensated end window GM tube for gamma and x-ray optional external for beta and gamma.

**Accuracy:** 10% of full range display, depending on energy response

**Measurement Range:** Auto ranging

**Units:** (uR/hr, mR/hr, R/hr, nSv/hr, uSv/hr, mSv/hr, cps)

**Batteries:** Internal Rechargeable batteries by 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 flash 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 digitizer 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; Program-mable sampling rate.

**Operating temperature:** -15 C to +50 C with alkaline batteries

**Humidity:** 0 – 95% non condensed (Note: temperature higher than 40 C will make small changes on the detector depending on the type).

**ZIG-BEE:** Latest ZigBee Wireless 2.4GHz transmission signal (IEEE802.15.4) with wireless computer network functionality.

**Display:** Manual liquid crystal back illuminated display for low light usage; Radio frequency shielded

**Dimensions:** Approximately 15 cm x 8 cm x 3 cm

**Weight:** 220g (survey meter)

**Case colour:** Yellow

## WALL MOUNTED CRADLE

Charger 240 V, 50 Hz  
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

## 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

## CALIBRATION

The Australrad Mini 8 in 1 and detector/s will be calibrated at Gamma-

AUSTRALRAD  
**MINI**  
8-IN-1 WIRELESS

- AREA MONITOR
- SURVEY METER
- CONTAMINATION METER
- PERSONAL DOSIMETER



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A multi-purpose area monitor/alarm, survey meter and contamination meter for use with external detectors such as pancake probes, GM, scintillators and solid state detectors. Distinctive features include CMOS processor technology, auto range, light weight, ergonomic and rugged plastic casing enabling easy portability, built in check source for self diagnostics and a wallmount rechargeable cradle and PC communicator. Unauthorised usage is prevented through password key entry.

## APPLICATIONS

- Industrial Mining
- Police Security
- Border Checkpoints
- Defence
- Fire Brigade
- National Security
- Nuclear Medicine
- Radiopharmacy
- Industrial Radiography
- Emergency Service

## FUNCTIONS

### Radiation Area Monitor/Alarm & Personal Dosimetry

The base unit of the AustralRad Mini 8-in-1™ can either be wall mounted or used as a personal dosimetry system, small enough to fit in your pocket. While mounted the Mini is placed in a cradle where it is charged and communicates to a PC via USB.

### Survey Meter/Transportation

The AustralRad Mini along with the optional attachment, External End-Window Detector is targeted towards the detection of radioactive materials within freight/containers. However with this external detector applications are only limited by your imagination.

### Radiation Contamination Meter

Utilising Gammasonics 'Pancake Probe Detector' the AustralRad Mini 8-in-1™ is ideal for monitoring large area spills.



NOW WITH  
**ZIG-BEE**  
WIRELESS TECHNOLOGY

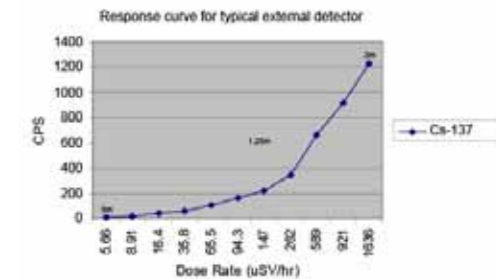
## THE SOFTWARE

The AustralRad Mini 8-in-1™ Software package is designed to provide a graphical interface to view and store the data of the AustralRad Mini. It allows for real-time measurements to be displayed as well as stored results for later scientific analysis. The AustralRad Mini settings such as alarm threshold and radiation units can also be controlled by the user through the PC.



## SOFTWARE FEATURES

- User Friendly Interface
- Graphic display of Dose rates
- Program counters for adjustable timing from 3 seconds to infinite.
- Analyse and review stored data



**Pancake Probe**  
Contamination for Alpha, Beta and Gamma



**Scintillator**  
Survey for Alpha and Beta



**External GM Detector**  
Survey for Alpha and Beta



**PRDWD**  
Standalone or as remote Detector



**Toxic Gas Detector**  
Carbon Monoxide, Hydrogen Sulfide and Chlorine. Sensors for other lethal gases available

## UNIT FEATURES

- LCD display with backlight
- Soft membrane keyboard
- High impact plastic case
- Light-weight and splash proof case
- Built in check source
- Redout of dose rate and accumulate dose
- Units of mR, mR/hr, µSv, µSv/hr, CPS and CPM
- Programmable alarm thresholds
- Battery Charge Meter
- Automatic self diagnostic routines
- Durable case with splash resistant keypad
- Over Range message for GM-Tube saturation

## OPTIONAL FEATURES

- Toxic gas sensor for Carbon Monoxide, Hydrogen Sulfide and Chlorine. Sensors for other lethal gases available on request.
- Activation of digital video, photographic camera for recording.
- Wireless transmission of real-time and stored readings of radiation and gases plus video and images
- PRDWD (Passive Radiation Detection Warning Device) mounted above door frame or next to main unit acting as an external detector. By removal of the instrument from the wall-mounted cradle, internal detector will take over for detection.



### Telescopic Probe

The telescopic probe consists of an AustralRad unit clipped to a mounting cradle, which is installed on the telescopic pole. The AustralRad can also be removed from the probe for independent use as a contamination meter, survey meter or area monitor, unlike anything else available.

The power supply, the pulse counting and the display of the dose-equivalent rate is carried out by the AustralRad unit, which also monitors the alarm feature for the dose rate. Distinctive features include CMOS processor technology, auto range, lightweight rugged casing and a built in check source for self diagnostics, thus combining performance, handiness, ergonomics and sturdiness.