



RADIATION ALERT IMMEDIATE DISCLOSURE

RAID

REAL-TIME RADIATION DOSE AND DOSE RATE MONITORING

INVOCON, INC.

TECHNOLOGY PROFILE 0615

Invocon's Radiation Alert Immediate Disclosure (RAID) device is a real-time active radiation badge with wireless communication capability. RAID is designed to simplify radiation monitoring for personnel and equipment. It accomplishes this by providing real-time feedback of the radiation environment and by using simple interfaces.

The RAID badge has internal processing capability that provides deposited energy readings immediately upon communicating with its wireless base station. This wireless base station is provided as part of the system, so results are available to end users in the field. Additionally, an LED on the device provides an immediate alert when deposited energy exceeds the user selectable threshold.

The simple interface enables personnel to set up and read RAID badges with minimal effort. A miniature wireless base station and its PC software are the only additional items required to operate the system. The base station interfaces with a PC via USB connection and provides connectivity up to 50 feet from the device. This enables flexible operating scenarios for communicating with the badges.

RAID features include:

- On-board processing provides immediate feedback
- Measures deposited energy
- Distinguishes between Alpha, Beta, and Gamma *
- Wireless communication enables simple set up and data retrieval
- Real-time user feedback:
 - *Activity/Error* LED indicates when RAID is in monitoring and communicating or when an error condition exists
 - *Alarm* LED indicates that a user-selectable threshold has been exceeded
- Small size and weight simplifies integration



Specifications for RAID

<u>Electrical</u>	
Input voltage	3.3 – 4.2 VDC (supplied by internal battery)
Operating Life	12 hours continuous operation per charge
<u>Mechanical</u>	
Size (L x W x H)	5.325 x 3.25 x 0.85 inches
Weight	12 Ounces
Case material	Anodized aluminum or industrial plastic
<u>Environmental</u>	
Operating Temperature	0° to 70°C

* Can also be modified to measure Neutrons. ** Dose and dose rate algorithms can also be added

System specifications subject to change without notice.

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