



POLIMASTER[®]
Radiation Detection Technologies



ELECTRONIC PERSONAL DOSIMETER

RadFlash[®]

RadFlash[®] Electronic Personal Dosimeter is a miniature dosimeter capable of solving a wide range of personal dose monitoring tasks, including measurement of **personal dose equivalent** and **personal dose equivalent rate of X-ray (continuous and pulsed) and gamma radiation**.

When used with PM530 dosimetry software, RadFlash provides assurance that occupational radiation exposures are accurately measured, analyzed, and reported. RadFlash allows for avoiding overexposure by providing **real-time** measurements and timely warning the wearer that the dose and dose rate thresholds are exceeded. This ensures that specialists can respond quickly and minimize potential health risks.

RadFlash is compatible with the free Polismart[®] App that delivers radiation exposure analytics and insights to users and enables wireless transfer, analysis, and reporting of the exposure data captured by the dosimeter. Polismart allows for tracking exposure and adjusting dosimeter settings anytime, anywhere, solely with your smartphone.

Applications

- Healthcare workers
 - Interventional radiology
 - Medical physicists
 - Radioisotope labs
 - X-ray diagnostics
- Customs and border control officers working with X-ray inspection equipment
- Anyone working under the risk of X-ray and gamma radiation exposure

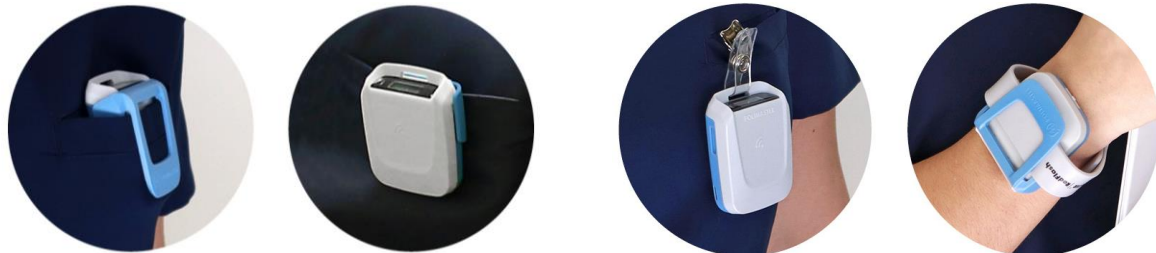
Features

- Simple dose reads via smartphone or PC at any time
- Easy setup via free Polismart[®] iOS and Android app
- Clips and a wristband for different wearing options
- Resistance to cleaning and disinfection agents
- On-screen, audible and visual (LED) alarms
- Data transfer via Bluetooth
- Small and lightweight
- Single control button
- Wireless charging



SPECIFICATIONS

Detector	Geiger-Mueller tube		
Dose rate measurement range	0.1 $\mu\text{Sv/h}$ to 1 Sv/h		
Dose rate measurement accuracy	$\pm 15\%$		
Dose measurement range	1 μSv to 10 Sv		
Dose measurement accuracy	$\pm 15\%$		
Energy range	15 keV to 1.5 MeV		
Energy response relative to 0.662 MeV (^{137}Cs)	-29 % to +45 %		
Minimum pulse duration of pulsed X-ray radiation	2 ms		
Memory	6000 events	Ingress protection IP67	
Alarms	visual, audible	Drop test 1.5 m	
Communication	Bluetooth 4.0 (FCC ID: QOQ13, IC: 5123A-13)	Dimensions $\leq 63 \times 50 \times 18$ mm	
Power supply	rechargeable battery (wireless charger provided)	Weight ≤ 50 g	
Battery lifetime	Operating conditions		
- Bluetooth off, dose rate < 0.3 $\mu\text{Sv/h}$	≥ 2 months	- ambient temperature	-10 °C to 50 °C
- Bluetooth on, dose rate < 0.3 $\mu\text{Sv/h}$	≥ 10 days	- atmospheric pressure	84 kPa to 106.7 kPa
- Bluetooth on, dose rate < 1 Sv/h	≥ 8 hours	- relative humidity	up to 98 % at 35 °C



Three clips and a silicone wrist band for multiple wearing options

Polimaster Inc.
44873 Falcon Place, Suite 128
Sterling,
VA 20166, USA
phone: +1 703 525 5075
fax: +1 703 525 5079
info@polimaster.us

Polimaster Europe UAB
Ezero str. 4, Didziasalio k.,
Nemezio sen., LT-13264,
Vilnius district, Lithuania
phone: +370 5 210 2323
fax: +370 5 210 2324
info@polimaster.com

Polimaster Japan Co., Ltd.
AUBE2 5-177 Kuratsuki,
Kanazawa, Ishikawa Prefecture
920-8203 Japan
phone: + 81 076 201 8623
fax: + 81 076 201 8624
pacific@polimaster.jp