

# PERSONAL DOSIMETER

Model ~ PDA S-QUANT

## FEATURES:

- GAMMA, BETA, X-RAY
- DUAL GM TUBES
- RECHARGEABLE BATTERY OPERATION
- ON BOARD MICROPROCESSOR
- DATA ARCHIVE AND RETRIEVAL
- 700 HOURS REAL-TIME DETECTION BEFORE RECHARGING
- ALARM - AUDIO /VISUAL USER SETTABLE
- TWO MODES OF OPERATION
  - ❖ BACKGROUND
  - ❖ TOTAL DOSE
- USER SETTABLE UNITS – mc Sv/h, mR/h, cpm
- COMPUTER INTERFACE



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## APPLICATION:

Accurately locate areas of radioactivity, or contamination of items such as scrap metal, building materials, banknotes, stones, or antiques. As a personal Dosimeter, measure your exposure to X-ray machines, lab materials, and other workplace hazards. Calibrated to detect Gamma, Beta and X-ray.

## DESCRIPTION:

Simple menus, audible alarms, and colored alerts keep this Geiger Counter user-friendly. 2 Modes include Background (measures and searches) and Cumulative Dose. QUANTUM delivers on-screen data in mcSv/h, rems, or CPM for each tube, bar meters, and arrows showing radiation is falling or increasing.



TECHNICAL ASSOCIATES

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## Technical specifications:

<b>General</b>	
Operating time	up to 12 hours with the screen ON; up to 700 hours in sleep or background measurement mode
Batteries type	AAA Nimh Rechargeable (2x included); can also use regular Alkaline or Lithium-Ion
Certifications	CE and Passport with the factory stamp of conformity and QC check are included; NIST certificate can be obtained separately (usually needed for compliance after 1 year of use and requires a 3rd party lab test)
Size	5.1x2x0.7 in (130x52x18 mm)
Weight	3oz (71 g) - without batteries; 6oz (170g) - with batteries
Is a charger included?	Yes (micro-USB cable, power adapter for the USB cable, the batteries)
<b>Geiger Counter</b>	
Types of ionizing radiation detection	Beta, Gamma, and X-Ray
Units of measurement	uSv/h (micro-Sieverts);mR/h (milli-Roentgens),CPM (Counts per Minute); automatically adapts for dosimeter
Type of Geiger Muller Tubes	SBM20-1; two tubes are located on the left and right sides for better accuracy, increased range and faster response
Alarm Thresholds	Visual, audio, can be set manually
Range of measurement	from 0.01 uSv/h to 1000 uSv/h (1-1000 mR/h); <i>from 0.1 MeV for Gamma-Rays and X-Rays</i>
<b>Dosimeter</b>	
Time of cumulative dose storage (on device)	up to 999 days
Range of dose measurement	up to 1000 Sieverts (100,000 Roentgens)



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Measurement data (on device)	up to 24 hours in 10 seconds intervals; time-stamps
download data type	CSV spreadsheet
Data transfer (MAC or PC)	up to 999 days



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