SaphyRAD S



Safety and security multiprobe survey meter

- Designed for safety and security operations in harsh environments
- Comprehensive range of intelligent and compatible probes
- Robust and ergonomic design
- Simulation function for training purposes

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SAPHYRAD S

MULTIPROBE SURVEY METER DEDICATED TO CIVIL SECURITY

SaphyRAD S is the new multiprobe survey meter by Bertin Instruments, specially designed to meet the needs of the safety and security market.

Equipped with two built-in Geiger-Mueller detectors, its ultra-sensitive monitor monitors and measures gamma dose and dose rate in harsh environments. With a comprehensive range of external probes, this versatile survey meter also allows for contamination control by detecting and measuring alpha, beta, gamma, and x-ray radiation. Thanks to its wide range of contamination control probes for source search and measurement of radioactive contamination, the SaphyRAD S survey meter fulfills the various requirements of armed forces, emergency response teams, and hazardous materials management (HAZMAT).

Convenient and functional, the SaphyRAD S has been specially designed for easy and quick use by non-specialists in radiation protection, equipped with NRBC (Nuclear, Radiological, Biological, Chemical) protective clothing.

	Gamma probe G10	High-sensitivity gamma probe G145	AB16 probe	Contamination probe A/B 100	Contamination probe A/B 170
Probes					
Detector type	Geiger-Müller counter ZP 1314 and ZP 1202	Plastic Scintillator, 145 cm^3 + ZnS layer	Pancake GM 15,5 cm^2	ZnS + Thin plastic scintillator Surface area of 100 cm^2	ZnS + Thin plastic scintillator Surface area of 170 cm^2
Utilization	Remote dose rate measurement	Source search and gamma contamination detection	Detection of alpha, beta, and gamma contamination (direct or indirect)	Detection and discrimination of alpha and beta contamination	Detection and discrimination of alpha and beta contamination with a large probe surface area

SIMULATION FUNCTION



The SaphyRAD S has a simulation function, specifically designed for training purposes.
As a result, the monitor replicates a radiological event, causing fluctuations in the displayed data presented by the device.
Finally, a simulator recreates the effects of an alpha/beta contamination cloud, enabling the user to train under realistic conditions without using radioactive sources.

ERGONOMIC DESIGN



Designed to meet operational constraints in a critical environment, the SaphyRAD S is particularly robust and ergonomic.
Its housing is made of ABS material, a rigid and lightweight thermoplastic polymer that offers good impact resistance.
Additionally, its large buttons and backlit color screen make it the ideal instrument for both day and night use, even while wearing personal protective equipment.

TECHNICAL SPECIFICATIONS

Gamma measurement range	Dose rate : 0.05 µSv/h to 10 Sv/h Dose : 0.1 µSv to 10 Sv
Energy range	50 keV à 3 MeV
Protection rating	IP65
Autonomy	With Lithium batteries: 34 hours With Alkaline batteries: 22 hours
Screen	3.5-inch color LCD screen (320 x 240 pixels) with automatic backlighting
Keyboard	6 large buttons designed for HAZMAT use
Alarm	1 red LED, 1 adjustable buzzer, 1 vibrator
Dimensions/Weight	194 x 115 x 49 mm / 750 g

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