

Multifunctional ionizing radiation detector FNIRSI GC-03 BK



Model: GC-03 BK

Manufacturer: FNIRSI

EAN: 5905156102330

Product Code: 1298704

R2,731

FNIRSI GC-03 BK multifunctional ionizing radiation detector

The FNIRSI GC-03 BK is an advanced yet extremely user-friendly multifunctional ionizing radiation detector that combines nuclear radiation, electric field, and magnetic field measurement. From the moment it is first turned on, it offers high precision, fast response time, a clear 2.4" color screen, and intelligent alarm systems. This tool is designed for both conscious home users and professionals who want to have real control over their environment – anytime, anywhere.

Precise detection of ionizing radiation

At the heart of the device is an energy-compensated Geiger-Müller tube, which ensures stable and reliable measurement of ionizing radiation ([including](#) gamma radiation). The detector operates in a

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wide range from 0.01 $\mu\text{Sv/h}$ to 10,000 $\mu\text{Sv/h}$, offering high sensitivity at 80 CPM/ μSv . This allows the GC-03 BK to detect both natural background radiation and quickly identify potential hazards.

Three measurements in one - real savings and convenience

The FNIRSI GC-03 BK is not just a Geiger counter. The device also measures the intensity of electric fields (V/m) and magnetic fields (μT), allowing you to assess the impact of household appliances, electronics, installations, and household equipment on your everyday environment. One compact meter replaces several separate devices, saving space, time, and money.

Meaningful data - curve mode and alarm history

The built-in dynamic graph mode allows you to track radiation changes in real time, making it easier to analyze trends and assess risks. The device records up to 50 recent alarm events, giving the user a complete overview of the measurement history and allowing them to respond consciously to changes in the environment.

Always alerts you in time - triple alarm system

User safety is supported by a three-mode alarm system: audible signal, vibration, and clear visual alerts and LED. Alarm thresholds can be freely configured to suit your needs and applications – from home use to more demanding measurement scenarios.

Three smart operating modes - just the way you like it

The GC-03 BK offers three display modes: quick view, professional mode, and curve mode. This allows you to instantly check the current radiation level, analyze the data in detail, or observe changes over time. It's complete flexibility without compromise.

Easy-to-read screen day and night

The large 2.4-inch color screen with adjustable backlight and day and night modes ensures excellent readability in all lighting conditions. Clear icons, units ($\mu\text{Sv/h}$, $\mu\text{Gy/h}$, mR/h, CPS, CPM), and a logical layout of information make operation intuitive even for beginners.

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Convenient operation and robust design

Intuitive control with a smooth-running rotary knob allows you to quickly change functions and settings. The compact housing (approx. 138 × 63 × 32 mm) and low weight (~141 g) make the detector fit perfectly in your hand and easily fit in your pocket or bag.

Ready to go whenever you need it

The built-in 1500 mAh battery, charged via USB-C, ensures long operating time and convenient charging from any source. An additional advantage is the ability to update the software, which extends the life of the device and allows you to use new features in the future.

Included:

- FNIRSI GC-03 WT ionizing radiation detector
- USB-C charging and data cable
- User manual

Manufacturer	FNIRSI
Model	GC-03 BK
Device type	Multifunctional ionizing radiation, electric and magnetic field detector
Detector type	Energy-compensated Geiger-Müller (GM) tube M4011 / J321
Radiation dose range	0.00 – 10,000 µSv/h (max. 10 mSv/h)
Radiation measurement resolution	0.01 µSv/h
Detector sensitivity	80 CPM/µSv
Radiation energy range	48 keV – 1.5 MeV (±30% for Cs-137)
Radiation measurement units	µSv/h, µGy/h, mR/h, CPS, CPM
Cumulative dose measurement range	0.00 µSv – 500.0 mSv

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Electric field measurement range	1 – 1999 V/m
Electric field measurement accuracy	1 V/m
Magnetic field measurement range	0.01 – 99.99 μ T
Magnetic field measurement accuracy	0.01 μ T
Response time	5 seconds
Basic error	$\leq 15\%$
Operating modes	Quick view mode, professional mode, dynamic graph mode
Graph mode	Dynamic curve of radiation changes in real time
Alarm history	Records up to 50 alarm events
Alarm system	Visual, audible, and vibration alarm with configurable thresholds
Display	2.4-inch color LCD screen
Controls	Rotary knob + function buttons
Power supply	1500 mAh lithium-ion battery
Charging	USB-C (5V / 1A)
Operating time	Up to approx. 12 hours (depending on operating mode and screen brightness)
Software update	Yes (firmware upgrade)
Menu language	English, Chinese
Housing material	Plastic + metal front panel
Dimensions	Approx. 138 × 63 × 32 mm
Weight	Approx. 141 g

GPSR Link: https://psr-assets.innpro.pl/tools/sg_tools_measuring_tools.pdf, Net weight: 142, Box length: 18,50, Box width: 11,00, Box height: 4,50, Gross weight: 340, PPWR: <https://ppwr.innpro.pl/fnirsi>

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