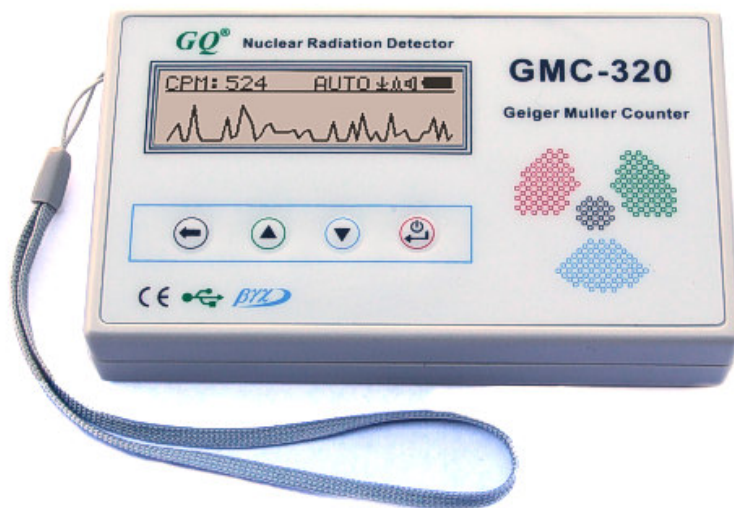# GQ GMC-320 Geiger Counter

GQ Electronics LLC

Revision 1.02

Aug-2013

Overview

The GQ GMC-320 digital Geiger Muller Counter is designed to be a portable and convenient device. The device comes with built in audible and visual signals for the level of radiation detected. It can be used for radiation detection and monitoring both indoor and outdoor, as well as in other similar environments. It features automatic data recording. It can continually monitor the radiation and log the data each second into internal memory. When connected to a PC, software can download the radiation history data to the computer and the user is able to analyze those data later.

The device is equipped with an USB port, utilized for communication and external power supply/charging of the internal rechargeable Li-Ion 3.6V/3.7V battery.

The GQ GMC-320 internal rechargeable battery can be charged with the supplied wall adapter or with the car adapter for the cigarette lighter. Using the adapters, continuous data monitoring is possible. Using either power adapter you will not have to worry about the batteries charge condition or any data loss.

The main board also has a real time clock on board for time related data logging purposes.

The USB port communicates with the **GQ GMC-320 Soft Geiger Counter** software and the **GQ Geiger Counter Data Viewer** software.

The **GQ GMC-320 Soft Geiger Counter** software's appearance is an exact copy of the GMC-320 hardware human interface. You can download it for free and experience the GMC-320 user interface before you purchase the real hardware.

The **GQ Geiger Counter Data Viewer** software can download the time stamped radiation (history) data from the unit and save it on a computer for future references and analysis.

For professional data logging of radiation data, the **GQ Geiger Counter Data Logger** may be downloaded for free. An even more advanced version, the **GQ Geiger Counter Data Logger PRO** software may be purchased at low cost from GQ Electronics LLC.

Specifications:

Range of dose rate indications, µSv/h	0.00 to 327.99
Range of exposure dose rate indications,mRem/h	0.00 to 32.99
Range of gamma radiation energy MeV from 0.1 to 1.25	
Range of registered beta radiation energy MeV	0.25 to 3.5
Range of gamma radiation energy, MeV	0.1 to 1.25
Range of registered X-ray radiation energy MeV	0.03 to 3.0
Reproducibility of indication	20%
Alarm levels by CPM	0 to 65535 (continuously)
Alarm levels by uSv/h	0.00 to 327.6 (continuously)
Alarm levels by mRm/h	0.00 to 32.76 (continuously)
Date indication	YYYY-MM-DD (continuously)
Time indication	HH-MM-SS (continuously)
Elapsed time indication	99 years(maximum)
Radiation detection:	β, γ, x
Sensitivity to Gamma Radiation:	0.1 ~ 1 MeV
Instrument Background:	< 0,2 pulses/s
Working Voltage:	3.6-3.7V
Display:	LCD dot matrix, back lighted
On board Memory:	1M Bytes flash memory for data storage
Power: Consumption	25mW – 125mW (count rate dependant)
Power: Supply	3.7V Li-Ion battery / USB power from mains or car DC adapter

Packing List:

1. GMC-320 main unit.
2. DC power wall adapter/charger
3. Car DC power adapter/charger
4. USB cable
5. Quick start guide
6. Download link for SoftGeigerCounter software and USB driver for Windows XP/Vista/Win7 32 and 64 bits (see Quick start guide)

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