

## GQ GMC-800 Quick Guide



(GMC-800 User Guide)

### Navigation Keys



Back/Voice   Up   Down   Select/Enter

1. Press & hold **'Select/Enter'** button for 3 seconds to power on/off the unit.
2. Press the **'Back'** button to navigate through the different function modes. Press & hold **'Back'** button for 2 seconds to listen to the voice.
3. Press and hold the **'Down'** button for 2 seconds to enter the **Menu**.

### Menu → User →

1. **Click Sound:** Turns the detection click sound on or off.
2. **Alarm →**
  - 2.1 **Alarm:** Turns audio and vibration alarm on or off.
  - 2.2 **Alarm Threshold:** Alarm triggered when level reaches the threshold.
  - 2.3 **Beep Volume:** Sets the volume of the alarm beep sound.
  - 2.4 **Vibration:** Turns vibration alarm on or off.
3. **Speaker Volume:** Sets the speaker volume (e.g., Power on sound).
4. **LED Indicator:** Turns the detection LED indicator on or off.
5. **Fast Estimate:** Sets the speed of measurement reading response.

Menu → Display →

1. **Dark Mode:** Enables/Disables dark screen mode.
2. **Dark Mode Color:** [Dark Mode ONLY] Adjusts color using Red, Green, Blue slider bars.
3. **Backlight:** Sets brightness level 0 - level 30. Default: 10.
4. **Power Saving:** If enabled, then the device will enter power saving mode after 30 second of inactivity.

Menu → Save Data →

1. **Save Mode:** Selects data-saving intervals: every second, minute, hour, or disable the function.
2. **Erase Data:** Permanently deletes all stored historical data.

Menu → Configuration →

1. **Set Clock:** Sets the internal real time clock date and time.
2. **Factory Reset:** Resets the device to default settings and erases stored data.
3. **Calibration:** This setting is for calibration purposes [For lab ONLY]  
It is recommended that users refrain from making changes.
4. **Tube Voltage:** This setting is for calibration purposes [For lab ONLY]  
It is recommended that users refrain from making changes.

For more information: <https://www.ggelectronicllc.com/GMC-800UserGuide.pdf>



# GQ GMC Series Geiger Counter Quick Start Guide

V1.9

GQ Electronics LLC, Seattle USA

[www.GQElectronicsLLC.com](http://www.GQElectronicsLLC.com)



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WARNING: OPENNING THE DEVICE MAY CAUSE ELECTRIC SHOCK.

The GQ GMC series Geiger Counters are designed for general purpose radiation detection. It detects Gamma, Beta, X-Ray and Alpha(GMC-600Plus/Pro only) radiation. All models come with data logging features.

For detailed product selection guide, please see:

<http://www.ggelectronicsllc.com/support/GMC-Selection-Guide.htm>

**Package includes:** GMC main unit, USB cable and this quick start guide.

**This device is a standalone unit and does not require connection to a computer. However, you can download the history data using a computer.**

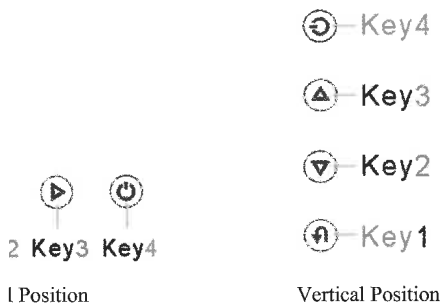
To download history data and use extra PC features, the USB driver and software can be downloaded on [www.ggelectronicsllc.com](http://www.ggelectronicsllc.com). For Windows 10 or newer, the USB driver is not needed.

For detailed user guide please download .pdf version from official website download page:

<https://www.GQElectronicsLLC.com>

port, please use forum at following link:  
om/forum

### Multi-Function Keys



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Those soft key's function will be reassigned dynamically based on the context of display.

### Key1

1. There are two display mode, text and graphic mode. Press Key1 toggles two modes.
2. In menu screen, the Key1 will exit current menu and back to one menu level.
3. In data input screen, press S1 will delete one input character until exit the input mode.

### Key2

1. In text mode, press Key2 will change the text information format.
2. In graphic mode, Key2 will increase the graphic ZOOM factors.
3. In menu mode, Key2 acts as up key to move current highlight menu item.
4. In menu mode, while a popup message box opened, the Key2 changes value.

### Key3

1. In text mode, press Key3 will change the title date/time selection.
2. In graphic mode, Key3 will decrease the graphic ZOOM factors.
3. In menu mode, Key3 acts as down key to move current highlight menu item.
4. In menu mode, while a popup message box opening, the Key3 changes value.

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only Key4 key acts as power switch. Press and Hold it for 3 seconds unit.

press and hold Key4 key for 3 seconds will switch off the unit. Key4 is Confirm, Select, Enter, Change key

factory default power saving mode is ON. In this mode, the unit will consume idle time. It turns LCD display up once any key is pressed.

Popup window will show the current status/value on a current feature. The value only can be changed when it is showing in Popup Window and the unit returns to the main screen when the Popup Window times out after 3 seconds. ( in



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#### Hardware setup:

1. Power up the unit. Holding the Key4 (power) key for 3 seconds should turn on the unit.
2. Check the battery level. Charge the battery fully when first time use. It may take a few hours to get the battery fully charged. Check the battery icon on the screen, a fully charged battery icon should be filled with a solid color without flashing.
3. Set date/time. Press the Key4 to enter the menu and set the date and time. It is very important. Do not skip this step. Most of data related to the date and time.
4. Set the backlight timeout in second. So that to minimize the power consumption.
5. Set the power saving mode. If power saving mode is ON, then the LCD display will be turned off after 30 second if no key pressed during this period.
6. Now the unit is ready to use. You should see the background CPM value.

#### Software set up (Optional):

Before you connect the GQ GMC Geiger counter to computer, download the software and install the USB driver(Except GMC-600 Pro). You can find the USB driver and software from Download page of GQ website: <http://www.gqelectronicsllc.com>

1. The unit needs a USB driver in order to communicate with data viewer software. Click and run GQGMCGeigerCounterUSBDriver.exe and it will install the USB driver.
2. GMCDataViewer.exe is for downloading history data and viewing the data on a computer.

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**GQ GMC Geiger Counter**  
**Nuclear Radiation Safety Guide**

CPM	uSv/h	mR/h	Action
5-50	0.03-0.33	0.003-0.033	Normal background. No action needed
51-99	0.33-0.65	0.033-0.065	Medium level, check the reading regularly
>100	>0.65	>0.065	High level. Closely watch the reading, find out why.
>1000	>6.50	>0.650	Very high. Leave the area ASAP, and find out why.
>2000	>13	>1.30	Extremely high. Evacuate immediately, report to government.

\* On the GMC-600 series devices, the CPM readings should be doubled.  
Note: For abnormally high readings, take a confirmatory reading before action.

**GQ Electronics LLC, Seattle, WA**