

GPS Function Description

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This document describes the GPS module functionalities for the GC-G4Gb, GST models and it expounds the normal use cases and stolen scenarios in Setup/On/Off modes. The **Camera Locator** is defaulted to be on. Auto users can not see the location information, but it is available to Spartan Camera admin users.

1. Normal usage

1.1. Setup mode

Prerequisite: **Camera Locator** is set to **Yes** and successfully updated to the camera.

The default operation will set the **Camera Locator** to **Yes**, and the GPS query function will be enabled. The camera will beep three times after the coordinates are retrieved. Press the left and right buttons to view the GPS coordinate information. There is no GPS function setting in the camera menu, the user needs to set it in the app.

After the query is successful, if the Setup mode is remained, the GPS will be re-inquired every 3 minutes (the coordinate information will be updated).

1.2. On mode

Prerequisite: **Camera Locator** is set to **Yes** and successfully updated to the camera.

- a. Any movement of the camera itself will trigger the G-sensor, so that the camera wakes up and starts the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The time required for the query to succeed depends on the current location, the GPS antenna, and the module itself.

The maximum timeout query is set to 7 minutes. If the query is not successful after 7 minutes, the camera will be shut down.

- b. Set the Schedule Event type to Status Report.

When Schedule Event is set to work, the GPS query function will also be enabled. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The maximum timeout period of the query is 3 minutes. If the query is not successful for 3 minutes, the Status Report will still be sent to the server.

1.3. Off mode

Prerequisites: **Camera Locator** is set to **Yes**, **Camera Tracker** is set to **Yes**, and the settings are successfully updated.

- a. Any movement of the camera itself will trigger the G-sensor, so that the camera wakes up and starts the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The time required for the query to succeed depends on the current location, the GPS antenna, and the module itself.

The maximum timeout query is set to 7 minutes. If the query is not successful after 7 minutes, the camera will be shut down.

b. The Schedule Event 01 will kick in and it will also enable the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The maximum timeout period of the query is 3 minutes. If the query is not successful for 3 minutes, the Status Report will still be sent to the server.

2. The camera is stolen.

2.1. The antenna is unplugged, SD card is inserted, and the Send Mode is set to Off.

2.1.1. Setup mode

GPS queries will not be turned on.

2.1.2. On mode

Prerequisite: **Camera Locator** is set to **Yes** and successfully updated to the camera.

a. Any movement of the camera itself will trigger the G-sensor, so that the camera wakes up and starts the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server. The time required for the query to succeed depends on the current location, the GPS antenna, and the module itself.

The maximum timeout query is set to 7 minutes. If the query is not successful after 7 minutes, the camera will be shut down.

b. Set the Schedule Event type to Status Report.

When Schedule Event is set to work, the GPS query function will also be enabled. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The maximum timeout period of the query is 3 minutes. If the query is not successful for 3 minutes, the Status Report will still be sent to the server.

Note: Since the antenna is unplugged, the Status Report cannot be guaranteed to be successful although the test results were successful.

2.1.3. Off mode

Prerequisites: **Camera Locator** is set to **Yes**, **Camera Tracker** is set to **Yes**, and the settings are successfully updated.

a. Any movement of the camera itself will trigger the G-sensor, so that the camera wakes up and starts the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The time required for the query to succeed depends on the current location, the GPS antenna, and the module itself.

The maximum timeout query is set to 7 minutes. If the query is not successful after 7 minutes, the camera will be shut down.

- b. The Schedule Event 01 will kick in and it will also enable the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The maximum timeout period of the query is 3 minutes. If the query is not successful for 3 minutes, the Status Report will still be sent to the server.

Note: Since the antenna is unplugged, the Status Report cannot be guaranteed to be successful although the test results were successful.

2.2. The antenna is unplugged, and the SD card is missing, and the Send Mode is set to off.

2.2.1. Setup mode

GPS queries will not be turned on.

2.2.2. On mode

Prerequisite: **Camera Locator** is set to **Yes** and successfully updated to the camera.

- a. Any movement of the camera itself will trigger the G-sensor, so that the camera wakes up and starts the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The time required for the query to succeed depends on the current location, the GPS antenna, and the module itself.

The maximum timeout query is set to 7 minutes. If the query is not successful after 7 minutes, the camera will be shut down.

- b. Set the Schedule Event type to Status Report.

When Schedule Event is set to work, the GPS query function will also be enabled. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server.

The maximum timeout period of the query is 3 minutes. If the query is not successful for 3 minutes, the Status Report will still be sent to the server.

Note: Since the antenna is unplugged, the Status Report cannot be guaranteed to be successful although the test results were successful.

2.2.3. Off mode

Prerequisites: **Camera Locator** is set to **Yes**, **Camera Tracker** is set to **Yes**, and the camera is successfully updated.

- a. Any movement of the camera itself will trigger the G-sensor, so that the camera wakes up and starts the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server. The time required for the query to succeed depends on the current location, the GPS antenna, and the module itself. The maximum timeout query is set to 7 minutes. If the query is not successful after 7 minutes, the camera will be shut down.

- b. The Schedule Event 01 will kick in and it will also enable the GPS query function. If the query is successful, the Status Report (including the queried GPS coordinate information) will be sent to the server. The maximum timeout period of the query is 3 minutes. If the query is not successful for 3 minutes, the Status Report will still be sent to the server.

Note: Since the antenna is unplugged, the Status Report cannot be guaranteed to be successful although the test results were successful.

2.3. The embedded SIM card is removed.

No can do.