

GH5200 First Start

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GH5200 is an autonomous personal tracker for lone worker protection.

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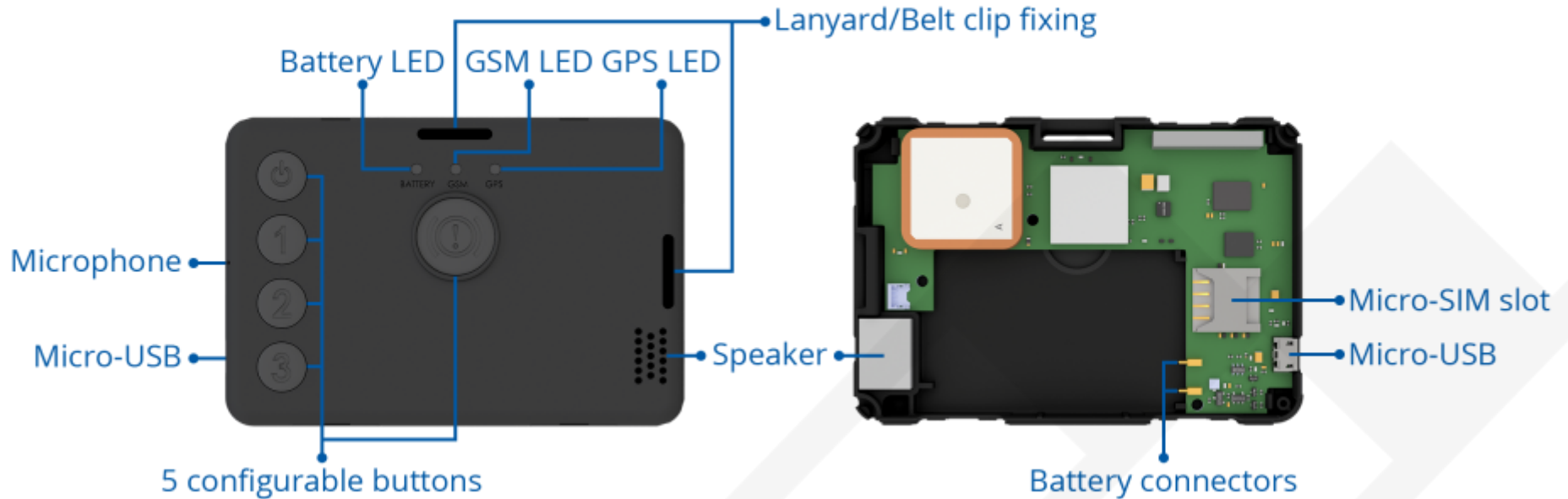
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Know your device



Top view

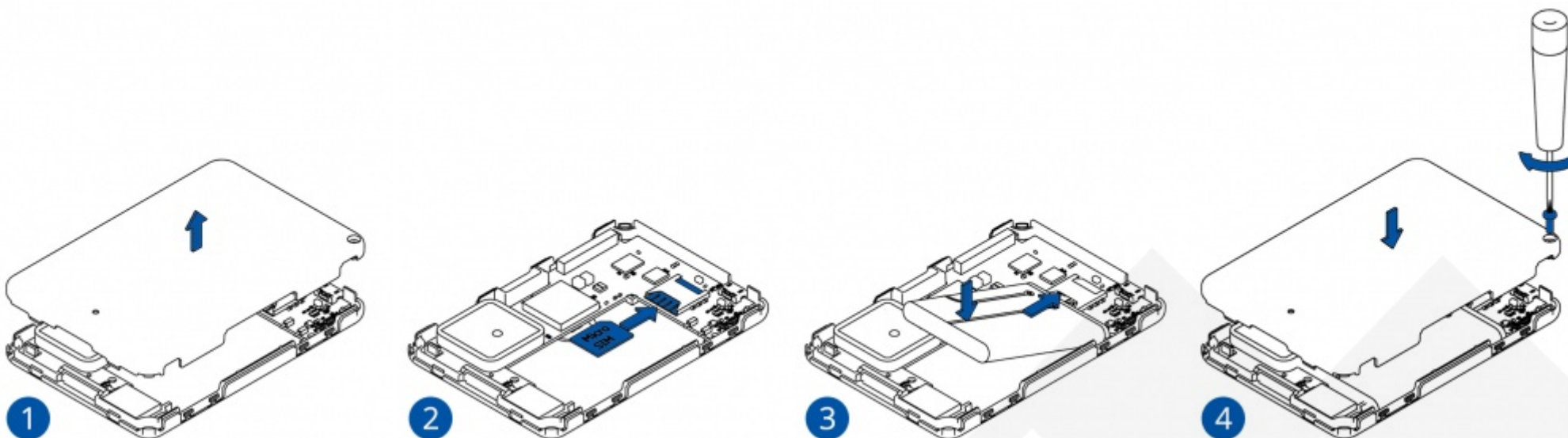
Bottom view (without cover)



Set up your device

How to insert Micro SIM card and connect the battery

1. Remove the **cover**.
2. Insert **Micro-SIM** card as shown with **PIN request disabled**. Make sure that Micro-SIM card **cut-off** corner is pointing forward to slot.
3. Insert the **battery** as shown to device. Position the battery in place where it does not obstruct other components.
4. Reattach the **cover** and tighten the **screw**.



Micro-SIM card insertion/removal must be performed when device is powered off and battery is disconnected. Otherwise Micro-SIM card might be damaged or device will not detect it.

PC Connection (Windows)

1. Turn on your device by holding the power button for around 7 seconds.

2. Connect device to computer using **Micro-USB cable** or **Bluetooth** connection:

- Using **Micro-USB** cable

– You will need to install USB drivers, see “How to install USB drivers (Windows)” shown below.

- Using **Bluetooth**

– GH5200 Bluetooth is enabled by default. Turn on **Bluetooth** on your PC, then select **Add Bluetooth or other device > Bluetooth**. Choose your device named – “**GH5200_last_7_imei_digits**”, without **LE** in the end. Enter default password 5555, press Connect and then select **Done**.

3. You are now ready to use the device on your computer.

How to install USB drivers (Windows)


1. Please download COM port drivers from here. **here** (<https://teltonika-gps.com/downloads/en/fmb120/TeltonikaCOMDriver.zip>).
2. Extract and run **TeltonikaCOMDriver.exe**.
3. Click Next in driver installation window.
4. In the following window click **Install** button. Setup will continue installing the driver and eventually the confirmation window will appear. Click **Finish** to complete the setup.

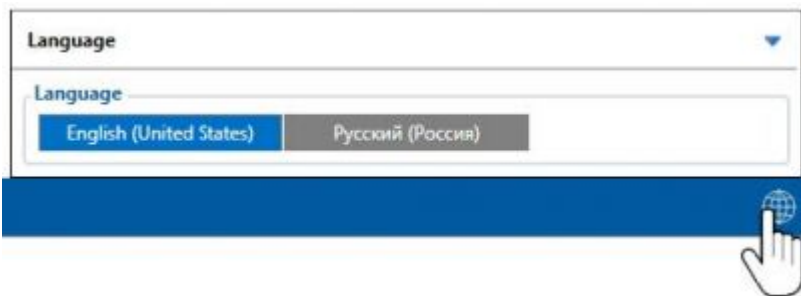
Configuration (Windows)

At first GH5200 device will have default factory settings set. These settings should be changed according to the user's needs. Main configuration can be performed via **Teltonika Configurator** software. Configurator operates on Microsoft Windows OS and uses prerequisite MS .NET Framework. Make sure you have the correct version installed.

MS .NET requirements

Operating system	MS .NET Framework version	Version	Link
Windows Vista Windows 7 Windows 8.1 Windows 10	MS .NET Framework 4.6.2	32 and 64 bit	www.microsoft.com (https://dotnet.microsoft.com/en-us/download/dotnet-framework)

Downloaded **Configurator** will be in compressed archive. Extract it and launch **Configurator.exe**. After launch software language can be changed by clicking  in the right bottom corner:



Configuration process begins by pressing on connected device:



After connection to Configurator **Status window** will be displayed:



- Status
- Security
- System
- GPRS
- Data Acquisition
- SMS \ Call Settings
- GSM Operators
- Features
- Auto Geofence
- Manual Geofence
- Trip \ Odometer
- Bluetooth
- Bluetooth 4.0
- User Interface
- Keyboard
- I/O

Device Info

Device Name GH5200	Last Start Time 01/01/2019 01:00:00	Power Voltage 5069 mV.	External Storage 1 / 122 MB Format	Battery Voltage 3516 mV.
Firmware Version 01.00.00	RTC Time 01/01/2019 01:01:00	Device IMEI 352000000000000	Device Uptime 00:01:00	Internal Battery Status Charging

- GNSS Info**
- GSM Info
- I/O Info
- Maintenance

GNSS Status

Module Status	GNSS Packets
ON	2470
Fix Status	Fix Time
Fix	00:00:15









Satellites

Visible:		In Use:	
GPS	GLONASS	GPS	GLONASS
9	10	5	6
BeiDou Galileo		BeiDou Galileo	
0	0	0	0
Total In View		Total In Use	
19		11	

Location

Latitude/Longitude	Altitude	HDOP
54.6664333, 25.2546133	167.8	1.61
Speed	Angle	PDOP
0 km/h	24.26°	1.685

Various **Status info** tabs display information about **GNSS, GSM, I/O, Maintenance** and etc. GH5200 has one user editable profile, which can be loaded and saved to the device. After any modification of configuration the changes need to be saved to device using **Save to device** button. Main buttons offer following functionality:

1.  **Load from device** – loads configuration from device.
2.  **Save to device** – saves configuration to device.
3.  **Load from file** – loads configuration from file.
4.  **Save to file** – saves configuration to file.
5.  **Update firmware** – updates firmware on device.
6.  **Read records** – read records from device.
7.  **Reboot device** – restarts device.
8.  **Reset configuration** – sets device configuration to default.

Most important configurator section is GPRS – where all your server and **GPRS settings** can be configured and **Data acquisition** – where data acquiring parameters can be configured. More details about GH5200 configuration using Configurator can be found here.

Quick SMS configuration

Default configuration has optimal parameters present to ensure best performance of track quality and data usage. Quickly set up your device by sending this SMS command to it:

```
" setparam 2001:APN;2002:APN_username;2003:APN_password;2004:Domain;2005:Port;2006:0"
```

GPRS settings:

- **2001** – APN
- **2002** – APN username (if there are no APN username, empty field should be left)

- **2003** – APN password (if there are no APN password, empty field should be left)

Server settings:

- **2004** – Domain
- **2005** – Port

- 2006 – Data sending protocol (0 – TCP, 1 – UDP)

Note: Before SMS text, two space symbols should be inserted.

Default configuration settings

Movement detection:



Device movement will be detected by accelerometer

Device makes a record **On Moving** if one of these events happen:



300 seconds passes



Angle difference between last coordinate and current position is greater than 10° degrees



Traveled distance is more than 100 meters



Speed difference between last coordinate and current position is greater than 10 km/h

Device makes a record **On Stop** if:



1 hour passes while device is stationary

Records sending to server:



If device has made a record it is sent to the server every 120 seconds












After successful SMS configuration, GH5200 device will **synchronize time** and **update records** to **configured server**.

Safety information

This message contains information on how to operate GH5200 safely. By following these requirements and recommendations, you will avoid dangerous situations. You must read these instructions carefully and follow them strictly before operating the device!

Precautions

	Operate the device in suitable conditions Do not use the device where mobile connectivity is forbidden.
	Road safety first Comply with local traffic laws, always hold your hands on a steering wheel when using a device. Your safety is of utmost importance when you drive.
	Interference All wireless devices are sensitive to electromagnetic interference, as a result wireless devices affect the performance of each other.
	Limit the use of device in hospitals Please follow all restrictions. Turn off the device in the vicinity of medical devices when required.
	Limit the use of device in vehicles Please follow all restrictions. Wireless devices can interfere with other electronic equipment in vehicles.
	Be cautious near flammable materials and liquids
	Charging precautions SELV LPS chargers, personal computers or laptops that device will be connected to must comply with the requirements of IEC 60950:2005 standard.
	Use only original batteries Using uncertified manufacturer or different type batteries may cause an explosion.
	Use batteries safely Protect batteries from moisture. Place them in a cool and dry place when storing. Avoid extensive operation at high temperatures. Do not attempt charging battery directly from the electrical mains. All utilised batteries shall comply with IEC 62133.

**Power supplies**

Power supply circuits used to charge the device connection must have safeguards, which prevent power leakage, short circuits or incorrect electrical grounding. Any used switches ought to be installed in a readily accessible location. Power must be uninterrupted and the distance between the contacts must be 3 mm or larger.

**Remove device safely**

Device must be disconnected from computer or charger by unplugging the magnetic USB cable from the device.

**Other**

In order to prevent device from mechanical damage it is advisable to transport it in a shock-resistant packaging. If device stopped working properly regardless of the settings only a qualified specialist can help. It is recommended to contact your local seller or your UAB Teltonika manager in such a case.

**Use the right screwdriver**

In order to prevent device's cover from mechanical damage it is recommended to use screwdriver, which is included in the package. Do not use electrical screwdrivers.

<https://wiki.teltonika-mobility.com/view/GH5200>

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