SKYRC GSM-015

SKYRC GSM-015 GNSS Speed Meter User Manual

Model: GSM-015 | Brand: SKYRC

Introduction

The SKYRC GSM-015 is a high-precision GNSS (Global Navigation Satellite System) speed meter designed for various remote control vehicles, including RC cars, boats, planes, rockets, and quadcopters. It accurately measures speed, altitude, and records data for analysis. This manual provides essential information for the proper setup, operation, and maintenance of your device.

Image: The SKYRC GSM-015 device held in a hand, showing its display with a peak speed reading of 96 KPH. This illustrates the compact size and clear display of the unit.

What's in the Box

Upon unpacking, please ensure all items are present:

- GPS Receiver (SKYRC GSM-015 unit)
- Dashboard Mount

Product Features

- **GNSS Support:** Supports both GPS and GLONASS for improved positional accuracy and faster satellite acquisition.
- **High Update Frequency:** Adjustable update frequency up to 10Hz for more accurate data recording.
- **Built-in Memory:** 1MB internal memory for data logging.
- **Rechargeable Battery:** Integrated LiPo battery with approximately 150 minutes of operating time.

- **Metric and Imperial Measurement:** Easily switch between KPH/MPH and meters/feet.
- **PC Connectivity:** USB connectivity for data transfer and firmware updates.
- **Compact and Lightweight Design:** Easy to mount on various RC models.

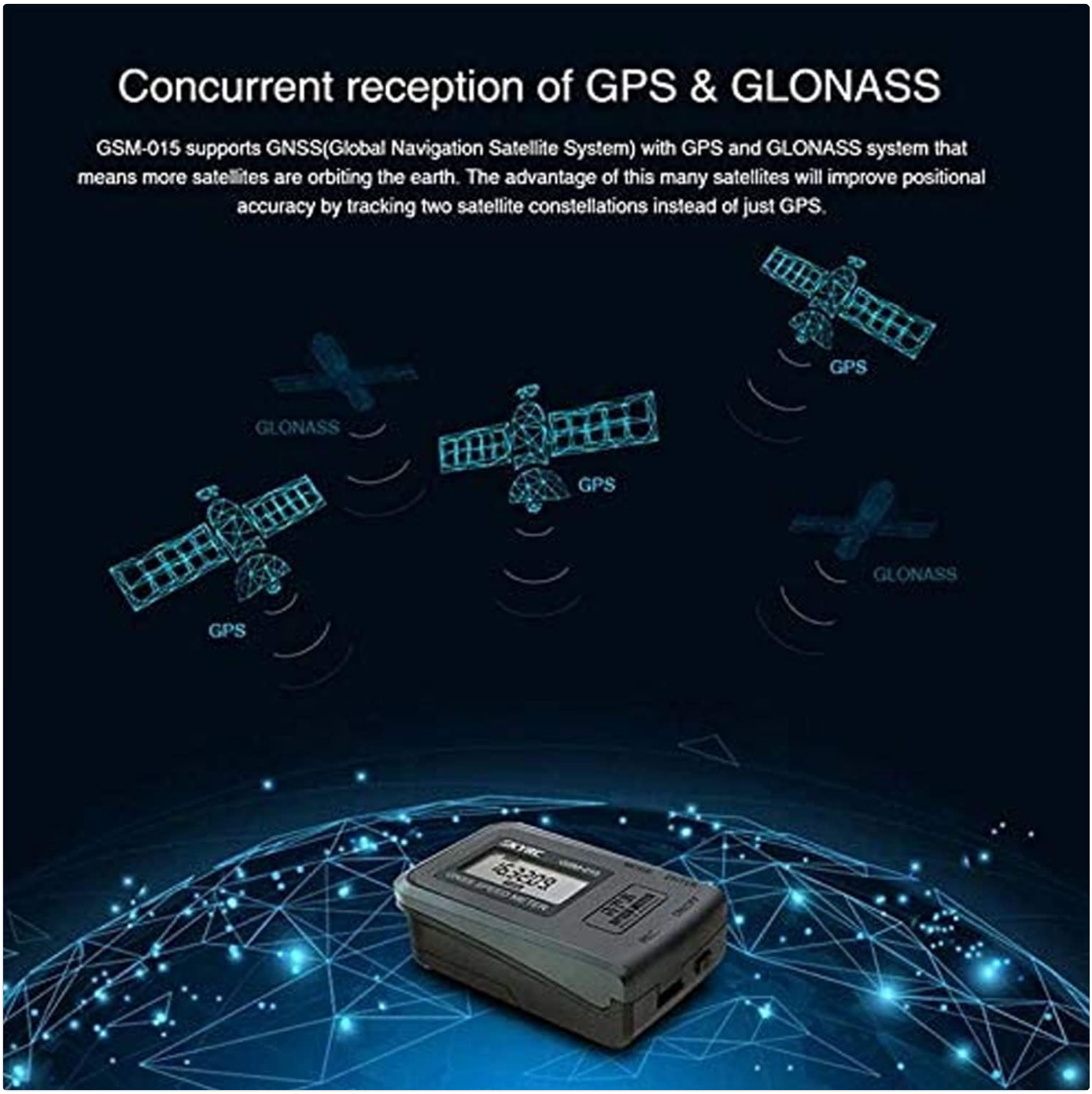

Image: A diagram illustrating the concurrent reception of GPS and GLONASS signals, showing multiple satellites orbiting the Earth. This highlights the device's ability to use both satellite systems for enhanced accuracy.

Image: A graphic detailing the adjustable update frequency up to 10Hz and a visual representation of the built-in rechargeable battery, emphasizing key internal features.

Setup

1. **Charging the Battery:**

   Before first use, fully charge the built-in LiPo battery. Connect the device to a USB power source (e.g., computer USB port or USB wall adapter) using the provided micro USB cable. The charging indicator will show the charging status.

Image: The SKYRC GSM-015 with its battery compartment open, revealing the internal rechargeable LiPo battery. This demonstrates where the battery is located for charging and potential replacement.

2. **Powering On/Off:**

   Press and hold the **MODE** button for a few seconds to power on the device. To power off, press and hold the **MODE** button again until the display turns off.

3. **Satellite Acquisition:**

   For accurate readings, the device needs to acquire satellite signals. Place the device outdoors with a clear view of the sky. The GPS icon on the display will indicate signal strength. Wait until the icon is solid, indicating a stable connection.

4. **Mounting:**

   Use the included dashboard mount or other suitable mounting solutions to securely attach the device to your RC model. Ensure the device is positioned to have an unobstructed view of the sky.

Operating Instructions

The GSM-015 features two main buttons: **MODE** and **ENTER**.

- **MODE Button:** Short press to cycle through different display modes (e.g., current speed, peak speed, altitude, total distance). Long press to power on/off the device.
- **ENTER Button:** Used to confirm selections or reset certain values (e.g., reset peak speed or total distance).

Display Modes:

- **Current Speed:** Displays your real-time speed.
- **Peak Speed:** Shows the highest speed recorded during the current session. Press **ENTER** to reset.

- **Altitude:** Displays your current elevation.
- **Total Distance:** Tracks the cumulative distance traveled. Press **ENTER** to reset.
- **GNSS Status:** Indicates satellite signal strength and connection status.

Data Logging and PC Link

The GSM-015 can record data which can then be transferred to a computer for analysis using the SKYRC GNSS LOGGER software. This software is compatible with Windows 7 and above, and macOS 10.12 and above.

1. **Software Installation:** Download and install the SKYRC GNSS LOGGER software from the official SKYRC website.
2. **Connect to PC:** Connect the GSM-015 to your computer using the micro USB cable.
3. **Data Transfer:** Open the GNSS LOGGER software. The software will detect the device and allow you to transfer logged data. You can view your tracks on maps (e.g., Bing Maps) and analyze various parameters.
4. **Settings and Firmware:** The software also allows you to change settings such as measurement units, time zone, and perform firmware updates.

Image: The SKYRC GSM-015 connected via USB to a laptop, which displays a map with a tracked route. This image demonstrates the PC link functionality for data logging and analysis.

Measurement Systems

The device supports both Metric and Imperial systems of measurement. To switch between them, short press the**MODE** button until you reach the settings menu (if available, or refer to the software for more advanced settings). Alternatively, this setting can be changed via the GNSS LOGGER software on your computer.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use harsh chemicals or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. Charge the device regularly, especially if storing for extended periods.
- **Water Resistance:** The device is not waterproof. Avoid exposure to water or high humidity to prevent damage.

Troubleshooting

Device does not power on:

Ensure the battery is charged. Connect to a USB power source and try again. If the issue persists, the battery may need replacement.

No satellite signal / Inaccurate readings:

Ensure the device has a clear, unobstructed view of the sky. Avoid using it indoors or near tall buildings/dense foliage. Allow sufficient time (several minutes) for initial satellite acquisition.

Display is dim or unreadable:

Check battery level. The device does not have a backlight, so ensure adequate ambient lighting for readability.

Data transfer to PC fails:

Ensure the USB cable is securely connected to both the device and the computer. Verify that the SKYRC GNSS LOGGER software is correctly installed and updated. Try a different USB port or cable.

Battery drains quickly:

Battery life is approximately 150 minutes. If it drains significantly faster, the battery may be aging or faulty. Ensure the device is fully charged before use. Extreme temperatures can also affect battery performance.

Specifications

Product Dimensions	3.94 x 1.97 x 0.5 inches
Item Weight	3.52 ounces
Screen Size	2.06 Inches
Battery Life	Approximately 150 minutes
Connectivity Technology	USB
Included Components	GPS Receiver, Dashboard Mount
Model Name	GSM-015
Brand	SKYRC

Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official SKYRC website. Keep your purchase receipt as proof of purchase for warranty claims.