



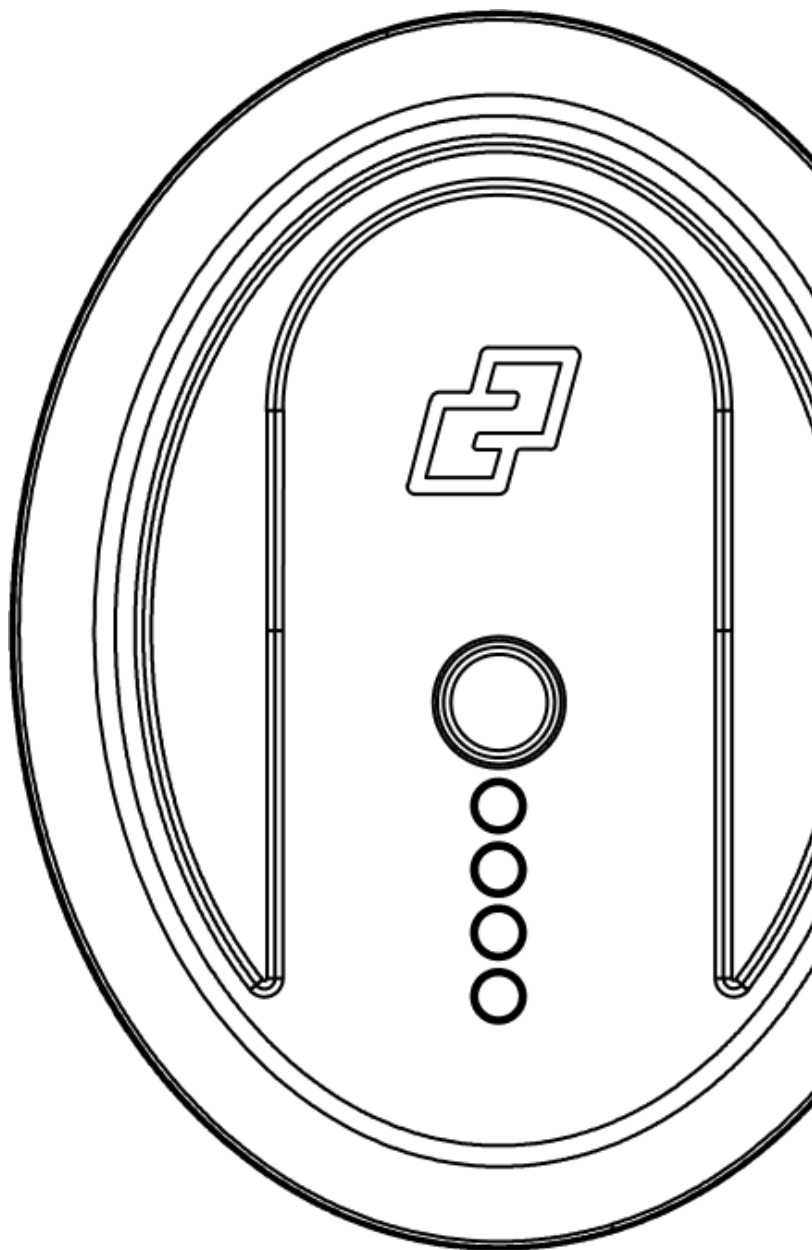
gPace

ENGLISH

GPACE VT-1

USER MANUAL

V 1.0 August 2024



gPace

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1. Introduction

This user manual explains the features of the Gpace VT-1 and shows how easy it is to operate.

The Gpace VT-1 is a highly precise GPS-based motorsports performance tracking and datalogging device, equipped with the latest generation GNSS and IMU technology. Designed for laptiming, dragmetering, drift tracking, and raw data logging in high-speed environments, it delivers unparalleled accuracy and reliability.

Featuring a 10th generation u-blox GNSS chip, the VT-1 measures location data with an accuracy of down to 20 centimeters, even at speeds of up to 1800 km/h (1118.5 mph) with 25Hz data refresh rate. Coupled with a Bosch IMU chip, it captures every turn, drift, acceleration, and braking action with exceptional precision.



Figure 1.1

2. Support

We're here to assist you! Contact us via email or website, and we'll get back to you within 24 hours.

info@gpacetech.com

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Frequently Asked Questions

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3. How To Use Gpace VT-1?

a. Turning On/Off

To turn on the VT-1 (*Figure 1.2*), press and hold the **I/O** button for **1 second**. The device will be on when the top blue light illuminates.

To turn it off, press and hold the same **I/O** button for **3 seconds**. The device will be off and all the lights go out.

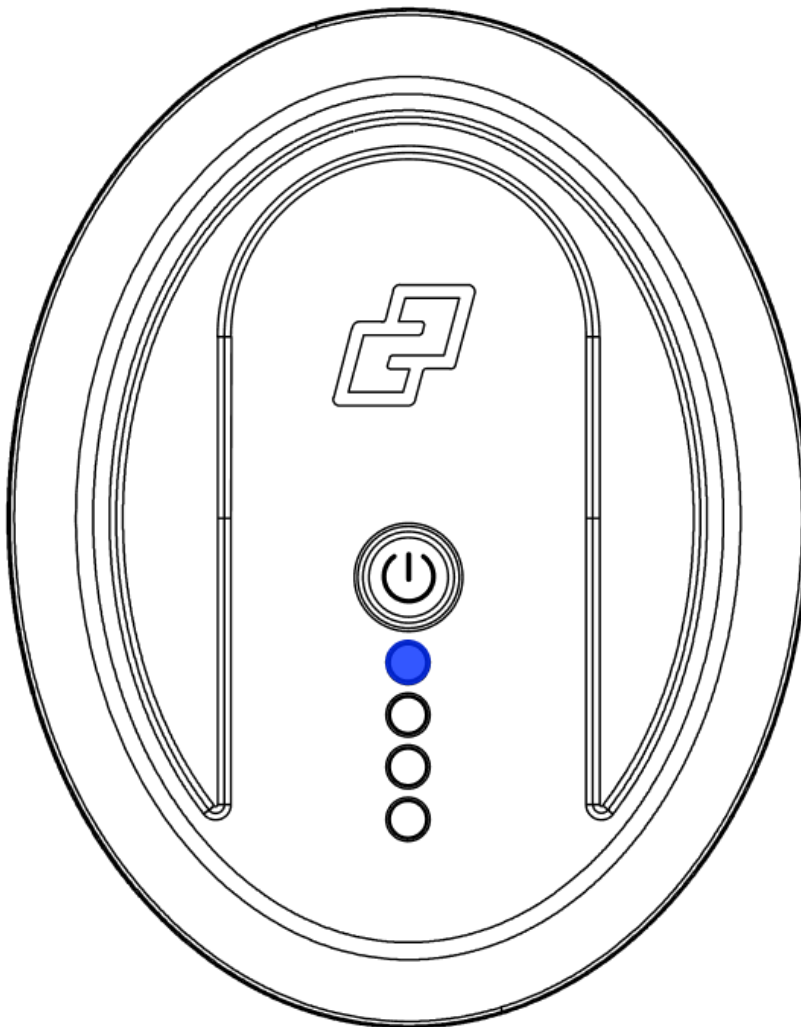


Figure 1.2

b. Connection With Gpace App (BLE 5.2)

After the VT-1 is turned on (*Figure 2.4*), the second blue blinking light indicates Bluetooth. It will continue to blink if a connection has not been established. Once a connection is made, the light will remain steady.

To connect with the app, make sure the Bluetooth feature on your phone is turned on. Then, open the Gpace Mobile App, grant the necessary permissions, and press the **"Connect"** button on the home screen. When Bluetooth is off, the icon shown in *Figure 2.1* will be displayed. When Bluetooth is on but the device is not connected, the icon shown in *Figure 2.2* will be displayed. When the device is connected, the icon shown in *Figure 2.3* will be displayed.

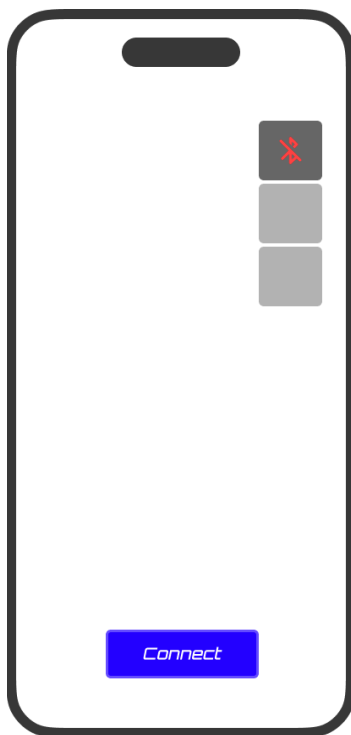


Figure 2.1

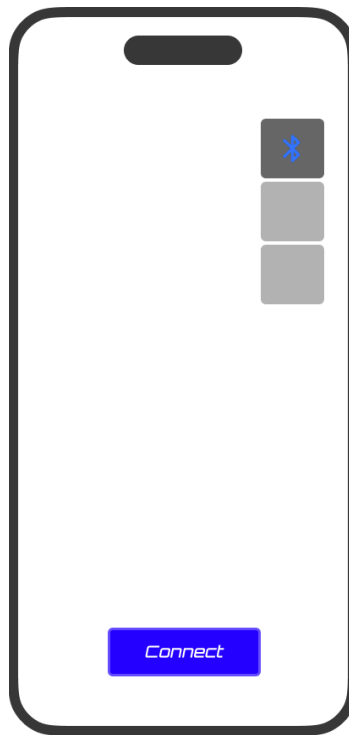


Figure 2.2

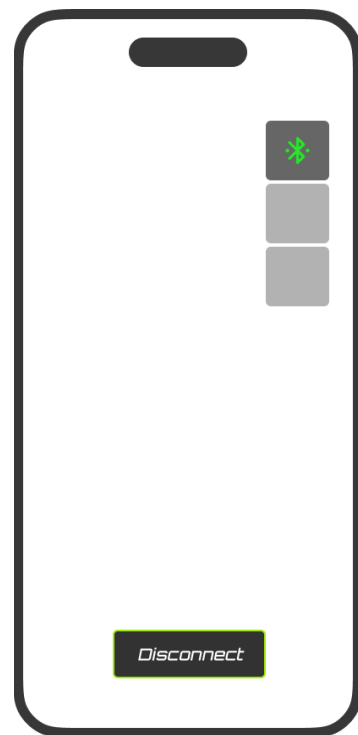


Figure 2.3

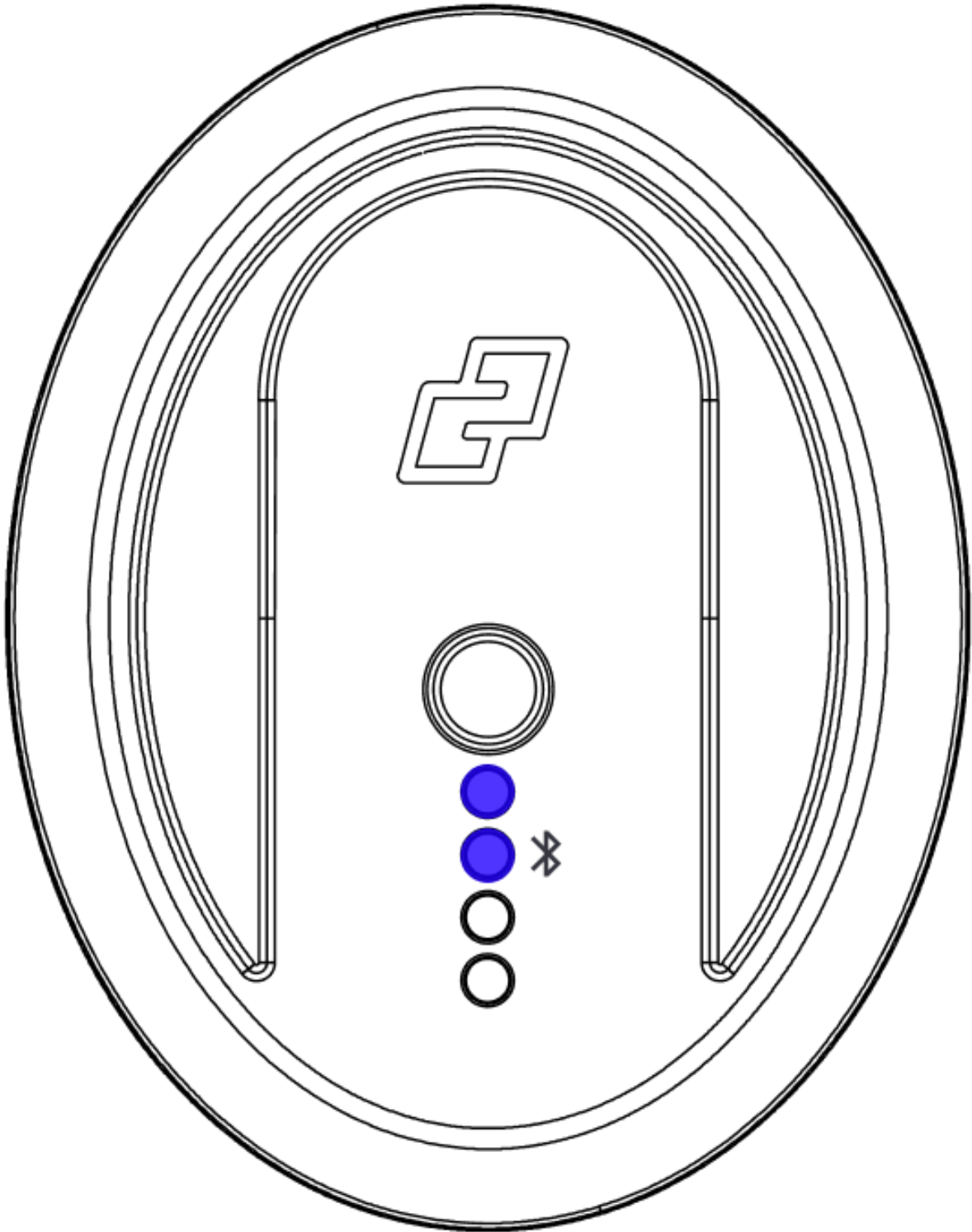


Figure 2.4

c. GNSS Fix

Equipped with a 10th generation u-blox GNSS module and embedded antenna, the VT-1 connects to 12 satellites to provide optimal data. After being turned off for an extended period (e.g., overnight), the device will achieve a fix within 1 minute. If the device is turned on after a short period of being off, it will achieve a fix within 10-30 seconds, depending on the location.

In open skies and open areas, it will fix quickly. However, in cloudy weather, near crowded skyscrapers, or in enclosed spaces, the fix may be delayed or not achieved at all.

If the VT-1 has obtained a satellite fix, the third light will blink green with a 1-second interval. However, if no fix has been achieved, the third light will remain off. (Figure 3.1).

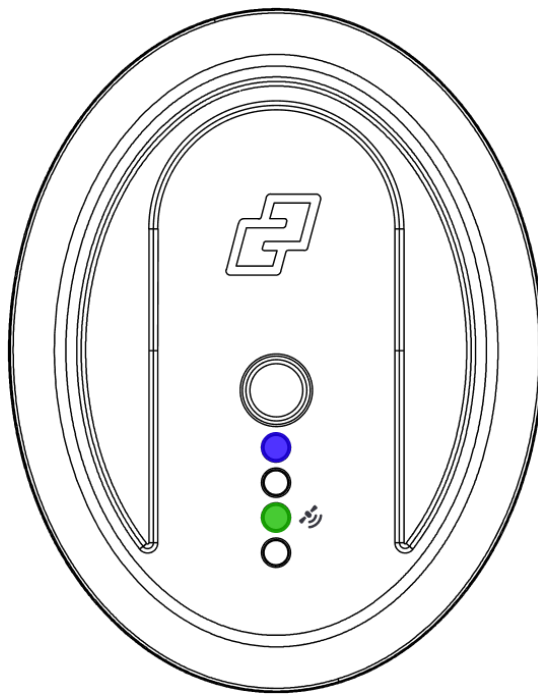


Figure 3.1

In the Gpace Application, if the VT-1 is not connected to the app, the satellite symbol shown in *Figure 3.2* will be displayed. If the VT-1 is connected to the app but has not yet achieved a fix, the satellite symbol shown in *Figure 3.3* will be displayed.

Once a fix is achieved, the satellite symbol will look like *Figure 3.4*, showing the number of satellites connected.

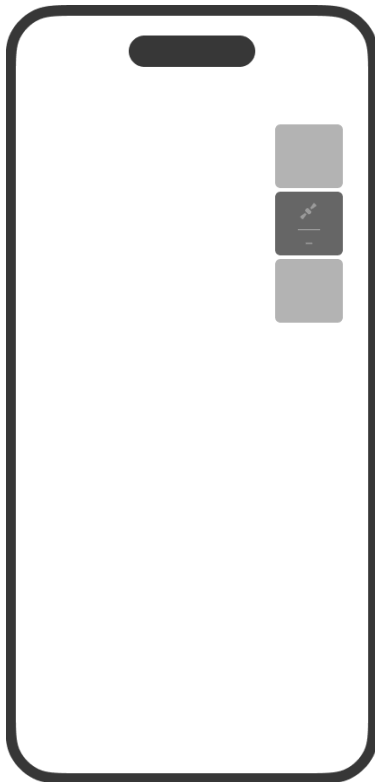


Figure 3.2

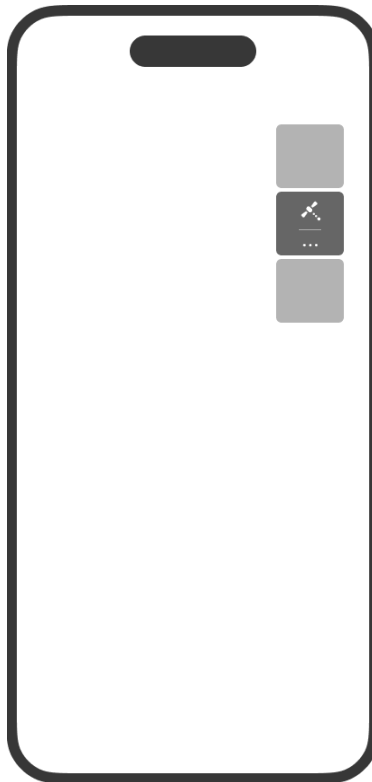


Figure 3.3

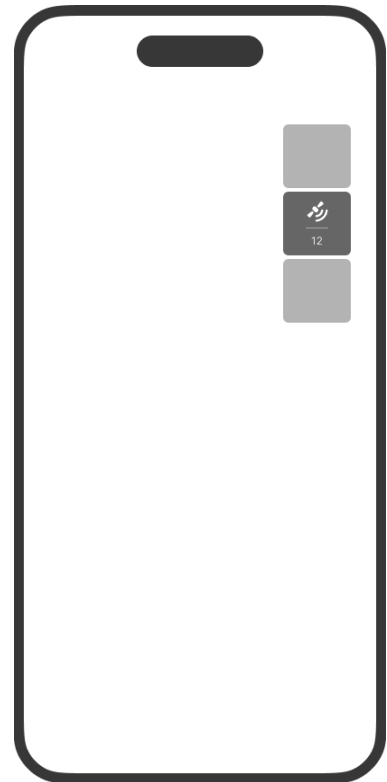


Figure 3.4

d. Charging VT-1

Equipped with superior components, the VT-1's 1000 mAh battery provides over 18 hours of performance measurement. When the battery is completely drained, it takes a maximum of 1 hour to fully charge, with Type-C port.

When the Type-C cable included in the VT-1 box is connected to the device and started charging, the bottom light will turn red as shown in *Figure 4.1*. Once the battery is fully charged, the light will turn green.

The device operates both while charging and not charging. The battery level can be monitored through the app, as shown in *Figure 4.2*.

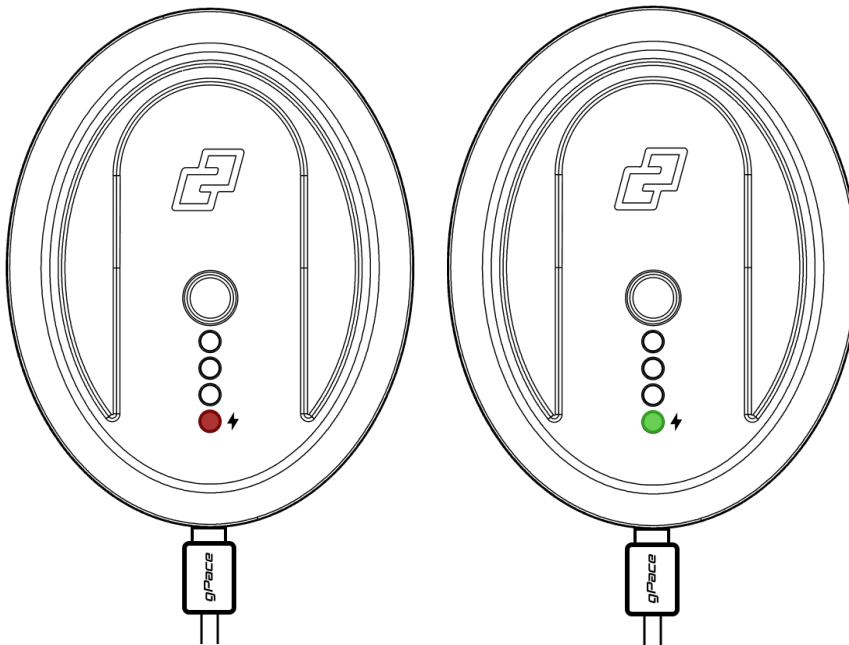


Figure 4.1

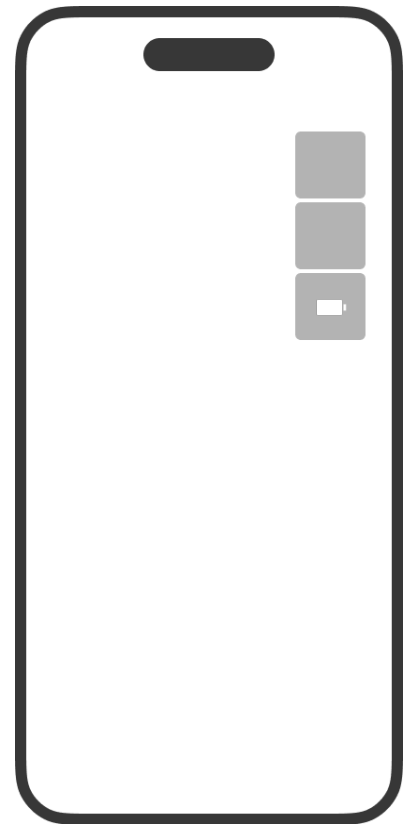


Figure 4.2

e. Troubleshooting

i. GNSS Fix Problem and Satellite Connection Error

If you have placed the VT-1 in your vehicle, ensure that it is positioned directly under the windshield or on the exterior of the vehicle with the top side facing up. The likelihood of getting a fix is low if it is in the glove compartment, upside down, in the trunk, in a pocket, on the floor, in a cup holder, armrest, or any enclosed space, and accurate data cannot be obtained.

If you are sure that the VT-1 is in the correct position and the weather is clear, turn off the device, wait for 5 seconds, and then turn it back on while carefully watching the GPS light when pushing the button. If it blinks once, the GPS is functioning properly. Then, keeping it in the correct position, wait between 30 seconds and 1 minute, either moving or stationary. If a fix is still not achieved, turn off the device, connect it to a charger, and after approximately 5 minutes of charging, try to obtain a fix again. Connect to the app and check the GNSS symbols. If the satellite count is 5 or more, a fix has been achieved.

If none of these steps work, press the pin-sized **reset button** located on the bottom of the device to reset it, and then restart the device.

ii. Bluetooth Connection Error

Thanks to the powerful BLE 5.2 chip in the VT-1, an invisible connection with the app is established within milliseconds, ensuring data transfer without delay or interruption. If you experience any issues with the connection or Bluetooth, first check the BLE light on the VT-1 (Figure 3.5). If it is blinking, it indicates that the device is functioning correctly but no connection has been made. If a connection with your phone cannot be established, ensure that your phone's Bluetooth feature is turned on. Turn the device off and on again, and press the connect button in the app. If there are other VT-1 devices nearby, turn off all except the one you want to connect to. If nothing above works, press the reset button and turn on the device again.

If a call is made through the phone, the VT-1 Bluetooth connection may be disrupted. Therefore, avoid making phone calls while the VT-1 is connected, and ensure safe driving.

iii. VT-1 Is Not Turning Off

There could be many reasons for this. The best and quickest method is to press the reset button and restart the device.

iv. VT-1 Is Not Charging

If the red battery light does not turn on when the VT-1 is connected to the Type-C cable from the box and an external 2A adapter, try using a different cable or adapter. If none of these methods work, contact the Gpace Technology support team.

v. Physical Damage

The VT-1 is designed to withstand the toughest conditions. Even if there is damage to the outer plastic, the device will continue to function flawlessly despite heavy impacts. If it stops working, contact the Gpace Technology Support Team.

vi. Lost Device

The last known location of the VT-1 can be viewed within the app from the time the connection was lost.

To Contact Gpace Tech Support Team Visit the Site
[Contact Us](#)

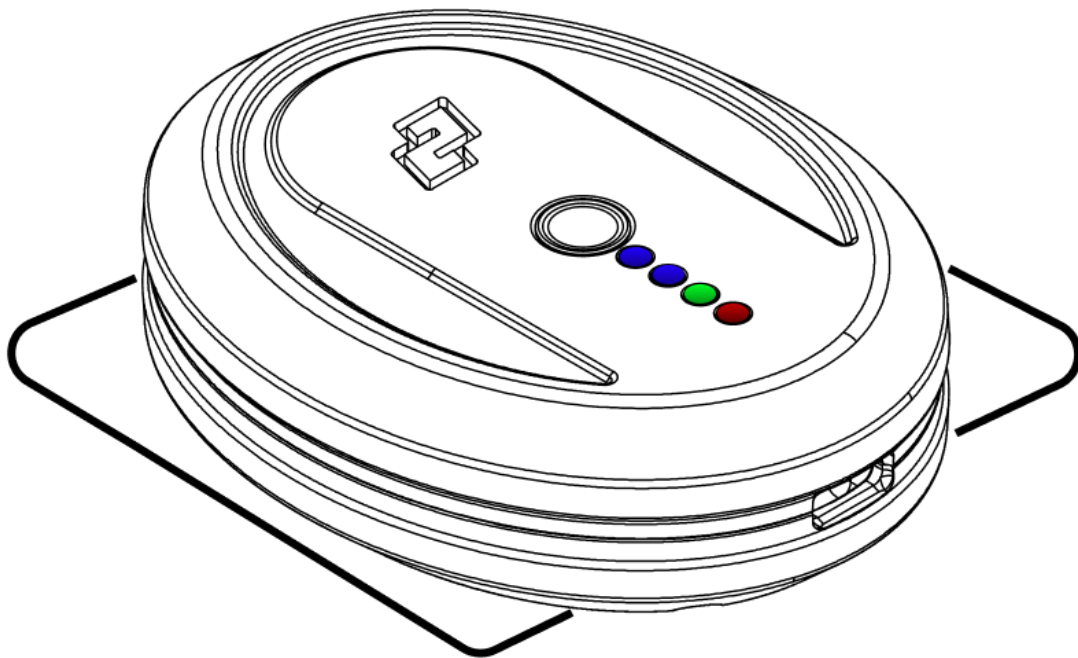


4. Mounting Options

The Gpace VT-1 is developed to be used comfortably and safely on a wide range of vehicles, including cars, motorcycles, go-karts, jet skis, and more.

The VT-1 box includes three types of mounting accessories:

1. **Non-Slip, Heat-Resistant Silicone Pad:** You can place the pad anywhere under the windshield inside your vehicle and then place the VT-1 on top of it.
2. **Adhesive Magnetic Metal Pad:** After attaching the adhesive side of the plate to the desired location, you can place and secure the VT-1 on it using its four powerful magnets. You can also attach the VT-1 directly to metal surfaces using the magnets without the plate, but this is done at the user's own risk.
3. **Hook & Loop:** These can be used to securely place the VT-1 to areas like motorcycle helmets or jet skis.



5.What's in the Box?

Gpace VT-1 box includes:

- 1x Gpace VT-1 Motorsports Performance Tracker & Datalogger,
- 1x Gpace Type-C Cable,
- 3x Mounting Pads,
 - Magnetic Pad,
 - Silicone Pad,
 - Hook & Loop Pad,
- 1x Gpace Fresh Car Smell,
- 3x Gpace Stickers.



6. Specifications

Size & Weight	8cm x 6cm x 2.5cm, 70g
GNSS	10Hz to 25Hz, 20cm to 100cm. GPS, Glonass, Galileo, Beidou.
Operating Temperature	-15° to 80°C
IMU	6-axis, ±16g Accelerometer, ±2000dps Gyroscope
Battery	1000 mAh lithium ion battery. 18 hours run, 1 hour charging time.
Communication	Bluetooth Low Energy 5.2 (IOS, Android and all OS).
Datalogging & Offline Tracking	8gb Embedded Memory.

7. Guarantee & Return

The VT-1, produced by Gpace Technologies comes with a 1-year warranty and can be returned without question within 15 days of purchase, provided the device is undamaged.

Some user faults that void the warranty include:

- Dropping and breaking the device.
- Submerging the device in deep water or using water jet.
- Opening or tampering with the device.
- Losing the device.
- Exposing the device to extreme temperatures (beyond specified limits).
- Using the device with unauthorized accessories or chargers.
- Applying excessive force or impact to the device.
- Attempting unauthorized repairs or modifications.
- Operating the device in a manner inconsistent with the user manual's guidelines.