

User Manual

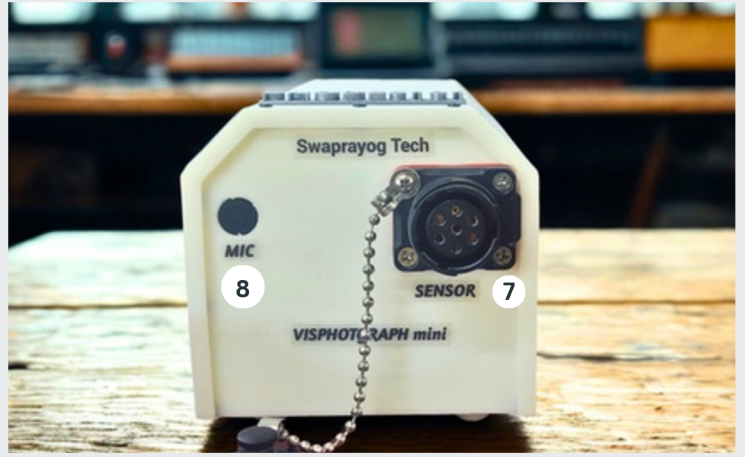


Vispotgraph mini





Front View



Rear View

1

OPERATION LED : Highlights different operations performed

GREEN: Indicates that the system is ready to operate

BLUE: Indicates system is busy for data collection

RED: Indicates any possible error in the system

2

COMMUNICATION LED

RED: Indicates low battery (20%)

BLUE: Indicates that the device is connected to the internet

3

USB: 5V out via USB A for external devices

4

CHARGE: Charging port for charge the instrument.

5

FUSE: Fuse holder with fuse inside.

6

SWITCH: Switch for power on and off

Note: Disconnect the fuse for safely carry the system and connect the fuse before turn on.

7

SENSOR: 7 pin circular connector to connect the sensor

8

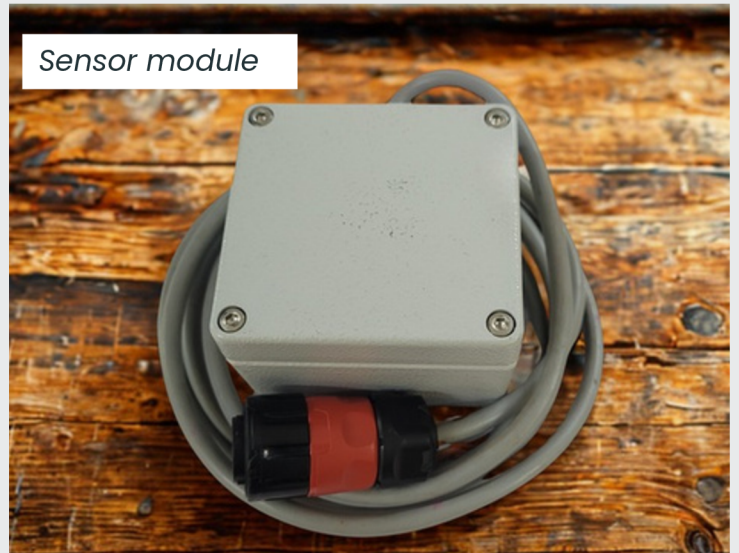
MIC: Microphone input for audio sesing

Battery Charger



Battery charger: The battery charger is used to charge the instrument through the charging pin located on the front side of the device. During charging, the LED indicator on the charger will glow red. Once the battery is fully charged, the LED indicator will turn green.

Sensor module



Sensor module: Sensor module connect with the system in rear side SENSOR connector



Pen drive: Pen drive contain with desktop application software, key file and all the manuals

Instrument Operations

1

Instrument Preparation

Remove the **Vispograph** instrument and all accessories from the carrying bag. Ensure that the following items are available and in good working condition:

- Vispograph Instrument
- Geophone Sensor
- Geophone Cable
- Power Adapter/Power Cable
- Aluminium Mounting Plate
- Nuts and Bolts
- Ground Spike (Nail)
- Fuse
- Other supplied accessories

2

Insert the Fuse

Insert the supplied fuse into the designated fuse holder before powering on the instrument.

3

Power Connection

Connect the instrument to a **220 V AC power supply** using the supplied power adapter/power cable.

This power connection is required for:

- Online data collection
- Charging the internal battery

4

Geophone Sensor Installation

For **temporary data collection**, place the geophone sensor at the desired monitoring location.

- Secure the sensor using the supplied **ground spike (nail)**.
- Ensure that the **arrow mark on the geophone is pointing toward the blasting site**.

For **permanent or long-term** data collection

- Fix the geophone sensor on a concrete base using the supplied **aluminium mounting plate, nuts, and bolts**.
- Install both the **geophone sensor** and the **Vispograph Instrument** inside a weatherproof protective enclosure.
- Ensure that the enclosure protects the equipment from rain, dust, moisture, vibration, and other environmental conditions.

5

Connect the Geophone Cable

Connect the geophone sensor cable to the instrument.

- Ensure that the connector is properly aligned.
- Match the connector pins correctly before tightening.
- Do not apply excessive force while connecting the cable.

6

Power On the Instrument

Switch on the instrument using the main power switch.

Allow the instrument some time to complete the **initialisation process**.

7

Verify Instrument Status Indicators

After switching on, verify that the LED status indicators are showing things correctly.

- **OPERATIONAL GREEN - ON:** Instrument is ready to process events.
- **COMMUNICATION GREEN - ON:** Instrument is connected to the internet.

The device will still capture events even if the internet connection is not present, but the latest configurations might not be updated.

Look out for other LED indicators to understand how the device is functioning.

8

Configuration

The provided **Software Manual** explains how to configure the device. Please follow it to make any changes.

You should verify that the software indicates **Synchronised** in order to ensure the latest updates have reached the device.

Instrument Operations

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Start Monitoring

At this point, the device is ready to monitor blast events.

- The reports will be available through **email** automatically to the IDs provided during the setup process.
- You can also follow the Software Manual to view the reports using the provided **Desktop Application**.

10

Important Precautions

- Ensure the geophone is firmly fixed before monitoring begins.
- Always orient the geophone arrow toward the blasting source.
- Use only the supplied power adapter and accessories.
- Protect all connectors from moisture, dust, and physical damage.
- Never disconnect the geophone cable while data acquisition is in progress.
- Verify that sufficient battery power or AC power is available before deployment.
- For online monitoring, ensure a stable Internet connection through Mobile Hotspot, Wi-Fi, or LAN.
- Confirm that the instrument and software are successfully synchronised before starting data collection.
- Periodically check the battery status during extended monitoring.
- Handle the instrument carefully during transportation.
- Always store the instrument in its carrying bag after use.
- Keep the weatherproof enclosure securely closed during outdoor operation.