Features

Online & Offline Operation
Functions seamlessly with or without internet connectivity to ensure uninterrupted seismic monitoring.

Tri-Axial Geophone & Acoustic Sensing
Integrated tri-axial geophone and microphone work together to capture detailed ground motion and acoustic signatures for comprehensive seismic and environmental monitoring.

Automatic Report Generation
Generates event reports automatically, eliminating the need for human intervention.

Power Backup & Multi-Source Support
Ensures uninterrupted operation with built-in battery backup and compatibility with multiple power sources (AC, DC) for versatile deployment.

Visphotgraph

Intelligent Precision for Vibration Detection

Visphotgraph is a compact, automated IoT-based seismograph that accurately detects and records ground vibrations in real time. With cloud connectivity and instant data updates, it provides quick insights and reliable alerts to researchers, institutions, industries, and safety teams.

> **India's first IoT based Seismograph**
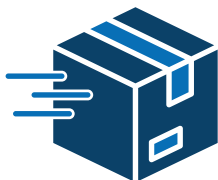
Experience the Future of Mining

Next-gen mining starts here: where advanced sensing meets IoT intelligence to unlock unmatched safety and efficiency.

Applications

- ✓ Blast vibration detection
- ✓ Structural vibration analysis
- ✓ Seismic alarm system
- ✓ Landslide / Avalanche detection
- ✓ Monitoring controlled explosions
- ✓ Underground facility safety

In the Box

- OBC and battery box
- Geophone sensor enclosure
- Microphone case
- Thumb drives for data files & configurations
- Optional Modem for cellular network

Swaprayog Technologies Private Limited

📞 Soumen Ghosh
+91 94340 86984

🌐 **swaprayog.in**

✉ swaprayogtechnologies@gmail.com

Specification

- ✓ Wide Frequency Bandwidth - **Range of 2 to 300 Hz**
- ✓ Accurate **displacement** measurement **up to 1 mm/s** with a **range** of **0 to 236 mm/s**
- ✓ Trigger level of geophone - **1 to 10 mm/s** and microphone - **60 to 110 dB**
- ✓ Automatic **detection, analysis and notification** to the user through **email** in **Online** mode
- ✓ Automatic data **copy using a thumb drive and raw data for analysis** in **Offline** mode
- ✓ Custom **Windows Application** for **configuration, control and data handling**
- ✓ Comes with a **Battery** backup of up to **8 hours** and supports **AC/DC power** sources
- ✓ Connects to **Wifi, Ethernet** and can use **4G/5G modems**
- ✓ Equipped with **Automatic Health checking** for accurate measurements