

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 (extendable up to 6 m) and microphone (in-built or extendable up to 3 m) capture synchronized ground vibration and acoustic data for accurate, 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.

Visphotograph Standard

Intelligent Precision for Vibration Detection

Visphotograph 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
”



SWAPRAYOG
TECH

Experience the Future of Mining

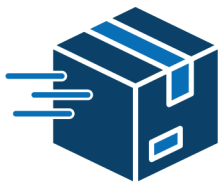
Next-gen mining starts here:
where advanced sensing meets
IoT intelligence to unlock
unmatched safety and efficiency.





Applications

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



In the Box

- Visphotograph System
- Geophone sensor enclosure
- Carrying Bag
- Thumb drives for data files & configurations
- Optional Modem for cellular network, GPS

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Specification

- ✓ Wide Frequency Bandwidth - **Range of 2 to 100 Hz** extended up to 300 Hz
- ✓ Accurate **displacement** measurement **up to 1 mm/s** with a **range of 0 to 236 mm/s** and sound **130 dB**
- ✓ 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 **6 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