

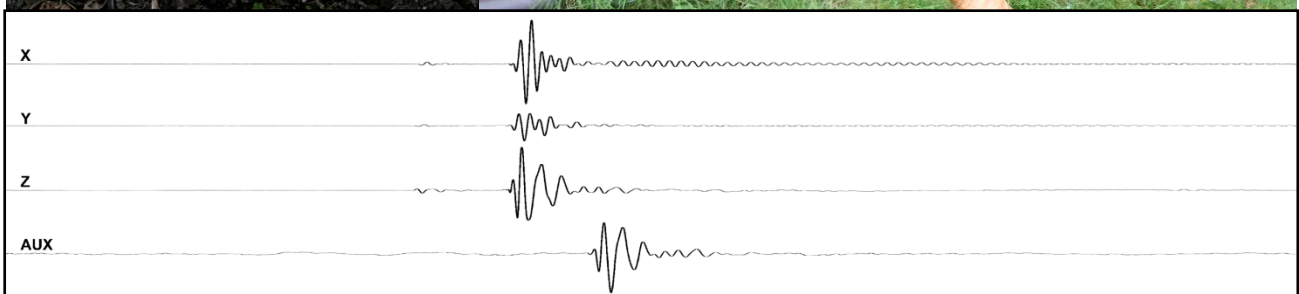
## SUMMIT M Vipa

### The 'Vibration Monitoring System'!

SUMMIT M Vipa is the latest development of the SUMMIT System series - with more than 15,000 channels sold worldwide. SUMMIT M Vipa is a three channel seismograph for vibration monitoring with an additional channel for noise monitoring. The units can be linked together to build up monitoring networks. With integrated parameter and data control facilities - SUMMIT M Vipa provides structural vibration monitoring according to all common standards. 24 bit technology ensures ultrasensitive vibration monitoring for continuous and event based recording. SUMMIT M Vipa comes with easy setup routines and extra long duration batteries.

- Easy to use, lightweight, ruggedised
- Long duration battery (> 5 d)
- 24 bit technology
- Colour graphic display
- 2 GB internal memory, unlimited external storage via USB port
- Noise monitor
- Remote access (mobile or internet)
- Easy setup of networks
- Windows-based software
- International standards implemented

### Specialised for Mobile Vibration Monitoring!



## Technical Specifications

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Channels                    | 3 channels (X-, Y-, Z- vibration)<br>1 aux-channel (acoustic)            |
| Sample Interval             | 1Hz - 10 kHz                                                             |
| Frequency Range             | DC - 5 kHz                                                               |
| Recording Mode              | Continuous or event based                                                |
| Trigger Mode                | Level, STA/LTA with pre-filter                                           |
| A/D Converter               | 24 bit                                                                   |
| Power Consumption (typical) | < 1.5 W with internal controller                                         |
| Data Storage                | Internal 2GB SD-Card or external USB-mass-storage device (hot pluggable) |
| Instantaneous Dynamic Range | ≥ 115 dB @ 2 ms sampling interval                                        |
| Crosstalk                   | ≥ 110 dB (between all channels)                                          |
| Total Harmonic Distortion   | ≥ -110 dB                                                                |
| Common Mode Rejection Ratio | < -108 dB                                                                |
| Gain Accuracy               | < 0.2 % between channels after calibration                               |
| Data Communication          | 100base-TX Ethernet, internal GPRS/GSM Modem                             |
| Internal Battery            | Li-Ion, battery life > 100 hours                                         |
| External Power Supply       | 9-24 V DC                                                                |
| Display                     | Graphical LCD with 320 x 240 and up to 16 Mio. Colours                   |
| Dimensions                  | 30 x 25 x 12 cm                                                          |
| Weight                      | 1.5 kg                                                                   |

Subject to technical changes

## Environmental Specifications

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Operation Temperature | -20°C to + 70°C                                                |
| Humidity Range        | 0 – 95 %                                                       |
| Protection Class      | IP 67                                                          |
| Case                  | Solid waterproof housing deployable in any surface environment |

## Connectors

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| USB              | - External storage on memory stick or hard disk drive<br>- External printer for on site printouts |
| RJ 45 Ethernet   | Router, switches, W-LAN                                                                           |
| VIPAnet/arcnet   | SUMMIT M Vipa local network connection for network trigger and precise synchronisation            |
| Mobile Antenna   | External mobile GSM antenna                                                                       |
| GPS Antenna      | External GPS antenna for precise time stamp                                                       |
| Vibration sensor | - External geophone vibration sensor<br>- 3D sensor or splitted sensors, borehole sensors         |
| Acoustic sensor  | Microphone plug                                                                                   |
| Digital IO       | Multipurpose IO for accessories (alarm devices, trigger devices,..)                               |
| Serial IO        | External RS232, e.g. for external printer for on site printouts                                   |
| Power            | External power supply                                                                             |