

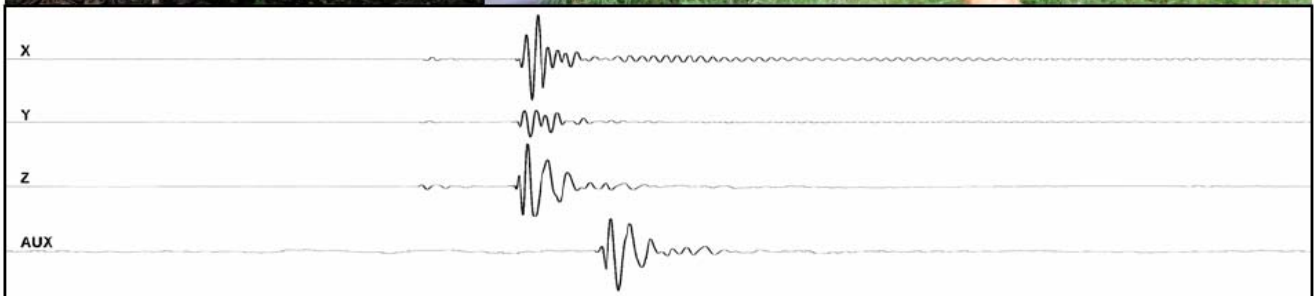
## Summit M VIPA

### The 'Vibration Monitoring System'!

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, ruggedized
- 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

### Specialized for Mobile Vibration Monitoring!



## Technical Specifications

Channels	3 channels (X, Y, Z) 1 aux-channel (noise)
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

## 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	<ul style="list-style-type: none"> <li>- External storage on memory stick or hard disk drive</li> <li>- External printer for on site printouts</li> </ul>
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	<ul style="list-style-type: none"> <li>- External geophone vibration sensor</li> <li>- 3D sensor or splitted sensors, borehole sensors</li> </ul>
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