



## Summit II Monitoring

### The Seismic 'Monitoring System'!

The Summit II Monitoring is the new multi-channel Summit seismograph for seismological surveillance: The box with up to twenty-four monitoring channels has an extra wide frequency range and a very low noise level for ultra sensitive seismological applications. It provides continuous and event based recording.

### Specialised for Mobile Seismological Monitoring!

- Most flexible station deployment with Ethernet or wireless LAN telemetry
- Most accurate time base for continuous recording through GPS
- Extremely robust but lightweight casing
- Autonomous operation with up to 16 GB of internal memory for data storage
- Supreme service via rapid reaction support hotline



## Technical Specifications

Sample Interval	125 Hz up to 16 kHz
Frequency Range	0.1 Hz up to Nyquist (8 kHz)
Recording Mode	Continuous or event based
Trigger Mode	Level, STA/LTA with pre-filter
A/D Converter	24 bit delta sigma technology
Power Consumption (typical)	< 10 W for 12 channel instrument with internal controller
Data Storage	4 GByte replaceable Compact Flash (hot pluggable)
Instantaneous Dynamic Range	≥ 120 dB @ 2 ms sampling interval
Equivalent Input Noise	Less than 0.3 μV RMS @ 2 ms sampling interval and 40 dB preamp gain
Crosstalk	≥ 112 dB (between all channels)
Total Harmonic Distortion	< 0.0008 %
Common Mode Rejection Ratio	≥ 100 dB
Gain Accuracy	< 0.2 % between channels after calibration
Dimensions	30 x 25 x 20 cm
Weight	4.5 kg

Subject to technical changes

## Environmental Specifications

Operation Temperature	-30°C to + 70°C
Humidity Range	0 – 95 %
Case	Solid waterproof housing deployable in any surface environment



Instrumentation at a bridge base plate



Monitoring of footings