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Technical Specification for Broadband Seismograph

A complete broadband seismograph which comprises a broadband 3-component seismometer (non-compact), 24-bit 3-Channel digitizer with essential accessories.

Number of seismographs: 10

Seismometer (1 x 10)

Topology	Feedback	Frequency response	Sensitivity	Noise	Power
Broadband Symmetric tri-axial seismometer (non-compact)	Force-balance	120 s-50 Hz	≥ 1000 V/m/s	Minimum noise level (from 100 s-1Hz)	<1W at 12V

DAS: 24-bit 3-Channel Digitizer (1 x 10)

No. of Channel	Sampling rate	ADC resolution	RAM	Dynamic Range	Data Acquisition Mode	Storage Type	Recording format	GPS	Indicator LED
3-channels	User-selectable (200,100,50,20,10)	24bit	At least 128 Mb	≥ 140 dB at 100 sps	Continuous	Internal plus removable card > 8Gb	Mini-seed	GNSS	System Status, Power, GPS

Essential Accessories

Seismometer cable	Seismometer	Carrying Case	GPS	DAS Power cable	Storage	Ethernet
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	Cover					
5 metre - 6 nos.& 10metre long - 6 nos.	Thermal Insulation cover – 10 nos.	Fiber /Plastic Material-5 nos.	20 metre long cable with GNSS— 10 nos.	2 metre -- 10 nos.	32 GB SD Card --10 nos.	2 metre cable –2 nos.