



Gecko Compact

Best Value, Fully Functional

IP54 dust and water resistant

No external device required for setup
USB cable available to live stream to PC

150mm

4G modem available for single (3ch) or
dual (6ch) Gecko data telemetry - AU only



Gecko Rugged

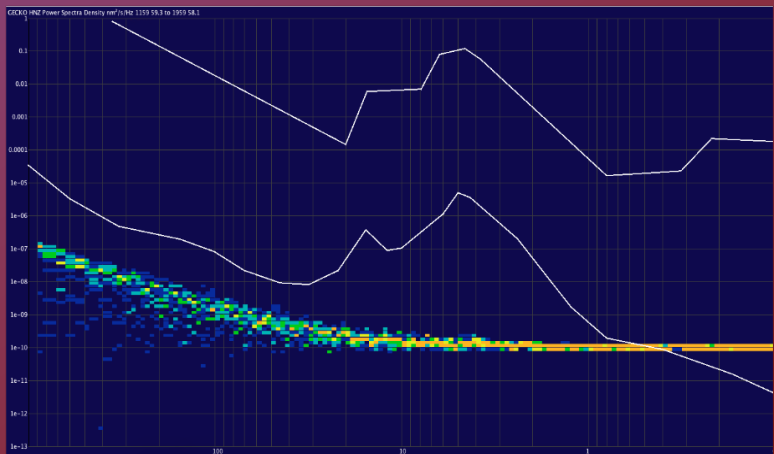
For Short Term Outdoor Installation

IP68 waterproof to 1.5m for 48 hours

No external device required for setup
USB cable available to live stream to PC

Ø136mm

Talk to us about a free 3-month trial to live
stream your data to seismosphere.net



*Gecko (shorted input) self noise
below NLNM 1000 seconds to 2Hz
(recorded @100sps, PSD amplitude
scaled to 750V/m/s velocity sensor)*

GECKO Digital Recorder - Technical Specifications

Digitiser & Recording

Digitiser Type	31-bit ADC, differential or single-ended
Data Channels	3+1, synchronously sampled
Full-scale range	40Vpp (suitable for $\pm 20V$ differential output sensors)
Gain settings	1, 2, 4, 8, 16, 32, 64, 128, 256, and 512
Frequency response	DC to 1600Hz (at maximum sample rate)
Sample rates (per second)	50, 100, 200, 250, 400, 500, 800, 1000, 2000, 4000

Noise and Dynamic Range

Noise level (shorted input)	Less than 1 LSB RMS noise in a 24-bit system @50sps
Sensitivity (typical)	406,000 counts per Volt
Dynamic range (RMS noise vs FS range)	138dB @100sps (144dB @50sps, 127dB @4000sps)

GPS Timing

Reference	Data is time stamped every second from GPS receiver
Accuracy	RMS 30 nanoseconds
GPS connection	Threaded antenna with 7m cable (33m extension available separately)
Maximum GPS cable length	80 metres (with high gain aerial, sold separately)

Controls

User Interface	In-built LCD with 4-line text display and 4-button input
File recording	Continuous (always on), Histogram (always on)
Trigger & Alarm	1x STA/LTA, 2x Level (High and Low - 3D or 1D); System Alerts
Pre- and Post-trigger data	Unlimited - user configurable in reception/extraction software
Calibration signal generator	Variable amplitude/frequency step/sine signal generation
Mass Control	Calibrate enable, Mass Lock, Unlock and Centre commands

Data Storage

Flash memory type	SD card, SLC NAND recommended
Included storage	64GB, hot swappable. Larger capacities available
Continuous recording capacity	Ring buffer data storage >1 year (3 channels @200sps), 60 sec. per file
File system	FAT32, readable by Windows, macOS & Linux
Data format	24-bit MiniSEED (with data-less station information files; station.xml export)

Power

DC input voltage range	10.8V to 22V (no cost option to enable 7V to 30V range)
Consumption	0.8W. LCD backlight adds 0.5W (auto-off after 2 minute timeout)

Physical

Housing	Aluminium
Dust and Water Ingression Protection	IP54 (also available in IP68 Rugged version)
Operating Temperature (100% R/H)	-20 to +60 °C (-4 to +140 °F) >95% R/H
Dimensions (without cables)	150 x 108 x 71mm
Weight	600g

Data Telemetry

Connectivity options (sold separately)	Ethernet or WiFi adaptor, 4G cellular modem, NanoLink server
TCP Socket Streaming	Push to Seismosphere or Streams, pull from SeedLink (via NanoLink)
Remote setup and firmware upgrades	Web interface (Seismosphere) or application (Streams)