

Quantum



FEATURES

- All-in-one single component recording unit
- Lightest node on the market today weighing only 650 grams
- Greater than 50 days, 24 Hr operation
- Local 8GB or 16GB data storage

GENERAL SPECIFICATIONS

Number of Analog Channels:	1
Data Storage Capacity:	8GB non-volatile flash memory (upgradeable to 16GB)
Integrated Battery:	Rechargeable Li-ion
Battery Life:	Greater than 50 days, 24 Hr operation
Wireless Communication Interfaces:	Bluetooth LE
GPS:	L1-GPS /QZSS, GLONASS, BeiDou, Galileo
Timing Accuracy:	+/-20 μ s
Sensor:	Vertical 5Hz or 10Hz high-sensitivity geophone

ENVIRONMENTAL SPECIFICATIONS

Charging Temperature:	5 °C to + 40°C
Operating Temperature:	-40 °C to + 70 °C
Water Immersion:	IP 68

PHYSICAL

Size:	10.9 cm x 9.8 cm x 10.7cm (excl. spike) [4.4" x 3.9" x 4.2"]
Weight:	0.65 kg (1.43lbs) incl internal battery and geophone

ANALOG SPECIFICATIONS

A/D Converter:	24-bit
Sample Rates:	1 ms, 2 ms, or 4 ms
Gains:	0 dB, 6dB ¹ , 12 dB, 18dB ¹ , 24dB ¹
Maximum Input Signal (RMS):	3.535 V @ 0 dB 1.768 V @ 6 dB 0.884 V @ 12 dB 0.442 V @ 18 dB 0.221 V @ 24 dB
Equivalent Input Noise* (RMS):	1.408 μ V @ 0 dB 0.712 μ V @ 6 dB 0.368 μ V @ 12 dB 0.202 μ V @ 18 dB 0.132 μ V @ 24 dB
Instantaneous Dynamic Range*:	128 dB @ 0 dB 128 dB @ 6 dB 128 dB @ 12 dB 127 dB @ 18 dB 124 dB @ 24 dB
System Dynamic Range*:	148 dB
Total Harmonic Distortion:	<0.1% with 10Hz HS phone <0.2% with 5Hz HS phone
Channel Matching:	Better than 1%

¹ Gain option when operating in hybrid with G3i HD

AUTOMATED TESTS

Unit temperature, sensor tilt, system equivalent input noise, sensor noise, dynamic range, geophone DC resistance, THD, natural frequency, damping, sensitivity

*Typical specifications @ 2 ms @ 25°C