

QUANTUM

FEATURES

- All-in-one single component recording unit
- Lightweight node weighing only 650g
- 50 days typical, 24 Hr operation

GENERAL SPECIFICATIONS

- Local 16 GB data storage
- Optional HyperQ long range wireless QC using technology







ANALOG SPECIFICATIONS

No.of Analog Channels:	1	A/D Converter:	24-bit
Data Storage Capacity:	16 GB non-volatile flash memory	Sample Rates:	1 ms, 2 ms, or 4 ms
Integrated Battery:	Rechargeable Li-ion	Gains:	0 dB, 6dB ¹ , 12 dB, 18dB ¹ , 24dB ¹
Battery Life:	50 days typical, 24 Hr operation	Maximum Input Signal (RMS):	3.535 V @ 0 dB , 1.768 V @ 6 dB
Wireless Communication:	42 days typical, 24 Hr operation (with HyperQ)		0.884 V @ 12 dB, 0.442 V @18dB
			0.221 V @ 24 dB
GPS:	Bluetooth LE, Optional HyperQ	Equivalent Input Noise* (RMS):	1.408 µV @ 0 dB
642:	L1-GPS /QZSS, GLONASS,		0.712 μV @ 6 dB, 0.368 μV @ 12 dB
T	BeiDou, Galileo		0.202 μV @ 18 dB, 0.132 μV @ 24dB
Timing Accuracy:	+-5 µs	Instantaneous Dynamic Range*:	128 dB @ 0 dB,128 dB @ 6 dB
Sensor:	Vertical 5Hz or 10Hz		128 dB @ 12 dB,127dB @ 18 dB
	high-sensitivity geophone		124 dB @ 24 dB
Charging Temperature:	+5 °C to + 40°C	System Dynamic Range*:	148 dB
Operating Temperature: Water Immersion:	-40 °C to + 70 °C IP68 (fresh water)	Total Harmonic Distortion:	<0.1% with 10Hz HS phone
			<0.2% with 5Hz HS phone

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

AUTOMATED TESTS

Channel Matching:

Anti-Alias Filter:

Filter Options:

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

Better than 1%

3dB @ 0.876 fN (Nyquist)

Minimum and Zero Phase

*Typical specifications @ 2 ms @ 25°C ¹ Gain option when operating in hybrid with G3i[®] HD Corporate Headquarters: 13000 Executive Drive, Suite 100, Sugar Land, TX 77478 • p +1.281.568.2000 • www.inovageo.com copyright 2024 INOVA Geophysical, Inc. All rights reserved. • Information subject to change without notice. Quantum-DS-EN-20240604