

## **IGU-16HR 3C**



## IGU-16HR 3C

Features





New Generation Smart 3 Components Seismic Sensor



Share the same peripherals as IGU-16, IGU-16HR,



High resolution data with up to 0.25ms sampling and 24-bit delta-sigma ADC



All-In-One Modular design provides maximum productivity, maintenance free operation and easy battery replacement



Built-in GPS receiver and disciplined high precision clock



Suitable for one station to million station operations



Based on the most highly regarded DT-SOLO HS geophone with 10Hz and 5Hzoptions



Up to 30 days of continuous recording (see Technical specs for details)



Most cost effective system on the market



Compatible with vibroseis and impulsive energy sources



Light weight and compact size



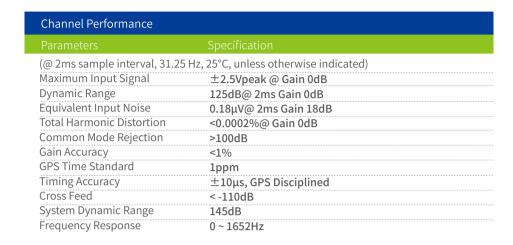
Simple LED State Indicator. Green for "good to go" and Red for "no good"

### **TECHNICAL SPECIFICATIONS**

General Specifications		
Parameters	Specification	
Seismic data channel(s)	3	
ADC resolution	24 bits	
Sample intervals	0.25, 0.5, 1, 2, 4, 8, 10, 20 milliseconds	
Preamplifier gain	0dB to 36 dB in 6 dB steps	
Anti-alias filter	206.5 Hz @ 2ms (82.6% of Nyquist)	
	Selectable - Linear Phase or Minimum Phase	
DC blocking filter	1Hz to 10Hz, 1Hz increments or DC Removed	
Operating temperature	-40°C ~ +70°C	
Waterproof	IP67	
Physical Size	103mm (L) × 95mm (W) ×187mm (H) (w/o spike)	
Weight	2.4kg (Including internal battery and spike)	
Data Storage	64 GB	
Operating Life@25°C	30 days Continuous @ 2ms	
-	60 days Segmented (12hours ON/12hours SLEEP) @ 2ms	
Recharge Time	< 6 hours	
Charging Temperature Range	+3°C ~ +45°C	







Acquisition Performance		
Parameters	Specification	
Natural Frequency	5Hz	10Hz
Spurious Frequency	>170Hz (>150Hz in horizontal sensor)	>240Hz
Distortion	<0.1%@12Hz, (0° ~ 10°) vertical	<0.1%@12Hz, (0° ~ 10°) vertical
	tilt, (0°~3°) horizontal tilt	tilt, (0°~3°) horizontal tilt
Damping	0.7	0.7
Sensitivity	76.7V/m/s (1.95 V/in/s)	78.7V/m/s (2.0 V/in/s)
Remark	All parameters are specified at	All parameters are specified at
	+22°Cin the vertical position for	+25°C in the vertical position for
	vertical geophone and horizontal	vertical geophone and horizontal
	position for horizontal geophone	position for horizontal geophone
	unless otherwise stated.	unless otherwise stated.

# **DT-SOLO**The Heart of SmartSolo

- High Quality
- High Sensitivity
- Super Reliable
- Greater Savings
- Low Distortion
- Single Point Receiver
- Industry Leader



### SmartSolo® The Future of the Seismic Industry Smaller crew size, less man power and simpler equipment Lower operational cost Less environmental impact Improved HSE Million channels capability • High channel density Better image at lower cost Super reliable, lower power consumption, longer operating time High productivity • Lower operational cost Highly efficient data harvesting and management Lower operational cost Better user experience

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