

RSM-HGT(D)

Ultrasonic Drilling Monitor



**Large Screen Intelligent Processing
Dual-purpose Wet and Dry Hole Testing**

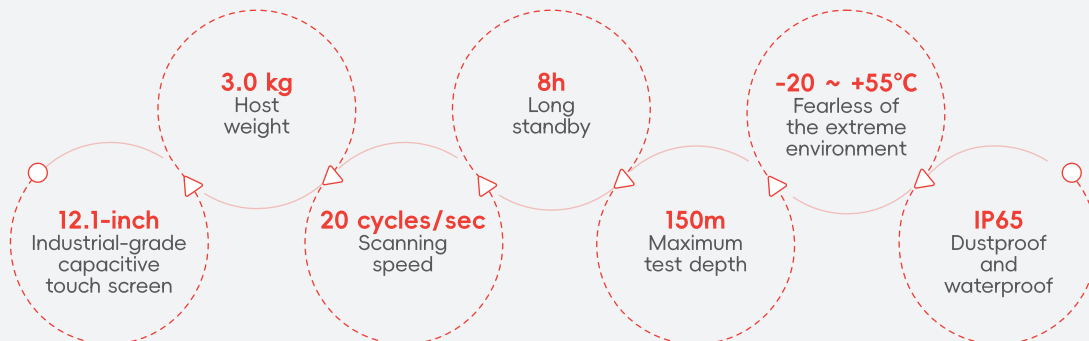
– Application

- Hole quality testing of bored piles on railway, highway, port, high-rise building and etc
- Hole quality testing of branch and plate piles
- Trenching quality testing of the groove of diaphragm wall



CE certificate

RSM-HGT (D) Ultrasonic Drilling Monitor with durable and stable structure, has a number of independent patented technologies, excellent performance. The signal excitation energy is large, and the noise suppression ability is strong. Intelligent improvements such as low-quality signal high-resolution analysis and automatic pick-up of bore-hole line are added to the traditional instrument to make monitoring easier.



– Technical Features



Wide Application Range

Ultrasonic probes have a small blind zone and high power.
Minimum detectable borehole (trench width) diameter: 600 mm.
Maximum detectable borehole (trench width) diameter: 8000 mm.
Maximum slurry density: 1.4.
Suitable for all types of media, including dry holes, wet holes, and chemical slurry.
Perfectly adaptable for the detection of almost all engineering boreholes and trenches.



Automatic Control Intelligent Testing

The probe lifting system achieves automatic control.
The system has self-calibration functions, automatically calibrating the testing system based on the borehole diameter or trench width at the opening.
Ensures accurate and reliable test results.



3D Simulation, Accurate Results

Automatic borehole wall identification.
Capable of 3D simulation of borehole conditions, producing 3D borehole condition effect diagrams.
Intuitive and accurate display of measured data and test results in multiple modes.
Supports quick on-site printing.



Made of Aviation Aluminum Integrated Frame Design

The RSM-HGT dual-line winch is made of aviation aluminum with an integrated frame design, making it lightweight and sturdy. It can be operated via wireless remote control and automatically adjusts to ensure the probe remains level during movement. The entire system is battery-powered.



Industrial-Grade Capacitive Screen

Industrial-grade capacitive touchscreen with a soft touch, providing smooth and precise operation.
Adaptable to strong light environments.
Newly upgraded software with a more user-friendly and convenient interface.



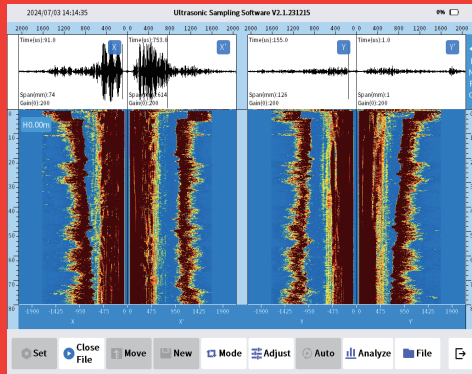
New Upgrade

The body is made of engineering plastic ABS+PC, high-temperature resistant and flame-retardant materials with high impact resistance.
IP65 dustproof and waterproof design, ensuring reliability in harsh environments.
Ultra-thin bracket design, stable and secure.

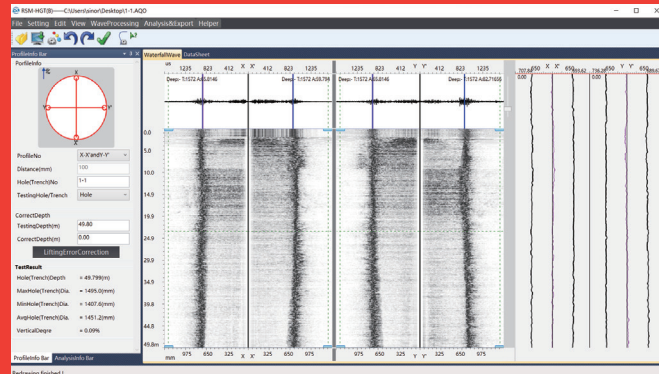
– Specification

RSM-HGT[D]			
Display method	12.1-inch true-color LCD screen Resolution: 1280×768 (adjustable backlight)	Data export	USB/Print on-site
Operation mode	Capacitive touch	Positioning system	Built-in GPS
Master control form	Low power embedded system Basic frequency: 1GHz Memory: 512M	Power supply mode	Removable lithium battery battery capacity: 12000mAh Battery thickness: 9mm Battery life: ≥8h
Scanning speed	≥20 cycles/sec	Operating temperature	-20 ~ +55°C
Frequency bandwidth	1 ~ 500kHz	Angle correction	Built-in electronic compass
Acoustic time accuracy	≤0.5%	Protection level	IP65
Measuring range	600 ~ 8000mm (hole/groove diameter)	Shell	Engineering Plastic: ABS+PC
Accuracy	0.2%FS	Dimension	340×275×62 mm
Max measuring depth	150m (Can be customized)	Weight	3.0 kg (including lithium battery)
Max depth resolution	5mm	Record mode	
RSM AUTO DOUBLE WINCH			
Lifting speed	0 ~ 20m/min adjustable (Fast lift while emergency)		
Auto stop function	With automatic stop at the bottom of the hole and automatic stop at the orifice		
Dimension (Auto double winch)	91×55×57cm		
Weight of Auto double winch	80kg		

Ultrasonic Drilling Monitor Analysis Software



Drilling Monitor Sampling Software Interface



Drilling Monitor Analysis Software Interface

– Features

- ✓ Compatible with Windows XP/Win7/Win8/Win10 operating system.
- ✓ Can be easily imported into Word and Excel for work reports.
- ✓ With a variety tables and report forms to meet the requirement of report.
- ✓ The headers of output results can be customized for selection and the customized header template can be saved.
- ✓ Friendly interface and easy operation.
- ✓ Three-dimensional model can be generated by the software.
- ✓ It supplies fast printing, the test results can be printed directly on situ.

– Project Case

Indonesia Surabaya Expressway Pile Foundation Drilling Test Project

