

U5700

- **DESCRIPTION:**

Field of use

U5700, multi-channel ultrasonic detector, is the perfect device for Cross-Hole acoustic wave transmission method. This instrument is specifically designed for testing piles foundation integrity by using the acoustic wave transmission method integrated with the unique multi-channel self- emission / self-receiving function. It also enables the concrete pile all-profile test with only one lift (3 or 4 acoustic testing pipes embedded), which makes the detection process more efficient and simpler.



Features:

- Testing 3 or 6 profiles per lift. The lifting speed > 60 meters per min (5 points per meter);
- Gains and delays are adjustable for every channel at any time, it ensures the data accuracy and reliability;
- Display all 6 profile information on one screen, thus making the quality of the entire rebar pile clear;
- 4 radical transducer part with different colors, makes simple operation convenient and efficient;
- During testing, you can adjust internal test point at any time and do “encryption” test point for important key parts;
- Can switch viewing bar graph, wave train graph, Depth curve, and record user’s use habits;
- Horizontal test, inclined test, retest, and finer increment testing multi modes, allow you to have an accurate identification of pile shaft defects;
- Built-in mass SSD (solid state disk) and mass lithium battery are perfect for field work;
- Data transfer through U disk. Fast and convenient;
- Built-in GPS orientation module, can get the GPS information of every foundation pile and save to data files of detection;
- Built-in WIFI module, LAN access through wireless routing, it make data transmission more conveniently and quickly.

- **TECHNICAL FEATURES:**

• Model	U5700
• Control mode	Low power consumption. Quad-core processors
• Monitor (HD high brightness TFT LCD screen)	10.4 inch
• Data Storage	Internal Micro SD (TF). Standard 8GB and can expandable U Disk

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• Operation Mode	Touch screen
• Signal collecting Mode (sampling point bu point)	4 channels auto
• Channels	4 independent
• Trigger	signal
• Sampling interval	0.025 s ~ 204.8 s, 14 adjustable
• Acoustic transit time accuracy	0.025 s
• Measuring range	0 ~ 4 s
• Amplifier gain	100 dB
• Amplifier bandwidth	10 ~ 250 KHz
• Receiver sensitivity	30 V
• Amplifier gain accuracy	0.025 %
• Emission voltage (V)	65, 250, 500, 1000 V adjustable
• Emission pulse-width	2 s ~ 20 ms adjustable
• Ports	USB
• Power	
I. Internal	Built-in lithium battery 6 hrs
II. External port	9V DC
III. Alternating Current Power	220V, 50 Hz
• Size (mm)	271x220x70
• Weight	2.5 Kg (lithium battery included)
• Operational environment	
Temperature	0 °C ~ + 40°C
Humidity	< 90 % RH

• **STANDARD ACCESSORIES:**

- Buyer touch tablet rugged IP67 multichannel
- Encoder automatic wireless (possible use with wire)
- 4 probes, length 100m
- 4 Guide Wire
- Compass
- Thermometer
- Battery charger
- Two suitcases for transport
- Manual
- Measuring tape 5m