

Ultrasonic Cross-hole Automatic Foundation Pile Detector



Product name : **Ultrasonic Cross-hole Automatic Foundation Pile Detector**

Item : **C71**

Details :

Application

- 1, Continuous rapid testing of building foundation piles by cross-hole sonic logging
- 2, Inspection of concrete defects by ultrasonic method, such as uncompacted, cellular, hole area and so on
- 3, Detecting strength of concrete by ultrasonic-rebound combine method
- 4, Detecting strength of concrete crevice by ultrasonic-rebound combine method
- 5, Detecting defects of one hole by one trigger two receive.
- 6, Testing mechanical properties of non-metallic material, such as rock, concrete etc.

Performance

- 1, **High efficient testing:** lifting speed more than 60m/s(20cm distance).
- 2, **Display test data graphically:** watch analyze result directly.
- 3, **Fast and precise automatic judge sound parameters:** real-time wave display to ensure test efficiency.
- 4, **Humanized software design,** apply to user and construction plant. Ensure user handle it easily.
- 5, **Linking the rebound apparatus directly,** detecting strength of concrete by ultrasonic-rebound combine method with linking rebound apparatus directly, and get strength of concrete in time.
- 6, **Being sensitive to receiving signal:** receive signal more than 10m in concrete without defects.
- 7, **Can supply smooth power for radial energy transducer needless external power**
- 8, **Standard USB storage with big capacity**
- 9, **Interior lithium battery, work more than 6 hours**
- 10, **Portable, impact design and light apparatus**
- 11, **extending function for testing thickness of concrete by impacting echo method**

12, Professional and powerful analysis software. Export the data to excel or word for advance analysis.

Technical Data

Item	Specification	Item	Specification
Main control unit	high-performance embed computer	Display	640*480, LCD high brightness TFT
Input Interface	Keyboard USB	Storage	1G(internal)+2G(U Disk)
Receive Channel	Two	Maximum hoisting speed	60m/min(20cm distance)
Trigger Mode	Continuous trigger, external trigger	Maximum sampling length	64k
Receive sensitivity	$\leq 30\mu\text{v}$	Transmit Voltage(V)	65, 125, 250, 500, 1000 selectable
Amplifier bandwidth	5Hz~500kHz	Amplifier gain	82dB
Phonatory time accuracy	0.05 μs	Sampling Interval	0.05 μs ~6.4 μs
	Interior lithium battery, more 6hours	amplitude resolution	0.39%
Power	(optional) external lithium battery, more than 6hours DC 12V AC 100V-240V, 50/60Hz	Connect concrete hammer	YES
		Dimension of Frame	260 mm×185 mm×60 mm
		Weight	1.75
		Work temperature	—10 to +40 degrees