

CJ-10 Nonmetal ultrasonic detector

● Purpose

- ☆ Testing of building foundation piles by cross-hole sonic logging;
- ☆ Inspection of concrete defects by ultrasonic method, such as uncompacted ,cellular, hole area.
- ☆ Detecting defects of one hole by one trigger two receive.
- ☆ Testing dynam performance of geotechnical investigation、rock、 concrete etc.



● Specification

- ☆ Technology code for testing of building foundation piles JGJ 106 —2003
- ☆ Technical Specification of Dynamic Pile Tests for Highway Engineering JTG/TF81-01-2004
- ☆ Technology specification for inspection of concrete defects by ultrasonic method CECS 21: 2000
- ☆ Technical specification for geotechnical investigation method GB50021—2001

● Performance





- ☆ High efficient testing. Lifting speed is more than 60m/s.(20 cm distance)。
- ☆ Display the test data graphically. User can watch analyze result directly;
- ☆ Fast and precise Automatic judge the sound parameters. Real-time wave display to assure test efficiency;
- ☆ Humanized software design. Software design apply to User and construction plant. its help information ensure user handle easily;
- ☆ 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. The functions apply for national patent.
- ☆ Being sensitive to receiving signal. Can receive signal more than 10m in concrete without defects
- ☆ **Can supply smooth power for radial energy transducer needless external power.**
- ☆ **Standard USB storage with big capacity.**
- ☆ Interior lithium battery supply power for apparatus work more than 6 hours.
- ☆ Portable, small, light apparatus (1.75Kg).
- ☆ Extending function for testing thickness of concrete by impacting echo method.
- ☆ Professional and powerful analysis software on windows system. It can export the data to Excel or word for advanced analysis

● Technical Data

Item	specifications	Item	specifications
Main Control Unit	high-performance Embed Computer	Display	640×480High brightness TFT Panel

Input interface	Keyboard	storage	1G (Internal) + 2G (U-Disk)
Receive Channel	Two	Max Sample Data length	64k
Trigger Mode	Continuous Trigger、External Trigger	Trigger Voltage (V)	65、125、250、500、1000 selectable
Receive sensitivity	$\leq 30\mu v$	Amplifier gain	82dB
Amplifier bandwidth	5KHz~500 kHz	Sample Periods	0.05 μs ~ 6.4 μs , 8 grades electable
Sound time accuracy	0.05 μs	Amplifier resolution	0.39%
Power	Interior lithium battery, work more than 6 hours	Size	260 mm×185 mm×60 mm
	External lithium battery , work more than 6 hours (select	Weight	1.75 kg (include lithium battery)
	DC 12V	Temperature	-10°C—+40°C
	AC 100V~240V、50/60Hz		

● Configure

Instrument	Signal Cable	Plane energy transducer	U-Disk
			
Box staff	box	lithium battery(selectable)	
