

▶▶ ZBL-U5100

Ultrasonic Detector

پتروفرفهان گستر جنوب

DIGINDT.IR
FGJ-NDT.IR



Features:

- During the test, the test result is available and the graphic distribution of abnormal points in each profile is shown at any time. Meanwhile, wave train figure, curve graph and data list of each profile may be shown;
- During the test, sampling delay and amplification factor may be adjusted at any time;
- With true color highlight LCD, waveform, wave speed and amplitude of multiple tested profiles may be clearly observed on site Data, curve, wave train figure and schematic graph of pile integrity of all test points in all profiles may be checked at any time, the quality of whole pile in the test is very clear.
- It adopts WinCE operation system with press screen and user-friendly interface, which is simply, easy to learn and convenient to operate;
- With high-capacity SD card, there is no need to worry about the storage space of test data;
- Built in high-performance and capacity lithium battery may satisfy fieldwork for long time.
- Various USB ports may be used for data transmission or software update within the instrument or external units such as mouse or keyboard.
- Test data of the same project is saved under the folder created with the title of the project for easy and reliable management.

Field of use

- Ultrasonic transmission method for testing the integrity of foundation pile (called "pile test" for short)
- Ultrasonic-rebound combined method for testing compressive strength of concrete (called "strengthtest" for short);
- Ultrasonic transmission method for testing defect and cavity in structural member (called "defect test" for short);
- Ultrasonic flat-measured method for testing crack depth of concrete surface (called "crack test" for short);

Main Configurations



ZBL-U5100



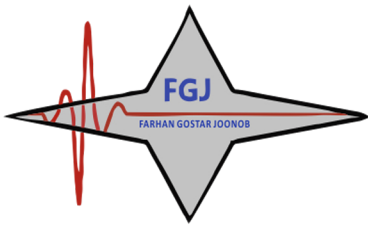
Plane probe



Signal wire



Waterproof case



+982165565901

+982144584619

+989034119385

Tehran, Tehransar

Technical Specifications

Item		Specifications	
		ZBL-U5200	ZBL-U5100
Model		ZBL-U5200	ZBL-U5100
Control Mode		built-in A8 industrial control board	
Monitor		5.7 inch, semi inverse semi penetration, TFT	
Operating mode		Touch screen & Keys	
Data storage		standard4GB and can expandable U disk	
Number of channels		1 emitter+2 receiver	1 emitter+1 receiver
Trigger		signal	
Sampling interval (μs)		0.025~1638.4	optional multiple levels
Testing and reading precision of acoustic time(μs)		0.025	
Range (μs)		±1677700	
Maximum system dynamic range (dB)		154	
Bandwidth (kHz)		3~450	
Receiving sensitivity (μV)		≤ 10	
Precision of gain control		0.5dB	
Transmitting voltage (V)		65、250、500、1000 optional multiple levels	
Ports		USB、MiniUsb、Wi-Fi、Blue-tooth	
Operation time (h)		≥ 5	
Power	Internal	Bult-in Battery	
	External	220V AC/DC	
Operational Environment	Temperature (°C)	-10°C ~ +40°C	
	Humidit (RH)	< 90%	
Size (mm)		210 ×149×60	
Weight (kg)		1.36(lithium battery included)	

ZBL-U5200/5100 Software

Main interface test interface test interface

Analysis Software

Main interface curves of all sections view Critical value area data list view

Point No.	Depth (m)	T (us)	V (cm/s)	A (dB)	FSD (us ² /cm)
202-01	0.15	173.60	4.378	94.83	0.026
201-01	0.40	172.80	4.398	96.17	4.326
200-01	0.65	183.20	4.148	90.05	1.082
199-01	0.90	178.00	4.270	99.27	0.102
198-01	1.15	176.40	4.308	98.48	0.102