



▶▶ ZBL-U5600/U5700

Multi-channel Ultrasonic Detector

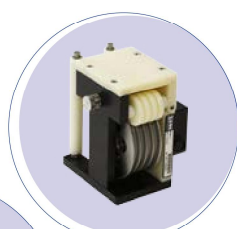
Field of use

- 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-U5600/U5700



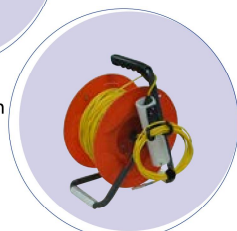
Depth recording wheel



Guide wheel on pipe mouth



Tripod



Radical transducer



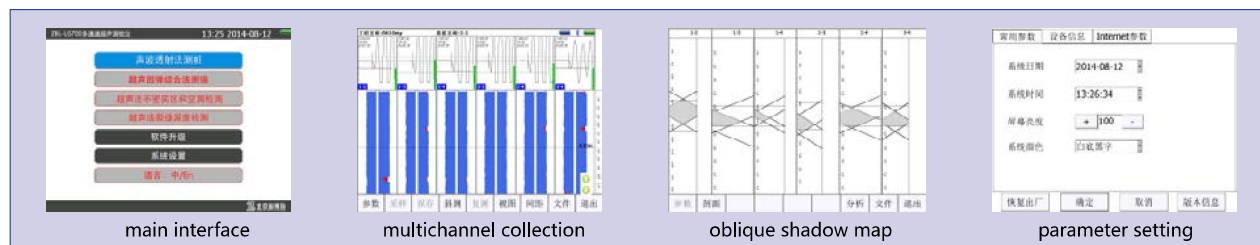
Features:

- Multichannel self-transmitting and receiving full combination ultrasonic test for foundation pile may automatically and continuously collect and save information such as depths, acoustic parameters and waveforms of all test points on multiple profiles. With steady and undistorted waveform, accurate interpretation of acoustic parameter and excellent repeatability and consistency, the on-site test speed may be dramatically improved;
- 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;
- Radial transducer may be played back at any time without any operations for repeating test;
- 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.

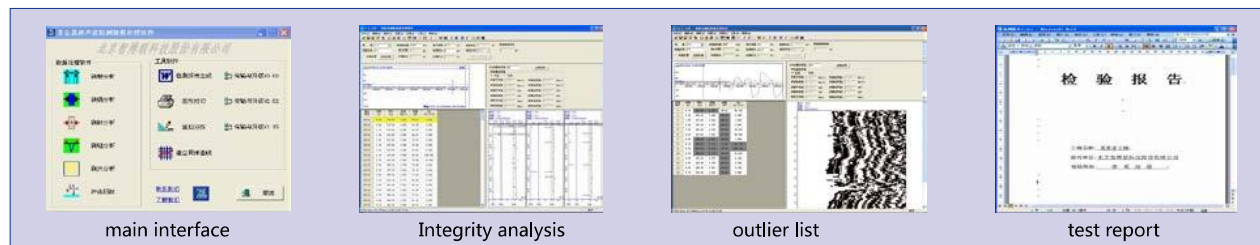
Specification

Item		Specification		
Model		ZBL-U5600	ZBL -U5700	
host	Number of channels	3	4	
	Number of profiles under test simultaneously	3	6	
	Control Mode	Internal A8 Industrial control board		
	Monitor	10.4 inch, highlight, true color LCD		
	Operating mode	Touch screen		
	Data storage	standard4GB and can expandable U disk		
	Sampling interval (μ s)	0.05 ~ 1638.4 optional multiple levels		
	Testing and reading precision of acoustic time (μ s)	0.05		
	Record length	512 ~ 4096		
	Testing and reading range of acoustic time (ms)	± 1677.7		
	Transmitting voltage (V)	65、250、500、1000 optional multiple levels		
	Maximum system dynamic range (dB)	154		
	Precision of gain control (dB)	0.5		
	Bandwidth (kHz)	2 ~ 500		
	Receiving sensitivity (μ V)	≤ 10		
	Port	USB、MiniUsb、WiFi、Blue-tooth		
	Measuring method	Horizontal test, inclined test, retest, finer increment test		
	Operation time (h)	> 8		
	Power	Internal	built-in lithium battery	
		External	220V AC/DC	
Operational Environment	Temperature ($^{\circ}$ C)	$-10 \sim +40$		
	Humidit (RH)	$< 90\%$		
Size (mm)	270 \times 220 \times 75			
Weight (kg)	2.5			
Lifting device connection mode	Wired and wireless can be switched			
Maximum transmission distance (m)	≥ 5			
Resolution (cm)	1			
Work time	≥ 20 h			
Power	built-in lithium battery			
Record interval (cm)	2 ~ 25 adjustable			
Lifting speed (m/min)	> 60 (5 test points one meter)			

Software



Analysis Software



Application

