

## Ultrasonic Detector

### Concrete Detector

- Eight-inch screen, capacitive touch screen, friendly software interface, simple and easy to use.
- Fully intelligent crack width algorithm, self-reading and judging crack width, no need to adjust the test angle.
- New first wave interpretation algorithm, more accurate ultrasonic first wave interpretation.
- Built-in high-performance large-capacity lithium battery to meet the needs of long-term outdoor work.
- Use large-capacity SD card, no need to worry about the storage space for test data.

### Application:

- \* Concrete strength, defect detection, surface crack depth and width detection.
- \* Pile foundation and continuous wall integrity detection.
- \* Geological survey, rock mass integrity and weathering evaluation.
- \* Mechanical properties of non-metallic materials (rock, concrete, etc.)



### Technical Specifications :

Model Number		NL 4040 X / 002
Alternate Code		ZBL - U550A
Number of Channels		Single send and single receive
Sound Time Measurement Accuracy		0.025 $\mu$ s
System Max. Dynamic Range		154 dB
Gain Adjustment Accuracy		0.5 dB
Amplitude Measurement Error		$\leq 1$ dB
Receiving Sensitivity		$\leq 10$ $\mu$ V
Sampling Period		0.025 ~ 409.6 ( $\mu$ s), multiple gears
Seam Width	Measuring Range	Not less than 5 mm
	Resolution	Better than 0.006
	Max. Allowable Error	Better than $\pm 0.02$ mm
	Image Format	BMP format, 800 x 600 dots, 24-bit true color
Waveform Points		512 ~ 4096, multiple options
Transmitter Voltage		65 V, 125 V, 500 V, 1000 V
Bandwidth		1 - 500 kHz
Power Supply Mode		Built-in rechargeable lithium battery (rated energy 37Wh)
Working Hours		> 5 hours
Interface		USB Interface, WiFi, Bluetooth
Monitor Display		8" Touchscreen, TFT
Product Dimension		240 x 188 x 60 mm
Weight		1.7 KG

\*1 Copy of Manual Instructions

**Set Consists Of :**

Model Number	Specifications	Qty
NL 4040 X / 002	Ultrasonic Detector Host	1 Unit
NL 4040 X / 002 – P 001	Waterproof Case	1no.
NL 4040 X / 002 – P 002	Plane Transducer	2nos.
NL 4040 X / 002 – P 003	Signal Line-Planar Transmitter U5600 / 5700	1no.
NL 4040 X / 002 – P 004	Signal Line - Flat Receiver U5600 / 5700	1no.
NL 4040 X / 002 – P 005	Microscopic Camera Probe	1no.
NL 4040 X / 002 – P 006	12 V Power Adapter	1no.
NL 4040 X / 002 – P 007	USB Flash Drive	1no.
NL 4040 X / 002 – P 008	Measuring Ruler Set	1set



**NL 4040 X / 002**



**NL 4040 X / 002 – P 001**



**NL 4040 X / 002 – P 002**



**NL 4040 X / 002 – P 003 & P 004**