MATERIAL TESTER

PCE-UCD 100



- **Measurement on concrete piles, concrete beams**
- **Measurement parameters: Concrete strength, error detection, size and depth of**
- **voids, cracks**
- **Includes a camera for measuring crack width**
- **Bandwidth 1 to 500 kHz**
- **Display: 10.1" TFT touchscreen display**

The material testing device sets a new standard for the quality control of concrete structures. With a wide range of measurement parameters and state-of-the-art technology, this material testing device enables accurate assessment of concrete piles, concrete beams, and other building components. This innovative material testing device provides not only reliable concrete strength measurements but also detailed error detection, including the size and depth of voids and cracks. The included camera even allows for precise measurement of crack widths.

The material testing device is specifically designed to accurately measure concrete strength and detect flaws such as voids and cracks. It enables measurements on concrete piles, concrete beams, and other concrete structures.

The camera allows for high-resolution capture of cracks and facilitates precise measurement of crack width directly on the material testing device. With an impressive bandwidth of 1 to 500 kHz, the material testing device covers a wide frequency spectrum, enabling accurate and reliable measurement in various concrete structures. The material testing device features a 10.1" TFT touchscreen display that provides a clear and intuitive user interface.

The material testing device comes in a robust carrying case, which not only enables easy transportation but also protects the material testing device from impacts and moisture.

Specification

Acoustic signal range	
Measuring range	-1677700 ... +1677700 µS
Resolution	0,05 µS

General technical data	
Measuring functions	Detection of concrete piles, Concrete strength, Depth and width of blowholes, cracks
Measuring interval	0.05 ... 409.6 µS
Display type	TFT colour display
Display size	10,1 Inch
Interface	USB
Bandwidth	1 ... 500 kHz
Test voltage	125V, 250V, 500V, 1000V
Gain range	146 dB
Menu language	English, Chinese
Protection class (device)	IP20
Power supply	11.1 V
Capacity	8100 mAh
Operating conditions	0 ... 50 °C , 10 ... 85 % RH
Storage conditions	0 ... 50 °C , 10 ... 85 % RH
Dimensions (L x W x H)	300 x 200 x 58 mm
Other dimensions	Sensor cable length: approx. 10 m
Weight	2160 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 4649020
info@pce-instruments.co.uk