



Pundit Ultrasonic

## Pundit Lab (+)

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A flexible UPV test instrument designed for laboratory operations

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### Reliability

Lab adaptations include an oscilloscope output, power supplied via a battery, mains, or via a USB connection to a PC. Full PC control of all functionality



### Open Interface

Removes the need to use the proprietary software. The open interface allows the instrument to be seamlessly integrated into the laboratory environment.



### Ease of use

Increased receiver amplification allows optimum performance with exponential transducers which can be used on rough or curved surfaces, with or without coupling gel.




## Instrument

### Tech Specs

Bandwidth	20 to 500 kHz
Technology	Ultrasonic pulse velocity
Measuring Resolution	0.1 $\mu$ s
Pulse Voltage	$\pm 125$ to $\pm 500$ V (UPV)
Receiver Gain	1x, 10x, 100x, AUTO, Pundit Lab+ up to 1000x
Nominal Transducer Frequency	24 – 500 kHz
Pulse Shape	Square Wave
Pulse Delay	–
Number of Channels	1
PC Software	Pundit Link unlocks the full Pundit Lab+ capabilities
Display	79 x 21 mm passive matrix OLED
Memory	> 500 measured values
Connections	USB connection to PC
Measurement Modes	Pulse velocity Surface velocity Data logging E-modulus Compressive strength correlation Crack depth
Measuring Range	Up to 15 m depending on concrete quality
Special Features	Open interface Integrated amplifier gain stage Real time stamp
Transducers	Available Proceq transducers: 54 kHz, 150 kHz, 250 kHz, 54 kHz exponential, 500 kHz and 40 kHz shear wave dry point contact. Connect third party transducers with a standard BNC connector up to 500 kHz.

## Our Accessories

Image	PartNumber	Description
	Pundit Lab (+)	2 Exponential transducer 54 kHz, including calibration rod (325 40 176) Transducer 150 kHz (Two required for operation) (325 40 141)

Standards & Guidelines	Description
ΓOCT 17624	
ASTM C 597-02	
CECS 21	
EN 12504-4	
IS 13311	
ISO 1920-7:2004	

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