



## 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



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

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
FOCT 17624		
ASTM C 597-02		
CECS 21		
EN 12504-4		
IS 13311		
ISO 1920-7:2004		

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