

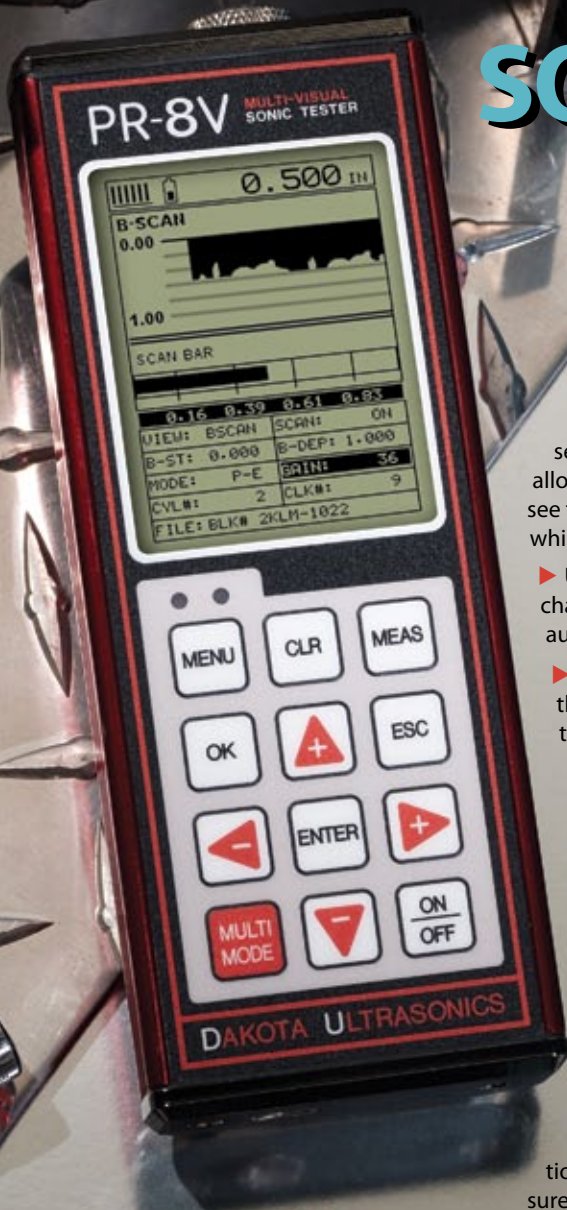
DAKOTA ULTRASONICS

The

PR-8V

SONIC TESTER

The physical size, weight, and display resolution are just a few of the benefits of the PR-8V



- ▶ The time-based B-Scan feature of the PR-8V displays a cross section of the opposite surface, allowing engine builders the ability to see the contour of the back surface in cylinders while scanning.
- ▶ Use the Multi-Mode (Echo-Echo mode) feature to measure chassis tubing with or without paint and coatings. Built-in automatic gain control.
- ▶ Selectable low, medium, and high gain settings offer the inspector the additional punch power for materials that are hard to penetrate.
- ▶ The variety of calibration options is just one more example of PR-8V's versatility.
- ▶ Store up to 64 custom setups. Factory setups available for common applications.
- ▶ The internal Data Logger of the PR-8V has been customized for both the engine builder and the chassis inspector. Selectable cylinder mapping or general alpha numeric file storage will satisfy your reporting needs.
- ▶ Built-in transducer types offer increased linearity between transducers.
- ▶ The Fast Scan feature provides a better representation during the scanning process, by making 32 measurements per second. Remove the transducer from the test material and display the thinnest measurement found.
- ▶ Use the visual and audible alarm to set Hi and Lo limits to signal the inspector when the measurements are out of tolerance.
- ▶ The PR-8V also comes complete with our Windows® PC software for transferring data to- and from a PC, and viewing B-Scans, Cylinder Maps, and general measurements.
- ▶ 2 year limited warranty.

NDT INTERNATIONAL INC.
711 S. Creek Road,
West Chester PA U.S.A.
19382-8013



Tel: (610) 793-1700
FAX: (610) 793-1702
info@ndtint.com
www.ndtint.com

SOUND SOLUTIONS

PR-8V SPECIFICATIONS

Physical

Size:

Width (2.5in/63.5 mm)
Height (6.5 in/165 mm)
Depth (1.24 in/31.5 mm)

Weight:

13.5 ounces (with batteries).

Keyboard:

Membrane switch pad with twelve tactile keys.

Operating Temperature:

14 to 140F (-10C to 60C)

Case:

Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed).

Data Output:

Bi-directional RS232 serial port. Windows® PC interface software.

Display(Two Options): 1/8in VGA gray-scale display (240 x 160 pixels). Viewable area 2.4 x 1.8in (62 x 45.7mm). EL backlit (on/off/auto). 25 Hz screen refresh rate.

Ultrasonic Specifications

Measurement Modes:

Pulse-Echo - (flaws, pits, corrosion).

Echo-Echo - (thru-paint - chassis).

Pulser:

Square wave pulser.

Receiver:

Selectable low, medium, or high gain in Pulse-Echo mode or AGC gain control in Echo-Echo mode.

Timing:

20 MHz ultra low power 10 bit digitizer.

Warranty

2 year limited.

Certification

Factory calibration traceable to NIST & MIL-STD-45662A.



Power Source

Three 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 35 hours on alkaline and 10 hours on NiCad (charger not included).

Auto power off if idle 5 minutes.

Battery status icon.

Measuring

Range:

Pulse-Echo Mode:

Standard operating mode for engines and automotive parts without painted surfaces (pits or flaws detection). Measures 0.025in. to 9.999in. (0.63mm to 254mm).

Echo-Echo Mode:

Thru-paint & coating—chassis and general body inspections. Measures from 0.050in. to 4in. (1.27mm to 102mm).

Resolution:

+/- .001 in. (0.01 mm).

Velocity Range:

.0492 to .3936 inches/μs.
1250 to 9999 meters/sec.

One and Two Point calibration option, or selection of basic material types.

Units:

English & Metric

Display

Display Views:

Large Digits - Standard thickness view. Digit Height: 0.400 inch (10mm).

B-Scan - Time based cross section view. Display speed of 15 secs per screen.

Scan Bar Thickness - 6 readings per second; Viewable in B-Scan and Large Digit views.

Repeatability Bar Graph - Bar graph indicates stability of reading.

Connections

Output: RS232 serial interface. PC software & USB converter cable included.

Transducer Connectors: Two LEMO 00 connectors.

Memory

12,000 readings and waveforms (alpha numeric storage).

OBSTRUCT to indicate inaccessible locations.

Memory:

16 megabit non-volatile ram.

Transducer

Transducer Types:

Dual Element (1 to 10 MHz).

Locking quick disconnect "00" LEMO connector.

Standard 4 foot cable.

Custom transducers and cable lengths available.

Features

Setups:

64 custom user-defined setups. Factory setups available for common applications.

Selectable Transducers:

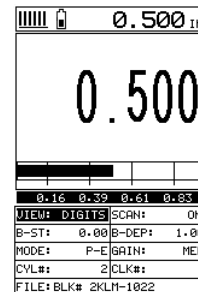
Selectable transducer types with built-in dual-path error correction for improved linearity.

Alarm Mode:

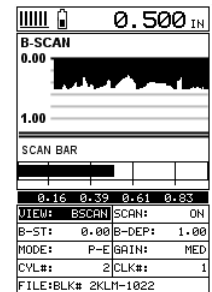
Set Hi and Lo tolerances with audible beeper and visual LEDs.

Fast Scan Mode:

Takes 32 readings per second and displays the minimum reading found when the transducer is removed. Display continuously updates while scanning.



Digits View



B-Scan View

MADE IN THE USA

Distributed by:

NDT INTERNATIONAL INC.
711 S. Creek Road,
West Chester PA U.S.A.
19382-8013



Tel: (610) 793-1700
FAX: (610) 793-1702
info@ndtint.com
www.ndtint.com



DAKOTA ULTRASONICS

1500 Green Hills Road, #107
Scotts Valley, CA 95066
Ph: (831) 431-9722
Fax: (831) 431-9723
Website: www.dakotaultrasonics.com
Email: info@dakotaultrasonics.com