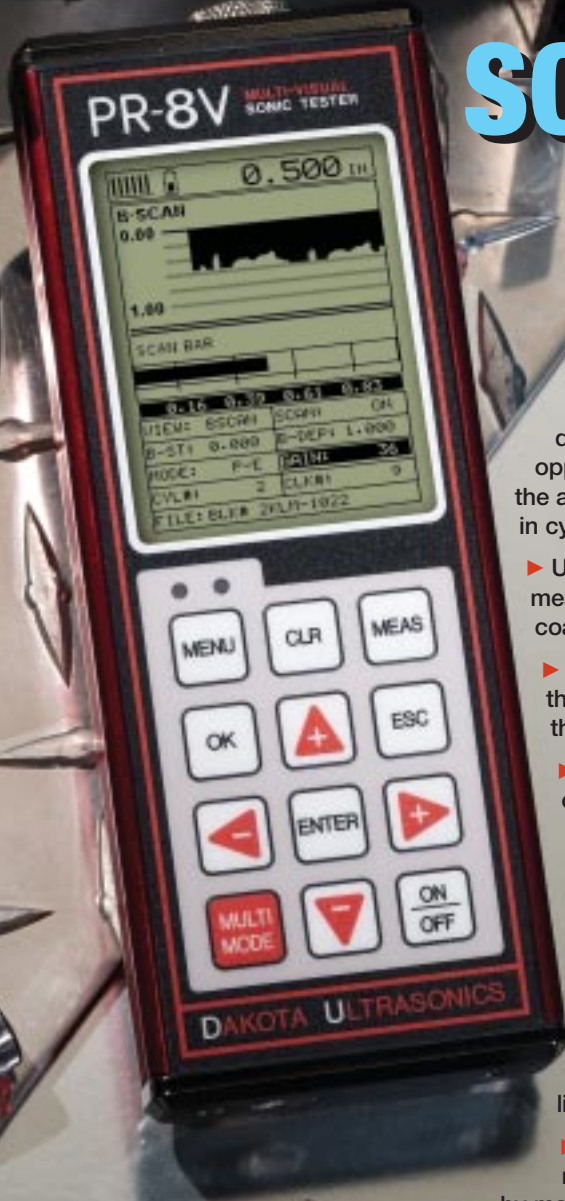


# THE PR-8V

## 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.

## Physical

### Size:

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

### Weight:

13.5 ounces (with batteries).

### Keyboard:

Membrane switch pad with twelve tactile keys.

### Operating Temperature:

14°F to 140°F (-10°C to 60°C)

### Case:

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

### Data Output:

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

### Display:

1/8in. VGA grayscale display (240 x 160 pixels). Viewable area 2.4in. x 1.8in. (62m. x 45.7mm). EL backlit (on/off/auto).

## Ultrasonic Specifications

### Measurement Modes:

Pulse-Echo (flaws, pits, corrosion).

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

### 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 with ultra low power 8 bit digitizer.

## Warranty

2 year limited

## Certification

Factory calibration traceable to national standards.



## Power Source

Three 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 150 hours on alkaline and 100 hours on NiCad (charger not included.)

Auto power off if idle 5 min.

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/ $\mu$ s  
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: 0.400in. (10mm).

#### B-Scan—

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

#### Scan Bar Thickness—

Viewable in Large Digit and B-Scan views.

#### Repeatability Bar Graph—

Bar graph indicates stability of reading.

## Data Logger (Internal)

12,000 readings and B-Scans (alpha numeric storage).

### 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 for special applications.

## Features:

### Setups:

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

### Selectable Transducers:

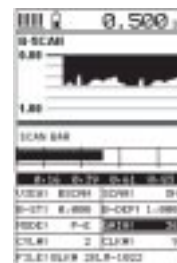
Selectable transducer types with built-in dual-path error correction for improved linearity.

### Alarm Mode:

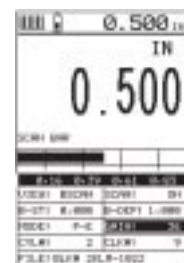
Set Hi and Lo tolerances with audible beeper and visual LEDs.

### Fast Scan Mode:

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



B-Scan  
Display View



Large Digits  
Display View

Distributed by:

## QUALITEST USA

TELEPHONE: 1.877.884.TEST (8378)

FAX: 954.697.8211

WEB SITE: [www.WorldofTest.com](http://www.WorldofTest.com)

E-MAIL: [info@qualitest-inc.com](mailto:info@qualitest-inc.com)