

# PR-8V SPECIFICATIONS

## **Physical**

## Weight:

13.5 ounces (with batteries).

2.5 W x 6.5 H x 1.24 D inches (63.5 W x 165 H x 31.5 D mm).

#### **Operating Temperature:**

-14° to 140°F (-10° to 60°C).

### Keyboard:

Membrane switch with twelve tactile keys.

#### Case:

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

### Display:

1/8in VGA grayscale display (240 x 160 pixels); viewable area 2.4 x 1.8in (62 x 5.7mm); EL backlit (on/off/auto/invert).

## **Ultrasonic Specifications**

#### Measurement Modes:

Pulse-Echo (flaws, pits, corrosion). Echo-Echo (thru-paint-chasis).

#### **Pulser:**

150 volt square wave pulser.

#### Receiver:

Manual or AGC gain control with 50dB range, depending on mode selected.

Precision TCXO timing with single shot 100 MHz 8 bit ultra low power digitizer.

## Display

## **Display Views:**

Large Digits: Standard thickness view; Digit Height: 0.700 in (17.78 mm).

B-Scan: Time based cross section view. Display speed variable (10 to 200 readings per second).

Scan Bar: Speed 10 Hz. Viewable in B-Scan and Large Digit views.

Bar Graph: Indicates stability of measurement. Viewable in B-Scan and Large Digit views.

## **Power Source**

Line Power: USB-C to PC or power outlet.

#### **Batteries:**

Three AA cells. Alkaline - 35 hrs, Nicad - 10 hrs and NI-MH - 35hrs.

Auto power off if idle 5 minutes.

Battery status icon.

## Measuring

### Range:

Pulse-Echo Mode (P-E) - (Pit & Flaw Detection) measures from 0.025 to 36 inches. (0.63 to 914.4 mm). Range dependent on material and transducer type.

Echo-Echo Mode (E-E) - (Thru Paint & Coatings) measures from 0.100 to 4.0 inches (2.54 to 101.6 mm). Range will vary depending on the coating thickness and material type.

**Resolution:** +/- .001 inches (0.01 mm).

## Velocity Range:

0.0122 to 0.7300 inches/µs 309.88 to 18542 meters/sec

Single and Two point calibration option, or selection of basic material types.

Units: English & Metric

## Memory

#### **Data Structure:**

Grid (alpha numeric)

Engine Map (cylinder scans)

## **Screen Capture:**

Bitmap graphic capture for quick documentation (.tif).

**OBSTRUCT** to indicate inaccessible locations.

## Capacity:

4 Gb internal SD card.

## **Data Output:**

## **Transducer**

## **Transducer Types:**

Dual Element (1 to 10 MHz).

Locking quick disconnect "00" LEMO con-

Standard 4 foot cable.

Custom transducers and cable lengths available.

### **Features:**

#### Setups:

64 custom user-definable setups; Factory setups can be edited.

#### 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.

#### Scan Mode:

Takes 250 readings per second and displays the minimum & maximum readings found when the transducer is removed.

### Certification

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

## Warranty

2 year limited



**B-Scan View** 

U:0.1800 IN



THICK: 0.178 B-SCAN ZERO PROBE:

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# USB-C 1.1 PC & OSX connectivity.

# MADE IN THE USA

Distributed by:



## 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