

# AS EASY AS A-B-C:

EHC-09

Wave

## A IS FOR A-SCAN

## B IS FOR B-SCAN

## AND C IS FOR COLOR DISPLAY...

- LIVE SIMULTANEOUS COLOR WAVEFORM AND THICKNESS DISPLAY
- DYNAMIC WAVEFORM COLOR CHANGE ON ALARM
- CONTROL OF GAIN, BLANKING, RANGE, RF AND RECTIFY MODES
- AVAILABLE IN MULTIPLE MODELS



Danatronics is proud to introduce the world's smallest ultrasonic thickness gage with high resolution **COLOR** waveform display, The EHC-09 Wave. Unique features include live **COLOR** A-Scan, B-Scan, 50K thickness reading (5000 waveforms) datalogger with interface program, vibration and **COLOR** change of waveform on alarm.

Auto range centers echoes in the middle of the screen independent of material thickness. The blanking and gain adjustments are ideal for complete waveform adjustment and control. The echo to echo feature can ignore the paint or coating thickness. The waveform option can even be added to our popular EHC-09 gages.

For more information, call us at  
**978-777-0081** or email  
**sales@danatronics.com**  
or visit **www.danatronics.com**  
to arrange a demonstration.

### TYPICAL APPLICATIONS:

- Boiler Tubes
- Pressure Vessels
- Storage Tanks
- Ship Hulls
- Containers
- Home Oil Tanks
- Pipes
- Steam lines
- Compressors
- Shafts
- Bridge Pins
- Bond Inspection

*Software options are field upgradeable, there is no need to plug in a USB cable or return the unit to our factory.*



**WWW.DANATRONICS.COM**

EHC-09

Wave



**Size:** 5" (127 mm) (L) x 3" (76.2 mm) (W) x 1.25" (31.75 mm) (H)

**Weight:** 8 OZ (.23 kg)

**Thickness range:** 0.008 - 20 inches (.20 mm - 508 mm), depending on material, temperature and transducer selection

**Material Velocity Calibration Range:** 0.0200 - 0.7362 in/ $\mu$ S (0.508 - 18.699 mm/ $\mu$ S)

**Temperature:** Gage Operating: -4° F to 122° F (-20° C to 50° C)  
Surface temperature of material: Depending on probe use, from -5° F to 1000° F (-20° C to 537° C)

**Battery life:** Up to 50 hours (25 hours with backlight on)

**Battery type:** 2 "AA" Alkaline

**Color Display:** 170 X 220 pixels, high resolution TFT color display

**Information displays:** LOS, min, max, large reading while displaying min at the same time, velocity, zero, calibration, units, freeze, unfreeze, % battery life remaining, gain - low, std, high, echo to echo symbol

**Resolution:** .001" (.01 mm)

**Auto Probe Setup Parameters:** Via pick list from a menu to set up gain, v-path and sensitivity

**Delay line zero measurement:** Auto at power up with listed numeric value. Ideal for correcting delay line wear/curvature and for transducer acoustic drift at elevated temperatures

**Package:** Custom, splash-proof, high impact plastic with illuminating rubber keypad for go/no-go testing

**Bandwidth:** 0.5-20 MHz (-3dB)

**Units:** English/Metric/Microseconds

**Gain:** Low, Standard and High for varying test conditions

**Measurement rate:** 4 or 20 measurements per second

**Differential Mode:** Displays the difference from the actual thickness measurement and a user entered reference value

**Alarms:** Minimum/Maximum depth, vibralarm, beeps and display flashes as well as keypad illumination

**Illuminating keypad:** F1 = Red, F2 = Yellow and F3 = Green for easy, go/no-go testing

**Automatic probe wear indicator** (Transducer attendant): Automatically informs the operator to replace the transducer (Patent Pending)

**Ergonomics:** User selectable lefty or righty display changes via keypad (Patent Pending)

**Backlight:** Light Emitting Diode (LED), On/Off or Auto On based on valid readings or last key press

**Shut off:** Auto, time out (user programmable from 5-31 minutes or Never shut off)

**Fast Scan Min/Max mode:** Displays minimum or maximum thickness value at 20 measurements per second (ideal for high temperature thickness reading and tracking the minimum depth) while also displaying actual thickness.

**Protective Pouch:** Custom molded pouch with belt clip and wrist strap for either lefty or righty operators

**Carrying case:** Hard Plastic with high density molded cut out for all accessories

**Freeze mode:** Freezes display to hold onto last reading (ideal for high temperature applications)

**Hold mode:** Holds display to retain last thickness reading in reverse video display

**Standard EHC-09 Wave Series includes:** Ultrasonic thickness gage with 5MHz, 0.375 inch diameter transducer with potted cable, operational manual, cable, couplant and protective pouch

**Warranty:** Limited 2 year warranty on parts and labor

Item	Specification	EHC-09DL CW	EHC-09 CW	EHC-09 C
Thickness range:	0.008 - 20 inches (.20 mm - 508 mm)	✓	✓	✓
Delay line zero measurement:	Auto at power up with listed numeric value. Ideal for correcting delay line wear/curvature and for transducer acoustic drift at elevated temperatures	✓	✓	✓
Scan mode:	Displays minimum or maximum thickness value at 20 measurements per second	✓	✓	✓
Differential Mode:	Displays the difference from the actual thickness measurement and a user entered reference value	✓	✓	✓
Alarms:	Minimum/Maximum depth, vibralarm, beeps and display flashes as well as keypad illumination and vibration	✓	✓	✓
Illuminating keypad:	F1 = Red, F2 = Yellow and F3 = Green for easy, go/no-go testing	✓	✓	✓
Automatic probe wear indicator:	Automatically informs the operator to replace the transducer (Patent Pending)	✓	✓	✓
Waveform:	Live Color Waveform	✓	✓	○
Range:	Adjustment of manual range control or auto zoom tracking to center echoes independent of selected range	✓	✓	—
Gain Adjust:	Variable adjustment of gain	✓	✓	✓
Rectification Modes:	RF, Half Wave Positive, Half Wave Negative and Full Wave Rectification	✓	✓	—
Echo to Echo:	Measures the metal thickness only (ignore paint and coatings)	✓	○	○
Non-Encoded B-Scan:	Displays a cross section of the test piece	✓	○	○
Datalogger:	50,000 thickness datalogger with ID point in linear or grid files (100 to 5,000 readings per file)	✓	○	○
<i>Software options are field upgradeable, no need to return the unit to the factory</i>				