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...

IP54 RATED

- 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

With more than 75 years of word-wide experience in Ultrasonic designs, Danatronic is proud to pioneer the world's first hand held ultrasonic thickness gage with color display; our EHC09 color wave series. Unique features include live COLOR A-Scan, B-Scan, 100K thickness reading (3500 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.

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.

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DANATRONICS NDT Made Easy

Specifications for the EHC-09DLCW, EHC-09DLC, EHC-09CW, and EHC-09C

Specifications are subject to change for product improvement without notice

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: 0.020 - 20 inches (.50 mm - 508 mm) in steel, depending on material, temperature and transducer selection

Material Velocity Calibration Range: 0.0200 - 0.7362 in/µS (0.508 - 18.699 mm/µS)

Temperature: Gage Operating: -4° F to 122° F (-20° C to 50° C) High temperature transducers available for material temperatures from -5° F to 950° F (-20° C to 510° C)

Battery life: 8 -14 hours (depends on operating conditions)

Battery type: 2 "AA" Alkaline

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

Language support: multi language of English, French, Spanish, Italian, Czech, German, Portuguese, Slovak, Finnish, and Hungarian

Information displays: Loss of signal (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), .01" (.1 mm)

Probe Recognition: Via pick list from a menu

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: IP54 Rated, 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 (for gages without a waveform) or 1 dB steps from 20-90 dB or Automatic Gain Control (AGC) for gages with a waveform

Differential Mode: Displays the difference from the actual thickness measurement in absolute or percentage of a user entered reference value

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

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

Ergonomics: User selectable lefty or rightly display changes via keypad

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

Shut off: Auto, user programmable time out (1-31 minutes), after no reading/key press or never shut off

Protective Pouch: Custom molded pouch with belt clip and wrist strap for either lefty or righty operators (optional, standard with DLC and DLCW).

Transport case: Hard Plastic with high density molded foam cut out for gage and most accessories

Freeze mode: Freezes display (ideal for high temperature applications)

Hold mode: Holds display to retain last thickness reading

Standard EHC-09 Wave Series includes: Ultrasonic thickness gage, DKS-537, 5 MHz 0.375 inch diameter potted cable, operational manual, Data XL interface program, couplant, and transport case. See chart below for standard inclusions for each gage

Warranty: Limited 2 year warranty on parts and labor for gage only under normal use

Transducers: A wide variety of dual transducers from 1-10 mhz, high temperature duals, delay lines and pencil probes

Item	Specification	EHC-09DLCW	EHC-09DLC	EHC-09CW	EHC-09C
Thickness range:	0.020 - 20 inches (.50 mm - 508 mm) in steel	✓	✓	✓	✓
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:	Simultaneously displays minimum or maximum and actual 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, vibrates, 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	✓	✓	✓	✓
Velocity Mode:	Displays acoustic sound speed	✓	✓	✓	✓
Echo to Echo:	Measures the metal thickness only (ignore paint and coatings)	✓	✓	✓	✓
Range:	Adjustment of manual range control or auto zoom tracking to center echoes independent of selected range	✓	O	✓	O
Rectification Modes:	RF, Half Wave Positive, Half Wave Negative and Full Wave Rectification	✓	O	✓	O
Live Waveform (A-scan):	Full adjustments, for gain in 1db step or AGC, main bang blank, blank after first received echo, range including zoom auto tracking to center echoes independent of material and rectification	✓	O	✓	O
B-Scan (Encoded or Non-Encoded)	Displays a cross section of the test piece with optional encoder and factory upgrade	✓	✓	O	O
Datalogger:	Upgrade to Data Logger Version, 100,000 readings in linear, 2D, 3D grid or boiler alphanumeric files, 20 character file name, file compare, grid review and export to excel via Data XL interface program, also compatible with Ultrapipe	✓	✓	O	O

O = Software options that are field upgradeable, no need to return the unit to the factory