Stroud Systems, Inc

Providing Material Testing Solutions Since 1962

Introducing the **world's smallest ultrasonic thickness gage** with high resolution **COLOR** waveform display, 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. The Live Waveform is critical in many applications requiring Waveform or A-Scan verification to ensure the displayed thickness value is correct. Typical applications at refineries and nuclear plants are the most critical including boiler tubes, high temperature piping and pressure vessels. The Live **COLOR** Waveform ensures the thickness readings are correct. Bond Inspection, Phase Reversal, High Temperature Measurements, Foreign object, De-lamination, Excessive wall thinning, Echo to Echo to ignore coatings,, mode converted echoes, lobe skipping and doubling are typical applications where the **COLOR** *Wavеμ* **is the Ideal Solution**.

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.

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.

Please Contact us for more Information:
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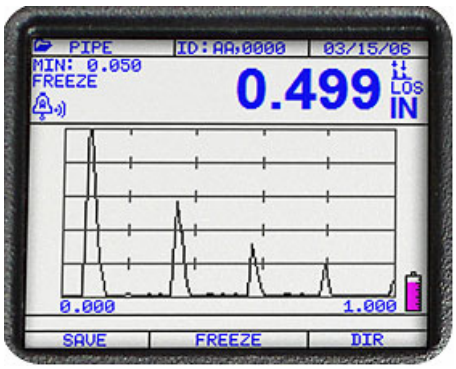

Typical screen shot

Echoes shown in Green, user can select multiple color palettes for A-Scan, Thickness, Background and Alarms.

Standard RF, Full Wave Rectification, Halt +, Half -, RF is ideal for bond inspection applications

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/uS (0.508 - 18.699 mm/uS)

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

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 rightly 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

Gain: Low, Standard and High for varying test conditions

Warranty: Limited 2 year warranty on parts and labor

Danatronics EHC-09 Color *Wave* Version Chart

Item	Specification	EHC-09DL CW	EHC-09 CW	EHC-09 C
Thickness Gage	0.008 - 20 inches (.20 mm - 508 mm)	x	x	x
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	x	x	x
Scan Mode	Displays minimum or maximum thickness value at 20 measurements per second	x	x	x
Differential Mode	Displays the difference from the actual thickness measurement and a user entered reference value	x	x	x
Alarms	Minimum/Maximum depth, vibralarm, beeps and display flashes as well as keypad illumination and vibration	x	x	x
Illuminating Keypad	F1 = Red, F2 = Yellow and F3 = Green for easy, go/no-go testing (Patent Pending)	x	x	x
Automatic Probe Wear Indicator	Automatically informs the operator to replace the transducer (Patent Pending)	x	x	x
Waveform:	Live Color Waveform	x	x	o
Range:	Adjustment of manual range control or auto zoom tracking to center echoes independent of selected range	x	x	-
Gain Adjust:	Variable adjustment of gain	x	x	x
Rectification Modes:	RF, Half Wave Positive, Half Wave Negative and Full Wave Rectification	x	x	-
Echo to Echo	Measures the metal thickness only (ignore paint and coatings)	x	o	o
Non-Encoded B-Scan	Displays a cross section of the test piece	x	o	o
Data Logger Version	50,000 thickness datalogger with ID point in linear or grid files (100 to 5,000 readings per file)	x	o	o

Above: x = Standardly equipped, o = Optional accessory, - = Not available

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