

Performance, Power & Perfection!



CMX & CMX DL SPECIFICATIONS

Physical

Size:

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

Weight: 13.5 ounces (with batteries). **Keyboard:** Membrane switch pad with

twelve tactile keys.

Operating Temperature:
14 to 140F (-10C to 60C)

Case: Extruded aluminum body with nickel-plated aluminum end caps (gasket

sealed).

Data Output: USB-C port. Windows® PC

interface software.

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

Ultrasonic Specifications

Measurement Modes:

Coating Off: Pulse-Echo (P-E)

Coating On: Pulse-Echo Coating (PECT) **Temp Comp:** Pulse-Echo Temperature

Compensation (PETP)

Thru-Paint: Echo-Echo (E-E)

Thru-Paint Verify: Echo-Echo Verify (E-EV)

Coating Only: Coating (CT)

Pulser: Dual square wave pulsers.

Receiver: Dual receivers - manual or AGC gain control with 110dB range (limited).

Timing: Precision TCXO timing with single shot 100 MHz 8 bit ultra low power

digitizer.

Power Source

Line Power: USB to PC or power outlet.

Batteries: Three AA cells.

Alkaline - grayscale 35 hrs, color 12 hrs. Nicad - grayscale 10 hrs, color 5 hrs. NI-MH - grayscale 35hrs, color 12 hrs. Power saving DIM (color), auto off 5

minutes. Battery status icon.

Transducer

Transducer Types:

Dual Element (1 to 10 MHz).

Locking quick disconnect "00" LEMO connectors.

Standard 4 foot cable.

Custom transducers and cable lengths available for special applications.

Measuring

Pulse-Echo Mode (P-E) - (Pit & Flaw Detection) measures from 0.025 to 48.0 inches

(0.63 to 1219.2 millimeters).

Pulse-Echo Coating Mode (PECT) - (Material, Coating, Pit & Flaw Detection); Material: 0.025

to 48.0 inches (0.63 to 1219.2 millimeters). Coating: 0.001 to 0.100 inches (0.01 to 2.54

millimeters).

Pulse-Echo Temp Comp Mode

(PETP) - (Pit & Flaw Detection) Auto temperature compensation - measures from 0.025 to 48.0 inches (0.63 to 1219.2 millimeters).

Echo-Echo Mode (E-E) - (Thru Paint & Coatings) measures from 0.100 to 6.0 inches (2.54 to 152.4 millimeters). Range will vary +/- depending on the coating.

Echo-Echo Verify Mode (E-EV) - (Thru Paint & Coatings) measures from 0.100 to 1.0 inches (2.54 to 102 millimeters). Range will vary +/- depending on the coating.

Coating Only Mode (CT) - (Coating Thickness) Measures from 0.0005 to 0.100 inches (0.0127 to 2.54 millimeters). Range will vary

+/- depending on the coating.

Resolution:

+/- 0.001 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 for material & coating, or selection of basic

material types.

Units:

English & Metric

Display

Large Digits - Standard thickness view. Digit Height: 0.700 inches (17.78 millimeters).

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

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

Repeatability Bar Graph - Bar graph indicates stability of reading.

Feature Status Bar - Indicates features currently active.

Memory (CMX DL)

Log Formats: Grid (Alpha Numeric), or Sequential (Auto Identifier).

Capacity: 4 Gb internal SD card.

Screen Capture: Bitmap graphic capture for quick documentation (.tif).

OBSTRUCT to indicate inaccessible locations.

Connections

Output: Direct USB-C 1.1 PC connectivity.

Transducer Connectors: Two LEMO 00

connectors.

Certification

Factory calibration traceable to NIST & MIL-

STD-45662A.

Warranty
2 year limited

(Eapproved

