



Specifications

- **Display:**
 - Type: 7" High Brightness LCD
 - Brightness: 1000 nits, adjustable from 0% to 100%
 - Update Rate: 60 Hz
- **Measurement Range:**
 - Range: 2 to 15,000 mm, in 0.1 mm steps
 - Velocity: 250 to 16,000 m/s, in 1 m/s steps
 - Zero Offset: 0 to 1000 μ s, in 0.01 μ s steps
 - Display Delay: -60 to 15,000 mm, in 0.1 mm steps
- **Units:**
 - Millimeters, Inches, μ s, %
- **Rectification:**
 - Full wave, Positive half-wave, Negative half-wave
- **Horizontal Grid:**
 - 100% or 110%
- **Reject:**
 - 0% to 99% FSH with visual indication
- **Skip Distance:**
 - Visual indications based on thickness and angle
- **A-Scan:**
 - Active freeze, Freeze
- **Real-Time Clock:**
 - Date and time for saved records
- **Data Acquisition:**
 - Digitizing Frequency: 100 MHz
 - Data Storage: 32 GB SD card
 - Single A-Scan Storage: > 6 million A-Scans
 - Report Generation: On-board PDF report with custom logo, PNG A-Scan

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Continuous A-Scan Recording: Onboard file generation, > 200 hours
- Calibration Sets: 10,000 cal-sets
- Data Export: SD card, USB flash drive, PC connection
- **Receiver:**
 - Dynamic Range: 0 to 120 dB, in 0.1 dB steps
 - Bandwidth: 0.5 to 20 MHz wide band amplifier
 - Digital Filter Settings: 0 to 20 MHz, in 0.1 MHz steps
 - Enhance Mode: Off, Low, Mid, High
- **System Linearity:**
 - Horizontal: $\pm 1\%$ FSW
 - Vertical: $\pm 2\%$ FSH
- **Gates:**
 - Measurement Gates: 3 gates + 1 interface gate*
 - Measurement Mode: Max peak, Flank, j-Flank, First peak, Zero crossing
 - Start: 0 to 20,000 mm, in 0.1 mm steps
 - Width: 0 to 20,000 mm, in 0.1 mm steps
 - Threshold: 0% to 100%, in 0.1% steps
 - ToF Resolution: Selectable 1/0.1/0.01 mm
- **Alarms:**
 - Positive and Negative Threshold, Wall Thickness
 - Alarm Indication: Audio and visual indicators with vibration
 - Gate Width Zoom: For gates 1, 2, 3
 - Amplitude Measurement: 0% to 110% FSH, with 0.1% resolution
 - Measurement Rate: Equivalent to PRF
- **Automated Calibration:**
 - Velocity, Zero Offset
 - Straight Beam (First back wall or Echo-to-Echo)
 - Angle Beam (Sound path or Depth)
- **Pulser Types:**
 - Square wave
 - Spike
 - PRF: 10 to 2000 Hz, in 1 Hz steps
 - Voltage: 50V-450V, in 25V steps
 - Pulse Width: 0.5-20 MHz, in 0.1 MHz steps
 - Pulser Damping: 500, 400 Ω
 - Impulse Mode: 0 to 7
- **Test Modes:**
 - Pulse Echo
 - Dual
 - Through Transmission

Instrument

- **Inputs/Outputs:**
 - USB Ports: USB C (charging, storage access), USB A (flash drive)
 - Transducer Connections: LEMO 00
 - SD Card: 32 GB
- **Environmental Ratings:**

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- IP Rating: IP 65
- Operating Temperature: -10°C to 55°C
- Storage Temperature: -20°C to 60°C
- Battery Recharge Temperature: 0°C to 40°C
- **Measurements:**
 - Measurement Display Locations: 12 user-defined blocks
 - Trigonometric: Beam path, Flaw depth, Surface distance, Min/Max depth, Gate2-Gate1
 - Threshold: Echo height in %, Attenuation in dB, Min/Max threshold
 - Trigger: Initial pulse IF gate
 - Job Thickness: 0.1 to 999.9 mm, in 0.1 mm steps
 - Refracted Angle: 0° to 90°, in 0.1° steps
- **DAC (Distance Amplitude Correction):**
 - Point-point and parabolic curve
 - 2 additional curves with ±20 dB offset
 - Up to 15-point curve
- **TCG (Time Corrected Gain):**
 - 15 points, 18 dB/10 ns slope
- **Curved Surface Correction:**
 - Tube, Bar
 - AWS D1.1/D1.5
- **Construction:**
 - Compact, Rugged Moulded ABS, Soft Touch
- **Operation:**
 - 5 Button Navigation Keypad + 1 Gain Key
 - Ambidextrous Operation
- **Battery:**
 - Type: Single rechargeable inbuilt lithium-ion 7.4V 40W
 - Life: Up to 8 hrs
 - Power Requirements: USB C fast charger, 100-240 VAC, 50-60 Hz, 1.5 A
- **Warranty:**
 - 1-year Standard

Accessories

- **USB C 30W Fast Charger**
- **32 GB SD Card**
- **Instrument Carry Case**
- **IIW System Evaluation Block:** Nickel Plated
- **IIW Miniature Angle Beam Calibration Block:** Nickel Plated
- **Connector Cable:** Mini Lemo to Mini Lemo, 2 meters
- **Miniature Angle Probe:** 9 x 8 mm, 60°/4 MHz
- **Miniature Normal Probe:** 4 MHz/10 mm with replaceable protective membrane
- **Extra Battery:** Yes

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