

Digital Ultrasonic Flaw Detector LD-LUFC- A10

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Overview

Digital Ultrasonic Flaw Detector LD-LUFC-A10 is a high-performance, compact inspection tool designed for precise and efficient flaw detection in critical applications. Featuring automated calibration and gain adjustment for fast setup and consistent accuracy, this device utilizes high-speed signal capture and ultra-low noise ensuring precise flaw detection. Equipped with DAC, AVG, TCG, B-scan, and AWS modes, this device offers high-contrast waveform viewing even in bright environments.

Features:

- Automatically identifies and displays precise flaw locations, including depth (d), level (p), distance (s), amplitude, size in dB (sz), and angle (?)
- Automated switching between three staff gauges: Depth (d), Level (p), Distance (s)
- Automatic calibration for Zero-point, Front edge, Angles, and Material velocity
- Display freeze function for analysis and automated echo degree measurement
- Stores 1000 A-scan waveforms and supports up to 500 independent setups with customizable criteria, eliminating need for test blocks
- Built-in 6 dB DAC function
- Provides real-time date and time stamping for records
- Peak Hold and Peak Memory for waveform comparison
- Automatically records and plays back test processes with unlimited video length via USB storage
- Features electronic clock and calendar for timestamped tracking and lock/unlock function for parameter safety
- Includes Gate and DAC alarms for real-time alerting
- Meets AWS D1.1 standards for structural welding inspections
- Equipped with a lithium battery supporting up to 10 hours continuous operation

Applications:

Digital ultrasonic flaw detector is used for detecting internal defects like cracks, voids, and corrosion in welds, metals, and composites. Commonly used across sectors such as oil & gas, power, manufacturing, construction, aerospace, railways, automotive, and R&D.

Specifications:

Gain	0 ~ 120 dB
Zero	0.0 ~ 99.99 ?s
Reject	0~80%
Weight	1.0 kg (With battery)
Port Type	BNC (Q9)
Dynamic range	? 32dB
Frequency Range	0.5 ~ 15 MHz

Measuring Range	0 ~ 10000 mm
Resolving Power	? 36dB
Measurement Mode	Single, Dual, Thru
Material Velocity	1000 ~ 15000 m/s
Pulse Displacement	-20 ~ +3400 ?s
Dimension W× D x H	156 x 48 x 240 mm
Sensitivity Leavings	? 62dB
Operating Temperature	-20 ~ 50 ?
Vertical Linearity Error	? 3%
Horizontal Linearity Error	? 0.1%