

# **Digital Ultrasonic Flaw Detector LD-LUFC- A10**

**Labodam Equipment Ltd.**

**[info@labodam.com](mailto:info@labodam.com) | [www.labodam.com](http://www.labodam.com)**

# Digital Ultrasonic Flaw Detector LD-LUFC-A10

## 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:

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

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