



## Ultra-high precision small laser diameter gauge

The high-end products in our company's product line incorporate the latest technologies and R&D concepts in the international industry. They feature an outstanding precision of  $\pm 0.5\mu\text{m}$ , a sampling rate of thousands of times per second, an extremely compact size, and stable performance. The control section adopts the latest high-definition touch interface, and the menu-based interactive interface significantly enhances efficiency and ease of use.

### Product Features

01. Compact in size, non-contact laser measurement for product diameter and out-of-roundness, fast measurement speed, ultra-high precision, and excellent repeatability.

02. The outer diameter of the product is displayed and controlled in real time during the production process. The bidirectional diameter gauge is equipped with an ellipticity measurement function, which enhances quality control and production efficiency and saves raw materials.

03. Multiple digital and analog control signal functions enable full automation of production.

04. It features nominal value, upper and lower deviation, preset alarm control functions, and is easy to operate.

05. The standard data interface can be connected to a computer, and the open communication protocol facilitates the development of software for data analysis.

06. Equipped with self-developed touch screen display, it is convenient to operate.

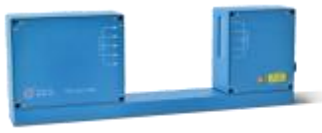
Type	Single axis		Dual axis
Scanner head	LDM-1025S	LDM-1050S	LDM-2025
Controller	DDC-7202	DDC-7202	DDC-7202
Measurement range	0.1-20mm	0.1-45mm	0.1-20mm
Minimum target width (diameter)	0.1mm	0.1mm	0.1mm
Light source	visual Red semi-conductorlaser 660nm		
Measurement accuracy *	±0.5um	±1um	±0.5um
Repeatability **	0.15um	0.15um	0.15um
Sampling rate	1400 times per second		800 times per second
Laser scanning speed	82m/s	82m/s	82m/s
Ambient temperature	-10~50C	-10~50C	-10~50C
Relative humidity	35%~85%	35%~85%	35%~85%
weight	1.8KG	3.8KG	4.2KG
Overall dimensions	295x96x45mm	405x 140x60mm	251 X212 x 60mm
Monitor	4.3-inch touch color display screen		
Display unit is selectable	mm,m or inch		
Adjustable display resolution	0.00001mm-0.1mm	0.00001inch-0.01 inch	
Over-limit alarm relay output	Two groups of NO or NC contacts		
Analog output	Error output      PID regulated output voltage: 0V to +10V Current: ±10mA (Can be used for feedback control of production line speed)		
Communication interface	Serial communication RS485, Ethernet RJ45 10M/100M		
Output interface	2-channel photoelectric isolation output		
Controller dimensions	190x86x270mm		
Opening size	164x82mm		
Panel installation screw hole size	180x66mm		
Functional Features	1. It can be connected to 2 single-axis laser diameter gauges or 2 dual-axis laser diameter gauges or 2 laser CCD diameter gauges.  2. Rich display functions: It can display multi-axis measurement values, error values, etc. according to parameter settings.		

\*+0.008%×测量值      \*\*±3σ, 1秒



**LDM-1025S**

High-precision laser diameter gauge



**LDM-1050S**

High-precision laser diameter gauge



**LDM-2025**

High-precision laser diameter gauge

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