

## Detection of ultrafine filaments

The LDM10E is a high-precision measurement and control device that uses laser scanning technology for non-contact online measurement. The CDM03UT is a high-precision measurement and control device that uses CCD imaging technology for non-contact online measurement. They are mainly applied in the online and laboratory detection of the outer diameter of various fine wires. With high-speed scanning and precise measurement of the outer diameter of fine wires, they feature excellent reliability and long-term operation. They are suitable for metal wires, optical fibers, textile threads, etc.

### **Product Features**

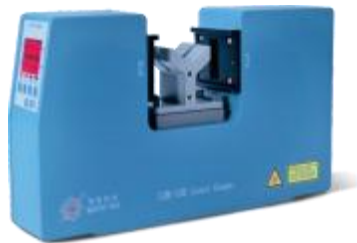
01. Compact in size, light in weight, reliable and stable in performance, and economically priced.
02. Non-contact measurement, fast measurement speed, high accuracy, and easy maintenance.
03. Equipped with a touchscreen display, featuring nominal values, upper and lower deviations, and preset values for alarm control. Easy to operate.
04. It can be connected to PLC, industrial control computers, dedicated controllers, computers, etc. Additionally, it can be equipped with data storage and analysis functions to facilitate quality control.
05. A V-shaped groove can be added for convenient placement of workpieces, making it easy to use.

Model	CDM-03UT	LDM-10E	CDM-03XY
Beam range	3mm	10mm	3mm
Suggested measurement range	0.02-1mm	0.02-5mm	0.02-1mm
Measurement accuracy*	±0.0005mm	±0.0005mm	±0.001mm
Overall dimensions	246*85*42mm	300*180*70mm	197*42*220mm
Units of measurement	mm	mm	mm
Repeatability**	0.3um	0.3um	0.3um
Working voltage	~220V±15%, 50-60HZ		
Operating temperature	-10—40℃		
Working humidity	<85%RH		
Digital interface of the measuring head	Standard RS485		
Communication protocol support	Modbus/profibus (optional),Modbus TCP		
Pre-fabricated function	Nominal value setting, upper deviation setting, lower deviation setting, over-deviation alarm setting		
Measurement of transparent objects	Optional	Optional	Optional
Measurement head setup	None	Yes	None
	Control output		
Serial port output	RS485		
Analog output	0-10V DC output		
Relay output	2 groups (upper difference and lower difference output)		
*+0.008%x测量值      **±3σ, 1秒			



**CDM-03UT**

Detection of ultrafine filaments



**LDM-10E**

Detection of ultrafine filaments



**CDM-03XY**

Detection of ultrafine filaments

Contact us.

E-mail: [shuhong@cnmeasure.com](mailto:shuhong@cnmeasure.com)  
[cnmeasuring@gmail.com](mailto:cnmeasuring@gmail.com)

Phone: +86-135 9803 3248

WhatsApp number: +86-135 9803 3248

WeChat number: +86-135 9803 3248

Skype: cnmeasure

Website: [www.cnmeasure.com](http://www.cnmeasure.com)

[www.laserdiametergauge.com](http://www.laserdiametergauge.com)

Address: NO.36 Hongsong Road, High-tech Zone, Zhengzhou, China.

Company: Zhengzhou Mercury-tech Co.,Ltd.



Scan the code with WeChat  
to add as a friend.



Scan the code with WhatsApp  
to add as a contact.