



For measuring a broad range of targets with amazing precision.
The LDM71 is a powerful all-rounder.

Technical specifications	LDM71 series
Measurement capabilities	
Total range	From 0.2 m to 270 m
Typical range on target board ¹	From 0.5 m to 270 m
Typical range on natural surface, 80% reflectivity ²	From 0.2 m to 125 m
Typical range on natural surface, 10% reflectivity ²	From 0.2 m to 70 m
Accuracy ³	± 60 mm (single measurement, 1 σ)
Repeatability ⁴	± 25 mm (single measurement, 1 σ)
Measured value resolution	1 mm (decimal output \leq 15 kHz)
Measurement frequency, max.	40 kHz
Laser	
Wavelength	905 nm (invisible, near-infrared)
Divergence	2 mrad \times 0.4 mrad
Class	Laser Class 1, EN 60825-1:2014
Connectivity and I/O options	
Interface options	RS-232, RS-422
Switching output	2 \times "high side"
Analog output	From 4 mA to 20 mA
Trigger	1 \times in/out
Measurement operation modes	Single measurement, continuous measurement
Connectors	12-pole M12 (Binder 713 series)
Display / Controls	n/a
Power	
Power supply	From 10 V DC to 30 V DC
Power consumption, max.	3 W
Ambient conditions	
Operating temperature	From -20°C to +60°C
Storage temperature	From -40°C to +70°C
Humidity	From 10% to 90%, non-condensing
Integrated heating	Yes
Standards	
Shock / Vibration	DIN ISO 9022-3
Protection class	IP67
EMC	EN 61326-1
Physical	
Dimensions (L \times W \times H, incl. connectors)	98 mm \times 46 mm \times 25 mm
Weight	Approx. 140 g

¹ Measurement range for special targets, e.g. Scotchlite Cube.

² Measurement range for naturally diffuse reflecting surfaces, depending on target reflectivity, stray light, and environmental conditions.

³ Accuracy in the range \leq 1 m and in the range \geq 70 m is \pm 100 mm.

⁴ Repeatability in the range \leq 1 m and in the range \geq 70 m is \pm 50 mm.

