



LDM Product Line
Eyesafe laser rangefinders

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LDM Product Line

Optical data			
Laser rangefinder	LDM 38	LDM 38-461	LDM 43
Laser type	OPO shifted Nd:YAG	OPO shifted Nd:YAG	OPO shifted Nd:YAG
Wavelength	1572 nm	1572 nm	1572 nm
Measuring rate	1 Hz continuous, 3 Hz burst	1 Hz continuous, 3 Hz burst	1 Hz continuous, 3 Hz burst
Safety class	Class 1 (eyesafe)	Class 1 (eyesafe)	Class 1 (eyesafe)
Range resolution	5 m (1 m optional)	5 m (1 m optional)	5 m (1 m optional)
Range accuracy	±5 m	±5 m	±5 m
Measuring range	50 m - 20,000 m (40,000 m optional)	50 m - 20,000 m (40,000 m optional)	50 m - 40,000 m
Multiple target resolution	≤20 m	≤20 m	≤20 m
Features	First echo/ last echo/ range gate	First echo/ last echo/ range gate	First echo/ last echo/ range gate
Extinction	38 dB	38 dB	43 dB
Boresight collimator (dot)	660 nm	660 nm	660 nm
Electrical data			
Power supply	18 - 32 V DC	18 - 32 V DC	18 - 32 V DC
Interface	RS-422, RS-485 or CAN open	RS-422, RS-485 or CAN open	RS-422, RS-485 or CAN open
Mechanical data			
Dimensions (W x H x L)	114 x 73 x 123 mm	114 x 73 x 153 mm	114 x 73 x 123 mm
Weight	1.5 kg	1.8 kg	1.5 kg
Ambient conditions			
Temperature	-35°C to +63°C	-35°C to +63°C	-35°C to +63°C
Environmental test	MIL-STD-810	MIL-STD-810	MIL-STD-810
EMI/EMC Test	-	MIL-STD-461/462	-
Power supply	-	RTCA DO-160 MIL-STD-704 MIL-STD-1275	-

Optical data		
Laser rangefinder	LDM 43-461	LDM 46
Laser type	OPO shifted Nd:YAG	OPO shifted Nd:YAG
Wavelength	1572 nm	1572 nm
Measuring rate	1 Hz continuous, 3 Hz burst	1 Hz continuous, 3 Hz burst
Safety class	Class 1 (eyesafe)	Class 1 (eyesafe)
Range resolution	5 m (1 m optional)	5 m (1 m optional)
Range accuracy	±5 m	±5 m
Measuring range	50 m - 40,000 m (40,000 m optional)	50 m - 40,000 m (40,000 m optional)
Multiple target resolution	≤20 m	≤20 m
Features	First echo/ last echo/ range gate	First echo/ last echo/ range gate
Extinction	43 dB	46 dB
Boresight collimator (dot)	660 nm	660 nm
Electrical data		
Power supply	18 - 32 V DC	18 - 32 V DC
Interface	RS-422, RS-485 or CAN open	RS-422, RS-485 or CAN open
Mechanical data		
Dimensions (W x H x L)	114 x 73 x 153 mm	114 x 73 x 123 mm
Weight	1.8 kg	1.5 kg
Ambient conditions		
Temperature	-35°C to +63°C	-35°C to +63°C
Environmental test	MIL-STD-810	MIL-STD-810
EMI/EMC Test	MIL-STD-461/462	-
Power supply	RTCA DO-160 MIL-STD-704 MIL-STD-1275	-

Accessories

- Bore sight camera
- Alignment tool
- Evaluation kit