MDR-4

Target Designator and Rangefinder

The MDR-4 is a lightweight, mini Designator and Rangefinder, ideal for compact observation systems for airborne, maritime and land based optronic applications.

The MDR-4 offers simultaneous laser designator and laser rangefinder functions operating at 1064nm and an eyesafe rangefinder function operating at 1572nm. Communication with the MDR is established by means of a RS232/RS422 interface which forms the operational, status and maintenance interface with the MDR-4.

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Functional data	
Non-Eyesafe Transmitter	
Laser Type	NdYAG
Wavelength	1.064 µm
Pulse Energy	50mJ
Measuring rate	8Hz-22Hz
Firing Control	Externally slaved/Internally coded
Beam Divergence	0.4mrad
Laser Class (according to IEC 60825-1 Ed 1.2 of 2007-03)	Class 4
Eyesafe Transmitter	
Laser Type	OPO shifted NdYAG
Wavelength	1.57 µm
Measuring rate	1-22Hz
Nominal Ocular Hazard Distance (NOHD)	90m
Extended Nominal Ocular Hazard Distance (ENOHD)	1000m
Range Performance	
Range Performance Extended Target	22.3km (Non-eyesafe) 17.7km (Eyesafe)
Range Performance 4.6m x 2.3m Target	17.4km (Non-eyesafe) 10.6km (Eyesafe)
Range Performance 0.5m x 1.7m Target	10.8km (Non-eyesafe) 6.1km (Eyesafe)
Accuracy	±3m (1σ)
Range limits	250m to 20 000m
Resolution	1m
Multiple target discrimination	50m
Multiple target Range Logic	First, Second and last target
Mechanical Interface	
Weight	<1.25kg
Dimensions (L x W x H)mm	152 x 68 x 79mm
Electrical Interface	
Power	16-33 VDC
Data Interface	RS422, RS232
Power Consumption	Standby: ≤ 5W Average: ≤ 40W @ 22Hz Peak Current: ≤ 4.8A
Environmental Conditions	
Operating Temp	- 40°C to + 65°C

Specifications are subject to change. Equipment supplied is in compliance with EN9100 (2009), AS9100, SACAA Design (Part 147) and Manufacturing (Part 148)

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Detect and Protect.

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