

# HENSOLDT LP19D-6

## Eye-safe laser rangefinder

**The LP19D-6 is an open frame, lightweight, eye-safe, high performance, accurate laser rangefinder utilizing diode pumped Er-Glass technology, providing exceptional reliability in extreme operating conditions and low cost of ownership.**

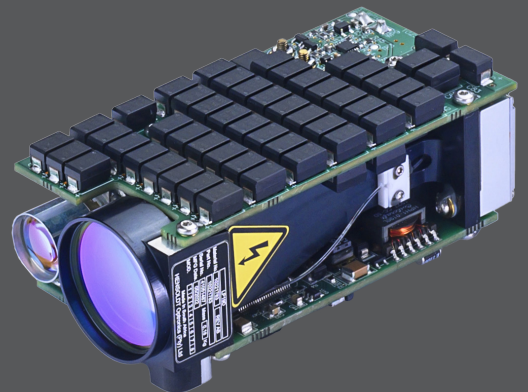
It provides laser range finding capability up to 15 km, accurate within 3 meters, while operating at an eye-safe wavelength of 1535 nm.

The LP19D-6 provides a differential fire indicate logic signal coincident with the laser emission for the purposes of external synchronization.

It is designed to be used in conjunction with a higher-level observation system.

### Applications

- Airborne observation systems
- Border surveillance
- Maritime surveillance systems
- Vehicle mounted reconnaissance systems
- Land based surveillance systems
- UAVs

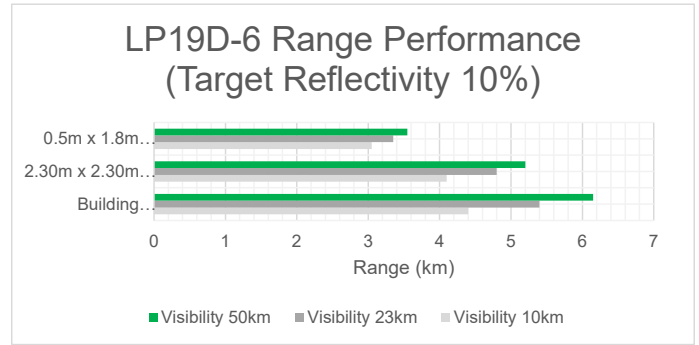
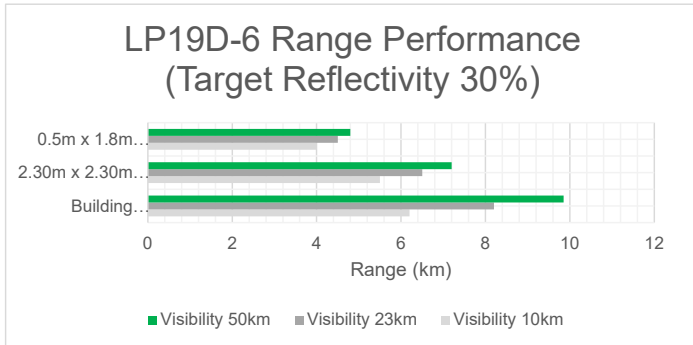


# LP19D-6

The LP19D-6 is a self-contained unit consisting of the laser transmitter, a laser receiver as well as the power and control electronics needed to operate the LRF. Target ranges are determined by accurate measurement of the time of flight of a single laser pulse to the target and back. This technology provides superior performance in challenging atmospheric conditions.

Communication with the LRF is established by means of either RS232 or RS422 interface which forms the LP19D-6's operational, status and maintenance functions.

The LP19D-6 is not subjected to any EU or USA export controls.



## Key specifications<sup>1</sup>

<b>Range performance</b>	LRF extinction (TPG disabled) (to an extended target @ 500 m with a reflection of at least 85%)	32 dB		
	Measurement rate	Up to 3 Hz 100% Duty Cycle / 6 Hz 30 seconds 50% Duty Cycle		
	Range resolution	1 m		
	Ranging accuracy	±2 m 1000 m - 3000 m (1 $\sigma$ ) / ±5 m 30 m - 15000 m (1 $\sigma$ )		
	Measurement range limits	30 m - 15 000 m		
	False alarm rate	≤ 1%		
	Range logic	First, second and last target		
	Multiple target resolution	Separated by at least 30 m		
	<b>General</b>	Laser wavelength	1535 nm	
Laser safety		Class 1		
Communications interface		RS 232 and RS422		
Mass		195 g		
Size (l x w x h)		87 mm x 44 mm x 35 mm		
Operational voltage		5 - 33 VDC up to 3 Hz / 8 - 33 VDC above 3 Hz		
Power consumption		Standby mode	< 1 W	
		Low Power mode	< 0.15 W @5 V	
		Average power consumption firing	< 10 W (maximum firing rate)	
Laser beam alignment	≤ 5 mrad wrt mechanical interface			
<b>Environment</b>	Storage temperature	-40°C to +70°C <sup>2</sup>		
	Operating temperature	-40°C to +70°C		
	Vibration	Random vibration to the following profile:		
		10 Hz - 300 Hz	0.02 g <sup>2</sup> /Hz	
		300 Hz - 2000 Hz	0.02 - 0.002 g <sup>2</sup> /Hz	
	Shock	40 g, 10 ms - 20 ms, Halfsine		
	EMC	MIL-STD-461F <sup>3</sup>		

- Notes:
- 1 Subject to change without notice
  - 2 Due to the open-frame configuration of the LP19D-6, it should be used and stored in a dry, non-condensing atmosphere.
  - 3 Due to the size and open-frame configuration of the LP19D-6, it offers no shielding against radiated emissions or radiated susceptibility and limited protection against conducted emissions and conducted susceptibility. Measured data can be made available upon request.