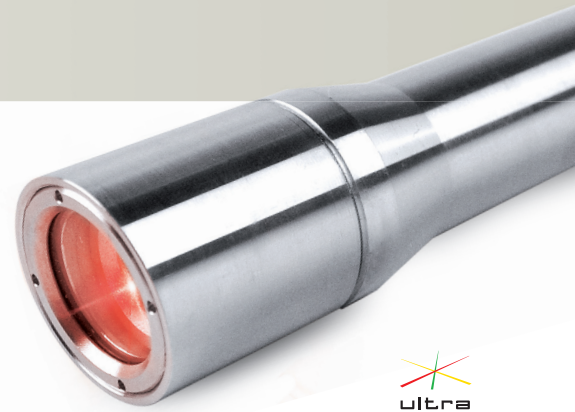
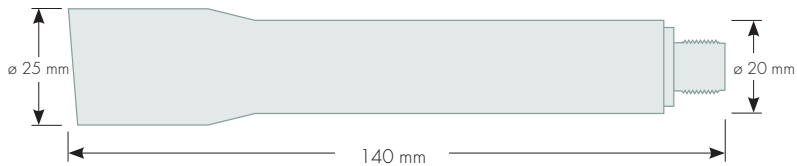


# DATA SHEET HD LASER



## PERFORMANCE

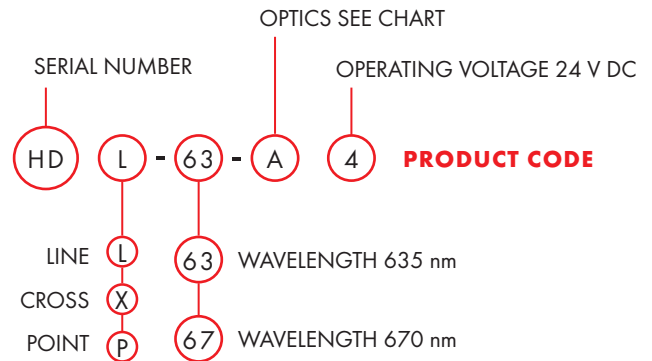
- Focusable
- Point, Line, Cross
- "Heavy Duty", extremely robust
- Protected from voltage variations

## TECHNICAL DATA

Laser type/Laser colour	diode/red
Wavelength	635 nm (optional 670 nm)
Output power	1 ... 30 mW
Divergence	0.5 mrad
Focus adjustment	manually, without tools
Operating Voltage AC/DC	12 ... 30 V DC/15 ... 30 V AC
Power consumptions	< 200 mA
Enclosure rating	IP 67
Dimensions/Weight	L: 140 mm × ø 25 mm (front); 20 mm (back)/ 220 g
Power connector	M12, 4-core
Application conditions	-10 ... +40 °C, 35 ... 90 % rel. humidity, non condensing
MTTF	> 30.000 h at 25 °C

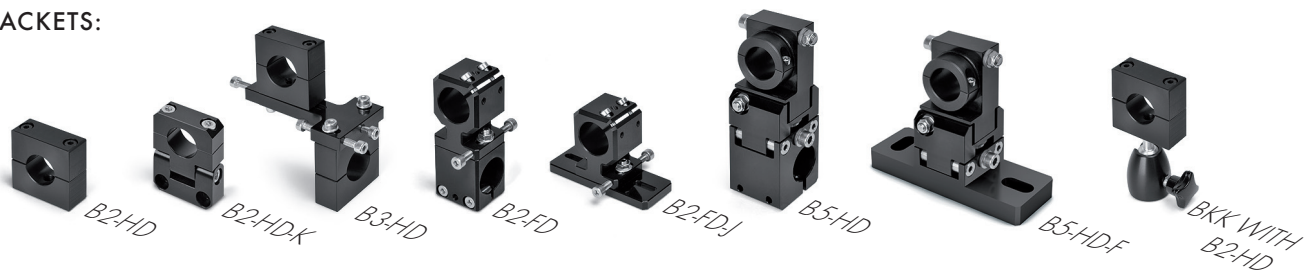
## OPTICS

Type	Beam type	Opening angle
A	Line	80°
B	Line	30°
C	Line	20°
D	Line	10°
E	Line	40°
K	Cross	38°
L	Cross	62°
P	Point	



## ACCESSORIES:

### BRACKETS:



### POWER SUPPLY:



### CONNECTOR:



## LINE LASERS

Models	Output power	Line length* Optic 80° (A)	Laser class 80° (A)	40° (E)	30° (B)	20° (C)	10° (D)
LAP 1 HDL	1 mW	up to 1 m	1	1	1	1	1
LAP 3 HDL	3 mW	up to 2 m	1	1	2	2	2
LAP 5 HDL	5 mW	up to 4 m	1	2	2	2	2
LAP 10 HDL	10 mW	up to 6 m	2	2M	2M	2M	2M
LAP 15 HDL	15 mW	up to 10 m	2	2M	2M	2M	2M
LAP 30 HDL	30 mW	up to 20 m	2M	3R	3R	2M	3R

## CROSSHAIR LASERS

Models	Output power	Line length* / ** Optic 38° (K)/62° (L)	Laser class 38° (K)	62° (L)
LAP 1 HDX	1 mW	60 cm/90 cm	1	1
LAP 3 HDX	3 mW	60 cm/90 cm	1	1
LAP 5 HDX	5 mW	60 cm/90 cm	1	2
LAP 10 HDX	10 mW	60 cm/90 cm	2	2M
LAP 15 HDX	15 mW	60 cm/90 cm	2	2M
LAP 30 HDX	30 mW	60 cm/90 cm	2M	2M

## POINT LASERS

Models	Output power	Laser class
LAP 1 HDP	1 mW	2
LAP 3 HDP	3 mW	3R
LAP 5 HDP	5 mW	3R
LAP 10 HDP	10 mW	3B
LAP 15 HDP	15 mW	3B
LAP 30 HDP	30 mW	3B

\*standard optics, line length depends on ambient light, height above surface, angle

\*\*in 1 m distance

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