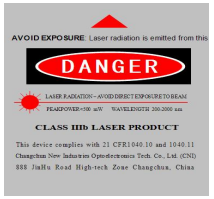
MDL-XS-447/1-80mW

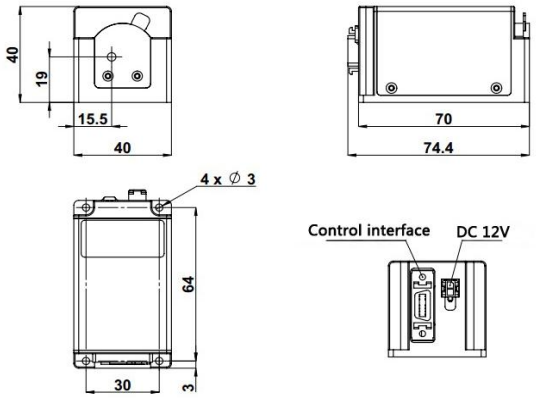
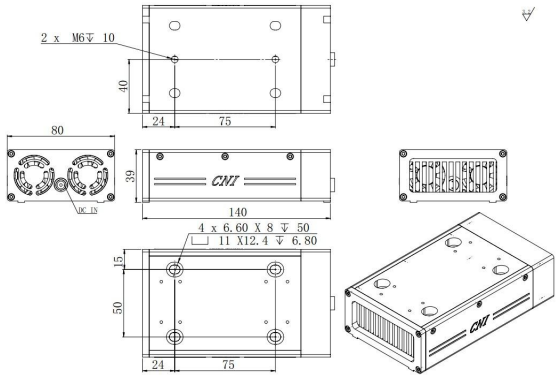
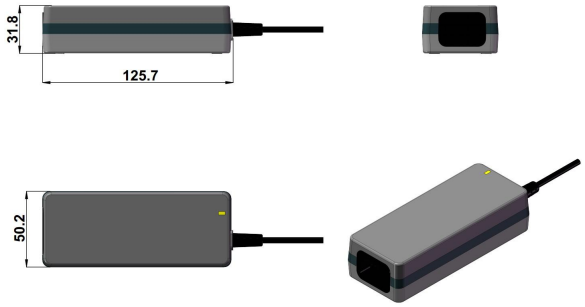
DIODE XS SERIES LASER AT 447nm

It features integrated electronics, plug and play, miniaturization, international standard interface. They are the ideal solution for a wide range of applications including life sciences, environmental monitoring, inspection and machine vision.

SPECIFICATIONS

Central wavelength (nm)	447±5
Operating mode	CW
Output power (mW)[1]	1-80
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%
Transverse mode	Near TEM_{00}
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%
M^2	<1.2
Beam diameter at the aperture ($1/e^2$,mm)	~1.2
Beam divergence, full angle (mrad)	<1.0
Polarization ratio	>50:1, (>100:1 optional) Horizontal±5 degree (Vertical optional)
Warm-up time (minutes)	<5
Beam height from base plate (mm)	19
Operating temperature (℃)	10-35
Operating voltage (VDC)	12V/4A
Modulation option	DMOD (TTL) DC-1MHz AMOD (Analog) DC-100kHz DMOD+ AMOD (TTL + Analog)
Expected lifetime (hours)	>10000



LASER HEAD (DRIVER Integrated)[2]	HEATSINK (TC-05) optional	POWER SUPPLY (100-240VAC) optional
		
74.4 (L) ×40 (W) ×40 (H) mm³, 0.2kg	140 (L) ×80 (W) ×39 (H) mm³, 0.7kg	125.7 (L) ×50.2 (W) ×31.8 (H) mm³, 0.3kg

1 Any power level can be selected in this range.

2 The laser head needs to be used on a heat sink with good heat dissipation. Fixed output power; RS232 control optional.

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