MDL-XS-375/1-50mW



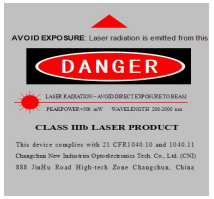
DIODE XS SERIES LASER AT 375nm

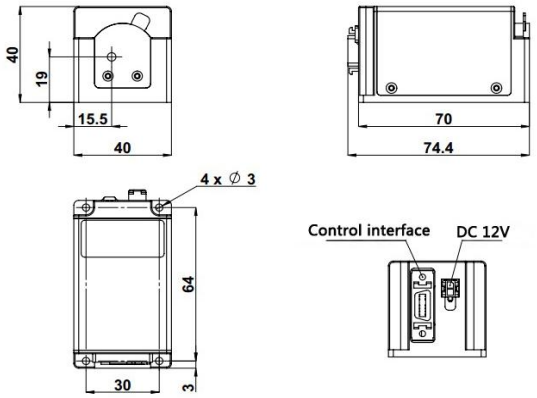
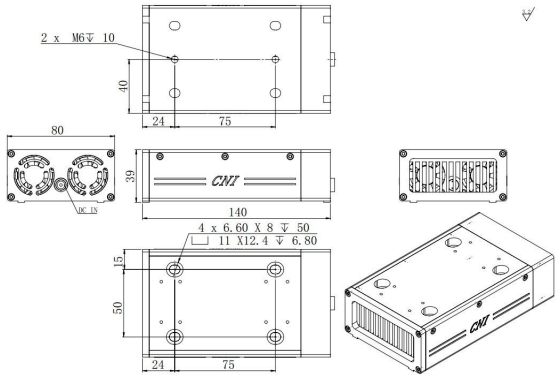
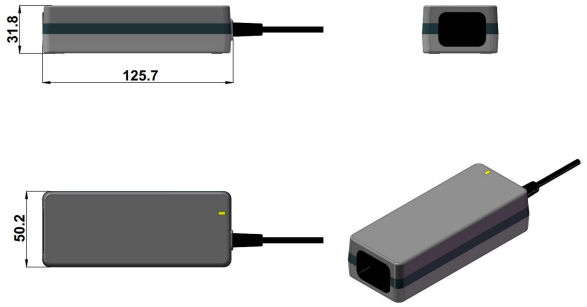
It features integrated electronics, plug and play, miniaturization, international standard interface. They are the ideal solution for a wide range of applications including life sciences, environmental monitoring, inspection and machine vision.

SPECIFICATIONS

Central wavelength (nm)	375±5
Operating mode	CW
Output power (mW)[1]	1-50
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	<1.5
Beam diameter at the aperture ($1/e^2$,mm)	~1.2
Beam divergence, full angle (mrad)	<1.0
Polarization ratio	>10:1, (>50:1 optional) Horizontal±5 degree (Vertical optional)
Warm-up time (minutes)	<5
Beam height from base plate (mm)	19
Operating temperature (°C)	10-35
Operating voltage (VDC)	12V/3.34A
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.