



Versatile

Ready-to-use

Efficient

IP5X

CE

dLmONE

Universal Diode Laser Module

INTRODUCTION

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PART NUMBERING

STANDARD VERSION

DLM-ONE	- XX	- ZZZ
	Power (mW)	Wavelength (nm)
	1	520
	5	635, 650, 660, 670, 685
	10	785, 808
	...	850, 905, 980
	Up to 200*	

(*) depends on the wavelength, refer to the table in the optical specifications

GENERAL SPECIFICATIONS



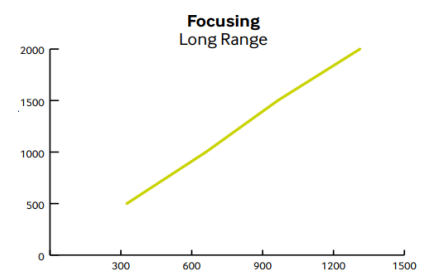
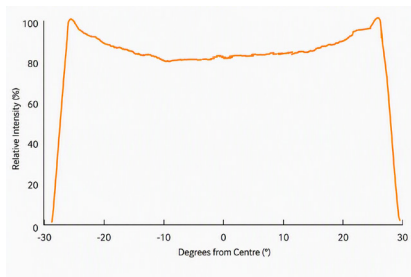
Illumination Mode	Continuous or synchronized with TTL trigger
Wavelengths	Green (520nm), Red (635nm to 685nm), IR (785nm to 980nm)
Adjustable focus	Yes
Input current	see the corresponding table (page 4)
Connector(s)	M12 - 4 pins
Weight	50g
Dimensions	Ø19 x 73.5
Operation environment	Temperature: -20°C to 50°C - Humidity: 20 to 85%RH (with no condensation) - Altitude: Up to 2000m
Storage environment	Temperature: -10° to 80°C - Humidity: 20 to 85%RH (with no condensation)
Informations	Overvoltage category I - Protective class III - Pollution degree 3
Regulations & Marking	CE - UKCA
Environmental Standards	RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation
Country of Origin	UK

OPTICAL SPECIFICATIONS

AVAILABLE POWER DEPENDING ON THE WAVELENGTH

	Power available (mW)														
	1	5	10	15	20	30	35	50	60	75	80	90	100	200	
520			X					X			X				
635	X	X	X	X			X		X						
650	X	X	X												
660					X		X	X							
670	X	X	X												
685					X			X							
785		X			X		X	X		X		X			
808														X	
850		X				X		X					X		
905			X												
980								X						X	

UNIFORMITY AND PATTERN SIZE



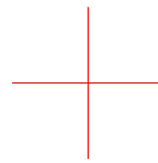
MASK AND PATTERN PROJECTION



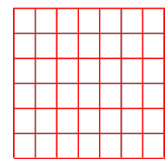
Random patterns



Single lines
(continuous or dots)



Cross



Grid



Circles



Viewfinders



Multiple lines



Dot array

N.B :

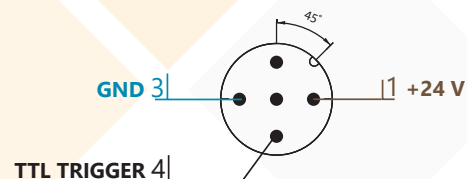
- Other patterns can be designed on demand.
- Colors are indicatives for the examples but can be adapted. However, one mask can only be used for one given wavelength.

ELECTRONICAL SPECIFICATIONS

GENERAL SPECIFICATIONS & CONTACT ARRANGEMENT

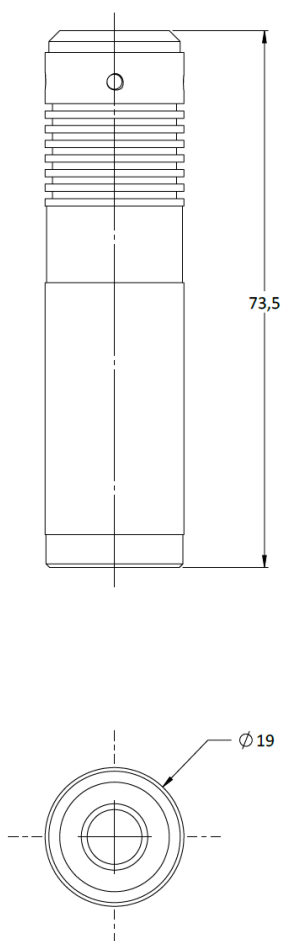
Operating current	< 200 mA
Max frequency	357 kHz
Rise time	$\leq 2 \mu\text{s}$
TTL ON / OFF	TTL OFF : 0-5V / TTL ON : >5V

M12 5pins - male connector



All the products of the DLM range are supplied with a 24V DC constant voltage.

MECHANICAL SPECIFICATIONS (DIMENSIONS IN MM)



Please refer to the specific documentation (datasheet, user manual and drawing) for complementary information. Contents of this document are based on information available as of Septembre -2026 and may be changed without prior notice.



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