

450nm1.6W Laser Module

Specification of JCP45160Z-002

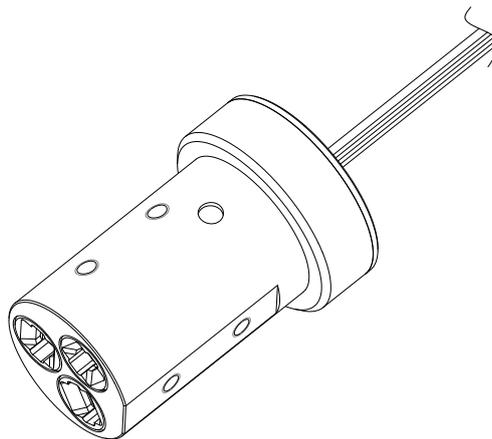
Features:

- Power: 1.6W
- Blue Laser: 450-460nm
- Working Voltage: 12V

Application

- 3D Machine Vision

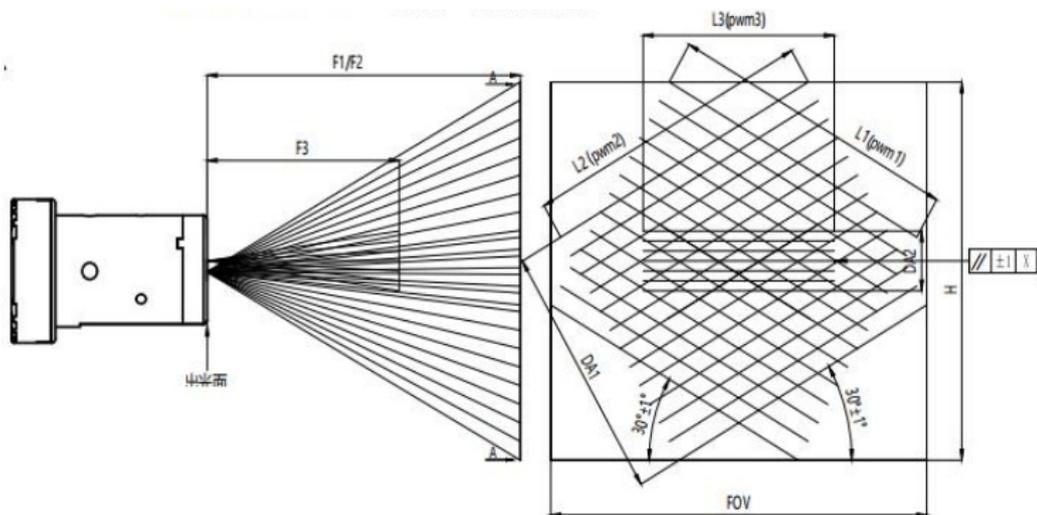
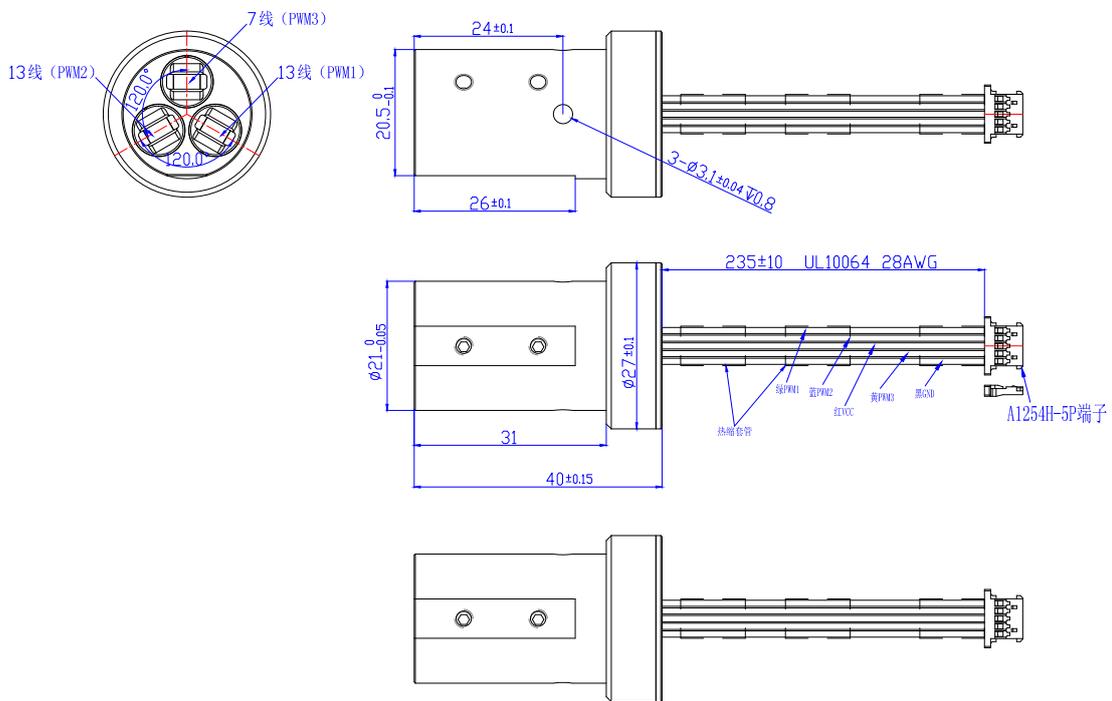
Appearance



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Dimensions:



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(13*2*7)

Item	Symbol	Min	Typ.	Max	Unit	Remarks
Wavelength	λ_p	440	450	460	nm	
Power	Po	-	-	1.6	W	
Voltage1/2/3	Vop	-	12	-	V	
Current 1/2/	Iop	-	800	-	mA	13 Lines
Focus position1/2		290	300	310	mm	13 Lines
Fan angle1/2/	\angle	52	55	58	°	13 Lines
DA1/2/		-	33.6	-	°	13 Lines
Line Width1/2/		-	0.2	-	mm	13 Lines@300mm
Focus depth1/2/		-	-	0.8	mm	13 Lines@150-500mm
Current 3	Iop	-	500	-	mA	7 Lines
Focus position 3		190	200	210	mm	7 Lines
Fan angle 3	\angle	37	40	43	°	7 Lines
DA 3		-	20.4	-	°	7 Lines
Line Width 3		-	0.15	-	mm	7 Lines@300mm
Focus depth3		-	-	0.2	mm	7 Lines@150-500mm
Uniformity		70%	-	-		
Linearity		-	-	0.1%		Center Line
Directivity deviation		-	-	5	mrad	
Working Temp		0	-	40	°C	
Storge Temp		-40	-	70	°C	
Working humidity		0	-	90%	rh	
Lifetime		8000	-	10000	h	25°C Housing temp

1. Drive mode: ACC constant current drive.
2. Adjustment mode: PWM control, modulation frequency 100KHz, duty cycle 0-100%

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BU-LASER's special reminder: Please pay attention to electrostatic protection during transportation and use of laser products, and please do not exceed the maximum value in the application, so as to avoid the rapid aging of the laser.

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When you design product applications, please pay attention to use within the allowable range. Especially the maximum rating, working voltage, current range, heat radiation characteristics, installation conditions, and other characteristics. BU-LASER shall not be held responsible for any malfunction or damage when used beyond the guaranteed scope. Even within the guaranteed range, considering the generally foreseeable failure rate or failure mode in semiconductor devices, please adopt system measures, such as fail-safe, TVS diode, etc. to protect the laser tube.

The laser will cause direct or indirect damage to the human body, especially the eyes. If you need to observe the laser, please use an ultraviolet camera to observe it.