



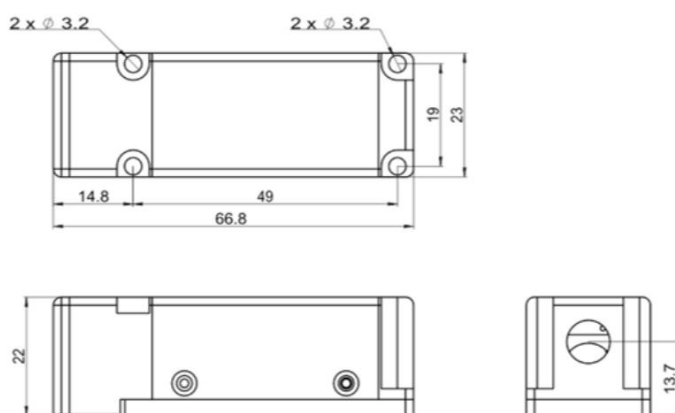
G545D040-66.8x23x22-V2

Applications

- Life Science
- Scientific Experiment
- Optical Instrument
- Medical Imaging & Instrument

Dimensions (Unit: mm)

Laser Head:



Specifications

Specifications				
Model Number		G545D040-66.8x23x22-V2		
Mechanical Specifications		Min	Typ	Max
Laser Head	Width x Height (mm)	-	23*22	-
	Length (mm)	-	66.8	-
	Weight (g)	-	-	100
Housing Material		Grey Anodized Aluminum		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		543	545	547
Output Power (mW)		30	40	-
Power Stability at const. Temperature ⁽¹⁾		-	1%	3%
Output Power Mode		CW		
Laser Class		3B		

⁽¹⁾ RMS 4 hours: after warm-up time

Beam Specifications		Min	Typ	Max
Beam Divergence (mrad) ⁽¹⁾		-	-	1
Beam Alignment Tolerance	Position (Δr , mm) ⁽²⁾	-	-	0.5
	Off-axis Angle (mrad)	-	-	-
Beam Diameter at Output Window (mm) ⁽¹⁾		-	-	2
Beam Height from Base Plate (mm)		-	13.7	14
Beam Roundness		70%	-	95%
Beam Mode Longitude		Multi		
Beam Mode Transverse		TEM ₀₀		
M ²			1.2	1.3
Polarization Ratio (Linear)		100:1	-	-
Electrical Specifications		Min	Typ	Max
Operating Voltage (DC, V)		12		
Operating Current (A) at 12V		2		
Power Consumption (W)		-	-	24
Laser Drive Size ⁽³⁾	Width x Height (mm)	-	35*38.5	-
	Length (mm)	-	66.7	-
	Weight (g)	-	-	200
Reliability		Min	Typ	Max
Operating Condition (°C) ⁽⁴⁾		15	25	35
Warm-up Time (minutes)		-	-	5
Storage Temperature (°C)		0	-	40
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-

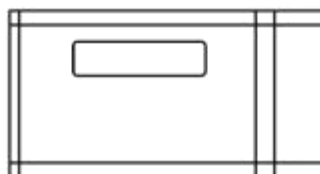
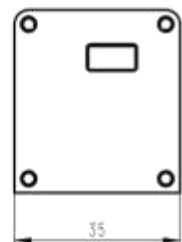
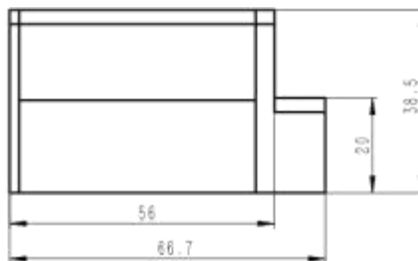
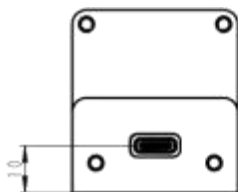
⁽¹⁾ Full Angle ($1/e^2$)

⁽²⁾ at Output Window

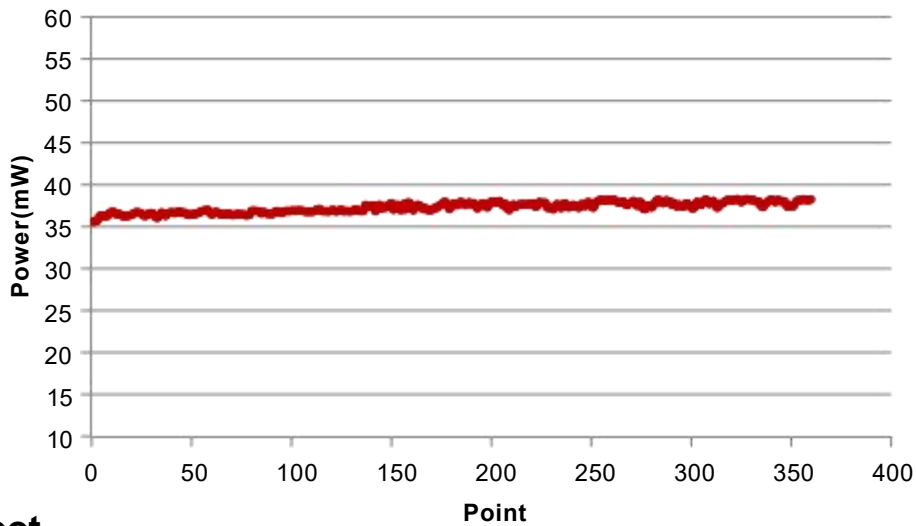
⁽³⁾ See page 3

⁽⁴⁾ The laser head needs to be used on a heat sink (baseplate) with good heat dissipation and 15 to 35°C is the baseplate temperature

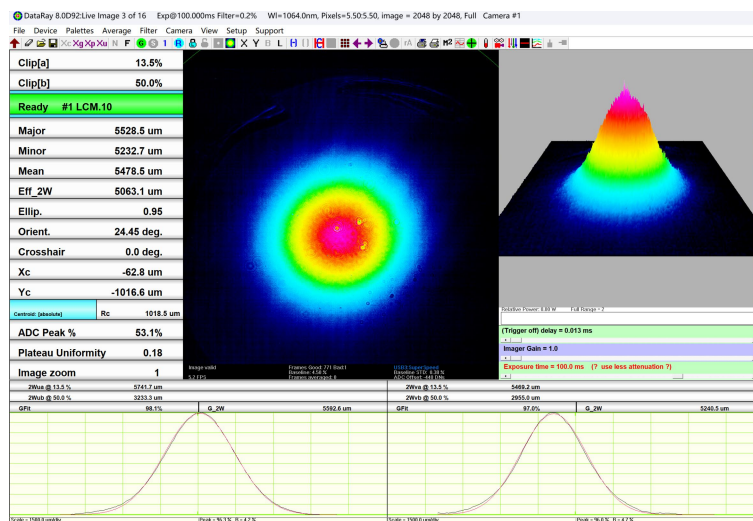
Laser Driver



Power Stability



Beam Spot



Wavelength

