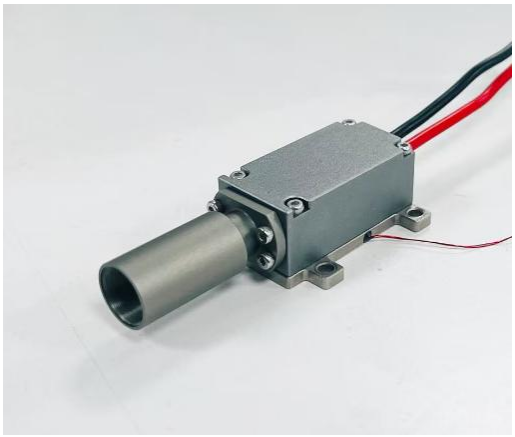


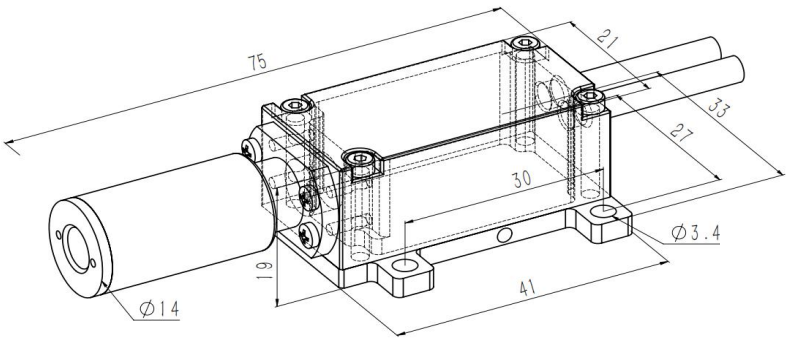
IR1030D2000-75x33x19-2-00

Application

Special Designed for

Laser Engraving

Dimensions (Unit: mm)



Specifications				
Model Number		**IR1030D2000- 75x33x19-2-00**		
Mechanical Specifications		***Min***	***Typ***	***Max***
Laser head	Width x Height (mm)	-	33x19	-
	Length (mm)	-	75	-
	Weight (g)	-	-	50
Housing Material		Aluminum		
Optical Specificaitons		***Min***	***Typ***	***Max***
Wavelength (nm)		1029	1030	1031
Output Power (W)		2	2.3	2.6
RMS Power Stability（25℃，8h）		-	0.5	1%
Output Power Mode		Pulse		
Laser Class		4		

Frequency(kHz)	18	20	22
Pulse Width(ns)	5	6	7
Beam Specifications	***Min***	***Typ***	***Max***
Beam Divergrnce （mrad） (1)	-	5	7.5
Beam Diameter at 1m（mm） (1)	-	5	6
Beam Roundness	70%	-	100%
Beam Mode Longitude	Multi		
Beam Mode Transverse (2)	TEM_{00}		
Electrical Specificatons	***Min***	***Typ***	***Max***
Power Type	Q-switch		
LD Voltage		1.7	2
LD Operating Current (A) at 1.7V		10	11
Threshold Current(A)	3	3.5	4
Wire Length (mm)	90	100	110
Wire Type		OD3.3	
Housing Isolation		No	
Reverse Voltage Protection		No	
ESD protection		No	
Reliability	***Min***	***Typ***	***Max***
Operating Temperature (℃) (3)	25	30	35
Rise Time (ns)	-	4	5
Storage Temperature (℃)	-20	-	70
Environmental Humidity (RH, %)	10	-	90
Lifetime (h) (MTTF at 25℃)	5,000	-	10000

(1) Full angle ($1/e^2$)
(2) See pic.1 in page 3.
(3) Base plate temperature, no TEC. Active cooling is required.
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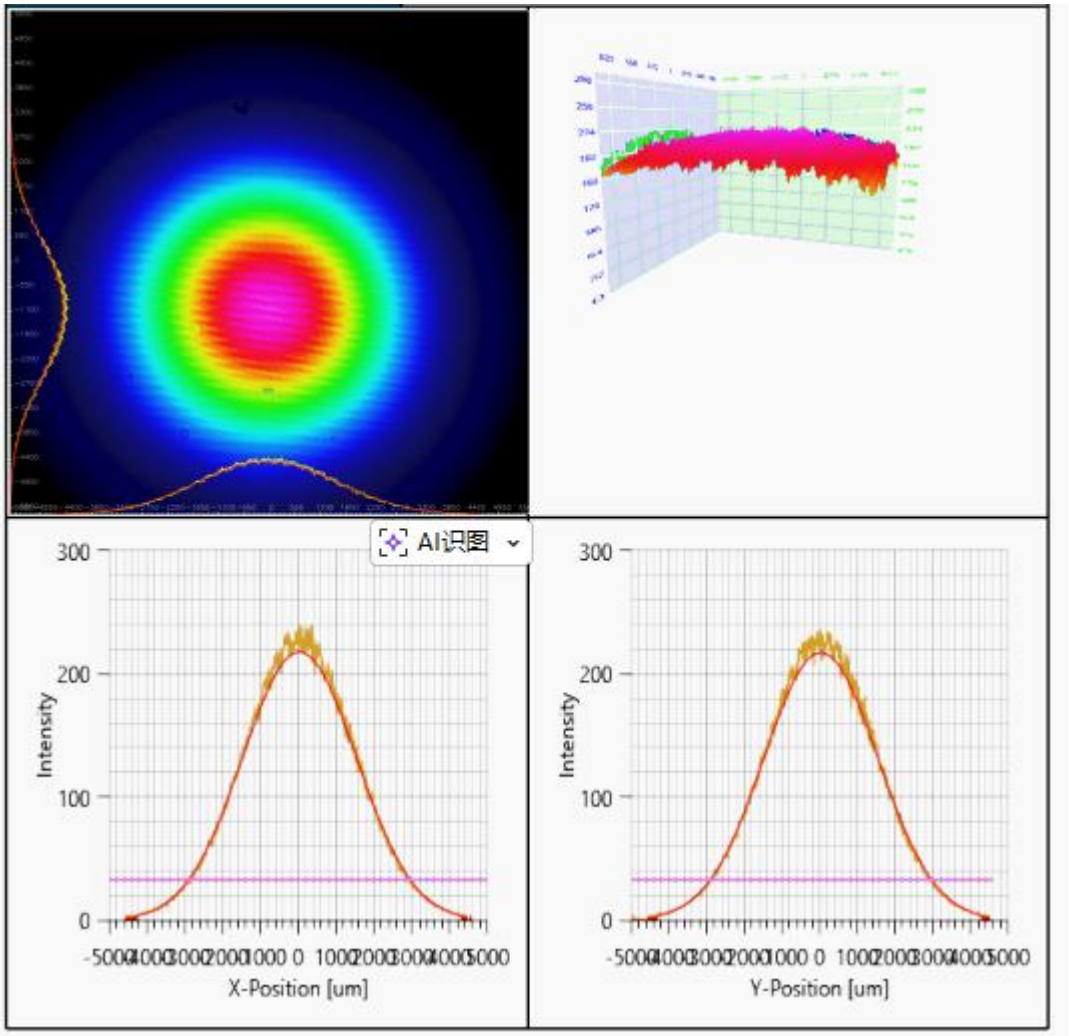
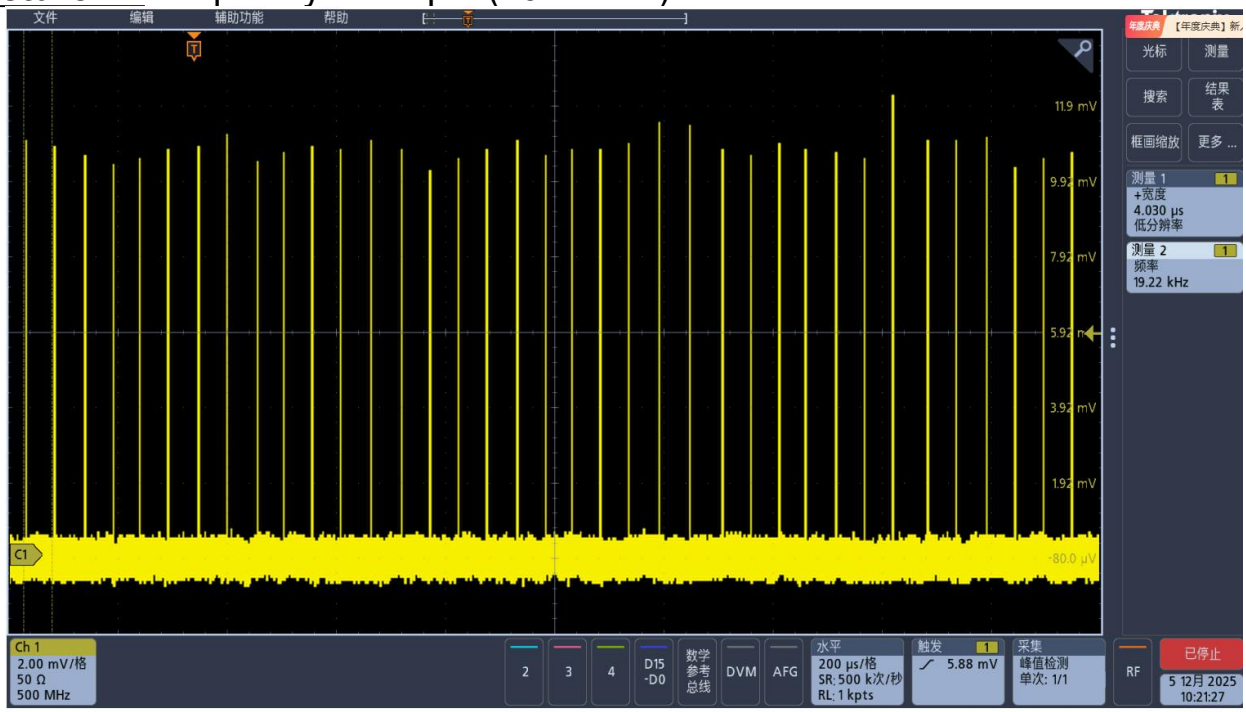
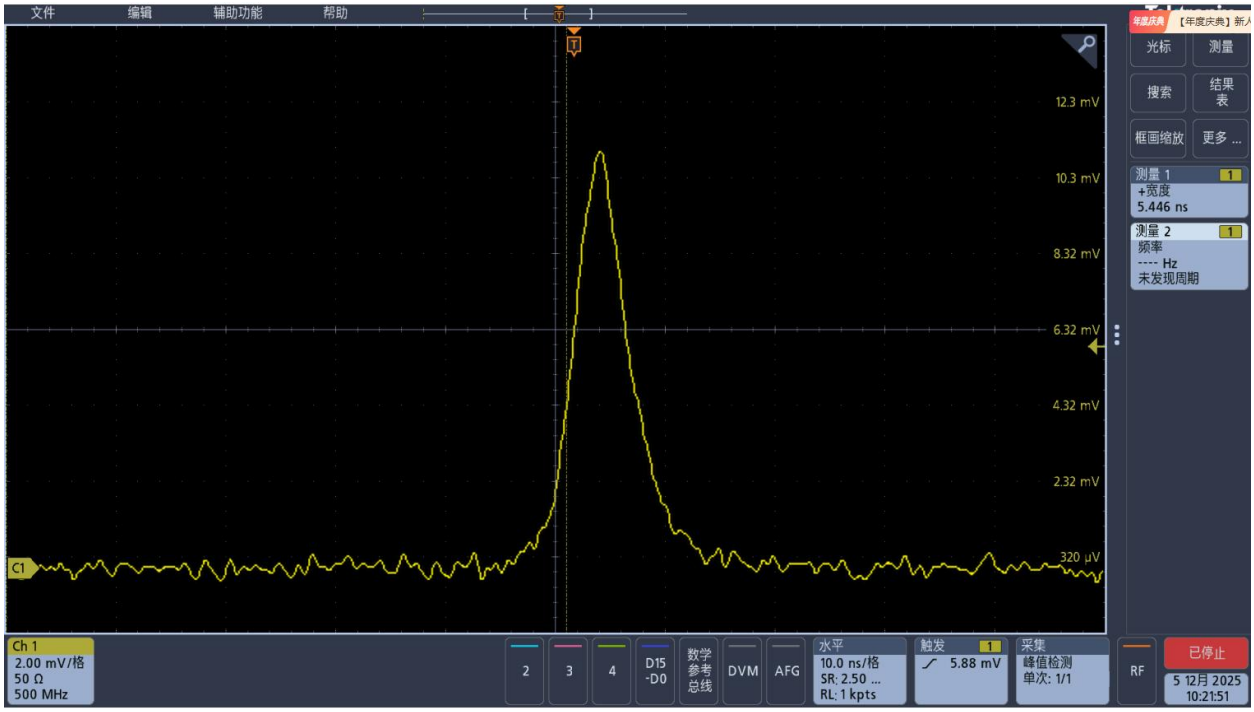
Picture 1: Beam Spot Example



Picture 2: Frequency Example (19.22kHz)



Picture 3: Pulse Width(ns) Example (5.5ns)



Picture 4: (Example)

Long-Term Power Stability（%）（RMS 60 hours） 0.72%

Long-Term Power Stability（%）（RMS 8 hours） 0.54%