

Testing report

Model: AO-MINI-E-355-150 μ J

Testing Reports

All testing is based on the required specifications in the purchase order.

Model: AO-MINI-E-355-150μJ

Inspection reports

Items of specs	Testing	Attachments
Wavelength	354.746nm	Graph 1
Spectral Line Width	38.4pm	Graph 1
Output Energy	170μJ@1kHz	/
Output Power	170mW@1kHz	Graph 2
Power Stability over 4 hours	0.833%@1kHz	Graph 2
Operating Mode	Q switched	/
Trigger Pulse Width	1us	/
Frequency	0.5kHz~10kHz	/
Pulse Width	9.175ns@1kHz	Graph 3
Synchronizing Signal	TTL 5V	/
Transverse Mode	TEM ₀₀	Graph 4
Beam Circularity	95.7%	Graph 5
Beam Diameter(1/e ²)	1.971mm 1.879mm	Graph 5
Beam Divergence (full angle)	~0.5mrad	/
M ²	X:1.06 Y:1.06	Graph 6
Polarization Ratio	220:1(Vertical)	/
P-I(‰)	/	/
Threshold Current	(596‰)1.9A	/
Power Consumption	~65W@25℃	/
Communication Interface	RS232	/
RS232 Maximum Current Power Permille	1000‰	/
Cooling Way	Air Cooled	/
Warm-up Time	<10 mins	/
Operating Temperature	10~35℃	/
Beam Height from Base	81.4mm	Graph 7
Dimensions of Laser Head	278×105×132mm ³	Graph 7

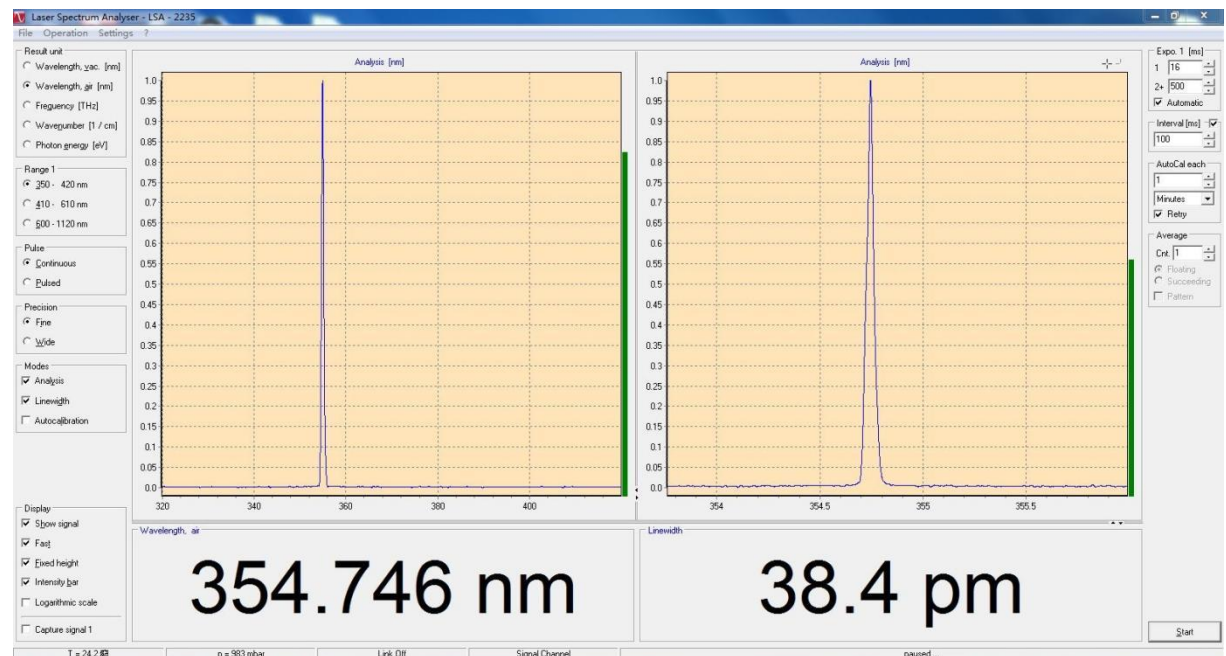
Weight of Laser Head	3.95 kg	/
Supply Voltage	100-240V AC	/
Integrated Driver	PSU-24-P	Graph 8
Dimensions of Driver	210×150×112.3mm ³	Graph 8
Weight of Driver	2.65kg	/
Power Mode	/	Display current, unit: /A

Inspector:

Date: 2025-12-25

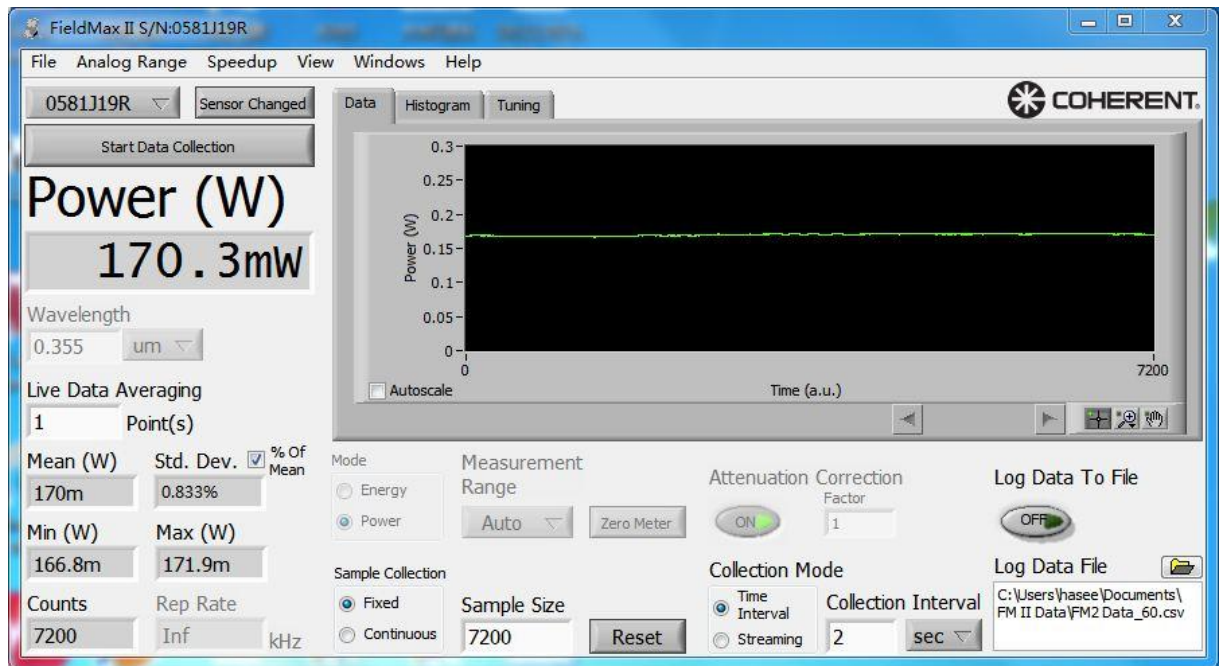
Attachments

Graph1. Wavelength



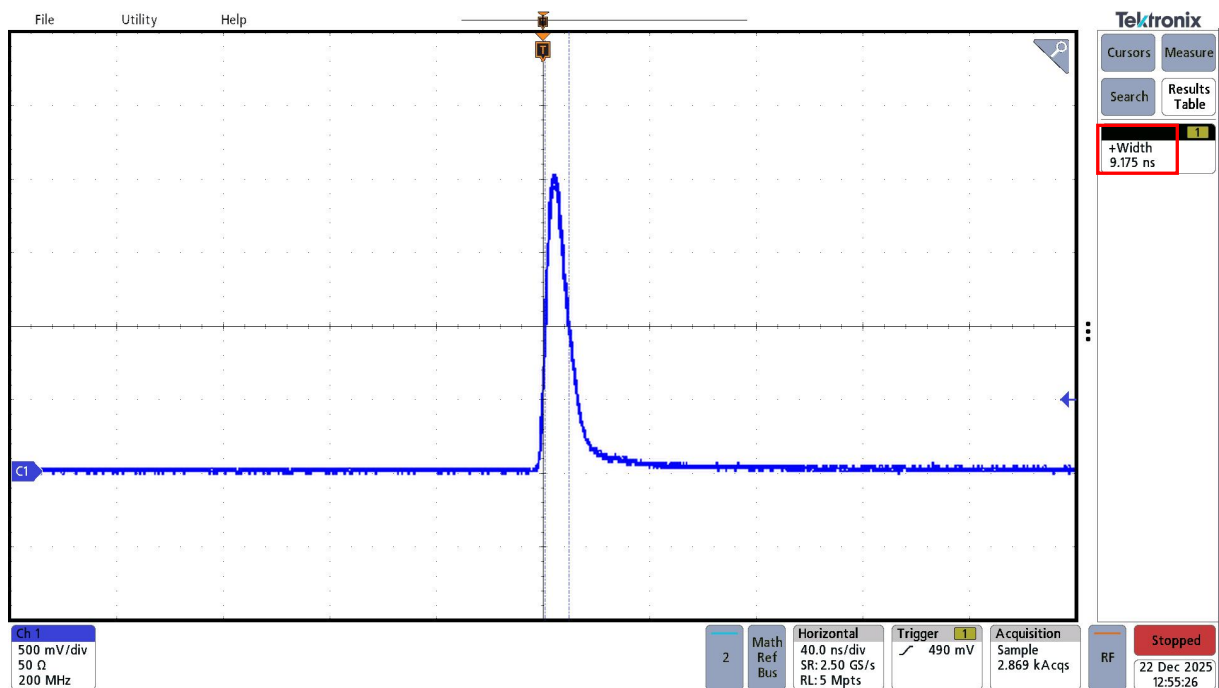
Wavelength Gauge Inspection(HighFinesse LSA2235)

Graph2. Output power and Stability testing



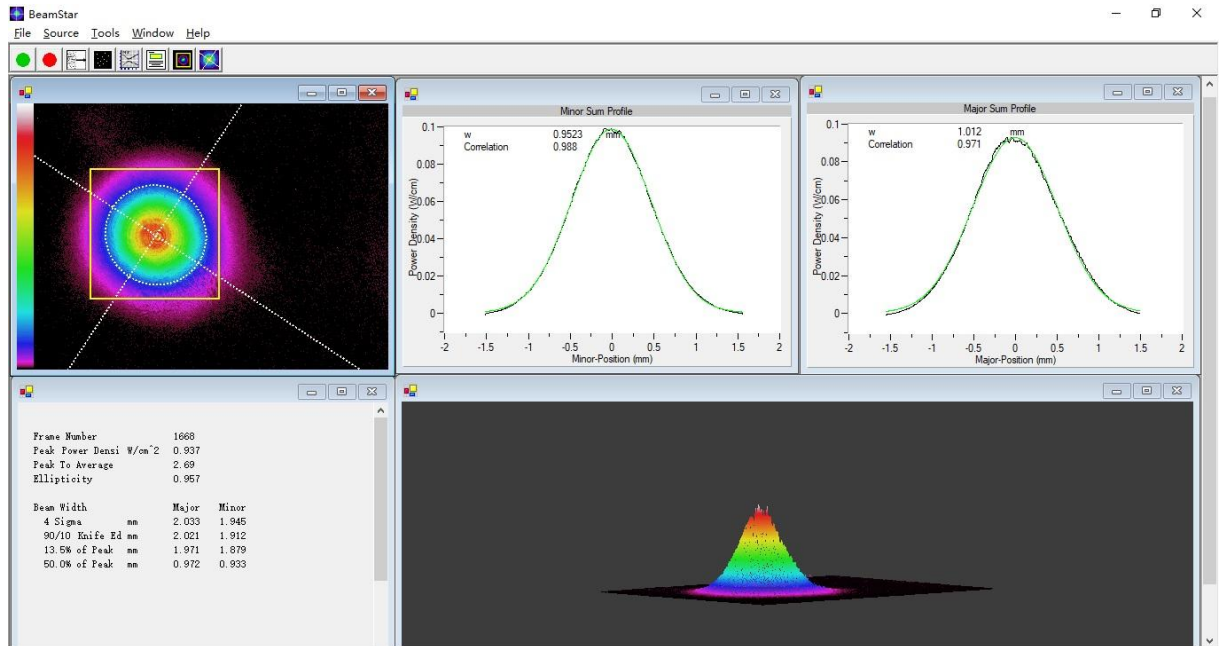
Laser power and Stability tested by Coherent Power meter(PS19Q)

Graph3. Pulse width testing@1kHz

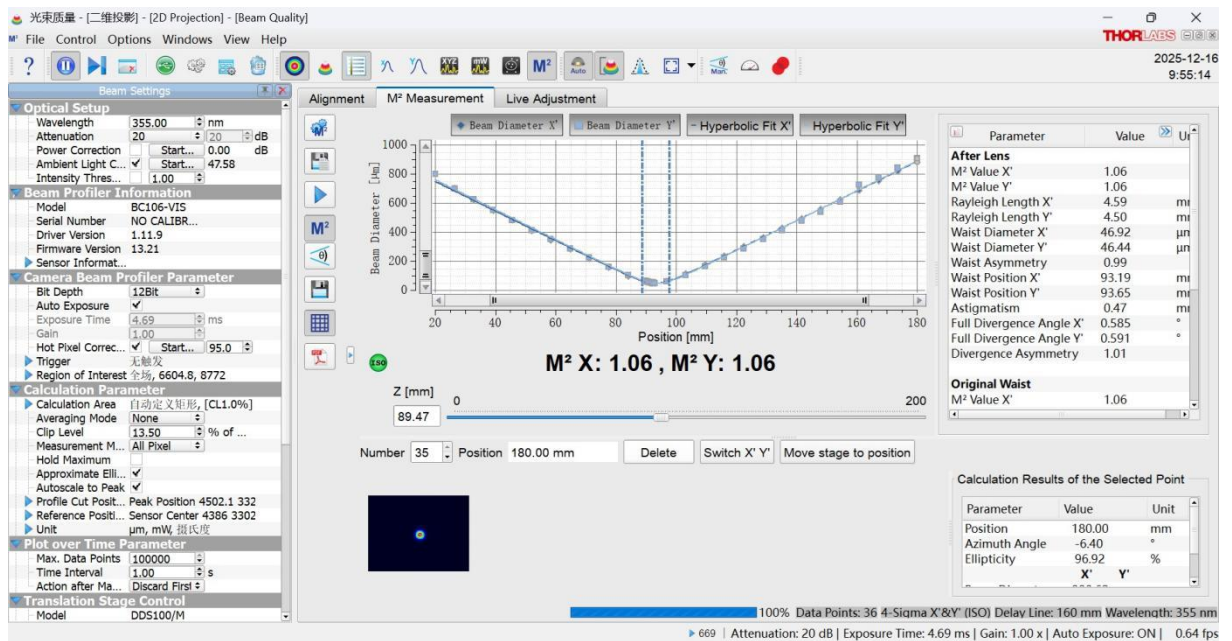


Pulse width tested by Tektronix oscilloscope is 9.175ns

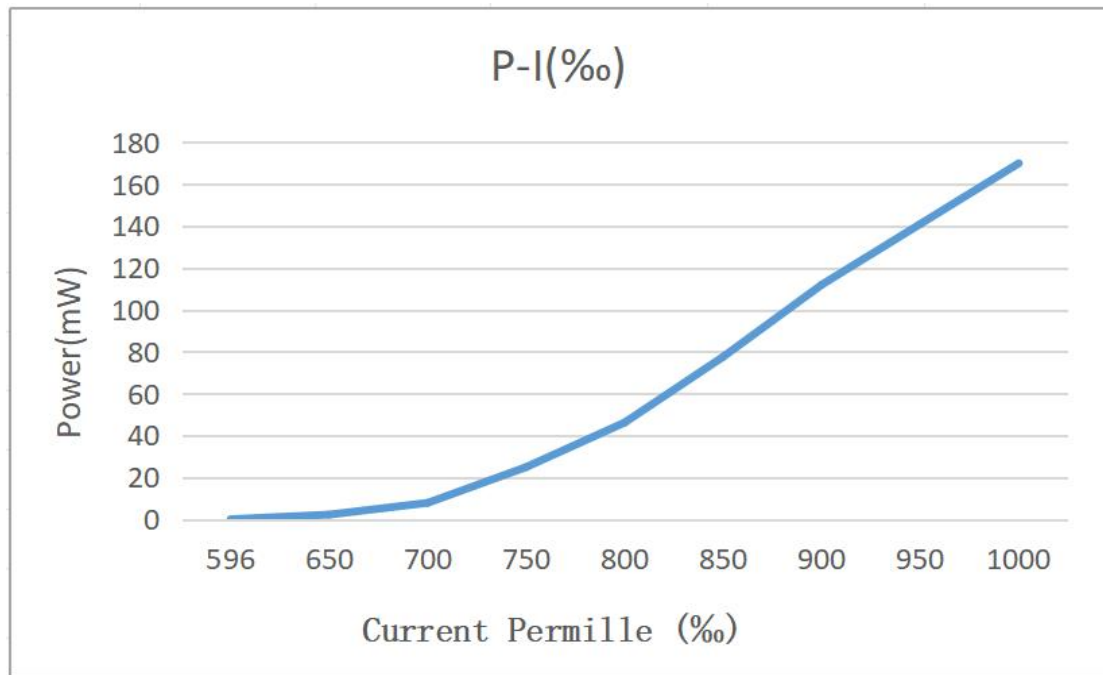
Graph4. Beam profile testing@1kHz



Beam profile tested by CCD camera (SP620U)

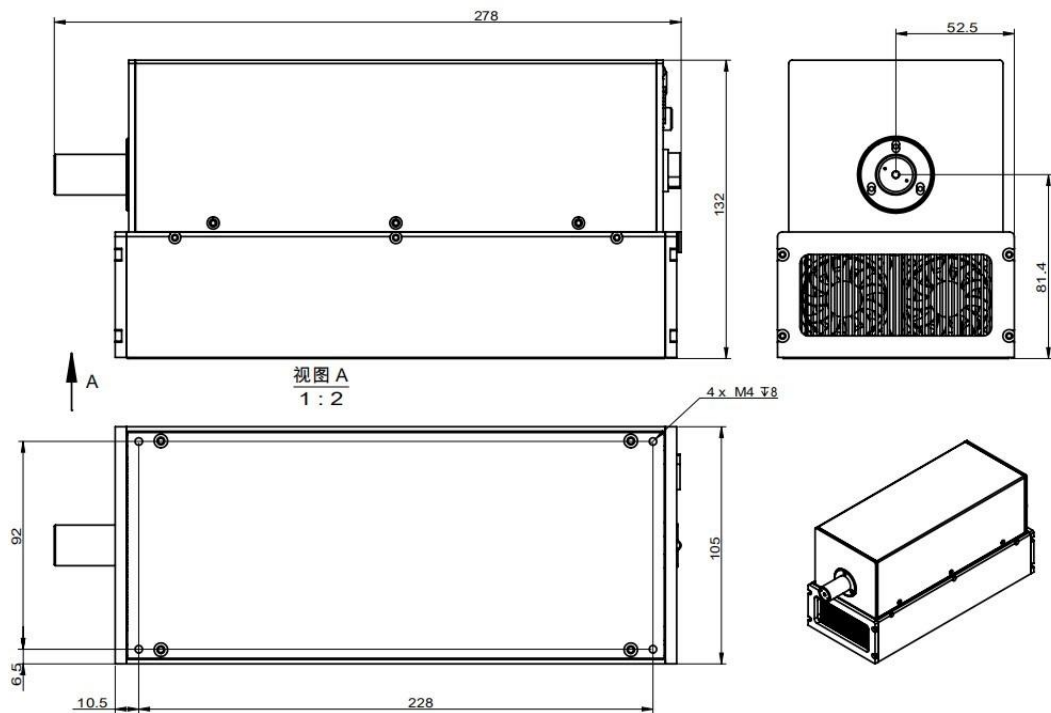
Graph5. M^2  M^2 test by M^2 tester (M2MS)

Graph 6. P-I(%)

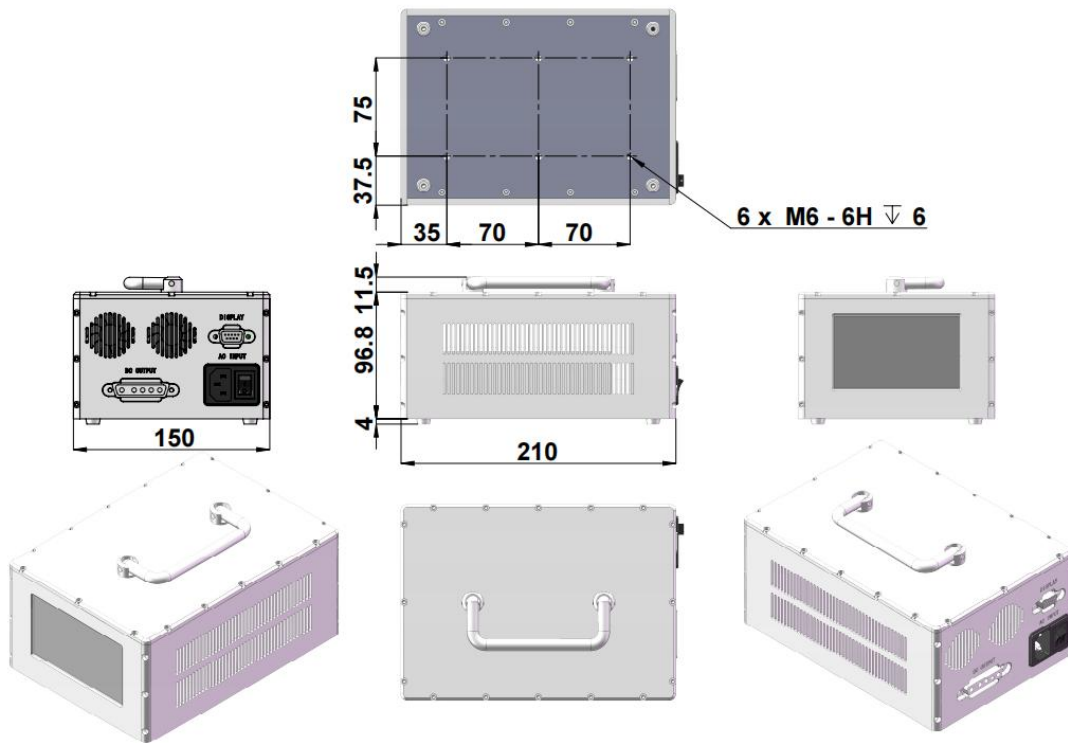


Current Percent (%)	596	650	700	750	800	850	900	950	1000
Power (mW)	0	2.18	7.8	24.9	46.2	77.6	112	141	170

Graph7. Laser Head



Graph8. Power Supply



Testing datas@0.5kHz -10kHz

Frequency (kHz)	Output Power (mW)	Pulse width (ns)	Output Energy (uJ)
0.5	86	9.111	172
1	170	9.175	170
2	291	9.467	145
3	358	9.544	119
4	386	10.19	96
5	391	10.94	78
6	385	11.4	64
7	371	12.44	53
8	350	13.41	43
9	322	14.67	35
10	294	15.67	29