

STXF Series Laser Power Meters

The STXF series laser measurement products include laser power meters and laser energy meters. Some models support both power and energy measurement, and are also called laser power and energy meters. These products measure laser power and energy values, providing data support for the magnitude and stability of laser parameters.

Laser power meters are classified into two types:

- Display type: Equipped with an LCD display and built-in battery. It can display readings in real time without relying on a computer.
- OEM type: Integrated into laser systems, powered by the equipment itself (no built-in battery), and transmits data to the computer via communication interfaces such as USB and serial ports.

Our power meters consist of a sensor and a processing unit. For the display types, these two units correspond to a sensor and display unit; for OEM types, they correspond to a sensor and data processing unit.

The power sensor receives high-energy laser beams, making it prone to contamination and damage. Regular calibration is required if high measurement accuracy is needed. Our power meters support user self-calibration, thereby simplifying the calibration process and providing operation flexibility.

1. Display-type Laser Power Meter with Sensor and Display Unit



Display Unit V2

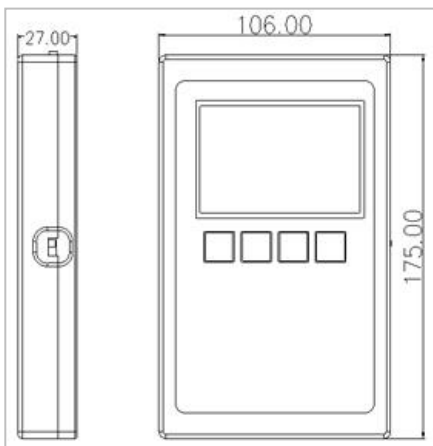


Features:

- Large-size color LCD screen
- Real-time waveform display
- No zero-calibration required (self-stabilizing zero circuit)
- Adjustable 2nd-order acceleration algorithm
- Optional single-pulse laser energy measurement
- High-capacity lithium battery
- Upgraded burn-in protection
- Metal body with excellent anti-interference and shielding performance
- User-friendly self-calibration mechanism
- USB-B interface and PC monitoring software

Model	Stellar V2
Power Supply	USB-B interface, 5V1A adapter
Battery	3600mAh, charging time 12 hours, discharging time 24 hours
Display	3.5-inch true color LCD, 480*320, multi-level backlight
Communication Interface	USB-B
Accuracy of Electrical	± 0.25%
Alarm Signal Output	OC gate, max. load capacity of 0.35A, configurable polarity
Analog Signal Output	0-1V (10BIT)
Storage	Up to 1667 hours, up to 10,000 data points
Display Mode	Numbers, bar charts, graphs
Dimension	175*106*27 (mm)
Weight	0.5kg

Dimensions



10W / 50W / 100W / 150W Laser Power Sensor



Features:

- Quick response
- Wide spectral range
- Compact in size
- Optimized heat sink design for short-term high-power handling

Model	STXF-TP10-25	STXF-TP10-25J	STXF-TP50-25S	STXF-TP50-19/ STXF-TP100-19/ STXF-TP150-19	STXF-TP50-19J/ STXF-TP100-19J/ STXF-TP150-19J
Spectral Range	0.19~11 μ m	0.28~1.1 μ m	0.19~11 μ m	0.19~11 μ m	0.28~1.1 μ m
Aperture	25mm			19mm	
Measurement Range	2mW - 10W	3mW - 10W	10mW - 50W	10mW - 50W/ 10mW - 100W/ 20mW - 150W	
Measurement Regime	10W: Continuous 50W: up to 3 min			50W: Continuous, 100W: Up to 3min, 150W: Up to 2min (for TP50)/ 50W: Continuous, 100W: Up to 5min, 150W: Up to 3min (for TP100)/ 50W: Continuous, 100W: Up to 10min, 150W: Up to 5min (for TP150)	
Maximum Average Power Density	15kW/cm ²	150kW/cm ²	15kW/cm ²	15kW/cm ²	150kW/cm ²
Response Time	< 1.5s				
Uncertainty	$\pm < 2\%$				$\pm < 4\%$
Linearity	$\pm < 1\%$				$\pm < 1\%$
Power Accuracy	$\pm < 3\%$				$\pm < 5\%$
Energy Range	20mJ - 200J				25mJ - 200J
Energy Scales	0.6J/ 3J/ 30J/ 200J				
Maximum Energy Density	30 J/cm ² @ 10 ms				40 J/cm ² @ 10 ms
Cooling	Natural cooling, conduction cooling				
Interface	DB9				
Weight (with holder)	0.43kg			0.68kg	0.7kg
Dimensions	60*60*20mm			65*65*65mm	65*65*95mm
Cable Length	2m				

200W / 300W Laser Power Sensor



Model	STXF-TP200-25/ STXF-TP300-25	STXF-TP200-25J/ STXF-TP300-25J	STXF-TP200-50/ STXF-TP300-50	STXF-TP200-50J/ STXF-TP300-50J
Spectral Range	0.19~11μm	0.28~1.1μm	0.19~11μm	0.28~1.1μm
Aperture	25mm		50mm	
Measurement Range	20mW - 250W / 50mW - 350W			
Maximum Average Power Density	7kW/cm²	70kW/cm²	7kW/cm²	70kW/cm²
Response Time	< 2.5s			
Uncertainty	± < 2%	± < 3%	± < 2%	± < 3%
Linearity	± < 1%			
Power Accuracy	± < 3%	± < 4%	± < 3%	± < 4%
Energy Range	35mJ - 300J			
Energy Scales	3J/ 30J/ 300J			
Maximum Energy Density	30 J/cm² @10ms			
Cooling	Natural cooling, conduction cooling			
Interface	DB9			
Weight	1.15kg			
Dimensions	90*90*112mm			
Cable Length	2m			

500W / 600W / 1000W Laser Power Sensor



Model	STXF-TP500-25/ STXF-TP600-25/ STXF-TP1000-25	STXF-TP500-25J/ STXF-TP600-25J/ STXF-TP1000-25J	STXF-TP500-50/ STXF-TP600-50/ STXF-TP1000-50	STXF-TP500-50J/ STXF-TP600-50J/ STXF-TP1000-50J
Spectral Range	0.19~11μm	0.28~1.1μm	0.19~11μm	0.28~1.1μm
Aperture	25mm		50mm	
Measurement Range	0.5W - 500W / 0.5W - 600W / 1W - 1000W			
Maximum Average Power Density	7kW/cm²	70kW/cm²	7kW/cm²	70kW/cm²
Response Time	< 2.5s			
Uncertainty	± < 2%	± < 3%	± < 2%	± < 3%
Linearity	± < 1%			
Power Accuracy	± < 3%	± < 4%	± < 3%	± < 4%
Energy Range	35mJ - 300J			
Energy Scales	3J/ 30J/ 300J			
Maximum Energy Density	100 J/cm² @10ms			
Cooling	Natural cooling, conduction cooling			
Interface	DB9			
Weight	2.5kg			
Dimensions	122*122*110mm			
Cable Length	2m			

500W / 1000W / 2000W / 3000W Water-Cooled Laser Power Sensor



Features:

- Quick response
- Wide spectral range
- Water cooling

Model	STXF-TP500-25W	STXF-TP1000-25W	STXF-TP2000-50W	STXF-TP3000-50W
Spectral Range	0.19~11μm			
Aperture	25mm		50mm	
Measurement Range	0.5W - 500W	1W - 1000W	2.5W - 2500W	3.5W - 3500W
Maximum Average Power Density	4kW/cm²		3kW/cm²	
Response Time	< 3.5s		< 4.5s	
Uncertainty	± < 2%		± < 2%	
Linearity	± < 1%		± < 2%	
Power Accuracy	± < 3%		± < 4%	
Energy Range	0.2J - 300J	0.3J - 300J	/	
Energy Scales	3J/ 30J/ 300J		/	
Maximum Energy Density	100 J/cm² @10ms	200 J/cm² @10ms	/	
Cooling	Water cooling			
Quick Connect	KQ2L 10-02AS, 10mm			
Minimum Water Flow Rate at Full Power	>=1.3L/min	>=2.5L/min	>=5L/min	
Interface	DB9			
Weight	1.05kg		4.75kg	
Dimensions	90*90*45mm		120*120*40mm	
Cable Length	2m			

Part numbering:

STXF-TPX-YY-Z

- STXF: The STXF Series Laser power meter equipped with a standard display (Stellar V2) and sensor.
- TP: Laser Power Meter (measures laser power)
- X: Power Range: 10W, 50W, 100W, 150W, 200W, 300W, etc.
- YY: Aperture: 19mm, 25mm, 50 mm.
- Z: Default configuration: Standard probe; other versions are denoted by letters as follows:
- J: Uniform Illumination (Homogenized Light)
- S: Ultra-Thin
- W: Water-Cooled

Example: STXF-TP50-19J

2. OEM-type Laser Power Meter with Sensor and Data Processing Unit

Features:

- RS232 or USB communication interface
- Simple ASCII code protocol, convenient for host programming
- Specialized PC software
- No need for zero calibration, self-stabilizing zero circuit
- Metal body, good anti-interference capability
- Easy integration
- Convenient user self-calibration mechanism

Application:

- Integration with laser machines
- Online measurement of various laser industrial machines such as welding and cutting

2W / 5W / 10W / 12W Laser Power Meter

Features:

- Quick response
- Wide spectral range
- Small and compact in appearance
- Easy integration

Model	STXF-USB/RS232-2-18	STXF-USB/RS232-5-18	STXF-USB/RS232-10-18	STXF-USB/RS232-12-18JT
Spectral Range	0.19~11μm			
Aperture	18mm			
Measurement Range	2mW - 2W	3mW - 5W	5mW - 10W	5mW - 12W
Resolution	0.1mW		1mW	0.1mW
Maximum Average Power Density	15kW/cm ²			
Response Time	< 1.5s			
Uncertainty	± < 2%			
Linearity	± < 1%			
Power Accuracy	± < 3%			
Maximum Energy Density	30 J/cm ² @10 ms			
Cooling	Conduction			
Interface	RS232 / USB			
Weight	350g			
Dimensions	60*60*20mm			
Cable Length	2m			

20W / 50W / 100W Laser Power Meter


Model	STXF-USB/RS232-20-25	STXF-USB/RS232-50-25	STXF-USB/RS232-50-19	STXF-USB/RS232-100-19
Spectral Range	0.19~11μm			
Aperture	25mm		19mm	
Measurement Range	5mW - 20W	20mW - 50W	20mW - 50W	20mW -100W
Resolution	1mW	10mW	1mW	0.1mW
Maximum Average Power Density	15kW/cm²			
Response Time	< 1.5s			
Uncertainty	± < 2%			
Linearity	± < 1%			
Power Accuracy	± < 3%			
Maximum Energy Density	30 J/cm² @10 ms			
Cooling	Conduction			
Interface	RS232 / USB			
Weight	350g		600g	
Dimensions	60*60*20 mm		65*65*65 mm	
Cable Length	2m			

200W / 300W / 500W / 1000W Laser Power Meter


Model	STXF-USB/RS232-200-25	STXF-USB/RS232-300-25	STXF-USB/RS232-500-25	STXF-USB/RS232-1000-25
Spectral Range	0.19~11μm			
Aperture	25mm			
Measurement Range	100mW - 200W	100mW - 300W	0.5W - 500W	1W - 1000W
Resolution	10mW	10mW	0.1W	0.1W
Maximum Average Power Density	7kW/cm²		6kW/cm²	
Response Time	< 2.5s		< 3.5s	
Uncertainty	± < 2%			
Linearity	± < 1%			
Power Accuracy	± < 3%			
Maximum Energy Density	30 J/cm² @10 ms			
Cooling	Conduction			
Interface	RS232 / USB			
Weight	1.25kg		2.35kg	
Dimensions	90*90*90mm	90*90*112mm	120*120*110mm	
Cable Length	2m			

200W / 500W / 1000W Water-Cooled Laser Power Meter



Model	STXF-USB/RS232-200-25W	STXF-USB/RS232-500-25W	STXF-USB/RS232-1000-25W
Spectral Range	0.19~11μm		
Aperture	25mm		
Measurement Range	100mW - 200W	0.5W - 500W	1W - 1000W
Resolution	10mW	0.1W	0.1W
Maximum Average Power Density	7kW/cm²	4kW/cm²	
Response Time	< 2.5s	< 3.5s	
Uncertainty	± < 2%		
Linearity	± < 1%		
Power Accuracy	± < 3%		
Maximum Energy Density	30 J/cm² @10ms		
Cooling	Water cooling		
Quick Connect	M-5H-6, 6mm	KQ2L10-02AS, 10mm	
Minimum Water Flow Rate at Full Power	>=1.0L/min	>=1.3L/min	>=2.5L/min
Interface	RS232 / USB		
Weight	450g	1.3kg	
Dimensions	65*65*25mm	90*90*44mm	
Cable Length	2m		

Part numbering:

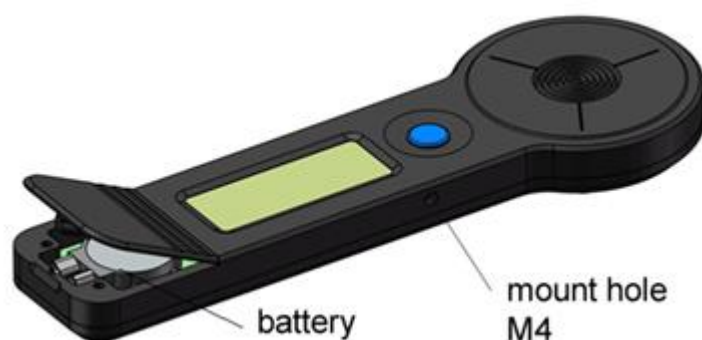
STXF-USB/RS232-X-YY-Z

- STXF: STXF Series Laser Power Meter (OEM-type Laser Power Meter with Sensor and Data Processing Unit)
- USB/RS232: Communication Interface Type: USB or RS232
- X: Power Range: 10 W, 50 W, 100 W, 150 W, 200 W, 300 W, etc.
- YY: Aperture: 19mm, 25mm, 50 mm.
- Z: Default configuration: Standard probe; other versions are denoted by letters as follows:
 - J: Uniform Illumination (Homogenized Light)
 - S: Ultra-Thin
 - W: Water-Cooled

Example: STXF-TP50-19J

STY Series Hand-held CO2 Laser Power Meter

The hand-held laser power meter STY-HLP-200B is a CO2 laser power meter. Its measurement range is maximum 200W with the resolution 0.1W. A button battery is used as the power supply and thus it is very easy and portable used in production, QC and laboratory. A mount hole is alternatively used to be fixed instead of hand-held for better stability.



Main Technical Specifications:

Part number	STY-HLP-200B
Range	0-200W
Resolution	0.1W
Calibrated wavelength	10.6um
Target diameter of the sensor	19mm
Battery type	2032 (3V/3.6V)
Display	4-digit LCD
Cooling method	Natural air
Dimensions	165x55x11mm
Weight	0.8kg

STCH Series Lasers Power Meters

A laser power meter consists of a laser power sensor (or called detector head) , display unit and relevant accessories. Our sensors can measure the laser beams at the laser wavelengths from 190nm to 25um and maximum laser power of 5000W. These power meters are used in the laser power measurement and monitoring.



1. Laser Power Sensors & Monitors

Detectable Spectral Range : 0.19 to 25 μ m

The sensors and monitors are sensitive and thus can be used to monitor laser power inside lasers and laser machines for on-time monitoring. Also can be used in compact & portable laser power meters.



- Customizable Specifications
- ≤ 50 mm Detector Aperture Size
- Applicable to Broadband Range of UV to Mid-Infrared
- Less than 1% Measurement Uncertainty

General Specifications

Spectral range (μ m)	0.19 - 25		
Maximum power (W)	Reference radiator size and light spot size		
Maximum detector aperture (mm)	≤ 50		
Uniformity ($\pm\%$)	$< 1, < 3, < 5$		
Measurement uncertainty ($\pm\%$)	< 1		
Nonlinearity with power ($\pm\%$)	< 1		
Power accuracy ($\pm\%$)	< 2.5		
Detector type	MA	HQ	VG
Maximum average power density	20kW/cm ² , 40W, CW	0.5kW/cm ² , 40W, CW	0.05kW/cm ² , 40W, CW
Maximum energy density	0.15J/cm ² , 1064nm, 1ns	0.25J/cm ² , 1064nm, 1ns	1.6J/cm ² , 1064nm, 1ns

Specifications

Dimensions and types of sensor (mm)	Dimensions of heat sink (mm)	Cooling method	Response time (sec.)	Maximum detector aperture (mm)	Power range
Φ32 x 3 sensor o	38x38x29	Air-cooled	< 1	19	10mW - 10W
Φ44 x 3 sensor a	57x57x44	Air-cooled	< 1	19	10mW - 20W
Φ44 x 3 sensor a	65x65x50	Air-cooled	< 1	19	10mW - 40W
Φ44 x 3 sensor b	6 x 65x95	Fan-cooled	< 1	19	10mW - 150W
Φ72 x 3 sensor c	100x100x80	Air-cooled	< 2	40	100mW - 100W
Φ72 x 3 sensor d	125x125x95	Air-cooled	< 2.5	40	100mW - 200W
Φ72 x 4 sensor e	100x100x 09	Fan-cooled	< 2.5	40	100mW - 250W
Φ72 x 5 sensor f	125x125x136	Fan-cooled	< 3.5	40	300mW - 350W

2. OEM Laser Power Sensors

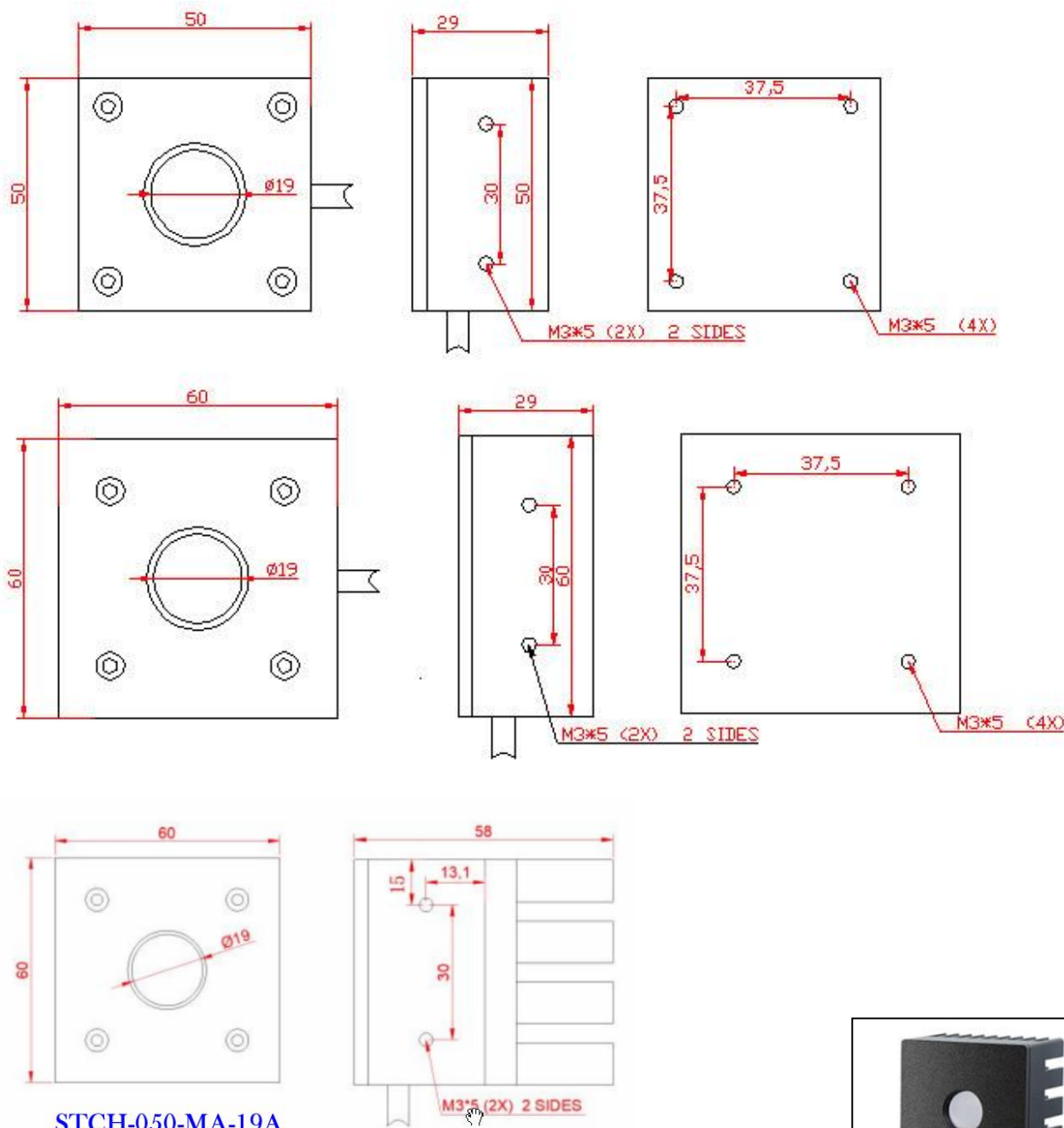
The sensors can be used for online monitoring laser power in laser machining systems. Various output signals and spectrum range are available upon request.



- Customizable Specifications
- Detector Aperture Size $\leq 50\text{mm}$
- Spectral Wavelength or Spectral Range is Available
- Various Signal Output Types

Part number	STCH-020-MA-19	STCH-050-MA-19	STCH-050-MA-19A
Output signal	Analog/RS232 digital/USB digital	Analog/RS232 digital/USB digital	Analog/RS232 digital/USB digital
Spectral range, μm	0.19 - 25	0.19 - 25	0.19 - 25
Minimum power, mW	10	30	30
Maximum power(W) Standalone	10	15	15 (Cont), 25 (12min), 50 (4min)
Maximum power(W) Heatsink	20	50	50
Measurement capability			
Resolution, mW	0.2	0.5	0.5
Measurement uncertainty, $\pm\%$	< 1	< 1	< 1
Nonlinearity with power, $\pm\%$	< 1	< 1	< 1
Power accuracy, $\pm\%$	< 3	< 3	< 3
Response time, sec.	< 1	< 1	< 1
Detector type	MA	MA	MA
Detector aperture, mm	19	19	19
Damage threshold			
Maximum average power density	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW
Maximum energy density	0.15J/cm ² , 1064ns, 1ns	0.15J/cm ² , 1064ns, 1ns	0.15J/cm ² , 1064ns, 1ns
Physical characteristics			
Dimensions, mm	50 × 50 × 29	60 × 60 × 29	60 × 60 × 58
Cooling method	Air-cooled	Air-cooled	Air-cooled

Cable length, m	1.5	1.5	1.5
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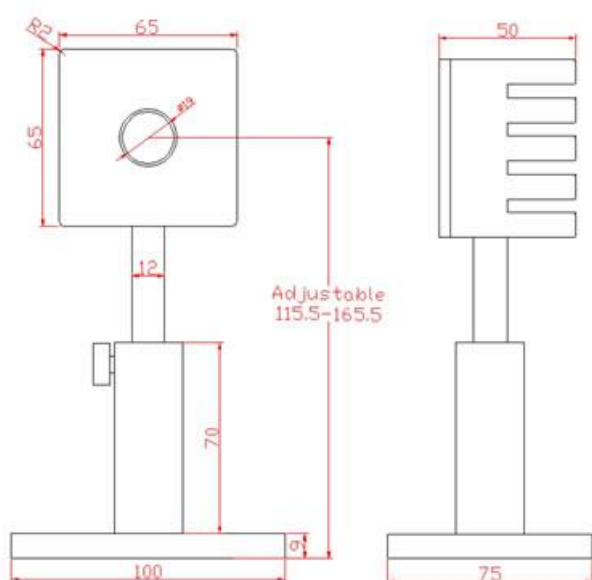
3. 10mW-40W Laser Power Sensors

- Air Cooled
- 10/19mm Detector Aperture Size
- Spectral Wavelength or Spectral Range is Available
- Single Pulse Energy Test Function
- Connect the USB Output Interface with PC Port
- Up to 80W in 1 Min

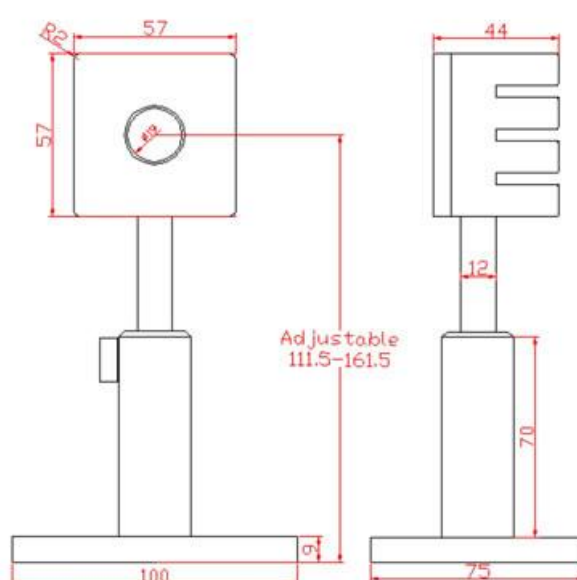


Part number	STCH-20F-MA-10	STCH-20F-HQ-10	STCH-20F-VG-10	STCH-40F-MA-19	STCH-40F-HQ-19	STCH-40F-VG-19
Spectral range, μm	0.19 - 25	0.19 - 25	0.19 - 25	0.19 - 25	0.19 - 25	0.19 - 25
Power range	10mW - 20W (60W)	10mW - 20W (60W)	10mW - 20W (60W)	10mW - 40W (80W)	10mW - 40W (80W)	10mW - 40W (80W)
Intermittent measurement power	20W (Cont.), 40W (3min), 60W (2min)	20W (Cont.), 40W (3min), 60W (2min)	20W (Cont.), 40W (3min), 60W (2min)	40W (Cont.), 60W (3min), 80W (2min)	40W (Cont.), 60W (3min), 80W (2min)	40W (Cont.), 60W (3min), 80W (2min)

Resolution	0.5	0.5	0.5	0.5	0.5	0.5
Measurement uncertainty $\pm\%$	< 1	< 1	< 1	< 1	< 1	< 1
Nonlinearity with power $\pm\%$	< 1	< 1	< 1	< 1	< 1	< 1
Power accuracy $\pm\%$	< 3	< 3	< 3	< 3	< 3	< 3
Response time, sec.	< 1	< 1.5	< 3	< 1	< 1.5	< 3
Detector type	MA	HQ	VG	MA	HQ	VG
Detector aperture(mm)	10 (19)	10 (19)	10 (19)	19	19	19
Maximum average power density	20kW/cm ² , 10W, CW	0.5kW/cm ² , 10W, CW	0.05kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW	0.5kW/cm ² , 10W, CW	0.05kW/cm ² , 10W, CW
Maximum energy density	0.15J/cm ² , 1064nm, 1ns	0.25J/cm ² , 1064nm, 1ns	1.6J/cm ² , 1064nm, 1ns	0.15J/cm ² , 1064nm, 1ns	0.25J/cm ² , 1064nm, 1ns	1.6J/cm ² , 1064nm, 1ns
Dimensions (mm)	57 x 57 x 44	57 x 57 x 44	57 x 57 x 44	65 x 65 x 50	65 x 65 x 50	65 x 65 x 50
Cooling method	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled
Cable type	DB-9M	DB-9M	DB-9M	DB-9M	DB-9M	DB-9M
Cable length (m)	1.5	1.5	1.5	1.5	1.5	1.5



STCH-20F



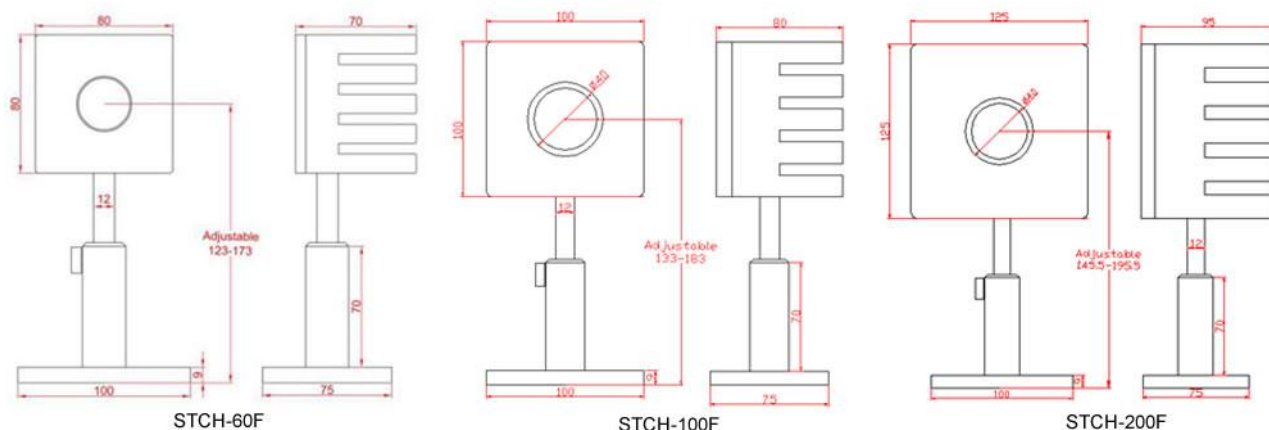
STCH-40F

4. 100mW-200W Laser Power Sensors

- Air Cooled
- 40mm Detector Aperture Size
- Spectral Wavelength or Spectral Range is Available
- Single Pulse Energy Test Function
- Connect the USB Output Interface with PC Port
- UP to 400W in 1 Min



Part number	STCH-60F-CA-30	STCH-100F-CA-40	STCH-200F-CA-40
Spectral range, μm	0.19 – 25	0.19 – 25	0.19 – 25
Power range	50mW - 60W (100W)	100mW - 100W (200W)	100mW – 200W(400W)
Intermittent measurement power	60W (cont.) 80W (8min) 100W (3min)	100W (cont.) 150W (3min) 200W (1min)	200W (cont.) 300W (2min) 400W (1min)
Resolution	3.5	3	10
Measurement uncertainty, $\pm\%$	< 1	< 1	< 1
Nonlinearity with power, $\pm\%$	< 1	< 1	< 1
Power accuracy, $\pm\%$	< 3	< 3	< 3
Response time, sec	< 2	< 2	< 2.5
Detector type	CA	CA	CA
Detector aperture, mm	30	40	40
Maximum average power Density	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW	20kW/cm ² , 40W, CW
Maximum energy density	0.3J/cm ² , 1064nm, 1ns	0.3J/cm ² , 1064nm, 1ns	0.3J/cm ² , 1064nm, 1ns
Dimensions, mm	80 × 80 × 70	100 × 100 × 80	125 × 125 × 95
Cooling method	Air Cooled	Air Cooled	Air Cooled
Cable type	DB-9M	DB-9M	DB-9M
Cable length (m)	1.5	1.5	1.5



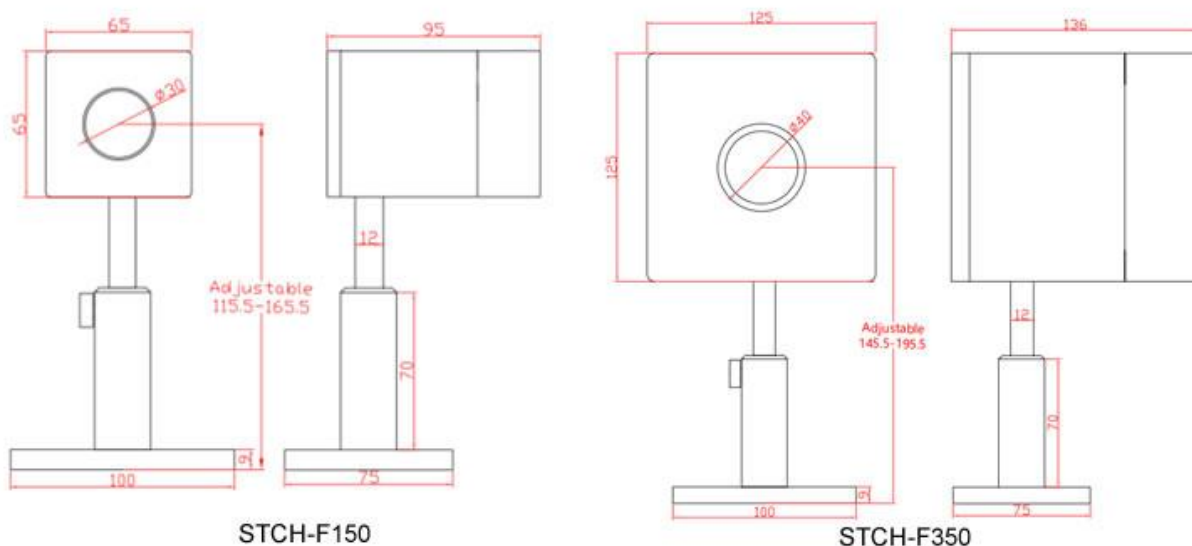
5. 300mW-350W Fan-Cooled Laser Power Sensors

- Fan Cooled
- 30/40mm Detector Aperture Size
- Spectral Wavelength or Spectral Range is Available
- Single Pulse Energy Test Function
- Connect the USB Output Interface with PC Port
- UP to 600W in 1 Min



Part number	STCH-F150-CA-30	STCH-F250-CA-40	STCH-F350-CA-40
Spectral range, μm	0.19 - 25	0.19 - 25	0.19 - 25
Power range	50mW - 150W (300W)	100mW - 250W (400W)	300mW - 350W (600W)

Intermittent measurement power	150W (cont.) 200W (3min) 300W (1min)	250W (cont.) 300W (2min) 400W (1min)	350W (cont.) 500W (2min) 600W (1min)
Resolution, mW	5	10	20
Measurement uncertainty, $\pm\%$	< 1	< 1	< 1
Nonlinearity with power, $\pm\%$	< 1	< 1	< 1
Power accuracy, $\pm\%$	< 3	< 3	< 3
Response time, sec	< 1	< 2.5	< 3.5
Detector type	CA	CA	CA
Detector aperture, mm	30	40	40
Maximum average power density	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW
Maximum energy density	0.3J/cm ² , 1064nm, 1ns	0.3J/cm ² , 1064nm, 1ns	0.3J/cm ² , 1064nm, 1ns
Dimensions, mm	65 × 65 × 95	100 × 100 × 109	125 × 125 × 136
Cooling method	Fan Cooled	Fan Cooled	Fan Cooled
Cable type	DB-9M	DB-9M	DB-9M
Cable length, m	1.5	1.5	1.5



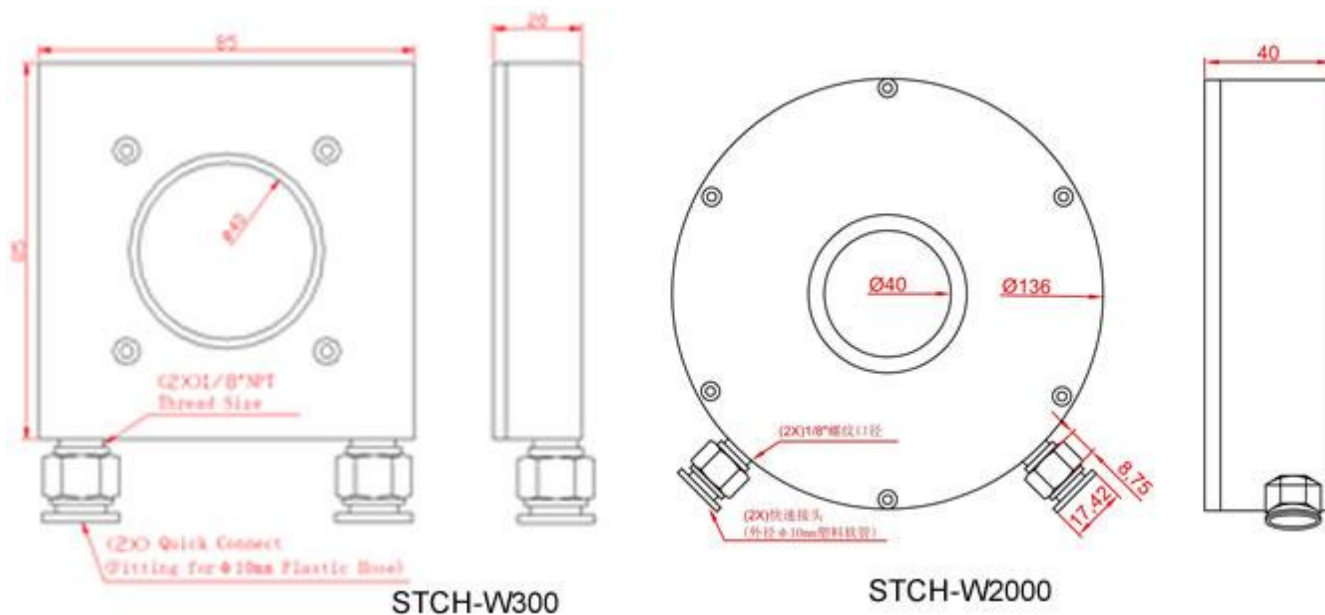
6. 200mW-2000W Laser Power Sensor

- Water Cooled
- 19/40mm Detector Aperture Size
- Spectral Wavelength or Spectral Range is Available
- Single Pulse Energy Test Function
- Connect the USB Output Interface with PC Port
- UP to 2000W



Model	STCH-W150-CA-19	STCH-W300-CA-40	STCH-W500-CA-40	STCH-W1000-CA-40	STCH-W2000-CA-40
Spectral range, μm	0.19 - 25	0.19 - 25	0.19 - 25	0.19 - 25	0.19 - 25
Power range	0.2 - 150	0.3 - 300	0.5 - 500	2 - 1000	5 - 2000
Resolution, mW	10	15	20	100	200
Measurement uncertainty, $\pm\%$	< 1	< 1	< 1	< 1	< 1
Nonlinearity with power, $\pm\%$	< 1	< 1	< 1.5	< 2	< 2
Power accuracy, $\pm\%$	< 3	< 3	< 3	< 3	< 3.5
Response time, sec	< 1	< 2.5	< 3	< 3	< 3

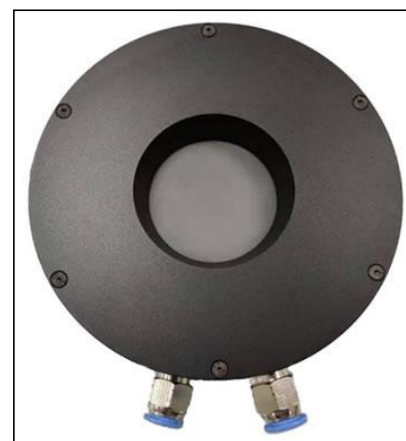
Detector type	CA	CA	CA	CA	CA
Detector aperture, mm	19	40	40	40	40
Maximum average power density	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW	20kW/cm ² , 10W, CW
Maximum energy density	0.3J/cm ² , 1064nm, 1ns	0.3J/cm ² , 1064nm, 1ns	0.3J/cm ² , 1064nm, 1ns	0.3J/cm ² , 1064nm, 1ns	0.3J/cm ² , 1064nm, 1ns
Dimensions, mm	50 × 50 × 20	85 × 85 × 20	85 × 85 × 35	Φ110 × 35	Φ136 × 40
Cooling method	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
Cooling water flow, L/min	2 - 10	2 - 10	3 - 10	3.5 - 10	4.5 - 10
Cable type	DB-9M	DB-9M	DB-9M	DB-9M	DB-9M
Cable length, m	1.5	1.5	1.5	1.5	1.5



7. 20W-5000W Laser Power Sensor

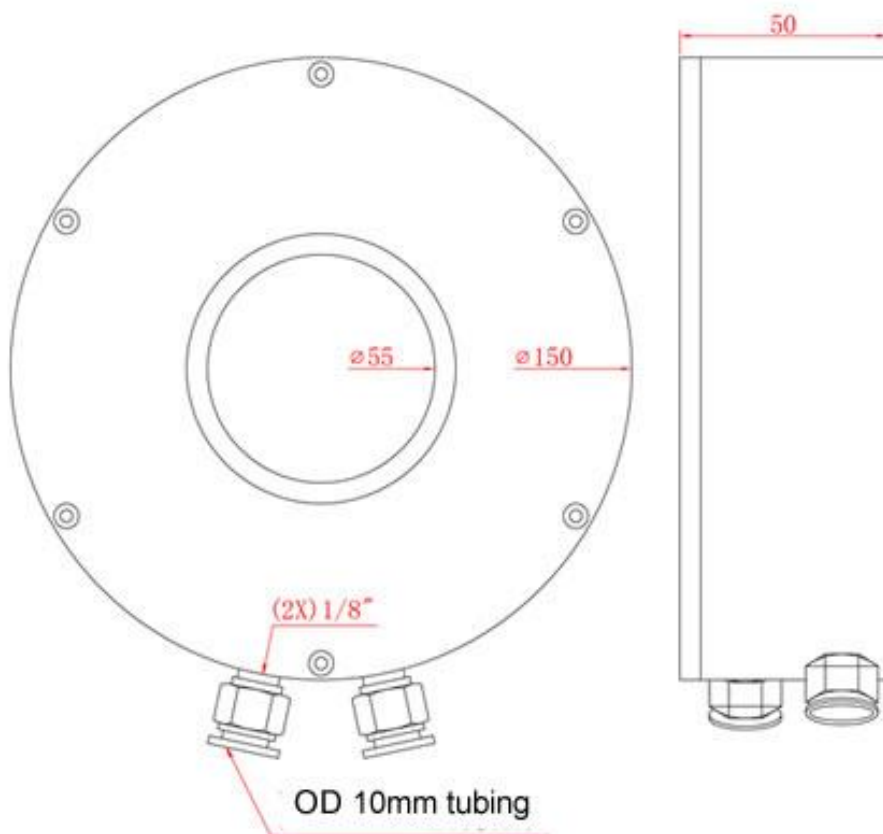
The water-cooled laser power meter probe is suitable for measuring continuous and pulsed lasers with high power density. The maximum measuring power under the water-cooled model is 5000W and has a large detection aperture of 55mm.

- Water Cooled
- 55mm Detector Aperture Size
- Spectral Wavelength or Spectral Range is Available
- Single Pulse Energy Test Function
- Connect the USB Output Interface with PC Port
- UP to 5000W



Part number	STCH-W5000-CA-55
Spectral range (μm)	0.19 - 25
Power range (W)	20 - 5000
Measurement Capability	
Resolution (W)	1
Measurement uncertainty (±%)	< 1
Nonliterary with power (±%)	< 2
Power accuracy (±%)	< 4
Response time (sec.)	< 3
Detector type	CA
Detector aperture (mm)	55

Damage threshold	
Maximum average power density	20kW/cm ² , 10W, CW
Maximum energy density	0.3J/cm ² , 1064nm, 1ns
Physical characteristics	
Dimensions (mm)	Φ150 × 50
Cooling method	Water Cooled
Cooling water flow (L/min)	5 - 10
Cable type	DB-9M
Cable length (m)	1.5



8. Universal Laser Power Display Unit

The display unit STCH-P is compatible with all laser power sensors. It is the universal meter with professional edition, has the functions of "Digital display", "Data statistics" and "Data storage", and it can be connected to a PC via USB. The user software is configured. And acquiring and exporting data can be supported.

- Measurement Accuracy $\pm 0.25\%$
- Electromagnetic Interference Shielding
- Single Pulse Energy Testing
- Statistical Function and Long-term Stability Testing
- Up to 250,000 Measurement Data Stored
- Connecting to PC Via USB, Client Software Configured, Acquiring and Exporting Data Supported



Model	STCH-P
Digital display	●
Data statistic	●
Data storage	●

Connecting to PC via USB	•
PC software	•
Data acquiring and exporting	•
Single pulse energy testing	•
Display format	Numerical, Columnar graph, Chart
Accuracy ($\pm\%$)	0.25
Display type	240(RGB) $\times$ 320 pixels , TFT-LCD
Display dimensions	65.0mm x 48.8mm(2.56" x 1.92")
ADC sampling frequency	20 Hz
AD converter	24 bit
Connector type	DB-9M
Digital interface	USB 2.0
Battery	Li-Polymer, 3.7 V, 4050 mAh
Battery life	> 40 h
Charger / DC input	5 V / 2 A
Dimensions(L x W x H)	165mm x 108mm x 25mm
Weight	< 0.25 kg
Operating temperature	0 to 40 °C
Storage temperature	-10 to 45 °C

Remarks:

- All above sensors can be used as sensors to measure laser power, also can be used as beam dumps. However, if you just need a beam dump and not measure laser power, please just buy the beam dump at lower prices. The part number of the beam dump is ended with BD at the corresponding sensor. For example, the sensor is STCH-W5000-CA-55 and the corresponding beam dump is STCH-W5000-CA-55-BD.
- A complete laser power meter may be a sensor + a display unit, or a sensor + a USB output (the USB output can be connected to PC). All the display unit can be connected to PC.
- All the accessories such as sensor supports are optional.
- We can custom-design and -make the sensors and powermeters according to your specific requirements and please contact us for more discussions.

STS Series Economic Laser Power/Energy Meters

1. Laser Power Meters

power meter STS-146



power meter STS-147



power meter STS-148



power meter STS-M92



power meter STS-M93

Model	STS-146	STS-147	STS-148	STS-M-92A	STS-M-92B	STS-M-92C	STS-M-93
Range	200W 2000W	2uW- 20W	2W-200W 2mW-200mW	0.2W- 20W	2W-50W	2W- 200W	20mW 200mW
Resolution	0.1W	1nW	1064nm:1mW 633nm:1uW	0.1mW	1mW	1mW	0.01mW
Sensor diameter	20mm			18mm	18mm	25mm	10mm
Wavelength	400-1100nm			190nm-25um			400-1100nm
Calibration @ wavelength	1064nm	633nm	1064nm 633nm	10.6um			633nm
Max power density	15kW/cm ²			350W/cm ²			
Max energy density	70J/ cm ²						
Display	3.5-digit LED						
Un-stability	5%						
Cooling	water	air				water	air
application	High-power laser	Low-power laser	Medium laser	CO2 laser			Low-power laser

Remark: A power meter consists of a display and a detector. The power meter has been calibrated at a given wavelength before shipping.

2. Laser Energy Meters



STS-M2000 series energy meter



STS-145 series energy meter

Model	STS-M2000B	STS-M2000	STS-145A	STS-145B	STS-145C
Range	2J-200J	2J-200J	200mJ-20J	2J-200J	20mJ-2J
Resolution	1mJ	1mJ	0.1mJ	1mJ	0.01mJ

Sensor diameter	11.3mm 50mm	50mm	20mm	20mm	20mm
Wavelength	190nm-25um	190nm-25um	400nm-3um	400nm-3um	400nm-3um
Calibration @ wavelength	10.6um	10.6um	1064nm, 532nm, 694nm		
Max power density	10GW/cm ²	10GW/cm ²	10GW/cm ²	10GW/cm ²	10GW/cm ²
Max energy density	70J/ cm ²	70J/ cm ²	70J/ cm ²	70J/ cm ²	70J/ cm ²
Display	3.5-digit LED				
Un-stability	5%				
Cooling	air				
Application	CO ₂ laser energy measure	Long pulse width energy measure	Pulse repetition rate 0-30Hz measure		

3. STS6321A Series Energy Meter

The advanced circuit design enables the instrument to test and store every laser pulse energy from a single shot to 1000Hz, and has the functions of 1000 data storage, playback and statistical calculation. The unique attenuation technology enables the instrument to have a strong ability to have high laser damage threshold, and can be applied to the field requiring long-time direct measurement and monitor. The intelligent function design makes the instrument suitable for more different customers. The excellent environmental adaptability design and anti-electromagnetic interference design make the instrument not only be used in the laboratory environment, but also work normally in the production site and outdoor harsh environmental conditions. The portable structure design is convenient for users to carry.



Model STS6321A-	200u-10	2m-10	20m-30	200m-30	2-30	20-30	200-30	IR-20m-10	IR-200m-30	IR-2-30
Function	Energy measurement, pulse frequency measurement, pulse numbers									
Wavelength	400nm～1100nm							800nm～1600nm		
Sensor dia.	Φ10mm		Φ30mm					Φ10mm	Φ30mm	
Calibration wavelength	532nm, 1064nm or customer's specific							1.06μm,1.57μm or specific		
Measurement range	2μJ~200μJ	20μJ~2mJ	200μJ~20mJ	2mJ~200mJ	20mJ~2J	200mJ~20J	2J~200J	20μJ~2mJ	200μJ~20mJ	2mJ~200mJ
Min. resolution	0.001μJ	0.01μJ	0.1μJ	0.001mJ	0.01mJ	0.1mJ	0.001J	0.01μJ	0.1μJ	0.001mJ
Measurement tolerance	±5%									
Frequency measurement tolerance	±1%									
Max. power density	1000MW/cm2									
Max. energy density	20J / cm2			100J / cm2				20J / cm2		100Jcm2
Laser pulse frequency	Single shot~1000Hz				Single shot ~200Hz			Single shot ~1000Hz		
Laser pulse width	10ps~50ms									
Display	TFT LCD									
Statistical	Laser energy max, min. average and square root									
Connection port	RS232 (optional)									

PMS Series Portable Laser Power Meter

Innovative Power Meter Offers Unbeatable Convenience



The measurement of laser power is quick and simple with our power meter. The hand held power meter is a low cost, lightweight alternative to bulky, two-piece thermopile power meters and probes, or traditional “meat thermometer” probes. Ideally suited for industrial, scientific, and medical applications, use it when setting up your systems, and as a service tool to ensure maximum performance of your laser system at any time.

Designed to measure power levels from 1 - 250W, the power meter measures output power from the ultraviolet to the far infrared. This makes it the perfect tool for checking the performance of your excimer, argon, diode, YAG, and CO2 lasers, to name just a few.

Automatic data hold and auto ranging make the power meter easy to use. Simply insert the sensor into the laser beam and hold in place for a few seconds. The easy-to-read LCD screen will then display an accurate measurement of average laser power. To take another reading, simply push the reset button, and the power meter is ready to go.

Part number	PMS-250
Range	1-250W
Resolution	0.1W
Wavelength range ¹	190nm – 11um
Individual calibrated wavelength ¹	10.6um
Target absorption ¹ , 190nm – 1.1um & 9-11um	0.96-0.99
Target absorption ¹ , 190nm – 1.1um	0.93-0.99
Accuracy	±5%
Target diameter	22mm
Setting time	<4second
Max. allowable input power (single application)	300W
Max. average power density ²	20kW/cm ²
Max. peak energy density ³	1J/cm ²
Max. target temperature	180°C
Typical target temp. rise per measurement	0.4°C/W
Typical battery life	5 years (25,000 readings)
Battery type	3xCR2025 lithium
Auto shut-off time	25 seconds
Data hold time	15 seconds
Size	159x30x12mm
Weight	80g

Specifications subject to change without notice.

¹ Typical absorption curve supplied with each meter

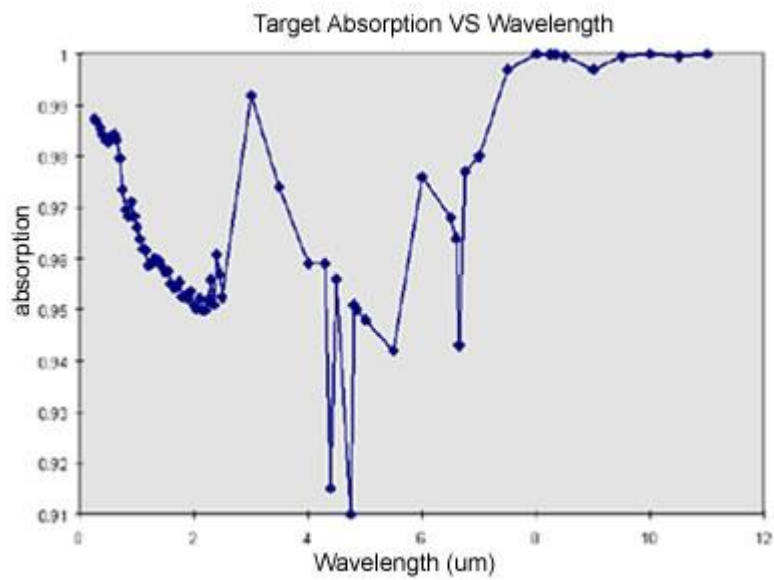
² Damage to coating may cause above this value.

³ For pulsed lasers and 50usec pulse width.

Features:

- Wavelength range: 190nm – 11um
- Pocket sized
- Highly accurate
- Instant recycle
- Easy-to-read digital display

- Automatic data hold
- Auto ranging
- Automatic shut-off
- Long life lithium battery
- Audible signals



STC Series Laser Power Meters

Laser power meter is used to measure laser power and power stability. We have designed several laser power measurement instruments with the features of accuracy testing, easy operation, etc., which could fully meet customer's practical needs of laser power and power stability measurement. They are widely used in the research, teaching, medical science, industry and other fields.



	Product	Picture	Part number	Power range	Main features
Thermopile Laser Power Meter	STC-TS series (Wide Range)		STC-TS2+TP100	2mW-2W	1. Wavelength range: 0.19 -20 μ m 2. Damage threshold: 15kW/cm ² 3. Power measurement range: 2mW-15W 4. Sensitivity diameter: 14mm 5. Minimum measuring precision: 0.1mW 6. SMA905/ FC fiber switch connector (Optional)
			STC-TS5+TP100	5mW-5W	
			STC-TS15+TP100	10mW-15W	
			STC-TS35+TP100	10mW-35W	
			STC-TS50+TP100	10mW-50W	
			STC-TS100+TP100	0.5W-100W	
	HS series (High Precision)		STC-HS1+TP100	100 μ W-1W	1. Wavelength range: 0.19 -15 μ m 2. Damage threshold: 1.5kW/cm ² 3. Power measurement range: 100 μ W-5W 4. Sensitivity diameter: 8.5mm 5. Minimum measuring precision: 0.01mW 6. SMA905/ FC fiber switch connector (Optional)
			STC-HS5+TP100	500 μ W-5W	
	USB series (multi- channel)		STC-TS2/ TS5/ TS15-USB STC-TS35/ TS50-USB STC-TS100-USB STC-HS1/ HS5-USB	100 μ W-100W	1. Wavelength range: 0.19 -25 μ m 2. Power range: 1 μ W-200W 3. Single channel/ multiple channel power measurement 4. PC upper computer software display measurement 5. RS232, RS422 or other communication interface can be customized
			STC-PD100-350-USB STC-PD1000-350-USB STC-PD100-350T-USB STC-PD1000-350T-USB STC-PD20-200-USB STC-PD1000-200-USB STC-PD20-200T-USB STC-PD1000-200T-USB PD3000-350-USB	1nW-100mW 1nW-1W 1nW-100mW 1nW-1W 1nW-20mW 1nW-1W 1nW-20mW 1nW-1W 1uW-3W	

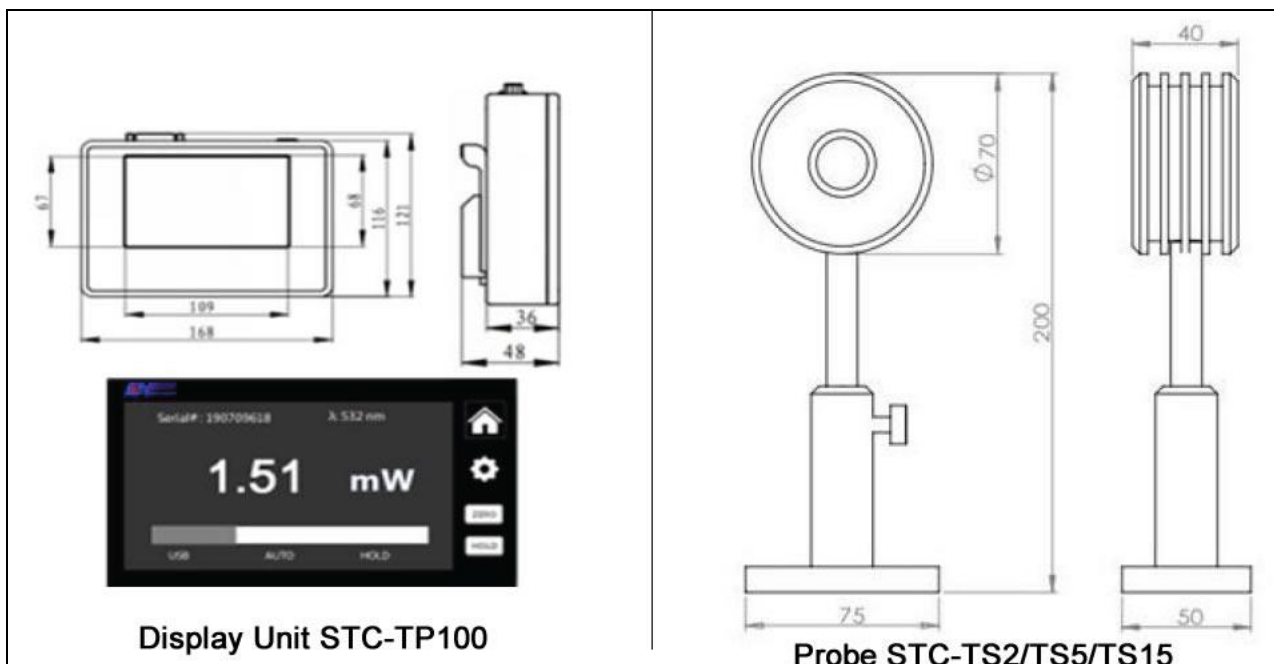
	Hand-held series	 New!	STC-HP2 STC-HP5	10mW-2W; 0.5-50W	1.Wavelength range: 0.19-25μm 2.Damage threshold: 40kW/cm ² 3.Powe measurement range: 10mW-50W 4.Sensitivity dia.: 22mm
Photoelectric Laser Power Meter	PS100 series (High Precision)		STC-PS100	2nW-100mW	1. Wavelength range: 320-1100nm 2. High precision: ±2% 3. Resolution: 2nW 4. Minimum measuring precision: 0.001nW

1. STC-TS+TP100 Series Laser Power Meter (2mW-15W)

Wavelength range: 0.19 -20μm
 Damage threshold: 15kW/cm²
 Power measurement range: 2mW-15W
 Sensitivity diameter: 14mm
 Minimum measuring precision: 0.1mW
 SMA905/FC fiber switch connector (Optional)



Part number	STC-TS2+TP100	STC-TS5+TP100	STC-TS15+TP100
Display Unit Model	STC-TP100	STC-TP100	STC-TP100
Probe Model	STC-TS2	STC-TS5	STC-TS15
Power Range	2 mW - 2 W	5 mW - 5 W	10 mW - 15 W
Sensitive Diameter	14 mm	14 mm	14 mm
Continuous Measurement Time (<5W)	Unlimited (<2W)	Unlimited	Unlimited
Continuous Measurement Time (5-15W)	/	/	≤8 min
Probe Coating Film	Broadband coating		
Probe Material	Thermopile		
Wavelength Range	0.19-20 μm		
Max. Average Power Density	15 kW/cm ²		
Sensitivity	2 mW	5 mW	10 mW
Calibration Uncertainty (k=2)	±2%		
Response Time (0-90%)	<1 sec.		
Linearity	±1%		
Power Supply	18650 (2 batteries)		
Overall Weight	1.454 kg		
Cooling Method	Air cooling		
Computer Interface	USB 1.1 and USB 2.0		
Instrument Power	100-240 VAC, 50/60 Hz, DC 12V-3.34A		
Temperature (Operating)	5°C - 45°C (41°F - 113°F)		
Temperature (Storage)	-20°C - 70°C (-4°F - 158°F)		



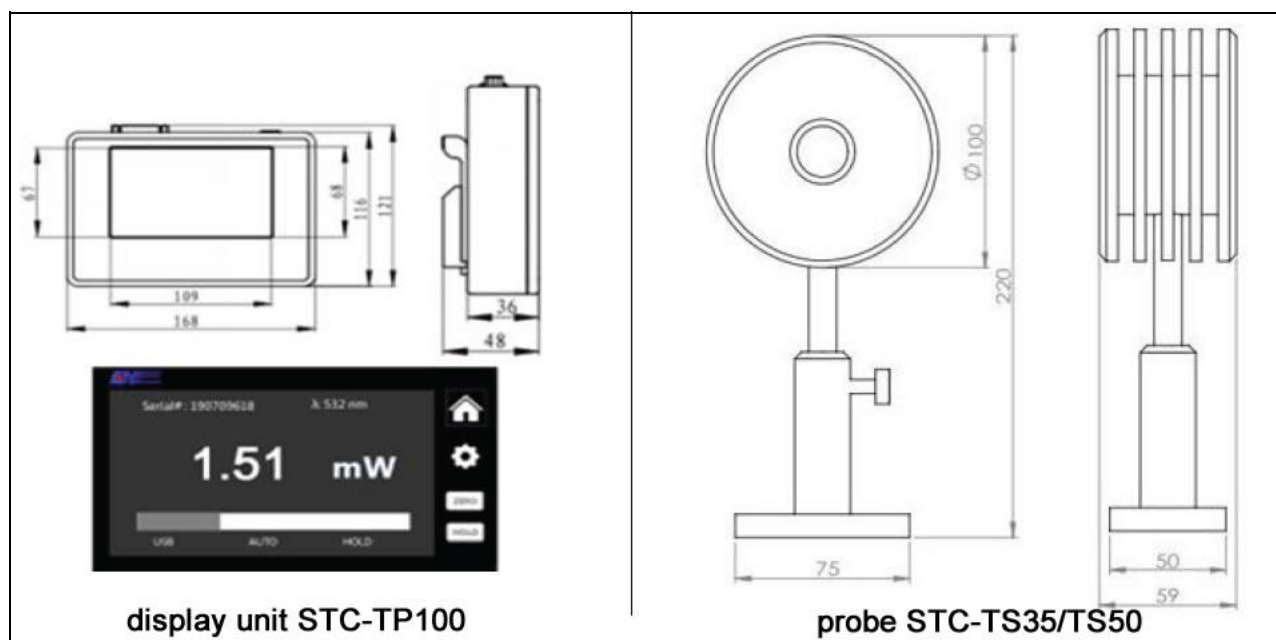
2. STC-TS+TP100 Series Laser Power Meter (10mW-50W)

Wavelength range: 0.19 -25 μ m
 Damage threshold: 40kW/cm²
 Power measurement range: 10mW-50W
 Sensitivity diameter: 22mm
 Minimum measuring precision: 0.001W
 SMA905/FC fiber switch connector (Optional)



Part Number	STC-TS35+TP100	STC-TS50+TP100
Display Unit Model	STC-TP100	STC-TP100
Probe Model	STC-TS35	STC-TS50
Power Range	10 mW - 35 W	10 mW - 50 W
Sensitive Diameter	22 mm	22 mm
Continuous Measurement Time (<10 W)	Unlimited	Unlimited
Continuous Measurement Time (10-50W)	≤5 min (10-35W)	≤5 min (10-50W)
Probe Coating Film	Broadband coating	
Probe Material	Thermopile	
Wavelength Range	0.19-25 μ m	
Max. Average Power Density	40 kW/cm ²	
Sensitivity	10 mW	
Calibration Uncertainty (k=2)	±2%	
Response Time (0-90%)	<1 sec.	
Linearity	±1%	
Power Supply	18650 (2 batteries)	
Overall Weight	1.926 kg	
Cooling Method	Air cooling	
Computer Interface	USB 1.1 and USB 2.0	
Instrument Power	100-240 VAC, 50/60 Hz, DC 12V-3.34A	

Temperature (Operating)	5°C - 45°C (41°F - 113°F)
Temperature (Storage)	-20°C - 70°C (-4°F - 158°F)



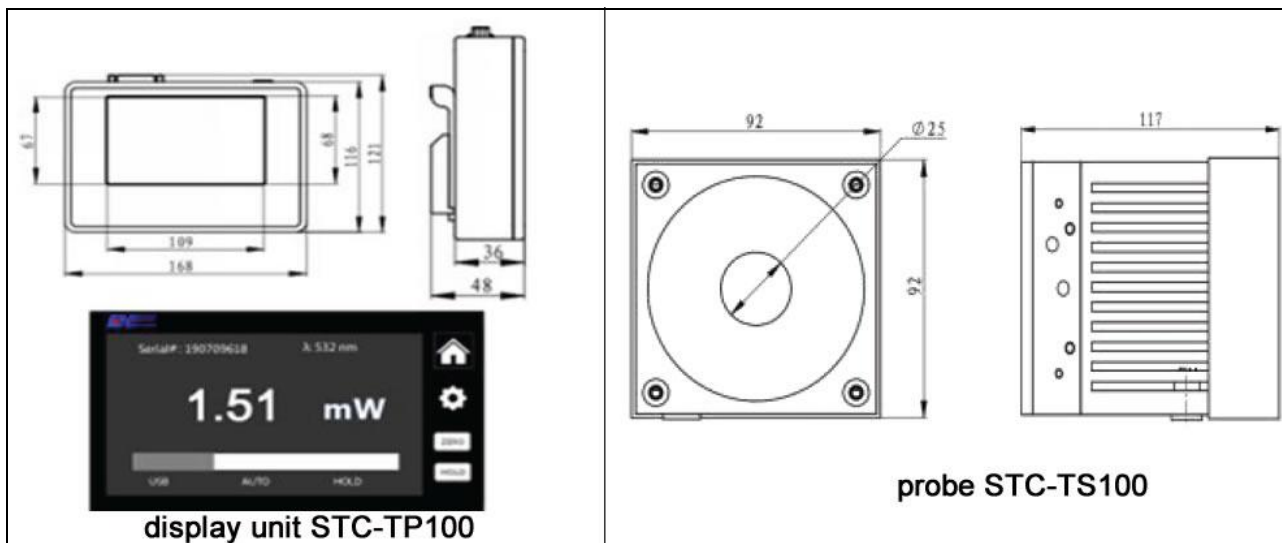
3. STC-TS+TP100 Series Laser Power Meter (0.5W-100W)

Wavelength range: 0.19 -20 μ m
 Damage threshold: 45kW/cm²
 Power measurement range: 0.5W-100W
 Sensitivity diameter: 25mm
 Minimum measuring precision: 0.001W



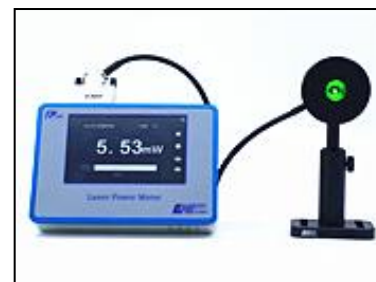
Part Number	STC-TS100+TP100
Display Unit Model	STC-TP100
Probe Model	STC-TS100
Power Range	0.5 W - 100 W
Sensitive Diameter	25 mm
Continuous Measurement Time (<80 W)	2 h
Continuous Measurement Time (80-100 W)	≤8 min
Probe Coating Film	Broadband coating
Probe Material	Thermopile
Wavelength Range	0.19-20 μ m
Max. Average Power Density	45 kW/cm ²
Sensitivity	0.1 W
Calibration Uncertainty (k=2)	±2%
Response Time (0-90%)	<7 sec.
Linearity	±1%
Power Supply	18650 (2 batteries)
Cooling Method	Fan cooling
Computer Interface	USB 1.1 and USB 2.0

Instrument Power	100-240 VAC, 50/60 Hz, DC 12V-3.34A
Temperature (Operating)	5°C - 45°C (41°F - 113°F)
Temperature (Storage)	-20°C - 70°C (-4°F - 158°F)



4. STC-HS+TP100 Series Laser Power Meter (100uW-5W)

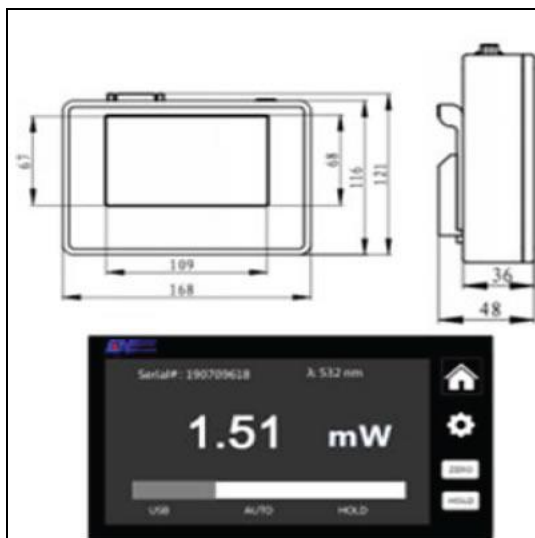
Wavelength range: 0.19 -15μm
 Damage threshold: 1.5kW/cm²
 Power measurement range: 100μW-5W
 Sensitivity diameter: 8.5mm
 Minimum measuring precision: 0.01mW
 SMA905 fiber switch connector (Optional)



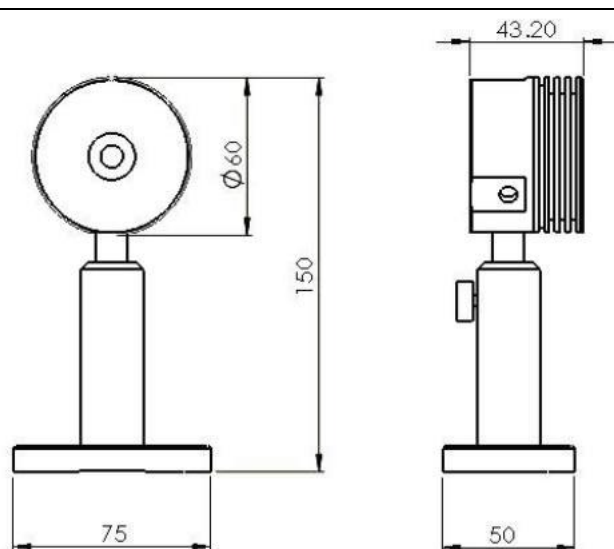
Part Number	STC-HS1+TP100	STC-HS5+TP100
Display Unit Model	STC-TP100	STC-TP100
Probe Model	STC-HS1	STC-HS5
Power Range	100μW - 1 W	500μW - 5 W
Sensitive Diameter	8.5 mm	8.5 mm
Probe Coating Film	Broadband coating	
Probe Material	Thermopile	
Wavelength Range	0.19-15 μm	
Max. Average Power Density	1.5 kW/cm ²	
Sensitivity	100μW	500μW
Calibration Uncertainty (k=2)	±2%	
Response Time (0-90%)	<1 sec.	
Linearity	±0.5%	
Power Supply	18650 (2 batteries)	
Overall Weight	1.434 kg	
Cooling Method	Air cooling	
Computer Interface	USB 1.1 and USB 2.0	
Instrument Power	100-240 VAC, 50/60 Hz, DC 12V-3.34A	
Temperature (Operating)	5°C - 45°C (41°F - 113°F)	

Temperature (Storage)

-20°C - 70°C (-4°F - 158°F)



display unit STC-TP100



probe STC-HS1/HS5

5. STC-TS-USB Series Laser Power Meter (2mW-15W)

Wavelength range: 0.19 -20μm

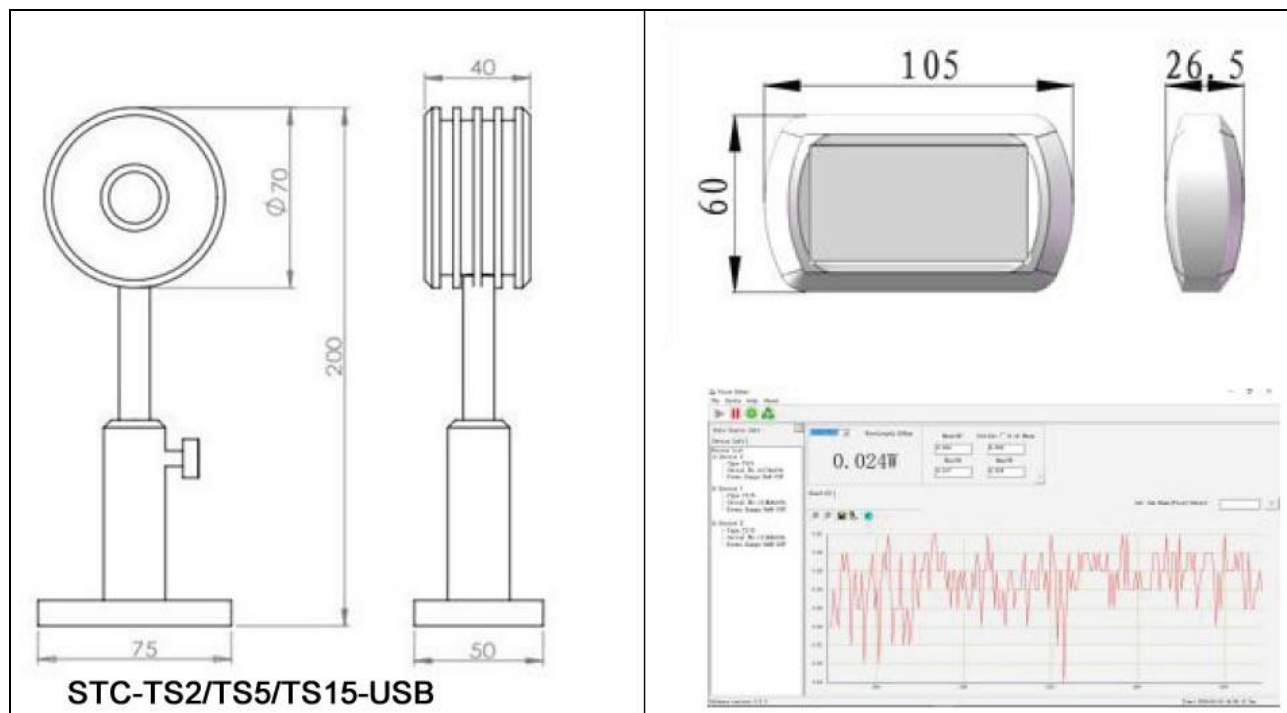
Power measurement range: 2mW-15W

Single channel/ multi-channel power measurement

PC upper computer software display measurement



Part Number	STC-TS2-USB	STC-TS5-USB	STC-TS15-USB
Power Range	2 mW - 2 W	5 mW - 5 W	10 mW - 15 W
Sensitive Diameter	14 mm	14 mm	14 mm
Continuous Measurement Time (<5W)	Unlimited (<2W)	Unlimited	Unlimited
Continuous Measurement Time (5-15W)	/	/	≤8 min
Probe Coating Film	Broadband coating		
Probe Material	Thermopile		
Wavelength Range	0.19-20 μm		
Max. Average Power Density	15 kW/cm ²		
Sensitivity	2 mW	5 mW	10 mW
Calibration Uncertainty (k=2)	±2%		
Response Time (0-90%)	<1 sec.		
Linearity	±1%		
Cooling Method	Air cooling		
Computer Interface	USB 1.1 and USB 2.0		
Temperature (Operating)	5°C - 45°C (41°F - 113°F)		
Temperature (Storage)	-20°C - 70°C (-4°F - 158°F)		



6. STC-TS-USB Series Laser Power Meter (10mW-50W)

Wavelength range: 0.19 -25 μ m

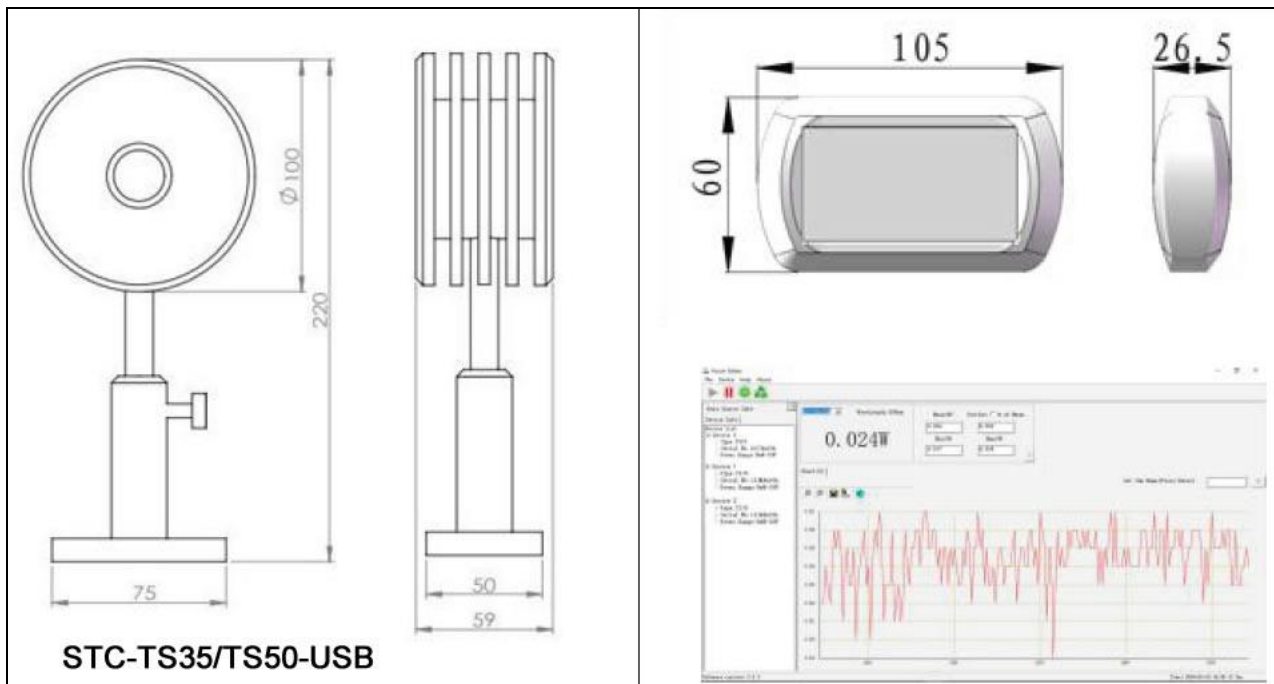
Power measurement range: 10mW-50W

Single channel/ multi-channel power measurement

PC upper computer software display measurement



Part Number	STC-TS35-USB	STC-TS50-USB
Power Range	10 mW - 35 W	10 mW - 50 W
Sensitive Diameter	22 mm	22 mm
Continuous Measurement Time (<10 W)	Unlimited	Unlimited
Continuous Measurement Time (10-50W)	≤5 min (10-35W)	≤5 min (10-50W)
Probe Coating Film	Broadband coating	
Probe Material	Thermopile	
Wavelength Range	0.19-25 μ m	
Max. Average Power Density	40 kW/cm ²	
Sensitivity	10 mW	
Calibration Uncertainty (k=2)	±2%	
Response Time (0-90%)	<1 sec.	
Linearity	±1%	
Cooling Method	Air cooling	
Computer Interface	USB 1.1 and USB 2.0	
Temperature (Operating)	5°C - 45°C (41°F - 113°F)	
Temperature (Storage)	-20°C - 70°C (-4°F - 158°F)	



7. STC-TS-USB Series Laser Power Meter (0.5W-100W)

Wavelength range: 0.19 -20 μ m

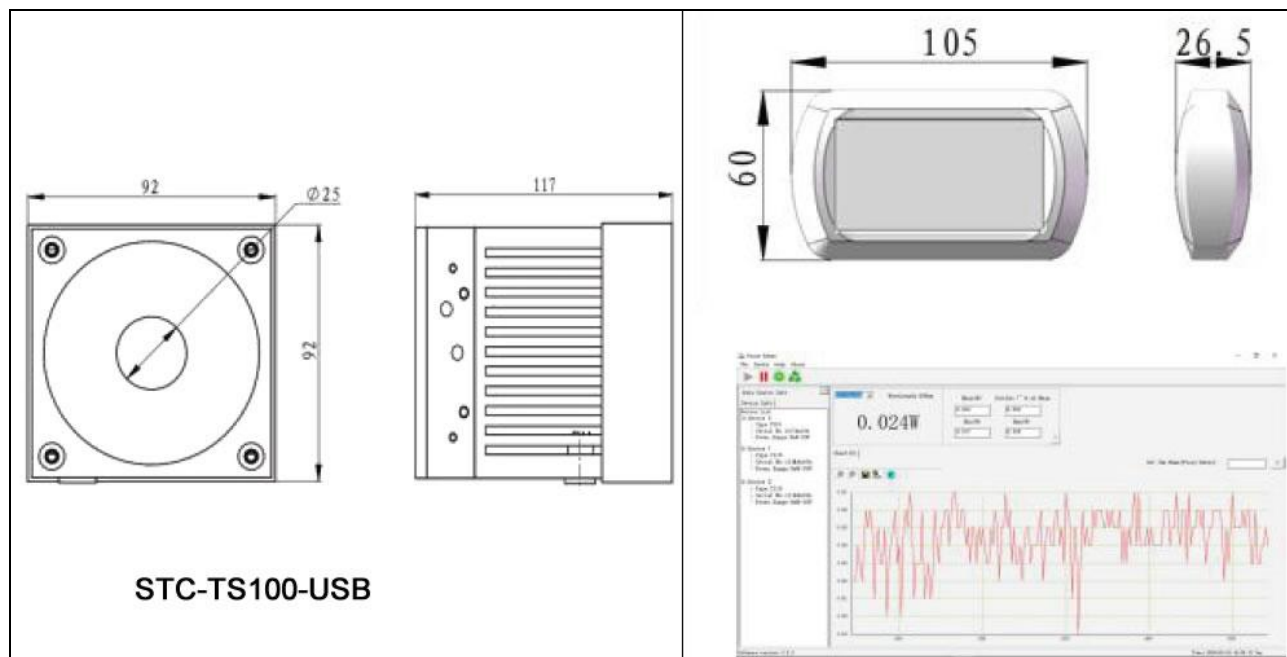
Power measurement range: 0.5W-100W

Single channel/ multi-channel power measurement

PC upper computer software display measurement



Part Number	STC-TS100-USB
Power Range	0.5 W - 100 W
Sensitive Diameter	25 mm
Continuous Measurement Time (<80 W)	2 h
Continuous Measurement Time (80-100 W)	≤8 min
Probe Coating Film	Broadband coating
Probe Material	Thermopile
Wavelength Range	0.19-20 μ m
Max. Average Power Density	45 kW/cm ²
Sensitivity	0.1 W
Calibration Uncertainty (k=2)	±2%
Response Time (0-90%)	<7 sec.
Linearity	±1%
Cooling Method	Fan cooling
Computer Interface	USB 1.1 and USB 2.0
Temperature (Operating)	5°C - 45°C (41°F - 113°F)
Temperature (Storage)	-20°C - 70°C (-4°F - 158°F)



8. STC-HS-USB Series Laser Power Meter (100uW-5W)

Wavelength range: 0.19 -15 μ m

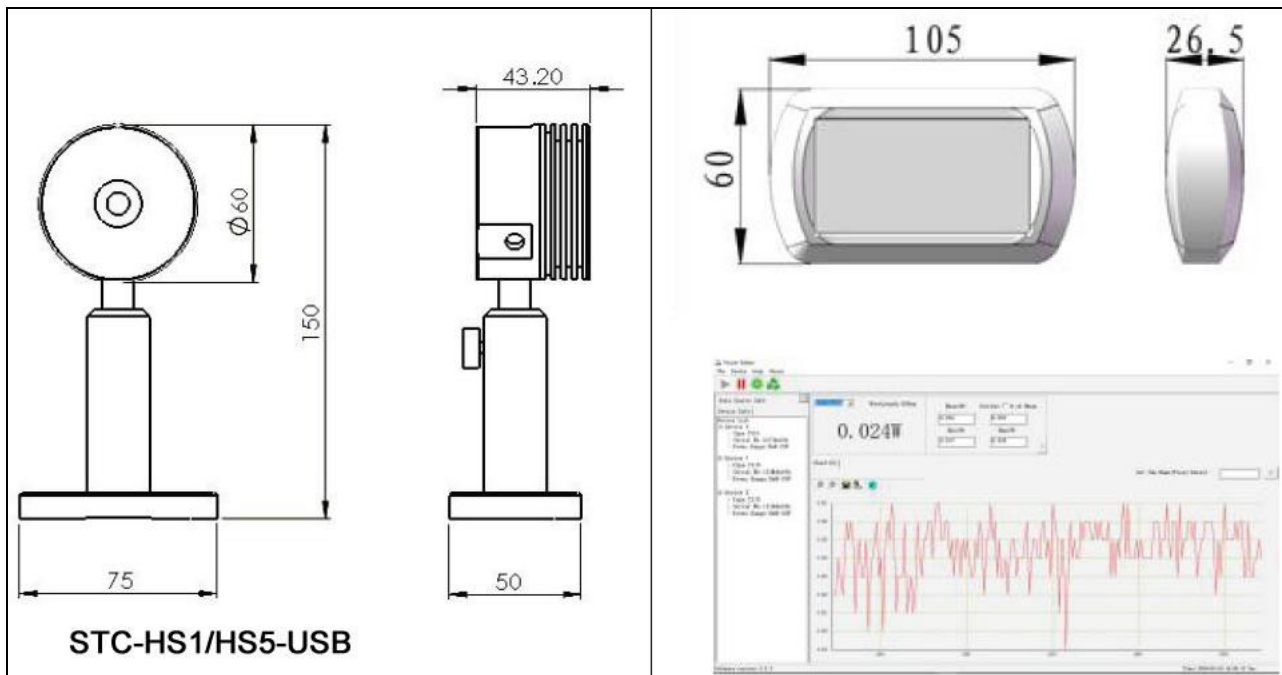
Power measurement range: 100 μ W-5W

Single channel/ multi-channel power measurement

PC upper computer software display measurement



Part Number	STC-HS1-USB	STC-HS5-USB
Probe Model	STC-HS1-USB	STC-HS5-USB
Power Range	100 μ W - 1 W	500 μ W - 5 W
Sensitive Diameter	8.5 mm	8.5 mm
Probe Coating Film	Broadband coating	
Probe Material	Thermopile	
Wavelength Range	0.19-15 μ m	
Max. Average Power Density	1.5 kW/cm ²	
Sensitivity	100 μ W	500 μ W
Calibration Uncertainty (k=2)	$\pm 2\%$	
Response Time (0-90%)	<1 sec.	
Linearity	$\pm 0.5\%$	
Cooling Method	Air cooling	
Computer Interface	USB 1.1 and USB 2.0	
Temperature (Operating)	5°C - 45°C (41°F - 113°F)	
Temperature (Storage)	-20°C - 70°C (-4°F - 158°F)	



9. STC-PS100 High Precision Photoelectric Laser Power Meter

Wavelength range: 320-1100 nm

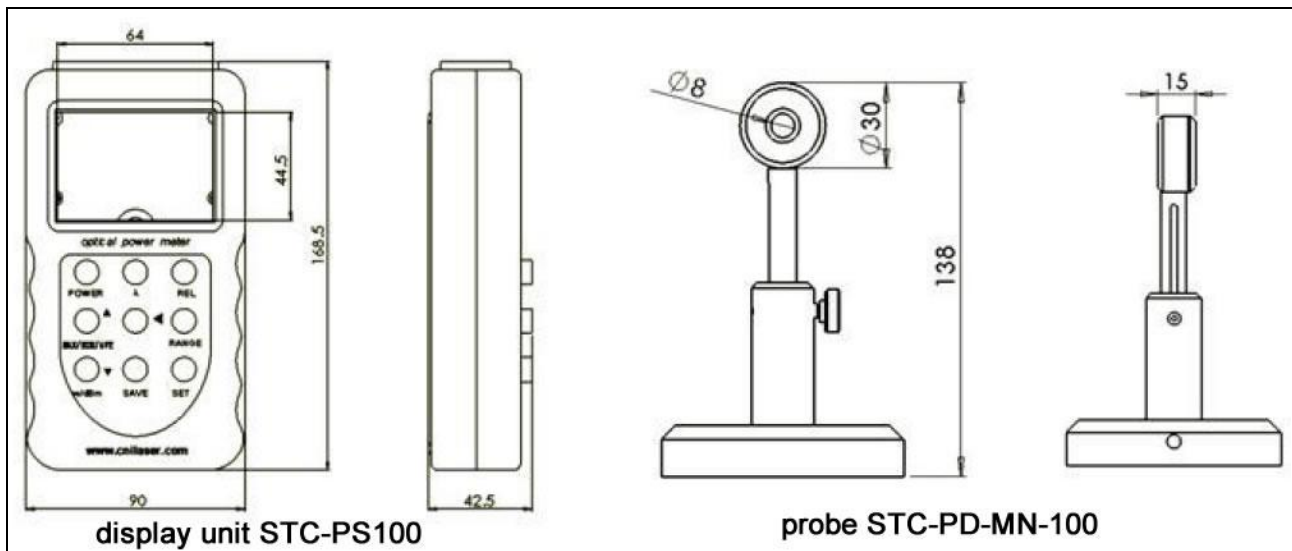
High precision: $\pm 2\%$

Resolution: 2nW

Minimum measuring precision: 0.001nW



Part Number	STC-PS100
Detector Model	PD-MN-100
Power Range	2nW -100mW
Active Area Diameter	8mm
Receiving Element	Si Photo diode
Wavelength Range	320-1100 nm
Measurement Display	nW/ μ W/ mW/ dBm/ dB
Calibration Uncertainty (k=2)	$\pm 2\%$
Response Time (0-90%)	0.2sec.
Total Weight	0.8kg
Instrument Power	100-240 VAC, 50/60 Hz, DC 9V-1.4A
Temperature (Operating)	5°C-45°C (41°F-113°F)
Temperature (Storage)	-20°C-70°C (-4°F-158°F)



10. Hand-held Laser Power Meter



Features:

Wavelength range: 0.19 -25 μ m
 Power range: 10mW-2W, 0.5-50W
 Active area diameter: 22mm

Model	STC-HP2	STC-HP50
Power Range	10mW - 2 W	0.5W - 50 W
Active Area Diameter	22 mm	22 mm
Wavelength Range	0.19-25 μ m	0.19-25 μ m
Max. Average Power Density	15 kW/cm ²	40 kW/cm ²
Uncertainty (k=2)	±2%	±2%
Linearity	±1%	±1%
Cooling Method	Air cooling	Air cooling
Temperature (Operating)	5°C - 45°C (41°F - 113°F)	5°C - 45°C (41°F - 113°F)
Temperature (Storage)	-20°C - 70°C (-4°F - 158°F)	-20°C - 70°C (-4°F - 158°F)

