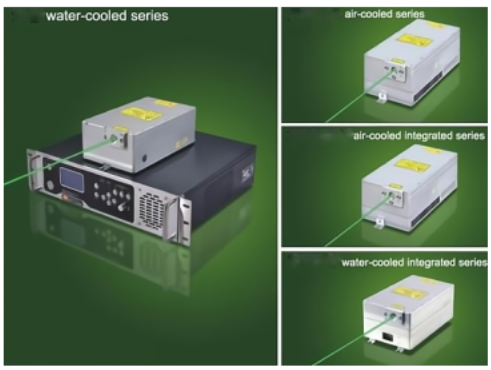
# 532 Green Laser-10W




## The product description

Covers 5w/10w in laser power with short pulse width (<14ns@30K) ,superior beam quality ($M^2$<1.2) and perfect laser spot quality (beam circularity >90%). It is particularly suitable for drilling and scribing in ceramics, marking, cutting and drilling in glass & wafer and surface treatment in most of the metal and non-metal materials.

## Characteristics of laser

1. 532nm output wavelength, 10 to 200 Hz repetition rate; laser power is 5w/10W; Continuous tuning of repetition rate while maintaining constant pulse energy, superior beam pointing and energy stability make the Excellent first choice for micromachining, marking and thin film removal applications

2. Exceptional beam quality ($M^2$ <1.2) ， absolutely assured in all repetition rates; relatively short pulse width <14ns@30K with little heat transfer to surrounding material; perfect beam spot quality(Beam Circularity>90%) Close to Gaussian smooth beam profile with low value $M^2$ < 1.2 and good focusability are beneficial for applications such as

3. Unique Q-switching technology, adapts a variety of control requirements of laser applications;Online refreshment for harmonic coupling technology;Excellent long term power stability Rugged sealed cavity, Extremely compact size, Simple and robust

4. Digital control technology for the driver, RS232 control interface ensures easy control and integration with laser marking equipment

5. This laser adopts one - style design with compact and reasonable structure, easy installation.
Easy to transport and saves space due to compact and light design
Water cooling，cost-effective and reliable end-pumping technology and amplifier-free DPSS design guarantee easy operation and alignment simple installation and low maintenance costs

6.Industrial production process control technology,provides quality stable products.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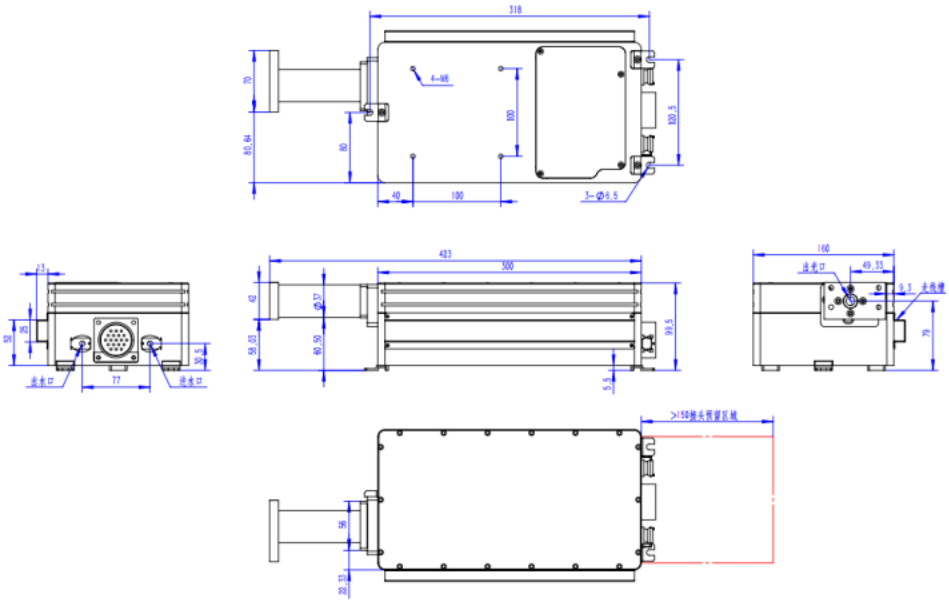
# Technical indicators

| Model No. | GT-R532-10W | |
|---|---|---|
| Laser wavelength,nm | 532 | instructions |
| Average Output Power,W | >10 | @30kHz |
| Pulse Width,ns | <10 | @30kHz |
| Pulse Repetition Rate,kHz | 20-200 | |
| Spatial Mode | TEMoo | |
| (M2) | <1.2 | |
| Beam Diameter,mm | 0.8±0.1 | Measured at window |
| Beam Full Divergence Angle,mrad | <1.2 | |
| Beam Circularity,% | >90 | |
| Pulse-to-Pulse Stability,% | <2 | RMS/@30kHz |
| Average Power Stability,% | <5 | RMS/8hr |
| Beam-Pointing Drift,μrad/℃ | <30 | |
| Polarization Ratio | >100:1 | |
| Polarization Orientation | Vertical | |
| Operating Temp. & RH | 10 to 30℃ | |
| | <80% | |
| Storage Temp. & RH | -20 to 65℃ | |
| | <90% | |
| Electricity Requirement | 100-240 VAC | Single phase |
| | 50/60Hz | |
| Power Consumption | <500W | |

# Structure size

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Full-digital display, supporting communication with computer, capable of laser’s remote control



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