

Green Laser Series



Description

RMI Laser's Green Laser Marker Series is designed to mark highly reflective materials or highly sensitive substrates like silicon wafers with ease and precision. They operate in the visible light spectrum at 532 nm (Green). The Green Laser Series is available in 5 watts with an industry leading complete 3 year warranty.

The green laser marker is perfect for softer plastics, PCB Boards, IC Chips and for scribing or marking of Solar Cells of various material compositions. RMI Laser was one of the pioneers of green laser marker technology, and we've used that experience to develop a green laser that meets the special needs of semiconductor and solar marking applications.

Benefits

- Best Priced "Green" Laser Marker on the Market
- Low Thermal Transfer for Sensitive Substrates
- Micro Marking Capabilities (< 1 mm Text or Coding & 10 um spot size)
- Ideal for Marking Semiconductor Components

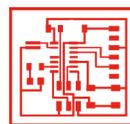
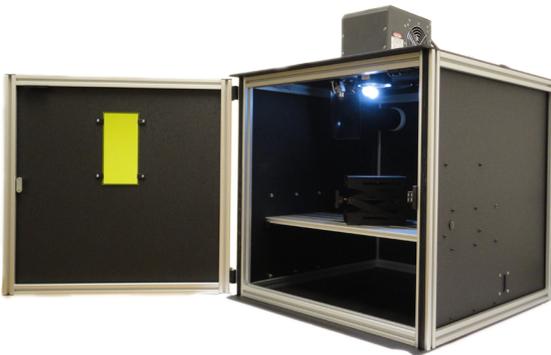
Laser Marker Head



Controller



Class I Workstation



Specialty

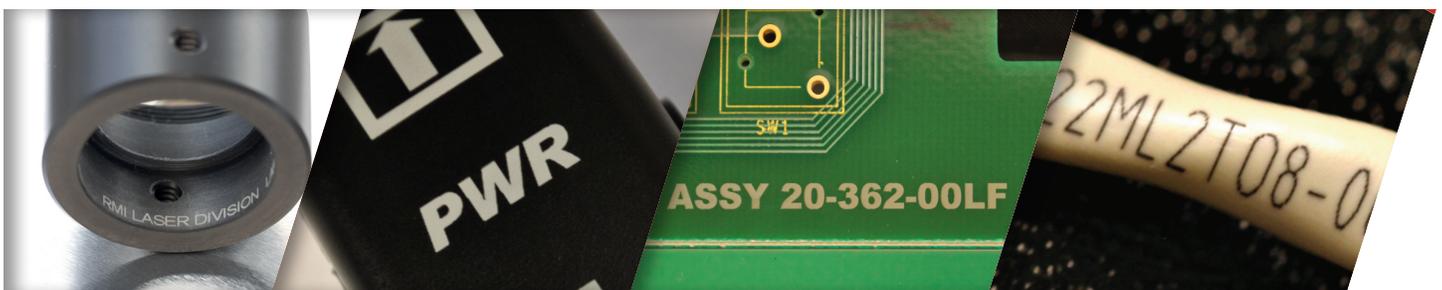
The inherent advantages of the 532 nm wavelength are greater absorption across a wider range of materials, along with mitigated thermal energy allowing it to mark substrates that 1064 nm Near-IR lasers simply cannot.



Plug and Play

With our Class I Enclosures and professional installation, setting up your RMI Laser is simple and easy. Experience out-of-the-box and marking in less than an hour!

Marking Samples



Green Laser Marking System

| | U-5G |
|---|---|
| Laser Source Built-in | Diode Pumped Nd:YVO4 |
| Wavelength | 532 nm |
| Laser Source Output | 6 W |
| Peak Power | 30 kW |
| Pulse width | ~14 ns @ 10 kHz |
| 100mm F-Theta Lens: Beam Spot Diameter Max Marking Area | ~20 µm 2.56 x 2.56" 65 x 65 mm |
| 165mm F-Theta Lens: Beam Spot Diameter Max Marking Area | ~30 µm 4.13 x 4.13" 105 x 105 mm |
| 254mm F-Theta Lens: Beam Spot Diameter Max Marking Area | ~40 µm 5.91 x 5.91" 150 x 150 mm |
| 330 mm F-Theta Lens: Beam Spot Diameter Max Marking Area | |
| 420 mm F-Theta Lens: Beam Spot Diameter Max Marking Area | |
| Lenses available (focal length) | 100, 165, 254 mm |
| Cooling System | Air-cooled |
| Operational Temp Range* | ~10 - 40 °C (~ 50 – 104 °F) |
| Operational Humidity Range* | 80% non-condensing |
| Weight | 6.5 kg (14.33 lbs) |
| Dimensions LxWxH** | 229 x 142 x 163 mm (9.0 x 5.6 x 6.41 in.) |

Green Laser Configuration Options

- Available with 100 mm, 165 mm, 254 mm F-Theta Lenses
- Class IV or Class I Configurations
- Plug and Play Rotary Chuck Adaptation
- Custom Optics: Add a Waveplate, Change the Beam Expander, or 60 mm F-Theta Lens



Class IV Setup