

UG Series Green Laser Marking Systems

Green Laser Marking System delivers Fast, Clean, Permanent Marking of Materials that are Hard or Impossible to Mark with Regular Laser Marking Systems



Gold Jewelry



Key Chains



Engraved Lighters

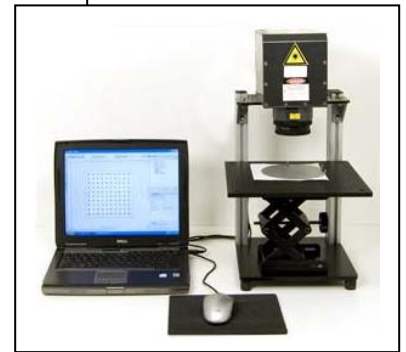


Silver Pendants

APPLICATIONS

Green Laser
Marking System

UG.2 & UG.5



Our green laser marking system delivers fast clean permanent marking of materials that are hard or impossible to mark with regular laser marking systems. This includes highly reflective metals: silver and gold; semiconductors: including silicon, gallium arsenide and germanium, and rubbers such as silicone.

Marking

Green Laser Marker is excellent for marking highly reflective metals, silicon, and soft plastics. This compact, turnkey marking system is efficient, reliable, and easily integrated into manufacturing and production operations.

- Powerful Intuitive Software
- Batch Part Processing
- Fixturing Kits
- Class I Enclosures
- Fits Your Workflow

Productivity

- 3 Year Warranty
- No Maintenance
- Space Saving Design

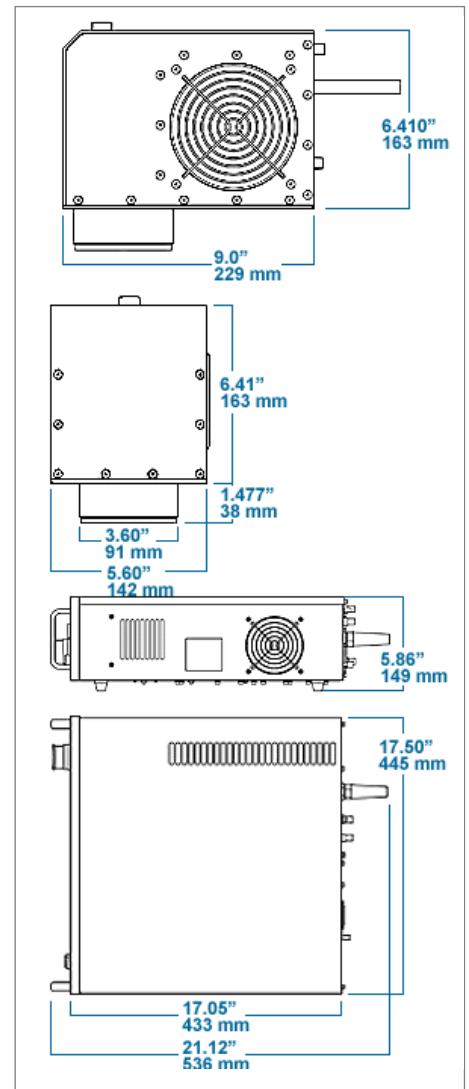
Materials

- Silicon
- Metals - Especially Highly Reflective
- Plastics - Especially Soft Plastics
- Graphite
- Carbide
- Ceramics
- Composites

Our Laser's High Power Density and Extremely Fast Pulse rate allow Precision Marking without heating the surrounding Part. Great for Marking sensitive Electronics or Munitions.

Marker Head	
Laser Source Built-in	Diode Pumped Nd:YVO ₄
Wavelength	532nm
Laser Source Output	2, 5 W @ 35 kHz, average power
Peak Power	Up to 20 kW
Q-switch pulse width	~14 ns @ 10kHz
100mm F-Theta Lens:	
Beam Spot Diameter	~20 μm
Max Marking Area	2.36 x 2.36" 60 x 60mm
163mm F-Theta Lens	
Beam Spot Diameter	~30 μm
Max Marking Area	3.94 x 3.94" 100 x 100mm
254mm F-Theta Lens:	
Beam Spot Diameter	~40 μm
Max Marking Area	5.91 x 5.91" 150 x 150mm
Optional Lenses (focal length)	100, 163, 254 mm
Cooling System	Thermoelectric/ Air
Operational Temp Range*	~ 50–95° F ~10-35° C
Operational Humidity Range*	80% non-condensing
Weight	14.33 lbs 6.5kg
Dimensions LxWxH**	9.0 x 5.6 x 6.41" 229 x 142 x 163 mm

Controller	
Operational Temp Range	~ 50° – 95° F ~10-35° C
Operational Humidity Range*	80% non-condensing
Power Source	AC 100 - 240V 6A, 50/60Hz
Consumption Power	<500 W nominal



COMPARISON CHART OF LASER MARKING TECHNOLOGIES

SPECIFICATIONS	Nd:YVO ₄ (U-10,U-15)	Nd:YVO ₄ (U-5G)	CO ₂	Nd:YAG (Flash-lamp)	Nd:YAG (Diode-pumped)
Wavelength	1064nm	532nm	10.6μm	1064nm	1064nm
Power (W)	10,15	6	10 - 100	50 ~ 100+	3 ~ 20+
Marking Spot (micron)	30-70	20-40	300	50-100	50-100
Resolution DPI(Dots Per Inch)	846	1,270	84	508-254	508-254
Energy Efficiency	High	High	Medium	Low	Medium
Cooling Efficiency	High	High	Medium	Low	High
Peak Power	High	High	Low	High	High
Operating Cost	Very Low	Very Low	Medium	High	Low
Maintenance Intervals(hrs)	30,000+	30,000+	< 5,000	300 -1,000	10,000+

APPLICATIONS

Metals	•	•		•	•
Metals (High Reflectivity)	•	•			
Silicon		•			
Plastic	•	•		•	•
Composites	•	•			
Ceramics	•	•		•	
Rubber	•	•	•	•	•
Wood/Paper			•		
Glass		•	•		
Leather	•	•	•		

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* Units stated at maximum output parameters without F-Theta lens.

** Allow a minimum of 2" (5 cm) of open space around the Marker Head and Controller for a free air circulation. Additionally, ensure at least 4" (10 cm) of open space at the rear of the controller and marker head for cable attachment and maintenance access.