

CA Optronics Group, Inc. CA6053 Laser Marking System

Technical Specifications Ver 1.01
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CA6053 Laser Marking System

The CA Optronics Group, Inc. CA6053 is an end-pumped YAG all solid-state air-cooled laser marking system. It has the features of high peak power with a 10 ns pulse duration, compact dimensions and high fine precise marking lines, allowing the marking system to have similar performance to fiber laser systems and leading to wide variety of laser marking applications (e.g., diamond, metal, steel, IC, plastics, package, logo).

The marking system has a high power but invisible infrared laser beam, thus an additional visible lower power guide laser is integrated in the system by coaxially superimposing the guide beam on the marking infrared beam to readily provide navigation for the marking laser beam. With the visible guide light, it is convenient for users to know where the marking laser beam aims at, and to adjust the operation parameters for achieving excellent performance.

Features:

- High peak power
- Short pulse duration
- High fine precise marking lines
- Air-cooled and compact structure
- Stable performance
- Easy to use with user friendly operation interface
- High compatible software

Applications:

- Metals and metal oxides
- Integrated circuits (IC)
- Diamonds
- ABS materials (e.g., electrical appliances shell)
- Inks (e.g., translucent keys, printing products)
- Epoxy resins (e.g., electronic components, packaging, insulation layer)

CA6053 Specifications

Model#	CA6053
Laser wavelength	1064 nm
Laser peak power	~30 kW
Pulse width	10 ns
Repetition frequency	~10 kHz
Workable marking area *	70 mm x70 mm / 110 mm x110 mm
Marking depth	≤0.5 mm
Maximum marking line speed	7000 mm/s
Minimum marking line width	≤0.02 mm
Power consumption	≤0.3 kW
Power requirement	110/220 (VAC/50Hz)
Dimensions	500 mm x 400 mm x 504 mm
Laser guide light	<5mW@635nm

*Note: the workable marking area can be greater when customers have special request.

Marking Examples:



Precious metal



Steel



Aluminum oxide



Brass



Plastics



Plastics

CA Optronics Group,Inc.'s Supports, Services and Assistance

CA Optronics Group,Inc. provides high performance, high value, affordable instrument solutions for our customers. Our extensive support sources can help you choose right CA Optronics Group,Inc.'s products for your specific applications and apply them successfully. Every instrument /system we sell has a global warranty. All of our instruments are with at least 18 months factory warranty.

Our Promises

All of CA Optronics Group,Inc.'s instruments and systems meet their advertised performance and functionality. When you select a CA Optronics Group,Inc.' product, we can help your product operation with our extensive experiences, and provide the basic measurement assistance for the use of special capabilities.

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