

ClearMark™ Series

Performance. Quality. Reliability.



The ClearMark™ product series from Claire Lasers offers an unsurpassed combination of performance, quality and reliability. Our powerful ClearMark™ software runs on standard Windows platform. It has an intuitive graphical interface, enabling a fast learning curve for new and experienced operators. The intuitive and flexible user interface enables the rapid development of a wide range of applications easily.

The ClearMark™ product series from Claire Lasers is the most powerful equipment in the product space of pulsed laser marking and engraving, delivered at very competitive prices. The ClearMark™ product is the result of mature advancements in the fields of laser engineering, control software and laser beam delivery. As such, it brings the best technology to the developers and users of lasers for material processing applications. This powerful combination makes the ClearMark™ product a flexible solution, bringing you performance in many possible configurations.

The inherent stability and the high peak-power from our all-solid-state ClearMark™ laser system insures efficient material marking (or other laser processing) of both metal and non-metal materials. The ClearMark™ product is available in five power levels: 5, 10, 20, 30 and 50 watt; all models are air-cooled systems.

Coupled with superior support from Claire Lasers expertise, selecting the ClearMark™ products insures a fast-tracking implementation of your laser processing application.

May it be laser marking, engraving or other micromachining or material processing application, the ClearMark™ from Claire Lasers is your best solution. Fast & Friendly.

highlights

High-value

Powerful and intuitive software features USB interface

High-power (10 kWatt) all-solid-state lasers)

Long lifetime (2-year warranty / 4000 hours)

Standard 19" rack configuration

Air-cooled laser marking system

Portable model available

Compact system design

Low-maintenance cost

industry

Applications

Laser processing (Etching, Drilling) of silicon, metals and non-metals

Marking almost any materials

Deep engraving of metal

Cutting of metal foils

Cutting of semiconductor

Options:

- In-motion marking
- Bitmap marking
- Bar-code marking

ClearMark™ Series

spec: BLC05_R002
date: 2007 08 07

Product P/N: CM-PPP-LLL

P/N Definition

PPP: (005,010,020,030,050) - power

LLL: (100,160,254) - scanner lens

Laser Specification	CM-005	CM-010	CM-020	CM-030	CM-050
Average Power (watt)	5	10	20	30	50
Wavelength (nm)	1065	1065	1065	1065	1065
Repetition Rate (kHz)	5-80	10-80	20-80	30-80	50-80
Pulse Duration (nsec)	100	100	100	100	100
Max. Pulse Energy (mJ)	1	1	1	1	1
Max. Peak Power (kW)	10	10	10	10	10
Cooling	Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled

Scanner Specification

Objective Lens f (mm)	100	160	254
Maximum Field Size (mm)	70x70	110x110	160x160
TEMoo Spot Diameter (µm)	25	40	65
Working Distance (mm)	110	175	280
Resolution (µm)	< 4	< 7	< 11
Temperature Drift (µm/C°)	< 9	< 15	< 23
Protection (window)	Yes	Yes	Yes

Mechanical Specification *(dimensions apply to all models)*

Marking Head

Weight (lb)	17.5
Size L x W x H (inch)	16.8 x 5.6 x 4.6

Controller: 4U / 19" Rack format

Weight (lb)	53
Size L x W x H (inch)	24.3 x 7.0 x 19.0

Control Interface

USB

