

Title:

UV laser marking system

Sub-title:

KEYENCE MD-U1000C: Highly functional 3 axis UV laser marking system for applications needing high contrast with minimum damage

General description:

The instrument is equipped with a YVO4 THG standard wavelength (1064 nm) laser that passes through 2 crystals effectively reducing the wavelength to 355 nm. This UV laser has a significantly higher absorption rate on a wide array of materials (often greater than 60%), leading to a higher efficiency in marking.

Features:

- Reduced surface damage due to “cold marking”
- 3-axis scanners allowing simultaneous control of all axes.
- Laser marking on curved substrates
- Marking area of 125mm x 125mm
- Multifunctional integrated camera for easier positioning
- Resolution of 2 μm

Applications:

- Marking / engraving of several resins, metals and ceramics.
- Synthesis of Laser Induced Graphene (LIG) on a great variety of materials due to induced photolytic degradation.