

UC INSTRUMENTS CORP. CA6055 UV Laser Wafer Dicing Saw System

**Technical Specifications Ver 1.01
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 **UC INSTRUMENTS CORP.**

CA6055 UV Laser Wafer Dicing Saw System

The UC INSTRUMENTS CORP. UV Laser Wafer Dicing Saw System is a semiconductor 355 nm UV laser water-cooled system in which the fine focus beam spot is achieved through light beam expansion and re-focus. The integrated two-dimensional high-precision linear motor workbench, direct-drive rotating platform, and the dedicated position-monitoring CCD camera provide high precision and convenience for easy operation to attain excellent positioning.

Features:

- UV laser "cold light"
- Small thermal effect zone
- No mechanical stress effect
- High yield
- Superior electrical properties for cut chips to those with wheel blade saw cutting

Applications:

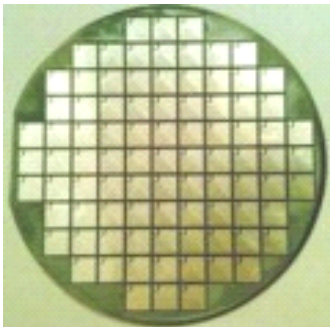
Widely used in wafer dicing and cutting such as:

- Silicon wafers
- III - V family wafers
- Silicon controlled rectifier wafers
- Diode and other semiconductor wafers

Specifications

Model#	CA6055
Laser wavelength	355 nm
Laser source	Q-switch semiconductor pump
Laser media	Nd:YAG
Rated power	5W@10kHz
Minimum cutting line width	20 μ m
Linear motor table positioning precision	+ - 2 μ m
Linear motor table repetitive precision	+ - 1 μ m
Linear motor table effective travel scope	300 mm x 300 mm
CCD camera positioning precision	+ - 7 μ m
Rotation angle	360°
Rotation angular precision	0.001°
Power requirement	110/220 (VAC/50Hz/60Hz)

Dicing Example:



UC INSTRUMENTS CORP.'s Supports, Services and Assistance

UC INSTRUMENTS CORP. provides high performance, high value, affordable instrument solutions for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS CORP.'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 Promise

All of UC INSTRUMENTS CORP.'s instruments and systems meet their advertised performance and functionality. When you select a UC INSTRUMENTS CORP.' 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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