

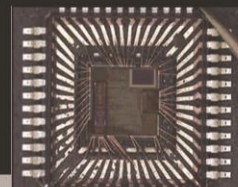
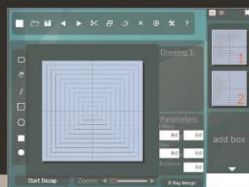
etch Laser₂

RADIANT

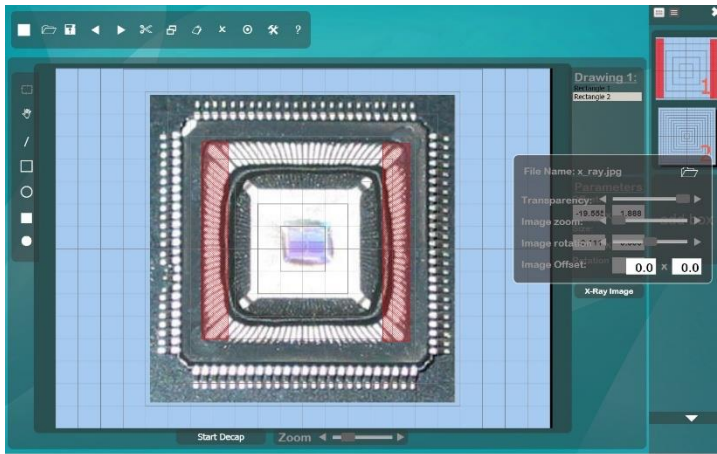


- Intuitive
- Easy to learn & use
- Start Decaping immediately
- Amazing solutions
- No Damage Wires
- On Copper, Gold, Silver/Gold wires

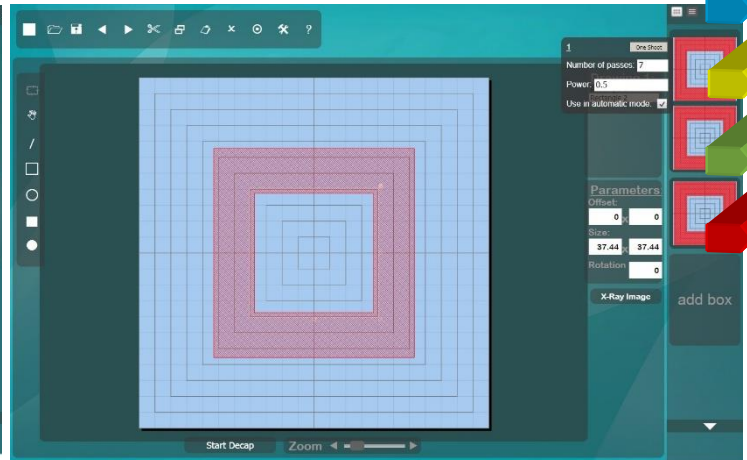
Offers Comprehensive Range of Products & Services that encompass all IC Decapsulation!



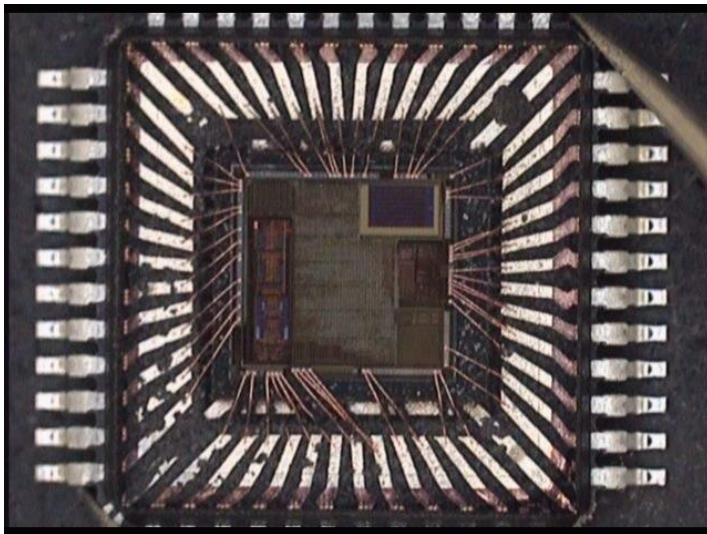
Extremely User-friendly, Easy to use user interface



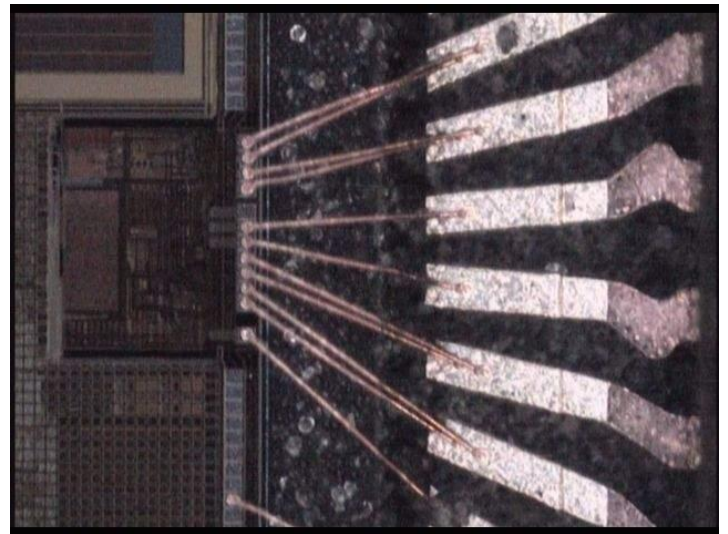
With Life image overlay



Easy to set laser perimeters



Completed After Acid Rinse



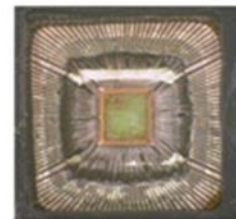
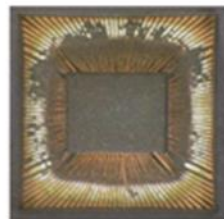
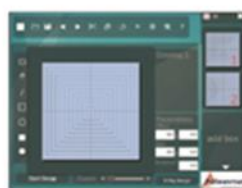
Copper Wires still in good

- High power laser system enables the complete decapsulation on IC packages to the exposure of Cu, Al, Au without damaging them.
- High efficient laser enables partial decap to silicon die surface for acid or chemical clean-up operations when post electrical verification required
- Isolated sample room to prevent cross contamination to other equipment parts to improve operational life span
- High resolution real time video during laser decap process
- Competitive function and cost performance!

etch Laser

World leaders in providing
automated decapsulator technology
and plastic etching

- * Using Laser ablation Technology
- * For Complex Shaped Cavities
- * It's Repeatable
- * Consistency in all devices
- * No Acid needed for 2nd bond
- * High Laser Safety Features
- * Intuitive
- * Easy to learn and use
- * Start Decaping on the same day it is installed
- * Overlay Image can be adjusted – transparency, image zoom, image rotation & offsets.
- * No Damage Wires
- * On Copper, Gold /Silver Wires
- * Leave 100microns of compound on die surface for final acid rinse
- * No acid rinse on Second bond
- * Will not damage silver on leadframe & mask on PCB
- * Smallest cavity at less than 500microns



Laser Details:	High Quality Laser
Laser Type	Air cooled 1064nm Fiber laser
Power	Average output power 20watt (Controllable)
Pulse Width	9ns-200ns selectable
Frequency	1Khz-1Mhz
Laser Quality	Pulse to pulse stability <3%
Scanning Galvo	XY scanning mirror galvanometer
Laser Lens	F Theta Lens for 110mmX110mm substrate
Air Cooled	Air cooled integrated controller
Class Safety:	Class 1 Laser Safety
Stage	Laser center manual adjustable stage
Interlocks	Safety interlocks on Doors
Fume and Dust	Fume and dust extractor
Viewing Window	Laser safe Glass viewing window
Control Unit:	Windows®-based ablation software
Life Image	Image overlay for easy recipe setup
Software	User friendly, English Language and Manual Included
System size:	1100mm X 730mm X 480mm
Optics	Inline Video observation with live preview
Zoom Lens	18x Large Optical Zoom: 8mm-140mm FOV
Focus Aid	Laser Pointer focus Aid
Operating System	Windows 7 (English)
Power requirements	Single Phase Power, 220V, 60Hz
Optional:	Motorized Z-axis with Programmable Capability
Focus	

The Ever Centering chuck has an opening of 50mm X 50mm



It will always hold the sample at center

All cad templates are defaulted from the center of the chuck



etch Laser

Capabilities:

- Capable of decapsulating IC packages less than 1mm x 1mm
- Capable of decapsulating IC packages 10mm or thicker
- Capable of cutting IC packages
- Real-time video monitoring
- High Resolution Camera ≥ 5 Megapixels
- Camera optical zoom up to 18x
- Image saving
- Filtration System
- Cabinet-Vibration Resistant
- Compliant with class 10k cleanroom
- Equipped with HEPA filter with Extra Filter and carbon filter
- Fume extractor included
- Positionable exhaust inlet
- Integrated interface (e.g. power and sleep) or interlock with exhaust/filtration system
- Installation and Training

