



NWR213

STATE-OF-THE-ART APPLICATION FLEXIBILITY

Suitable for a wide range of applications with simplicity, reliability and low cost of ownership

Features

Infinitely Variable Aperture (IVA)
Rotating XY Shutter (XYR)

ActiveView2 Software

Spot size selection in 1 μ m increments and rotating rectangular crater options to match a wide variety of sample shapes

Intuitive, feature rich laser ablation control software – designed around your workflows

Multi-layered viewing for greater sample control in less time

Improved ICP-MS compatibility

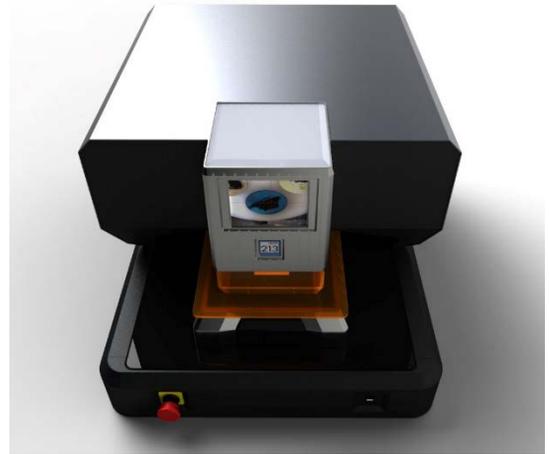
NWR213

Specifications summary



Performance Specifications

Laser	ESI designed and built Nd:YAG @ 213nm
Beam profile	Internally homogenised at fundamental wavelength for improved stability
Repetition Rate	1-20Hz
Laser Attenuation	High resolution attenuation of beam energy with ~1000 positions
Fluence	>30 J/cm ² at the sample surface
Spot Sizes	Aperture Imaged: 13 round spots 3-110µm Extended Range: Up to 250µm
Ablation chambers	Two Volume ablation chamber - TwoVol1
Beam profile	Internally homogenised at fundamental wavelength for improved stability
XY Stage	100mm x 100mm, 1µm resolution
Mass flow controllers	Standard: 0 – 1 L/min He MFC
Triggering	Bi-directional hard triggering Software plug-ins with ICP-MS systems for greater control and automation
Primary viewing system	Full HD 1080p digital camera with 15x to 60x objective-to-camera magnification
Secondary viewing system	25mm field of view for macro navigation
Lighting	3 high-intensity, LED light sources (coax, ring, trans) – fully software controlled
Polarizer	Software-controlled rotating cross polarizer
Software	Class leading ActiveView2 software



General Specifications

Safety Classification	Fully interlocked Class 1 system
Warranty	12 months
Dimensions	81cm x 61cm x 48cm (32" x 24" x 19") DxWxH
Weight	91kg (200lb)
Cooling	Closed loop distilled water system
Platform	Ultra-stable bridge design

Site Requirements

Temperature	21°C ±3°C (70°F ±10°F)
Relative Humidity	20% - 65% non-condensing
Power Requirements	100-110V (AC), 6A, 50/60Hz 220-240V (AC), 3A, 50/60Hz

Additional Options

TwoVol2 Sample Chamber	Significantly higher performance in precision, accuracy, purging and washout – available as 100mm or 150mm
CryoCell	Liquid N ₂ cryocell – operates down to -100°C
IVA	Infinitely variable aperture – gives circular spot sizes from 3µm to 110µm in 1µm steps
XYR	X and Y rotation aperture – gives square and rectangular ablations independently adjustable in 1µm steps in X and Y, plus rotational adjustment in 1° increments
Mass flow controllers	Optional: 0 – 100 mL/min N ₂ MFC Optional: 0 – 1 L/min Ar MFC
DCI	Dual concentric injector – ultra-fast washout for single-shot and imaging analysis
Warranty extension and service contract	Available on request

