

Features

Typhoon purge

Stage return accuracy < 1.5 µm

Compatible with NWR193, NWR213, NWRfemto, and NWRimage

Elemental Scientific

LASERS

INNOVATION TO ILLUMINATE

The highest performing laser ablation chamber on the market

Efficient Typhoon purge mechanism enables stable operation after just 5 minutes and spatial reproducibility of <2% RSD

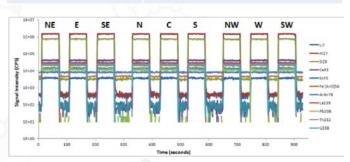
Non-cantilevered stages to accurately target features with minimal wear

Leak free operation with no complex corner seal and accessible tubing for easy replacement

TwoVol2 Specifications summary



Performance Specifications		
Positional Reproducibility	<2% RSD for a wide suite of elements in all positions in the chamber	
Stage Return Accuracy	<1.5 µm short term <4 µm long term <1 µm long term with ImageLock	
Working area	100 mm x 100 mm	
Washout time	700 ms for 2 orders of magnitude of peak decay	
Stages	High precision cross-roller with 0.16 µm step resolution	
Chamber Mount	Direct without cantilever for consistent loading at all stage positions	
Purge	Typhoon purge with dedicated bottom purge outlet for complete purge <5 minutes using only positive pressure	
Gas handling	Pinch valve for minimal aerosol disruption and easy cleaning compared to solenoids	
Tubing	Constant curvature from ablation site to torch	



navigation

Dual-camera

compatible

Compatible with main and wide-

angle viewing systems for easy

Positional reproducibility experiment on 9 NIST612 samples in edges, corners, and center of the chamber with <2% RSD



Compatibility	
Platforms	NWR193, NWR213, NWRfemto, NWRimage
Additional Options	
CryoCell	For wet tissue and fluid inclusion analysis
Dual Concentric Injector (DCI)	For 10X improved washout times
Large Format	150 mm x 150mm option available
Signal Smoothers	Glass signal smoother and Sentinel signal smoother
Sample Chamber Inserts	Spring-loaded options and custom inserts available

