

nSpec[®] PS Automated Optical Inspection System



[212] 401 6208
sales@nanotronics.co
nanotronics.co
CALIFORNIA | OHIO | NEW YORK



nSpec[®] PS Automated Optical Inspection System

Whatever the user's specific sample inspection requirements, Nanotronics provides a wide range of solutions for obtaining rapid results.

nSpec[®] PS is the ideal system for a research and development or production setting. It runs multiple scans sequentially. User-friendly software makes configuring recipes next to effortless. And, as needs evolve, recipes are easily saved and modifiable.

Fully automated inspection for:

- Substrate, epi, and patterned wafers
- Transparent and opaque wafers
- Diced wafers on film tape, trays, gel-pak or waffle packs
- Photomasks
- Sample fragments

Features:

- Automatic wafer loader
- Multiple resolution settings
- Rapid scanning
- Customizable defect reports
- Settings for single image capture and scans
- Variety of sample chucks to meet specific needs
- Robust analysis for defect or feature of interest detection and classification

SYSTEM

•••

Weight	363 kg
Dimensions (W x D x H)	236 cm x 157 cm x 194 cm
Min. Vacuum Requirement	-21 in. Hg (-70 kPa)
Power Supply (UPS included)	120VAC, 30A, 50-60Hz / 208VAC, 15A, 50-60Hz

OPTICS

•••

Illumination Modes	Brightfield, Darkfield, DIC (Nomarski)
Light Source	White light LED (other options available)
Objectives	5x included, 1.25, 2.5, 10, 20, or 50x, user selectable (5 position turret)

STAGE

•••

Travel, typical	200 mm X and Y direction
Positioning	Linear servo motors with closed loop encoders (50 nm resolution)
Repeatability	+/- 0.5 µm
Travel Flatness	30 µm
Construction	Precision ground raceways and crossed roller bearings
Limit Switches	Optical, non-adjustable
Mounting Platform	Microscope/heavy duty pedestal
Centered Load Capacity	2.27 kg
Weight	11.33 kg
Size (W x D x H)	35 cm x 37 cm x 4 cm

WAFER LOADER

•••

Runs 1 Cassette at a Time	25 wafers/cassette, Standard H-Bar Cassette
Standard Wafer Sizes	50, 75, 100, 125, 150, or 200 mm
Wafer Alignment	Automatic by notch or flat
Dimension (W x D x H)	71 cm x 75 cm x 35 cm (Loader 79 cm)
Weight	54 kg

OPTIONS

•••

AFM	Specs available upon request
SECS/GEM	
OCR	Top-Mount, Bottom-Mount, Or Both
Transmitted Light	

