

KrF Scanner





Employs Streamlign Platform for Improved Accuracy and Productivity

The NSR-S220D KrF scanner realizes throughput of more than 230 WPH and high accuracy of below 6 nm MMO. The extendible *Streamlign* platform contributes to stable volume manufacturing of multigenerational cutting-edge devices and to reducing the cost of ownership. **NSR-S220D**

Performance		
Resolution	≦ 110 nm	
NA	0.82	
Exposure light source	KrF excimer laser (248 nm wavelength)	
Reduction ratio	1:4	
Maximum exposure field	26 mm × 33 mm	
Overlay	\leq 6 nm (MMO ^{*1})	
Throughput	\geq 230 wafers/hour (96 shots)	

*1 Mix and Match Overlay: machine-to-machine overlay accuracy (NSR-S220D#1 to S220D#2)

Key Features of the Streamlign Platform

Bird's Eye Control Enabling superior yield

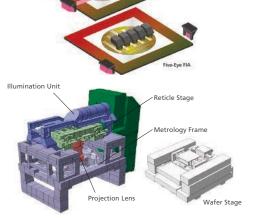
- Hybrid encoder/interferometer system for wafer stage position measurements delivers optimal stage performance.
- Use of 2D encoders for reticle stage position measurements delivers measurements of the stages that are insensitive to air fluctuations.
- Dramatically improves accuracy and stability.
- Provides superior focus control.
- Improved overlay capabilities of 3 nm or less

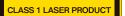
Stream Alignment Enabling optimal affordability

- Straight Line Auto-Focus generates dense map of the wafer surface to enhance focus control (using a wide AF beam span).
- Enables increased alignment sites with minimal productivity impact using Five-Eye FIA.
- Greatly reduces wafer overhead time.
- Throughput capabilities of 230 WPH or more

Modular² Structure Enabling rapid production ramps

- Modular design enables efficient installations and simplifies maintenance.
- Provides optimal uptime with modular design and replacement of individual components.
- Extendible platform enables multigenerational use.





WARNING TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

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