

ArF Immersion Scanner

NSR-S62ID

Proven Solutions Through Evolution



NSR-S621D with *Streamlign* platform enables ≤ 2 nm overlay accuracy. ArF immersion scanner delivers industry-leading performance and productivity.

The NSR-S621D builds upon the well-known *Streamlign* platform and incorporates further hardware and software developments to deliver industry-leading overlay accuracy and throughput, as well as exceptional system stability and matching capabilities. The advanced NSR-S621D immersion scanner fully satisfies the aggressive high-volume requirements of 20 nm technology and beyond.

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Per	formance	

Resolution	≦ 38 nm
NA	1.35
Exposure light source	ArF excimer laser (193 nm wavelength)
Reduction ratio	1:4
Maximum exposure field	26 mm × 33 mm
Overlay	≦ 2 nm
Throughput	≥ 200 wafers/hour (300 mm wafer, 125 shots)

Main Characteristics of the Streamlign Platform

Bird's Eve Control **Enabling superior yield**

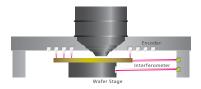
- Hybrid encoder/interferometer system delivers optimal stage performance.
- Dramatically improves accuracy and stability.
- Provides superior focus control.
- Overlay capabilities down to 2 nm

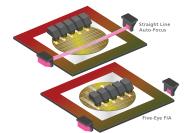
Stream Alignment **Enabling optimal affordability**

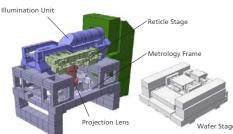
- Straight Line Auto-Focus generates dense map of the wafer surface to enhance focus control (using a wide AF beam span).
- Enables increased alignment sites with minimal productivity impact using Five-Eye FIA.
- Greatly reduces wafer overhead time.
- Throughput capabilities up to 200 WPH

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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