



ArF Immersion Scanner

NSR-S635E

Proven Solutions Through Evolution



Improved Overlay Accuracy and Throughput for High-volume Cutting-edge Semiconductor Manufacturing

The NSR-S635E ArF immersion scanner with integrated inline Alignment Station (iAS) developed for high-volume cutting-edge semiconductor manufacturing.

Adopting the *Streamalign* platform efficiency, the NSR-S635E delivers improved overlay accuracy under 2.1 nm MMO and remarkable throughput of more than 275 WPH (96 shots) simultaneously.

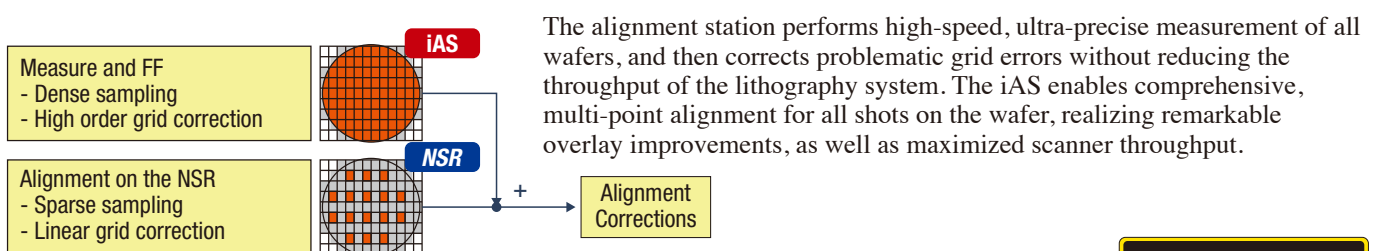
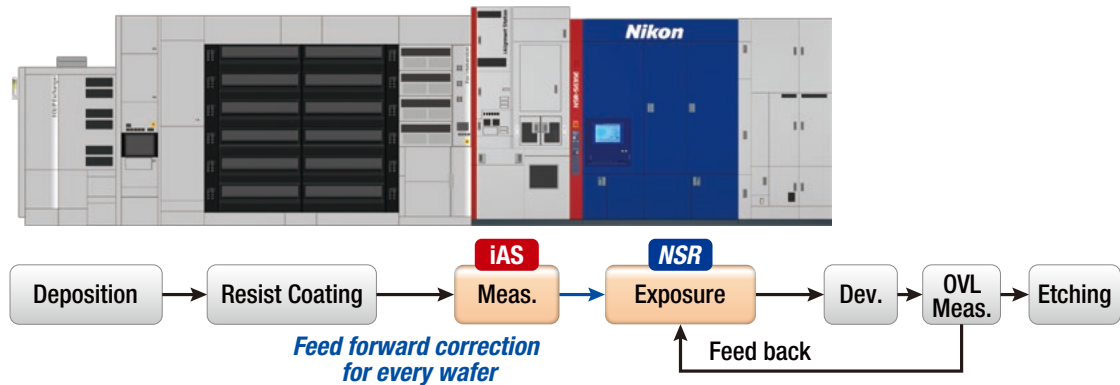
NSR-S635E

Performance

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	≤ 2.1 nm (MMO*1)
Throughput	≥ 275 wafers/hour (96 shots)

*1 Mix and Match Overlay: machine-to-machine overlay accuracy (NSR-S635E#1 to S635E#2)

Features of the inline Alignment Station (iAS)



CLASS 1 LASER PRODUCT



WARNING

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

The export of this product is controlled by Japanese Foreign Exchange and Foreign Trade Law and International export control regime. It shall not be exported without authorization from the appropriate governmental authorities.

Performance and equipment are subject to change without any notice or obligation on the part of the manufacturer. Products and brand names are trademarks or registered trademarks of their respective companies. February 2024
©2024 NIKON CORPORATION

<https://www.nikon.com/business/semi/>

Nikon Corporation
Precision Equipment Group
Marketing Department

Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290, Japan
Tel: +81-3-6433-3639

Nikon Precision Inc.

1399 Shoreway Road, Belmont, CA 94002-4107, U.S.A.
Tel: +1-(650)-508-4674

Nikon Precision Europe GmbH

Robert-Bosch-Strasse 11, D-63225 Langen, Germany
Tel: +49-6103-973-0

Nikon Precision Korea Ltd.

2, Singal-ro 124beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, 16968 Korea
Tel: +82-31-288-5601

Nikon Precision Taiwan Ltd.

3F.-1, NO.28, Taiyuan Street, Zhubei City, Hsinchu County 302, Taiwan, R.O.C.
Tel: +886-3-552-5888

Nikon Singapore Pte. Ltd.

18 Tai Seng Street #04-08, 18 Tai Seng, Singapore 539775
Tel: +65-6559-3618

Nikon Precision (Shanghai) Co., Ltd.

11-12F, Tower 5, Crystal Plaza No. 36, Ping Jia Qiao Road, Pudong New District, Shanghai 200126, China
Tel: +86-21-5899-0266

Nikon Precision Malaysia Sdn. Bhd.

No. 37-03-01, Ideal Golden Triangle, Jalan Dato' Ismail Hashim, 11900 Bayan Lepas, Penang, Malaysia
Tel: +60-4-371-7830