



Save Time

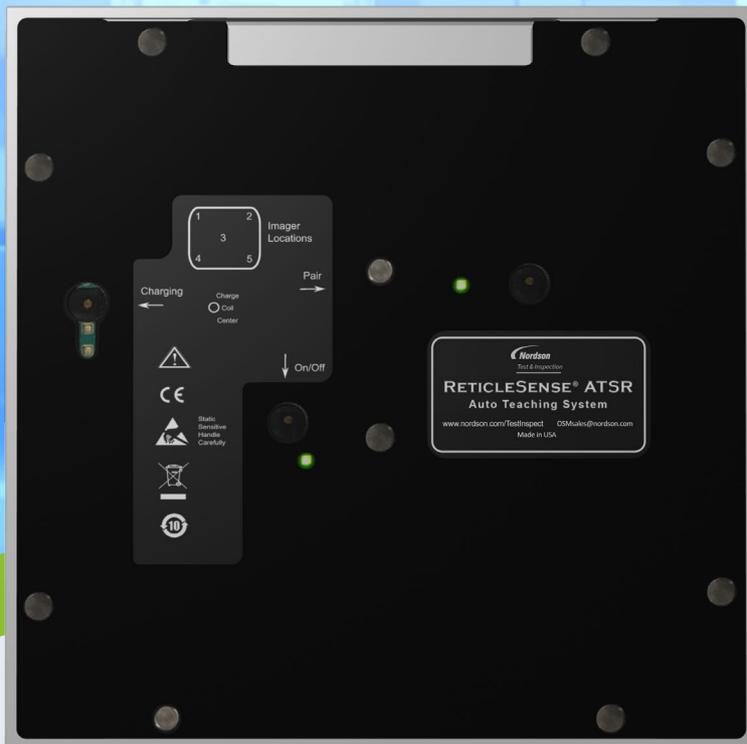


Save Expense



Improve Yields

Semiconductor fabs and OEMs worldwide value the accuracy, precision and versatility of the ReticleSense ATSR – The most efficient and effective wireless measurement device for reticle placement and alignment.



ReticleSense®

Auto Teaching System™ (ATSR)

Metrology Sensors

Speed achieving accurate reticle placement calibration, proper alignment and set-ups.

“Sees” inside semiconductor equipment to capture three dimensional offset data (x, y and z) to quickly teach reticle transfer positions with accuracy to 50µm.

Improve Yields

Improve yields and lower particulate contamination with accurate reticle handoff calibration.

- Capture offset data for accurate calibration of transfer positions as the reticle-like ATSR moves through your semiconductor equipment.
- Improve the yield of your manufacturing process with properly calibrated equipment.

Repeatable & Reproducible

Achieve repeatable and reproducible semiconductor equipment setups.

- Eliminate technician-to-technician variation with the ATSR calibration which enables repeatable and reproducible setup and maintenance checks.

Reduces Equipment Downtime

From hours to minutes.

- Save time troubleshooting as the wireless and vacuum compatible ATSR allows equipment to remain sealed during inspection.
- Increase equipment availability while reducing manpower & consumable expense.

Speed Trouble-shooting

Speed trouble-shooting and lower consumable expense with visual inspection.

- Receive real-time images as robots move the ATSR through the tool. Nordson Spectrum software provides x, y and z offsets that eliminate guesswork.
- Search for lost wafers and pedestal debris without opening the tool.

For more information, speak with your Nordson representative or contact your Nordson regional office

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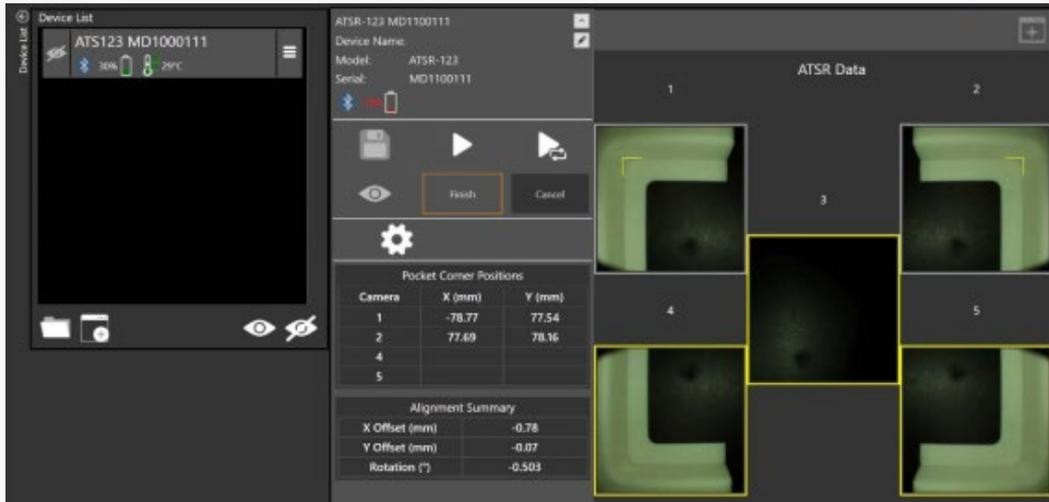
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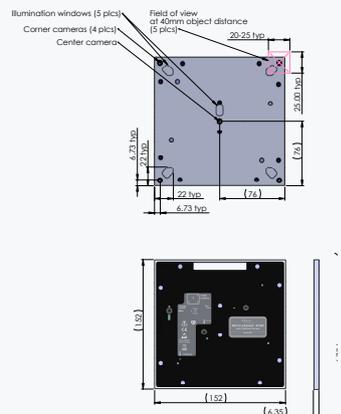
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Nordson Spectrum Software

Displays real-time video and measurements of target features, logs offsets and user comments. Review functionality integrated; replays log file data for review and analysis.

Specifications	
Form factor	Available in 6" reticle shaped form factor
Part number	8028974
On-board camera	Reports x-y-z offset from teaching to edges inside the equipment so you can teach reticle transfer coordinates with 5 cameras. Color images with white light illumination.
Software	Nordson Spectrum
Housing material	Reticle quartz housing compatible with most all mask equipment and scanners.
Weight	230 g ±10%
Thickness	6.35 mm; standard 6" reticle format.
Operating pressure	<10 ⁻⁶ to 760 torr
Operating temperature	20 to 60 °C
Communication	Bluetooth
Operating system	Windows 11
Product components	Teaching device, charging clean case, carrying suitcase, accessory communication gateway.
Calibration	Factory recalibration recommended annually
Battery-duration	<2 hrs. per charge
Working distance	38 mm to 42 mm
Measurement repeatability	0.025 mm at nominal focus ¹
Accuracy	0.050 mm at nominal focus ²



1. Measured on test artifact under identical conditions. 2. Measured on test artifact at atmospheric pressure & room temperature.