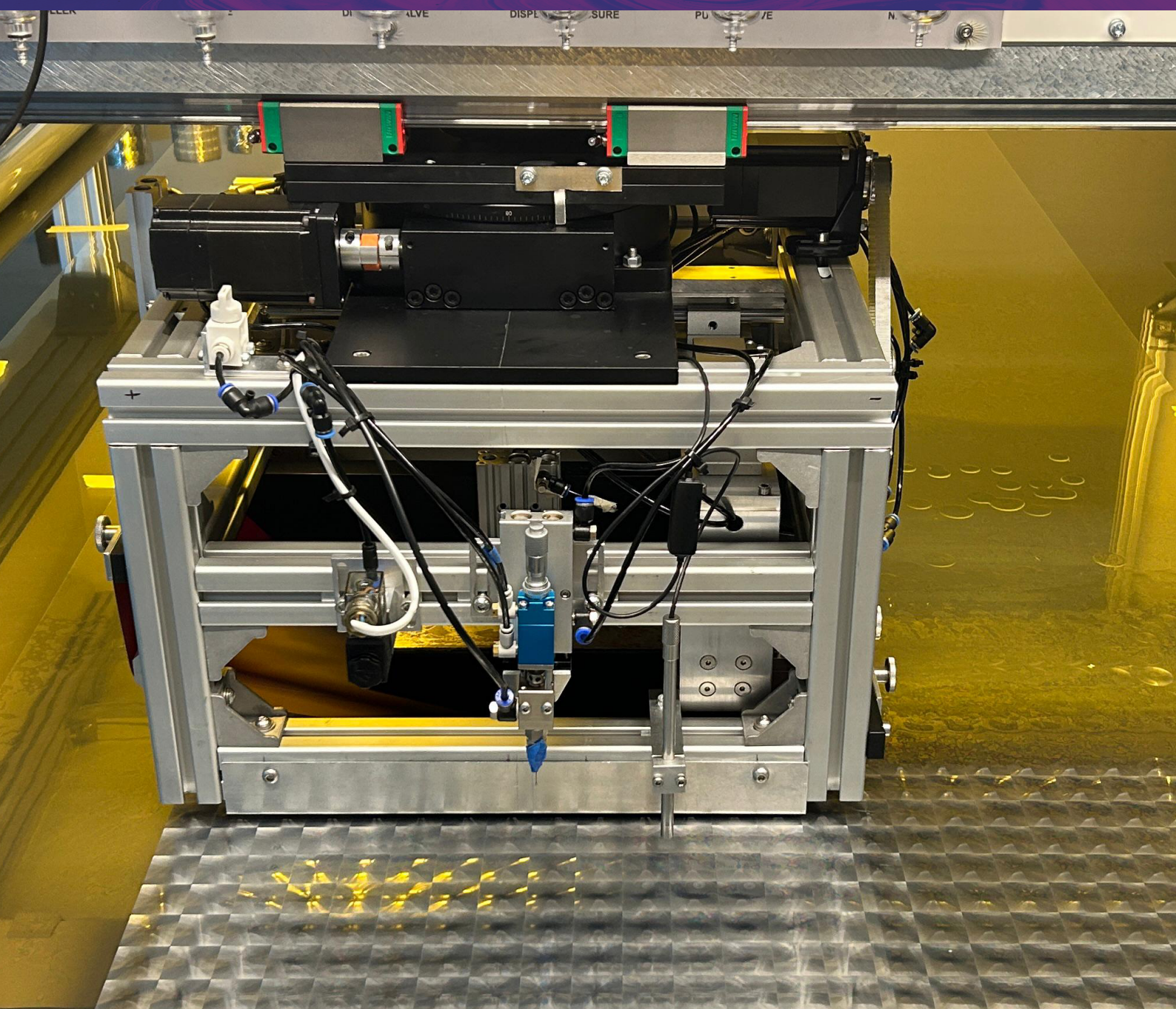


UV Step & Repeat Replication





Step & Repeat UV Recombiner

XRD is the leading provider of high-performance, custom-built UV recombination, offering a complete solution that includes precisely matched UV resins and comprehensive training on both the machine operation and the UV recombination process.



- Precise alignment of Mask through mask aligner.
- Maximizes production efficiency with high-speed, continuous image replication.
- Step accuracy up to 1 micron.
- Accuracy from fixed origin <10 microns.
- Maximum unit cell = 380 x 380 mm.
- Maximum size of the bed 3000 x 1500 mm.
- Integrated or standalone UV Laminator to make copies of the master.
- +/- 90° head rotation for precise skew control.
- Vacuum bed.
- UV resin and consumable support.



Xr 600

Main technical features

Max Length of recombination in mm	600
Max width of recombination in mm	600
Rubber nip	1
Rubber roll out	1
Head Rotation	+/- 90°
Maximum single cell size in mm	100 x 100 mm
Maximum depth of replication in microns	20
Step accuracy in mm	+/- 0.005
Accuracy from fixed origin in mm	+/- 0.050
Future enhancement in placement accuracy	Software controlled
Future enhancement in running accuracy	Software controlled
LED Wavelength	385 - 405 nm
LED dosage	5 W/cm2
Cycle	50/60 Hz
Power	240 V/ 16 Amps



Xr 1650

Main technical features

Max Length of recombination in mm	1650
Max width of recombination in mm	1000
Rubber nip	1
Rubber roll out	1
Head Rotation	+/- 90°
Maximum single cell size in mm	200 x 200 mm
Maximum depth of replication in microns	20
Image placement accuracy in mm	+/- 0.010
Running accuracy in mm	+/- 0.150
Future enhancement in placement accuracy	Software controlled
Future enhancement in running accuracy	Software controlled
LED Wavelength	385 - 405 nm
LED dosage	5 W/cm2
Cycle	50/60 Hz
Power	240 V/ 16 Amps



Xr 1000

Main technical features

Max Length of recombination in mm	1000
Max width of recombination in mm	1000
Unwind cylinder	1
Rewind cylinder	1
Maximum single cell size in mm	125 x 125 mm
Maximum depth of replication in microns	20
Image placement accuracy in mm	+/- 0.010
Running accuracy in mm	+/- 0.150
Future enhancement in placement accuracy	Software controlled
Future enhancement in running accuracy	Software controlled
LED Wavelength	385 - 405 nm
LED dosage	5 W/cm2
Cycle	50/60 Hz
Power	240 V/ 16 Amps

Our Vision:

To continuously innovate cutting-edge precision equipment and high-performance UV resins that empower authentication and holography converters, setting new benchmarks in quality, reliability, and technological advancement.

Design Philosophy:

No two pieces of our equipment will ever be the same. With each iteration, we are committed to improving the design, ensuring continuous innovation and enhanced performance with every new development.

Customization Expertise:

We specialize in developing all of our machines based on the key requirements of each individual client. Whether it's adapting to specific production environments, integrating unique features, or enhancing performance for specialized applications, our team is dedicated to delivering tailor-made solutions. Every machine we produce is designed with flexibility in mind, ensuring it meets the exact needs of the user while incorporating the latest technological advancements.

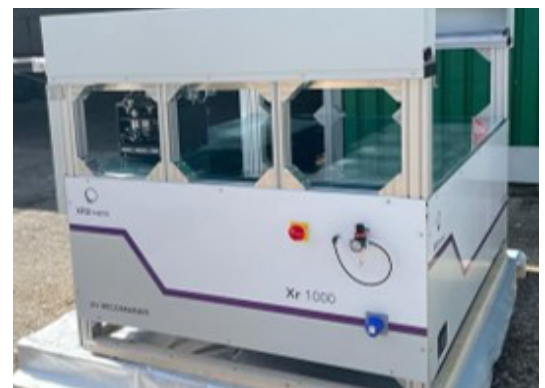
Evolution of Xr Design



2024



2023



2022



sales@xrdnano.com
www.xrdnano.com

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CONNECT. CHAMPION. SUPPORT.

Head Office

XRD Nano Limited,
Unit 15, Red Lion Business Park,
Red Lion Road, Surbiton
KT6 7QD, United Kingdom
Tel: +44 75629 87952 | sales@xrdnano.com

Indian Subsidiary

XRE NANOTECH PRIVATE LIMITED
B-15, New DLF Indl. Area,
Faridabad, Haryana, 120001 India
Tel. +91 9891688111
ajay@xrdnano.com

Sales office Middle East

Nilpeter Middle East LLC
3001, Prism Tower
Business Bay, Sheikh Zayed Road
283563 - Dubai
Tel. +971 56 379 2153
manu@xrdnano.com

Sales office China

Spatial Imaging Art & Technology, Limited
Zhukuan NT Space
770 Huacheng Avenue,
Tianhe District, Guangzhou, China
Tel: +86 (20) 8709 6110
Email: info@siat.ltd

