



UV REPLICATION SYSTEMS
FOR NANO & MICRO STRUCTURES

Xe 600 UV 3S — Precision UV Casting for Micro-Optics



www.xrdnano.com



Xe 600 UV 3S — Precision UV Casting for Micro-Optics

Engineered by XRD Nano, the Xe 600 UV 3S delivers micron level replication accuracy for micro-lenses and advanced optical films. Its next-generation UV curing system ensures uniform polymerisation, flawless surface quality, and production-level stability, bridging the gap between R&D and full-scale manufacturing.



Key Features :

- Seamless imaging through nickel sleeves and cylinders
- Transparent films from 8 μm – 150 μm
- Multiple coating and curing configurations
- Scalable web width 300 mm – 800 mm
- Multi-station architecture for higher throughput

Redefining precision. Enabling the future of optical film manufacturing.



Xe 600s

Machines	Xe 1050
Mechanical Speed (m/min)	200 m/min
Width (mm)	600 mm
Coating width - maximum	600 mm
Coating width - minimum	300 mm
Maximum reel weight	400 kg
Un-winders maximum diameter	500 mm
Un-winders minimum / maximum tension	20 - 550 nm
Rewinders maximum diameter	500 mm
Rewinders minimum / maximum tension	40 - 550 nm
Curing method	Mercury
Range of materials	PET, BOPP, Nylon, PVC, Shrink PETG/PVC

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



2025



sales@xrdnano.com
www.xrdnano.com

Proud to be a Member of

LONDON CHAMBER
COMMERCE *of* AND INDUSTRY

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

