

Accessible Super-Resolution & Single-Molecule Imaging

ONI (Oxford Nanoimaging) makes super-resolution microscopy accessible on the benchtop. The Nanoimager — the world's first desktop super-resolution microscope — delivers ~20 nm resolution and single-molecule imaging from a footprint no larger than a sheet of A4 paper, with no dark room or optical table required. Acquisition and analysis are unified through the cloud-based CODI platform.

~20 nm Spatial Resolution	5-Colour Imaging	A4 Bench Footprint	Cloud Analysis (CODI)
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Instruments & Platforms

Product	Description	Highlights
Nanoimager	Benchtop super-resolution microscope supporting dSTORM, PALM, PAINT, smFRET, single-particle tracking, TIRF and HILO.	100× NA 1.45; live-cell to 42°C; multi-position & Z-stack
Aplo Scope	Next-generation all-in-one single-molecule super-resolution platform for sample-to-answer workflows.	Application-specific kits & chemistry, high speed
Aplo Flow	Automated, programmable fluidic control for hands-free sample preparation.	Reproducible multi-step staining & imaging

Imaging Modalities

SMLM (super-resolution): dSTORM (<20 nm), PALM, PAINT / DNA-PAINT — molecular organisation and quantification.

Single-molecule & dynamics: smFRET (1–10 nm distance measurements), single-particle tracking.

Diffraction-limited: TIRF (surface, first ~200 nm), HILO (low-background imaging into tissues/nuclei), widefield.

Software & Application Kits

Software	Application Kits
• CODI — cloud collaborative analysis platform	• EV Profiler — extracellular vesicle profiling
• NimOS — instrument acquisition & analysis	• LNP Profiler — lipid nanoparticle characterisation
• Automated, shareable analysis workflows	• Discovery Kit — dSTORM in cells

Application Areas

Cell biology • immuno-oncology • neuroscience • microbiology • EV / exosome research • lipid-nanoparticle & therapeutic development • virology.

Request a Quote or Sample

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