

Resource Summary Report

Generated by [kravitz2](#) on Aug 23, 2026

Nikon: AXR NSPARC super resolution inverted microscope

RRID:SCR_026538

Type: Tool

Proper Citation

Nikon: AXR NSPARC super resolution inverted microscope (RRID:SCR_026538)

Resource Information

URL: <https://www.microscope.healthcare.nikon.com/products/confocal-microscopes/ax>

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Description: Confocal microscope provides enables collection of more data over wide area and down to deep regions in tissues. Its high sensitivity and high-speed scanning reduce phototoxicity to specimen and minimize damage. Equipped with image acquisition/analysis functions utilizing Artificial Intelligence (AI), the AX/AX R can efficiently acquire highly reliable data. Nikon Spatial Array Confocal (NSPARC) detector utilizes detector array to collect two-dimensional image at each scanned point. It adds additional potential to imaging by providing new level of ultra-low noise sensitive spatial detection, enabling improved lateral resolution of 1 airy unit/~230 nm and improved signal-to-noise ratio.

Resource Type: instrument resource

Keywords: Nikon Spatial Array Confocal detector, NSPARC detector, confocal microscope, reduce phototoxicity to specimen, minimize damage,

Specification URL: https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/main/PDF/SCR_026538.pdf

Resource Name: Nikon: AXR NSPARC super resolution inverted microscope

Resource ID: SCR_026538

Alternate IDs: Model_Number_AXR_NSPARC

Record Creation Time: 20250307T060316+0000

Record Last Update: 20260815T183248+0000

Ratings and Alerts

No rating or validation information has been found for Nikon: AXR NSPARC super resolution inverted microscope.

No alerts have been found for Nikon: AXR NSPARC super resolution inverted microscope.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Tai W, et al. (2026) In vivo reprogramming of NG2 glia improves bladder function after spinal cord injury. *iScience*, 29(3), 114850.

Arbesfeld-Qiu JM, et al. (2026) Distinct Malignant Cell States and Myeloid Glutamate Signaling Associated with Aggressive Pancreatic Neuroendocrine Tumors. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(12), 2449.

Armanville S, et al. (2025) Chemically Induced Senescence Prompts Functional Changes in Human Microglia-Like Cells. *Journal of immunology research*, 2025, 3214633.

Geng P, et al. (2025) A thermosensor FUST1 primes heat-induced stress granule formation via biomolecular condensation in Arabidopsis. *Cell research*, 35(7), 483.

Cleary SJ, et al. (2025) Intravital imaging of pulmonary lymphatics in inflammation and metastatic cancer. *The Journal of experimental medicine*, 222(5).

Huang S, et al. (2025) Geranyl hydroquinone alleviates rheumatoid arthritis-associated pain by suppressing neutrophil accumulation, N1 polarization and ROS production in mice. *Redox biology*, 82, 103603.

Wu J, et al. (2025) Solid-like condensation of MORF8 inhibits RNA editing under heat stress in Arabidopsis. *Nature communications*, 16(1), 2789.

Oubraim S, et al. (2025) Astrocytic FABP5 mediates retrograde endocannabinoid transport at central synapses. *iScience*, 28(5), 112342.

Lin Y, et al. (2024) Short-Term Statin Therapy Induces Hepatic Insulin Resistance Through HNF4 α /PAQR9/PPM1 γ Axis Regulated AKT Phosphorylation. *Advanced science (Weinheim, Baden-Wuerttemberg, Germany)*, 11(34), e2403451.

Kim RK, et al. (2024) Histone H1x in mouse ventral hippocampus associates with, but does not cause behavioral adaptations to stress. *Translational psychiatry*, 14(1), 239.

Ortega AJ, et al. (2024) Genetic removal of Nlrp3 protects against sporadic and R345W Efemp1-induced basal laminar deposit formation. bioRxiv : the preprint server for biology.

Gigante ED, et al. (2024) Specification and survival of post-metamorphic branchiomic neurons in a non-vertebrate chordate. Development (Cambridge, England), 151(20).

Gigante ED, et al. (2023) Specification and survival of post-metamorphic branchiomic neurons in the hindbrain of a non-vertebrate chordate. bioRxiv : the preprint server for biology.