

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

Nikon: A1R MP Confocal Microscope

RRID:SCR_020319

Type: Tool

Proper Citation

Nikon: A1R MP Confocal Microscope (RRID:SCR_020319)

Resource Information

URL: <http://www.labwrench.com/?equipment.view/equipmentNo/9466/Nikon/A1R-MP/>

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Description: Nikon A1R MP is a multiphoton imaging system featuring a high resolution galvanometer scanner and a high speed resonant scanner that is capable of frame rates from 30 fps at 512 x 512 pixels to as fast as 420 fps in band scan mode. New 4 channel non-descanned detectors with higher sensitivity, reduced dark current and broad spectral range allow for real time unmixing of closely spaced probes for accurate and high-contrast spectral imaging. This is especially important in multiphoton microscopy because of the overlap of emission spectra of probes and autofluorescence, which is often unavoidable when using a single laser line.

Resource Type: instrument resource

Keywords: Nikon, Confocal Microscope, Instrument Equipment, USEdit

Availability: Commercially available

Resource Name: Nikon: A1R MP Confocal Microscope

Resource ID: SCR_020319

Alternate IDs: Model_Number_A1RMP

Record Creation Time: 20220129T080349+0000

Record Last Update: 20260725T190926+0000

Ratings and Alerts

No rating or validation information has been found for Nikon: A1R MP Confocal Microscope.

No alerts have been found for Nikon: A1R MP Confocal Microscope.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Zheng H, et al. (2025) Protocol to generate species-specific astrocyte-conditioned medium for human organoid neuron maturation. STAR protocols, 6(3), 103965.

Hu C, et al. (2023) PPP1R3A inhibits osteogenesis and negatively regulates intracellular calcium levels in calcific tendinopathy. iScience, 26(10), 107784.

Adaku N, et al. (2023) Apolipoprotein E2 Stimulates Protein Synthesis and Promotes Melanoma Progression and Metastasis. Cancer research, 83(18), 3013.

Offner T, et al. (2023) Functional odor map heterogeneity is based on multifaceted glomerular connectivity in larval Xenopus olfactory bulb. iScience, 26(9), 107518.