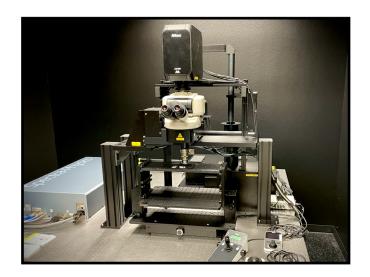
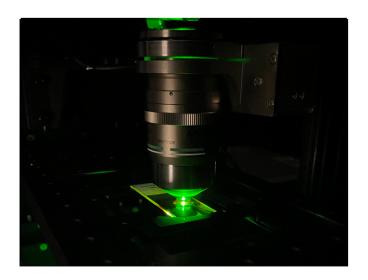
Nikon AX R Multiphoton Microscope







Instrument Description

The Nikon "AX R MP" microscope is an upright multiphoton system ideal for intravital imaging and imaging thick (>200µm) samples. The AX R MP is equipped with dual IR lasers (1 tunable and 1 fixed) for fast, multichannel MP imaging and a high-speed Resonant scanner with up to 2K X 2K resolution. The AX R MP has the ability to acquire second harmonics generation for label-free imaging of collagen matrix. This system has a wide selection of objective lenses specific for multiphoton imaging, including a two water-dipping objectives (10x 0.5NA and 20x 1.0NA) and a multi-immersion 20x 1.0NA objective lens with a 8.2mm working distance. Due to the advanced nature of multiphoton imaging, the MSR offers an Assisted Multiphoton Imaging Service to assist users with no background in MP imaging.

Instrument Features

- High-speed imaging with Resonant scanner
- Dual IF lasers (1 tunable and 1 fixed) for fast multichannel MP imaging
- Second harmonics generation for label-free imaging of collagen matrix
- Piezo stage with 800µm travel for precise, high-speed zstack imaging
- Prior motorized XYZ desk with metric breadboard to accommodate custom intravital setups

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Instrument Details	
Available Lasers	InSight X3+ Tunable Ti:S Laser: 820nm - 1300nm InSight X3+ Fixed Laser: 1045nm
Available Objective Lenses	10x Glyc Plan Apo (NA = 0.5; WD = 5.5mm) 20x Plan Apo (NA = 0.75; WD = 1.0mm) 20x W Apo (NA = 1.0; WD = 2.8mm) 20x Glyc (NA = 1.0; WD = 8.2mm)
Available Detectors	GaAsP PMT (with fixed 405nm Dichroic Mirror) GaAsP PMT (with fixed 488nm Dichroic Mirror) GaAsP PMT (with fixed 594nm Dichroic Mirror) GaAsP PMT (with fixed 685nm Dichroic Mirror)
Emission Filters	DAPI/SHG - 450nm / 50nm GFP - 525nm / 50nm RFP/Far Red - 600nm / 50nm and 650nm Long Pass
Supported Samples	Slides (1 x 3 and 2 x 3) Dishes (60mm only) Custom intravital imaging setups Prior H189 motorized stage desk; metric breadboard