

# **Technical Specifications – Nikon A1R+**

## **Objectives:**

- o 10X/0.45 Plan-Apochromat. Brightfield (A). [PFS](#)
- o 20X/0.75 Plan-Apochromat. Brightfield (A) and Nomarski (DIC N2). [PFS](#)
- o 20X/0.75 oil Plan-Fluor. Brightfield (A) and Nomarski (DIC N2).
- o 40X/1.3 oil Plan-Fluor. Brightfield (A) and Nomarski (DIC N2). [PFS](#)
- o 60X/1.4 oil Plan-Apochromat. Brightfield (A) and Nomarski (DIC N2). [PFS](#)
- o 60x/1.2 Water Plan-Apochromat. Brightfield (A). [PFS](#)

## **Microscope Fluorescence Filters:**

- o DAPI (340-380 FT400 435-485)
- o CFP (425-443 FT452 459-499)
- o GFP (469-486 FT497 505-544)
- o TRITC (532-552 FT570 594-646)

**Optics:** Brightfield, Nomarski and Fluorescence.

**Diode Lasers:** 405, 445, 488, 514, 561 and 640.

## **Confocal Detectors:**

- o PMT1: BP425-475, BP465-499
- o PMT2 [GaAsP](#): BP500-550, BP525-555
- o PMT3 [GaAsP](#): BP570-620
- o PMT4: BP663-735
- o [Spectral Detector](#)

***In vivo* system:** Temperature, CO<sub>2</sub>, hardware focus ([Perfect Focus System \(PFS\)](#)) and perfusion system

**Software:** NIS Elementes 5.20.01