

A1R confocal with spectral detector



Resonant scanning - The A1R+ confocal has a hybrid scan-head that incorporates [Nikon's new HD resonant scanner](#) in addition to a galvanometer scanner. The resonant scanner is capable of high speed image capture at 15 frames per second at 1024x1024, 30 frames per second at 512 x 512 pixels and 420 frames per second at 512 x 32 pixels. They can be combined for simultaneous imaging and photobleaching or stimulation experiments.

GaAsP detectors - The A1R+ is equipped with two normal PMTs and two high-sensitivity GaAsP detectors (green and red channels) enabling visualisation of even very weak signals.

PFS - The A1R confocal is mounted on a Nikon Ti Eclipse microscope with Nikon's Perfect Focus System. This focal drift compensation mechanism allows users to maintain the desired focal plane for long-tem live cell imaging.

Microscope	Eclipse Ti-E Inverted.
Detectors	2 x GaAsP Detectors, 2 x PMT, 1 x DIC PMT, 1 x 32 channel Spectral Detector.
Objectives	4x, 10x, 20x, 40x, 60x oil and 100x oil.
Laser Wavelengths	405nm, 445nm, 488nm, 514nm, 561nm, 640nm (all diodes).
Environment	Solent Scientific chamber with temperature and CO2 control.