

Spinning disk Andor

Room: E1036 CBI

Inverted confocal spinning-disk microscope dedicated to live cell imaging and applications that require high speed multidimensional imaging.

Excitation Lasers

405 nm – 488 nm – 560 nm – 635 nm

The laser power is control by an AOTF driven by the IQ2 software.

Microscope

Inverted Leica DMI6000 microscope

Stages

X-Y motorized stage for multiposition recordings

Z Piezo stage for fast z stack

Confocal Unit:

Yokogawa CSU22 Confocal Scanner

Variable Scanner Motor Rotation Speed: 1500 to 5000 rpm

Pinhole size: 50 μ m

Camera:

Andor's iXonEM+ 897 back-illuminated EMCCD

512 x 512 pixels

Pixel size: 16 μ m

-85 °C air cooled

Objectives

Default objectives	Magnification	Numerical aperture	Working distance	Immersion	coverglass
PL Fluotar	10x	0.3	11	DRY	-
HC PL APO	20x	0.7	0.59	DRY	0.17
HCX PL APO	40x	0.85	0.24	DRY	CORR 0.11-0.23 mm
HCX PL APO	63x	1.40-0.6			

Cube name	Excitation filter - Dichroic - Emission filter		
A4	BP 360/40	400	BP 470/40
GFP	BP 470/40	500	BP 525/50
RFP	BP 546/12	560	BP 605/75

Software:

Metamorph

Temperature\CO₂:

A Tokai Hit Stage Top Incubator allows temperature, humidity and CO₂ control.

If you need to use the temperature control, 3 hours are needed to stabilize the temperature.