

Nikon SDC - Specifications

Type: Spinning disc confocal

Purpose: Rapid 2D and 3D imaging of samples

Fixed cells: Yes

Live cells: Yes

FPBase link: <https://www.fpbases.org/microscope/X6ne45wr4DYFPsgc5nPrKo>

Tag: None

Room: C350A

Software:

- NIS Elements - v5.42.03

HASP: 293CDCAA

Base: Nikon TiE

XY Stage: Motorized

Z:

- Ti Z drive
- MCL Piezo Z - 100 μm

Autofocus: PFS 3

Environment control:

- Oko Labs enclosure: CO₂, Humidity, Temperature

Scan head: Yokogawa CSU-X1

Light source:

- LUNV22 70186
- Lasers: 405, 445, 488, 515, 561, 594, 640

Emission Filters

Vendor	Model	Center	Width	Min	Max	Common Fluorophores
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Chroma	ETDAPI-Cy5 m Lot 314725	437	18	428	446	DAPI. BFP
Chroma	ET482/27m	482	34	465	499	CFP
Chroma	ET525/50m	525	50	500	550	GFP, FITC, Alexa Fluor 488
Chroma	ET540/30m	540	30	525	555	YFP
Chroma	ET620/60m	620	60	590	650	TRITC, Texas Red, dsRed, Alexa Fluor 568
Chroma	ET630/30m	630	30	615	645	mCherry
Chroma	ETDAPI-Cy5 m Lot 314725	705	68	671	739	Cy5, Alexa Fluor 647, Draq5

Dichroics

- Chroma ZT405/488/561/640rpcv2
- Chroma ZT44/514/594rpc

Objectives

Magnification	NA	Medium
4	0.2	Air
10	0.45	Air
20	0.75	Air
40	0.95	Air
100	1.4	Oil

Detectors

- EMCCD
- Andor IXon 888 Ultra
- S/N: X-9963

Revision #5

Created 20 June 2023 16:35:52 by Jian Tay

