

PerkinElmer Opera Phenix Specifications

General information

Microscope type: Spinning disk confocal and widefield

Purpose: High-throughput and high-content imaging of multi-well plates with full automation

FPbase link: <https://www.fpbases.org/microscope/rBKJsuQSCGgSnZuxcGRYSh/>

Equipment information

Location: JSCBB C350C

Serial number: 1400L18161

CU Tag: UCB 214288 RC16

Sample types

Fixed Cells	Yes
Live Cells	Yes

Software

- Harmony v4.9

Environmental control

- CO2, Humidity, Temperature

Laser lines

- 375 nm
- 425 nm
- 488 nm
- 561 nm
- 640 nm

Filters

Emission				Example fluorophores	Vendor	Model number
Center (nm)	Width (nm)	Min (nm)	Max (nm)			
457.5	45	435	480	DAPI, BFP, CFP	Semrock	FF01-457/50
492.5	115	435	550	DAPI, BFP, CFP		
475	80	435	515	DAPI, BFP, CFP		
525	50	500	550	GFP, Alexa Fluor 488, FITC	Chroma	ET525/50m
600	60	570	630	TRITC, Texas Red, dsRed, Alexa Fluor 568	Omega	600BP60 RapidBand
705	110	650	760	Cy5, Alexa Fluor 647, Draq5		

Objectives

Magnification	NA	Immersion medium
5	0.16	Air
10	0.3	Air
20	0.8	Air
20	1	Water
40	1.1	Water

Detectors

- Andor Xyla x4 sCMOS camera