

Olympus VS200 information sheet

(Installed on 14 Nov 2023. Imaging Lab 4—J2.08, Level 2, WIMR)

Imaging capacity: Brightfield + Fluorescence + Polarisation + Dark field

Microscope: Olympus IX3 (condenser: BX3-UCD8A)

Cameras:

BF: VS-264C (8-bit RGB)

FL: Hamamatsu ORCA-FLASH4.0 (16-bit greyscale), V3: Model: C13440-20CU

Scanning capacity: 20x trays available for 120 slides (capacity of 216 slides) or 1x slide/single load

LED illumination source: X-Cite Xylis XT720S-2372 Model No.: XT720S

Objectives and resolutions

Objective	BF (VS-264C)	Fluo (Hamamatsu ORCA-FLASH4.0)
2x (PLN, WD 5.8 mm)	2.78 um/Pixel	3.25 um/Pixel
4x (UPLFLN, WD 17 mm)	1.37 um/Pixel	1.63 um/Pixel
10x (UPLXAPO, WD 3.1 mm)	548 nm/Pixel	650 nm/Pixel
20x (UPLXAPO, WD 0.6 mm)	274 nm/Pixel	325 nm/Pixel
40x (UPLXAPO, WD 0.18 mm)	137 nm/Pixel	163 nm/Pixel
100x Oil (UPLXAPO, WD 0.13 mm)	55 nm/Pixel	65 nm/Pixel

Fluorescent filters:

Channel	Excitation (nm)	Emission (nm)	Typical Dye & its Ex/Em Peak (nm)
365 450_40	365/20	450/40	DAPI 345/455
490 525_36	490/20	525/36	FITC 494/518
555 590_20	555/25	590/20	TRITC 555/580
645 700_50	645/30	700/50	Cy5 625/675
725 800_40	725/40	ET 800/40	Cy7 750/780
CFP	436/20	ET 470/20	CFP 458/480
YFP	500/20	ET 535/30	YFP 513/527
mCherry	575/25	ET 645/75	mCherry 587/610

Computer: HPZ440, SN: CZC3077JNP

Acquisition software: VS200 ASW 3.4

Analysis software: VS 200 DESKTOP V4.1.1 with Converter, Deconvolution, Count and Measure and Deep learning (installed on both the physical analysis PC on Level 2 Data Suite and VM (virtual machine))

Internet connection: Yes

Local data storage: D:/your folder for up to 7 days then auto deleting applies

Data sync: auto sync upon logout from local D: drive by Syncovery for up to 14 days.

Please email to westmead.imaging@wimr.org.au with any questions or problems