

Olympus VS120 information sheet

Location: Room J2.08, Level 1, WIMR

Microscope: Olympus VS-BX61

Camera:

BF: VC-50. 2/3" CCD camera, 3.45 μ m x 3.45 μ m pixel size. Scan time: Approx. 2 min.

(20x objective, scan area 15mm x 15mm bright field)

FL: ORCA-FLASH4.0 V2: Scientific CMOS sensor, speed \geq 100frame/s @

1024*1024, High QE: 82% peak, \geq 70% @600 nm, \geq 50% @750 nm

Imaging Software: VS-ASW 2.9

Scanning capacity: total 100 slides with loader for automated high through-put scanning, or 1 slide with manual load

Objectives:

PLAPON 2X/ NA 0.08, WD 6.2

UPLSAPO 10X/ NA 0.4, WD 3.1 / CG Thickness 0.17

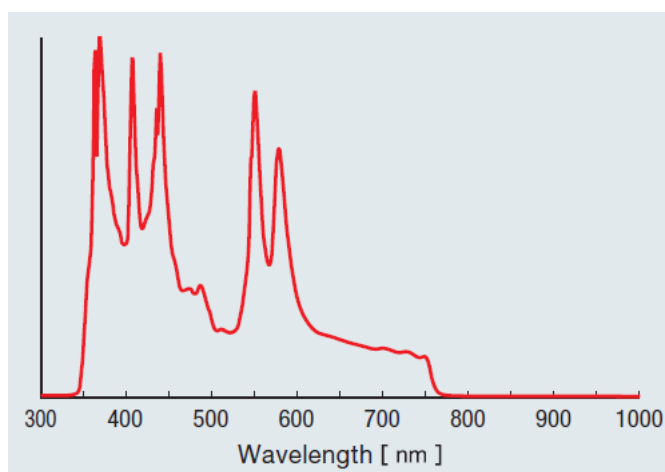
UPLSAPO 20X/ NA 0.75, WD 0.6 / CG Thickness 0.17

UPLSAPO 40X/ NA 0.95, WD 0.18 / CG Thickness 0.11–0.23

Resolution: 20x (NA 0.75): 0.33 μ m/pixel; 40x (NA 0.95): 0.17 μ m/pixel

Mercury Lamp Housing (U-HGLGPS): High-pressure, pre-centered mercury lamp with a 2000-hour warranty*

Spectral characteristics of the U-HGLGPS:



Fluorescent filters:

Filter set position	Filter sets	Excitation (nm)	Emission (nm)	Dichroic mirror
1	Quad-band DA/FI/TR/CY5	387/11-25 485/20-25 560/25-25 650/13-25	440/40-25 525/30-25 607/36-25 700/75m	410/504/582/669
2	Triple-band DA/FI/TX	387/11-25 494/20-25 575/25-25	447/60-25 531/22-25 624/40-25	FF436/514/604
3	Cy7	710/75X	810/90	T760lpxr

Polarization capacity added in Nov 2018

Anti-vibration table: Nov 2018

Computer: HPZ440, Win10 Professional 64-bit (Win 10 upgrade in 2021)

Acquisition software: Olympus VS-ASW2.9

Analysis software: Desktop200 with Converter, Deconvolution, Count and Measure and Deep learning (installed on the analysis PC)

Internet connection: disconnected to internet but connected to the WIMR AD server

Data backup: by Syncovery (manual-press the icon shortcut on the acquisition computer desktop and automatically-happens at 2am daily)

Please contact Dr Hong Yu with any questions or problems

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