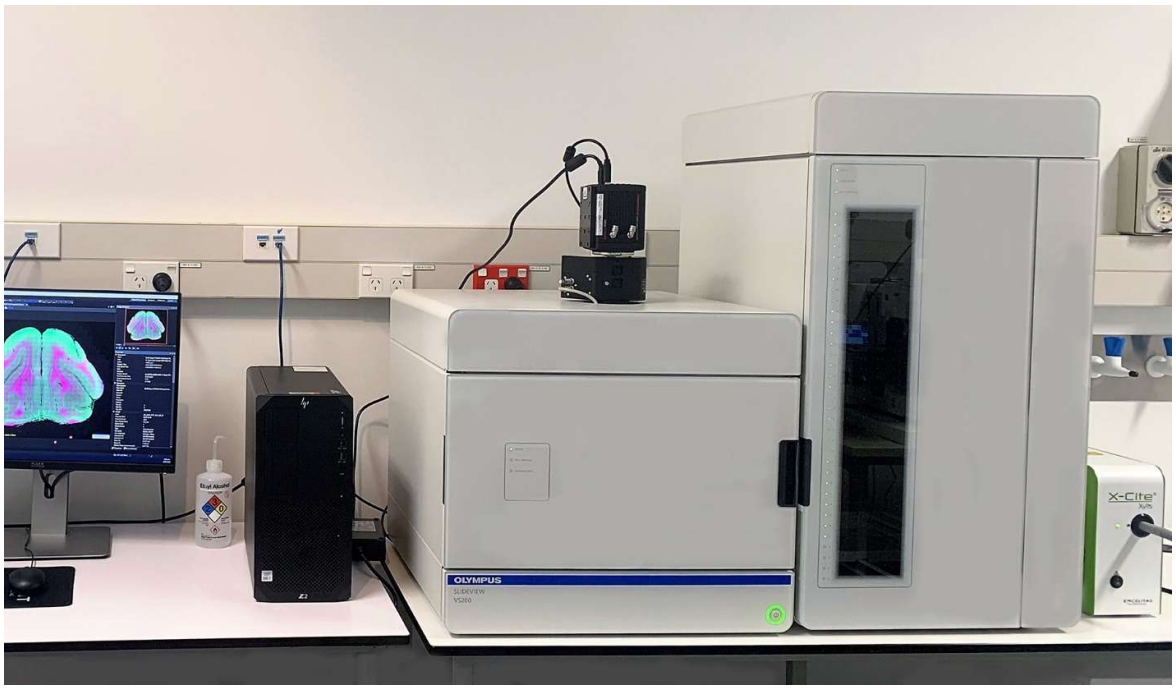
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Olympus SLIDEVIEW VS200 slide-scanner



Cameras

- *Olympus colour camera - integrated 2/3 inch CMOS, 3.45 x 3.45-micron pixel size, 8-bit, high sensitivity, high resolution*
- *Hamamatsu ORCA-Flash4.0 V3 Digital CMOS camera USB version, 6.5-micron pixel size*

Applications

- *Whole section scanning*
- *Brightfield microscopy*
- *Polarised light microscopy*
- *Darkfield microscopy*
- *Phase contrast microscopy*
- *Fluorescence microscopy*

Software

- *Olympus SLIDEVIEW; includes automatic sample detection, deep learning*

Specifications

- *Objectives: 2x - for brightfield macro-overview, 4x - for fluorescence macro-overview, 10x/0.3 NA UPFLN (also phase contrast). 20x/0.8 NA UPLXAPO, 20x/0.5 NA UPLFLN (also phase contrast), 40x/0.95 NA UPLXAPO (all air/dry lenses)*
- *Automated 180 slide loader*
- *XYLIS XT720S light source for fluorescence imaging, white LED for transmitted light imaging*
- *Slide trays for non-standard slides available - 2 trays for 2"x3" for 3 x slides, 1 tray for 3"x4" for 1 x slide, 1 tray for 4"x5" for 1 x slide*

Fluorescence filter sets

Filter set	Excitation range	Emission range
DAPI	*365/20 nm*	*450/40 nm*
CFP	*436/20 nm*	*473/24 nm*
FITC	*490/20 nm*	*525/36nm*
YFP	*500/20 nm*	*540/24 nm*
Cy3	*555/25 nm*	*590/20 nm*
mCherry	*575/25 nm*	*645/75 nm*
mCherry – narrow	*575/25 nm*	*640/20nm*
Cy5	*645/30 nm*	*700/50 nm*
Cy7	*725/40 nm*	*800/40 nm*

Contact person

Ratish Kurian

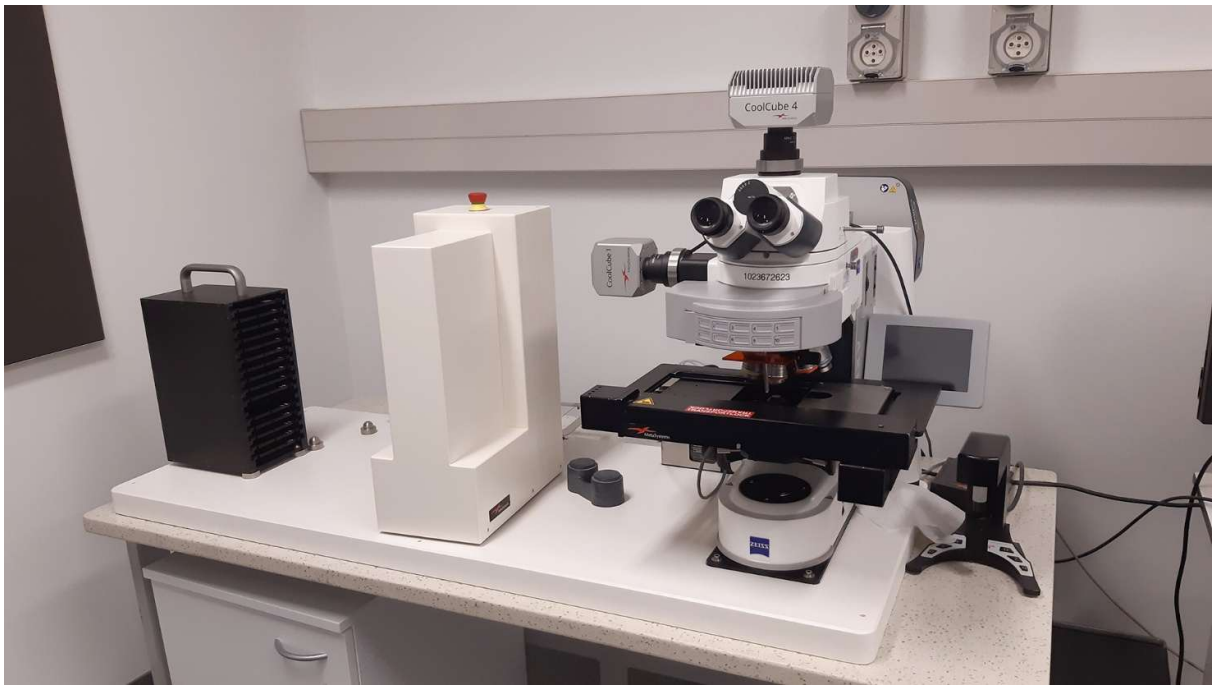
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MetaSystems VSlide slide-scanner



Introduction

The MetaSystems VSlide is a high-performance slide scanner offering whole-section and region of interest (ROI) scanning. Users can define scan areas at low magnification and automatically capture them at higher resolution.

It supports tissue microarray (TMA) scanning with real-time analysis, and offers imaging in brightfield, high-resolution brightfield (via a monochrome camera), and fluorescence, making it ideal for both research and diagnostic applications.

Cameras

- *CoolCube1 (colour) CCD*
- *CoolCube 4m TEC (monochrome) sCMOS, resolution 4096 x 300 pixels (12MPixel)*
- *30 frames per second read-out speed, pixel size 3.45 x 3.45 microns, thermo-electric cooling*

Applications

- *Whole section scanning*

- *Brightfield microscopy*
- *High resolution brightfield (using the monochrome camera)*
- *Fluorescence microscopy*
- *Region of interest (ROI) scanning including setting up a scan field (region of interest) at low magnification and then scanning the ROI at higher magnification/resolution*
- *Tissue microarray scanning*

Software

- *MetaCyte acquisition software and stitching*
- *Tissue Micro Array (TMA) analysis*

Specifications

- *Zeiss Axio Imager Z2 fully motorised microscope*
- *Marzhauser Motorised 5 position scanning stage; ergonomic driver for XY stage control*
- *Objectives: Dry (2.5x/0.075 NA, 10x/0.45 NA, 20x/0.9 NA, 40x/0.95 NA) Oil (40x/1.3 NA, 63x/1.4 NA), automated oiler module*
- *Automated 80 slide feeder*
- *Colibri 7 light source for fluorescence imaging, 3-colour LED for brightfield light imaging*

Fluorescence filter sets - Multiband

81 HE – QUAD filter

- *suitable for fluorescent dye combinations like DAPI, FITC, DsRed, Cy5*
  - *Uses LEDs 385, 475, 555, 630nm*
  - *Collects emission bands 375/38 + 484/25 + 553/18 + 631/22*

112HE – PENTA filter

- *suitable for fluorescent dye combinations like DAPI, FITC, DsRed, Cy5 and Cy7*
  - *Uses LEDs 385, 475, 555, 630, 735nm*
  - *Collects emission bands 425/30 + 514/31 + 592/25 + 681/45 + 785/38*

Fluorescence filter sets – Single band

Filter set	LED	Emission range
#01	*385 nm*	*447/60 nm*
#02	*430 nm*	*550/32 nm*
#03	*475 nm*	*527/20 nm*
#04	*555 nm*	*580/23 nm*
#05	*590 nm*	*628/32 nm*
#06	*630 nm*	*676/29 nm*
#07	*735 nm*	*809/81 nm*

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