

# VS2: Evident VS200 Slide scanner, LSB B202 (STF funded)

## Intended samples

- glass slide with or without coverglass
- 1 slide tray with 6 slots for 25 mm × 75 mm slides
- observation methods: brightfield, darkfield, polarized light

## Optical frame, upright

- LED illuminator with built-in Köhler illumination for transmitted light
- motorized XYZ stage
- camera: 2/3" CMOS, 3.45 μm pixel size
- 6 position motorized nosepiece and automatic immersion oil dispenser
- objectives
  - PLN2X, NA 0.06, WD 5.8 mm
  - UPLXAPO10X, NA 0.40, WD 3.1 mm
  - UPLXAPO20X, NA 0.80, WD 0.60 mm
  - UPLXAPO40X, NA 0.95, WD 0.18 mm, correction collar for cover glass thickness (0.11 mm - 0.23 mm)
  - UPLXAPO40XO oil immersion, NA 1.40, WD 0.13 mm
  - UPLXAPO60XO oil immersion, NA 1.42, WD 0.15 mm

## Scanner

- pixel resolution with color camera: 5.48 μm/pixel at 1×
- software features
  - automatic sample detection (generic and TruAI deep learning)
  - automatic barcode reading
  - automatic focus mapping
  - automatic scanning
  - automatic stitching
  - pause and resume scanning
  - Z stack imaging
  - extended focus imaging (EFI)
  - image format: vsi, JPEG, TIFF, DICOM
  - synchronized multi-image display
  - stepless zooming and zooming while scanning