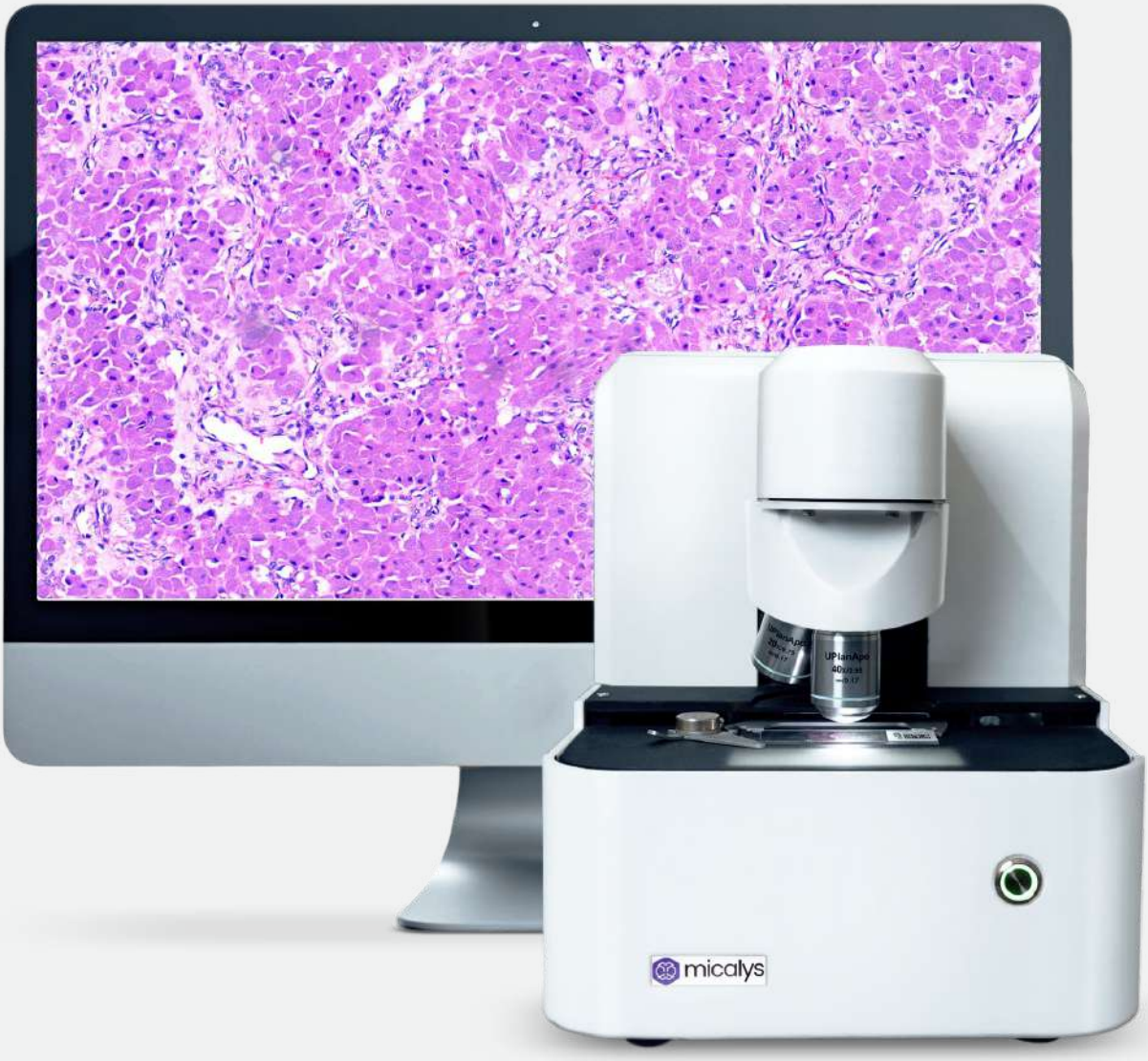
micalys

# Automated digital microscope cum scanner

Whole Slide Imaging | Robotic Remote Control | AI Assistance



# Unlock endless modalities with Micalys

**Whole Slide Imaging**
Capture entire slides, share and collaborate

**Digital Microscopy**
Stage, focus, and magnification control using joystick

**Robotic Remote Control**
Live view with robotic remote control

**AI Assisted Diagnosis**
Peripheral Blood Smear(PBS), Filaria, and Malaria



# Whole Slide Imaging

**View a complete and detailed representation of your specimen using whole slide imaging**



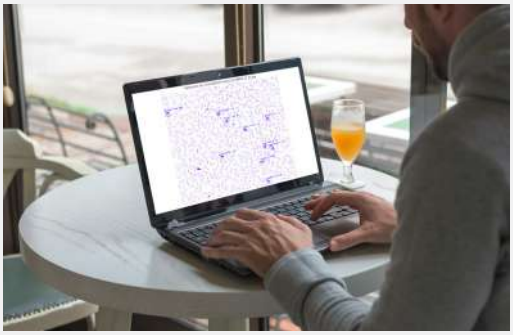
### WSI @100x Objective

Beyond standard imaging capabilities at 20x and 40x magnification. This scanner features whole slide imaging using 100x oil immersion objective

### Enriched Visualization

The system provides complete slide coverage, movement tracking, measurement tools with grid overlays, and annotation capabilities to highlight areas of interest and add comments





### Telepathology

Quick Share: Share individual slides via a temporary link for viewing without an account

Secured IP Sharing: Share cases securely with registered users for remote expert collaboration

# Robotic Remote Control

**More than just live view, control the stage position, focus, and magnification remotely. This is smooth, lag-free, real-time remote control**

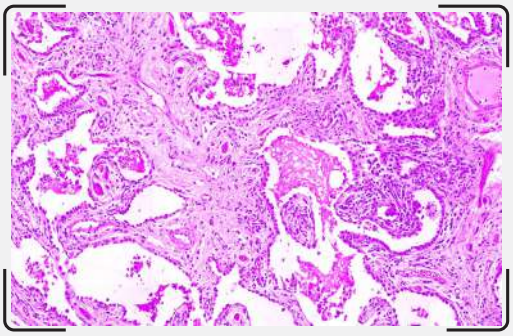



### Stage Control

Control automated X-Y and Z-axis motion remotely with sub-250 milliseconds of real-time latency using keyboard keys

### Image Quality

High-resolution image transmission for all sample types



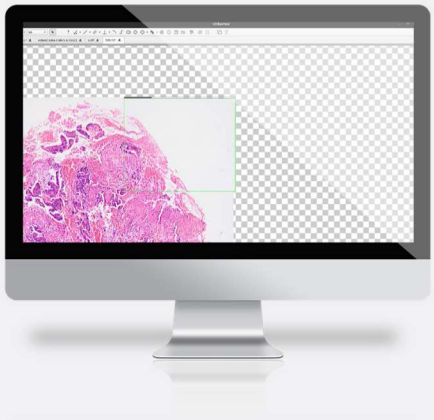



### Auto Turret

Change the lens using the auto turret mechanism. Can be used with all four objective lenses

# Digital Microscopy

**Micalys provides the features of a traditional microscope as well. Control of stage movement using joystick and digital capturing and visualization using CILIKA View**



### Manual WSI

Manually create a scan of a specific area of the sample as you explore it

### Joystick

X-Y and Z axis motion control

XY: Stage slide positioning

Z: Fine focus Automatic lens change



### CILIKA View Software

Digital capturing, visualization, annotation, sharing, and more

# AI Assisted Diagnosis (Upcoming)

**Future ready to support all Artificial Intelligence (AI) applications**



### Peripheral Blood Smear

Using AI, Micalys categorizes WBCs into 11 classes for comprehensive analysis. This automates and streamlines the classification of white blood cells, leading to faster and more accurate diagnosis

### Filaria

Micalys uses AI to identify and count filaria worms on slides at a 20x objective lens, significantly improving efficiency in parasitological diagnosis





### Malaria

Supportive AI-based software assists in detecting the presence of malarial parasites, identifying species, parasite load, and stage of growth

# Technical Specifications

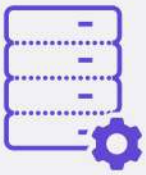
| | |
|---|---|
| **Objective lens** | UPLAN APO 20x/40x, Infinity corrected Plan achromat<br>100x Oil immersion objective (Optional: 20x/40x infinity corrected Plan achromat) |
| **Scan Speed (15mm*15mm)** | 20X: ~60s (UPLAN APO) \| 40X: ~160s (UPLAN APO) \| 100X: ~800s |
| **Resolution** | 20X: ~0.50 µm/pixel \| 40X: ~0.25 µm/pixel \| 100X: ~0.11 µm/pixel |
| **Slide capacity** | One slide and three slides |
| **Slide format** | 75mm x 25mm |
| **Illumination** | Koehler 5W LED |
| **Focussing** | Real-time autofocus focusing mechanism |
| **Barcode reader** | 1D and 2D barcode reader |
| **Nosepiece** | Quadruple/Single lens |
| **Lens change** | Manual or Automated |
| **Scanning mode** | Normal, Medium, and High precision autofocus, Z stack - 11 layers |
| **CPU** | Processor: i5 or more \| RAM: 32GB or more \|<br>Memory: 1TB or more NVMe internal storage |
| **CPU type** | Integrated or external |
| **Display (min config.)** | IPS FHD 22” |
| **Power supply** | Wide Range Voltage 110~240V |
| **Physical Dimensions** | Size (W x D x H): 230mmx 216mmx 269 mm Weight: 6 kg |

# Optional Add-Ons

- **Joystick with CILIKA View software**
- **Automated turret change**
- **Monitor 22"/24" FHD**
- **Live view with robotic remote control**
- **Integrated CPU**

# Boost your output :
# Maximize Results, Minimize Time

- **Exceptional speed and resolution:**
  Scanning speeds of 60s at 20x and 160s at 40x, combined with exceptional resolution of 0.50 µm/pix and 0.25 µm/pix, respectively
- **WSI at 100x objective :**
  Whole slide imaging at 20x, 40x, and 100x oil immersion objective
- **11 layers of z-stack:**
  Enables detailed multifocal plane analysis
- **Reliable and precise:**
  Our robust design eliminates downtime and calibration issues
- **Sample types:**
  Perform WSI on Histo, IHC, Cytology, and Blood samples



Micalys has its own data management software and does not require any additional software.



1TB local storage, expandable up to 4TB, along with a network-attached storage (NAS) system for on-premises backup, providing the desired storage space.

Scan to experience the image quality


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