

# miLab™

## AI-Assisted Digital Microscopy



### Hematology

Malaria & CBC/Blood Morphology



### Cytology

Cervical Cytology Testing

# Do Less See More

# From Sample to Result - Highly Automated

Reinventing Microscopy with Automation and AI

## Core Technology

### NGSI™ (Next Generation Staining and Immunostaining)

A solid-based staining technology that transfers dye by pressing a stain-infused hydrogel directly against the sample



Designed for Reduced Environmental Impact

### On-device AI\*

Noul's AI algorithm embedded in the miLab™ platform provides standardised results from digital image data

\*Selected as a 'Top 5 AI Startup Trend' at NVIDIA GTC 2021.

### All-in-one platform

Integrates over 40 technologies including bio, material, chemicals, optics, semiconductors, software, hardware, and AI into a fully automated bench-top device, available in dedicated models for blood and cytology analysis

## Workflow

### Hematology (MAL+BCM)

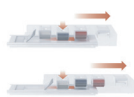
01

Sample Loading



02

Smear, Fix, Stain



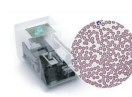
03

Digital Optical imaging



04

On-device AI Analysis



05

Result on Screen



Slide Preparation



AI Analysis



Diagnostic Review

### Cytology (CER)

01

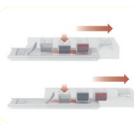
LBC Slide Insert

\*Specimens must be prepared with noul-validated LBC models



02

Staining



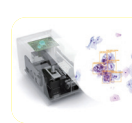
03

Digital Optical Imaging



04

On-device AI Analysis



05

Result on Screen



Automated Staining



AI Analysis



Diagnostic Review

## Benefit

01



More Walk-Away Time,  
Less Workload

02



Reduce Human Error,  
Ensure Consistent Results

03



AI-Assisted Analysis,  
Reduced Responsibility Burden

Reduce reliance on manual slide preparation and interpretation through automation and AI-assisted analysis.

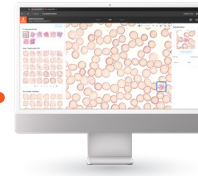
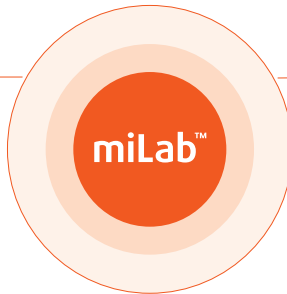
# miLab™ Series : Specialized for Hematology & Cytology

For Malaria, CBC & Blood Morphology, and Cervical Cytology



## miLab™ Platform

An all-in-one platform that streamlines microscopic diagnostics with AI-driven analysis.



## miLab™ Analysis Software

miLab™ Viewer - A viewer for real-time review of AI-generated results on the miLab™ Platform.



## miLab™ Cartridge

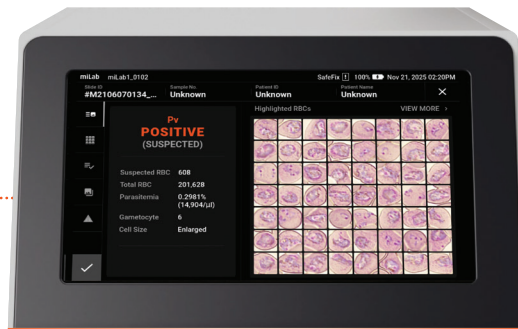
A smart cartridge enabling automated, consistent gold-standard staining for blood and cytology diagnostics.

miLab™ for Blood




**miLab™ MAL**  
Cartridge

AI-assisted analysis for malaria detection

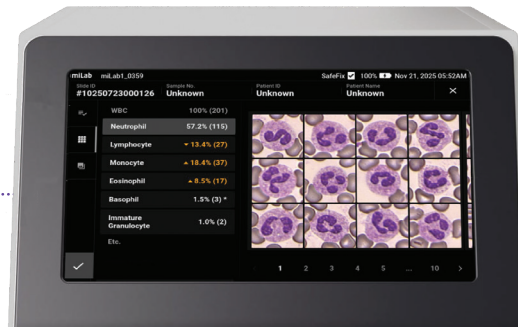


Improving access to reliable malaria diagnosis in various clinical settings




**miLab™ BCM**  
Cartridge

AI-assisted digital hematology for CBC & morphology



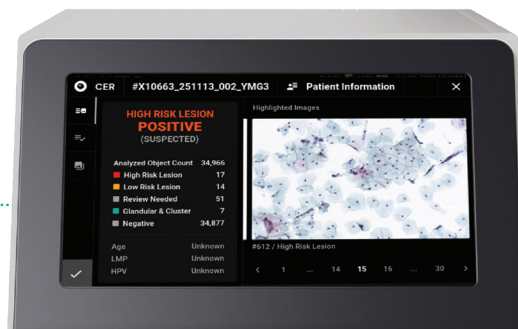
Improving accuracy and consistency in routine hematology

miLab™ for Cytology



**miLab™ CER**  
Cartridge

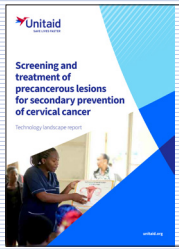
AI-assisted analysis of liquid-based cervical cytology (LBC) samples



Expanding access to cervical cancer screening and supporting women's health

# Proven Diagnostics, Ready to Scale

## Featured in **Unitaid's** Global Technology Landscape



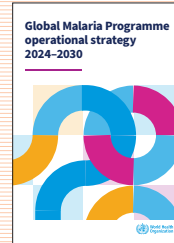
**Technology Landscape: Screening and Treatment of Precancerous Lesions for Cervical Cancer Prevention, 2024**

*“A computer-assisted cytology system that uses an AI-based algorithm”, miLab™ CER*



**Malaria Diagnostics Market and Technology Landscape, 2022**

*“The Most Advanced Digital Microscope and Fully Integrated Bench-top Platform”, miLab™ MAL*



Aligned with **WHO's PPC (Preferred product characteristics)** for **Digital Malaria Microscopy**

## Ordering Information

Product Name	miLab™ Platform MAL/BCM	miLab™ Cartridge MAL	miLab™ Cartridge BCM	SafeFix™	miLab™ Platform CER	miLab™ Cartridge CER	SafeFix™ CER
Reference No.	DMLA-AC50	CMAA	CBCA	CSFA	DMLA-SA20	CCEA	CSCA
Minimum Order Quantity	1	1 Box (200 cartridges)		1	1	1 Box (200 cartridges)	1
Dimension (W x D x H / mm) Weight or Volume	212 x 390 x 244 11kg	Cartridge: 92.4 x 40.4 x 14.6 Microscope slide: 25.4 x 76.2 x 1 28 g		60 x 70 x 85 220 ml (~500 test)	212 x 390 x 244 11kg	Cartridge: 95.2 x 40.3 x 14.5 25.5 g	60 x 70 x 85 220 ml (~400 test)
Operating Conditions	15 ~35 °C	20 ~ 35°C		15 ~35 °C	15 ~35 °C	20 ~ 35°C	15 ~35 °C
	25~80% Relative Humidity	15 ~ 80% Relative Humidity	25~80% Relative Humidity	—	15 ~ 80% Relative Humidity	25 ~ 80% Relative Humidity	—
Storage conditions	4 ~ 30 °C		4 ~ 30 °C		4 ~ 30 °C		—
	30% ~ 60% Relative Humidity	15 ~ 75% Relative Humidity		—	30% ~ 60% Relative Humidity	15 ~ 75% Relative Humidity	—
Shelf Life from the date of manufacture	—	24 months		12 months (Open stability : 6 months)	—	12 months	12 months (Open stability : 6 months)
Remark	—	—	—	DG Packing Required	—	Shelf life : 12 months at room temperature and 24 months for cold storage *depends on the country's regulatory approvals	DG Packing Required

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