

# MULTISCAN

### AI-POWERED DIGITAL AUTOMATED MICROSCOPY AND SCANNER

For streamlined laboratory workflows and routine analyses





### **QUICK START GUIDE**

### How to start a measurement with the Multiscan

- 1. Connect the USB cables to the supplied USB-C hub
  - Then plug the hub into the USB-C port on the back of the laptop
- 2. Start the machine with the power button
  - The system will automatically reference itself
- 3. Log in
  - Double-clicl on CS-Multiscan icon on the desktop to start the program
  - Use your credentials (Ex. admin/admin)
  - Check if "Connected to S1-Multiscan"

### 4. Open the scanning module

Click on



in the top left menu

• Select the appropriate slide you wish to scan

### 5. Set scan parameters

- Enter a Slide ID under "Slide Parameters" and set the storage path (local folder) under "Measurement"
- Choose the AI analysis mode

MEASURMENT				
Analyse Mode	• [			
ParaV1.06	•	UNLOAD SLIDE HOLDER		
General Setting	ps	CTARY		
Auto Grid/Focus	•	SIAKI		
SET STORAGE PATH	4	LIVE VIDEO		
	ENABLE SE	TTINGS		

### 6. Load the samples

- Place the slides on the sample tray
- Red pin must be correctly positioned
- Click "Load Holder"
- Press "Live Video" to see the live camera



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### 7. Adjust the brightness

• Use the brightness lever for adjustments.

### 8. Set the starting point (if needed)

- Use the X+, X–, Y+, Y– buttons to move the microscope
  - For microscopic slides, position the objective at the center of the sample
  - For McMaster, place the starting point at the top-left corner of the chamber (usually set automatically)



Sample ID9

New coordinates for slide 1 are stored.

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OK

### 9. Save the starting position (if needed)

- Double right click on the red circle of sample in Slide Parameters
- A message will confirm: "New coordinates for slide X are stored."
  Click OK or Exit.

Slide 1: epfdMDS\_0501

### 10. Repeat for additional slides

- · Left-click on the circle for the next slide
- Adjust position and double right-click to save the new starting point

### 11. Start measurement

· Press Start and let the system run

SLIDE PARAM	IETERS				MEASURMENT		MACHINE CONTROL	L					
Slide 1: ●	pfdMD5_0501	•	Sample ID9		Analyse Mode				U+				HOME POSITION
Slide 2: 🔴	pfdMDS_0502		Sample ID10		Measureme	nt is running!							
Slide 3: 😑	pfdMDS_0503	0	Sample ID11					Y+			Z+		
Slide 4: 😑	pfdMD5_0504	•	Sample ID12		2 C								
Slide 5: 😑	pfdMD5_0505		Sample ID13		1. I I I I I I I I I I I I I I I I I I I	LIVEVI	FW		X+				CHANGE
Slide 6: 😑	pfdMD5_0506	0	Sample ID14		••								roamon
Slide 7: 😑	pfdMDS_0507	•	Sample ID15			STO		Y-			Z-		AUTO
Slide 8: 😑	pfdMD5_0508		Sample ID16		SKIT SEIDE							Wind	ows aktiviere
	DUAL ANALYSIS			_			50 500	10000		15	50	300 Wechs	eln Sie zu den Fin
	CLEAR ALL		ENABLE SETTINGS		500	μm		5	5	μm			

### **12. After the measurement**

- Click "Unload Holder" and remove the scanned slides
- Place the next batch and repeat the procedure from Step 4 onward.



### AI ANALYSIS REVIEW

### How to review and validate AI-powered results

### 1. Open analysis results

Click on



in the top left menu

### 2. Select measurements

- Click on "Folder" to open results. A list of samples will appear
- For slides with multiple scanned areas, individual scans can be accessed by selecting the corresponding entry
- 3. Click "Details" to

load information

### 4. Open scans under

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$\mathbf{Q}$	3
	4
DETAIL VIEW	5

F	older Refresh Details	Save	•		
10.	SLIDE-ID	DATE	EMPLOYEE	ANALYSED	PROGRESS
	1480	3/30/2025 5:36:08 PM	Admin	ParaV1.06	Reviewed
	1480-S1	3/30/2025 5:36:08 PM	Admin	ParaV1.04	
	1480-S2	3/30/2025 5:36:09 PM	Admin	ParaV1.06	
	17C	3/30/2025 5:36:07 PM	Admin	ParaV1.06	Reviewed
	18C_V2	3/30/2025 5:36:08 PM	Admin	ParaV1.06	Reviewed
	30035	3/30/2025 5:36:09 PM	Admin	ParaV1.04	AI-Analyse
	30178_3	3/30/2025 5:36:13 PM	Admin	ParaV1.06	Reviewed

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### 5. Results view

- The left side shows the full sample overview with Al-identified particles. Use the mouse wheel to zoom in and out
- The right side lists all detected particles. Double-clicking a particle shows its position in the overview and opens detailed information

### 6. Evaluate results

- Review detected particles in the right panel by scrolling through the list:
  - Delete a particle if it was wrongly detected
  - Right-click to assign a different class if the label is incorrect.





• If an egg was missed by the AI, select the correct class in "Result Filter", then draw a box over the particle using the left mouse button



### 7. Finalize reviewed results

• After completing your review, check the

"Reviewed" box on the top-left Menu and click "Save"

• Reload the analysis to display the reviewed version

### 8. Switch to the "Results" tab

- The status bar shows if results are marked as reviewed
- Click "Save" to export results as an Excel file



#### Links for additional resources:

- User manual
- <u>Demo video (2024)</u>



Main

Reviewed: 🗸

RESULTS

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## **GET IN TOUCH**



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