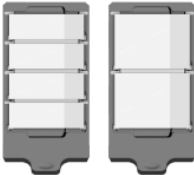


NED Micro Datasheet



Model	NED.Micro.DP +POL	NED.Micro.DH
Used for	Digital Pathology	Digital Hematology
Microscopy technique	Diascopic bright-field observation Optic with infinite correction of type UIS2	
Observable specimens	Up to 4 prepared slides Any kind of slide (within size limits)	
Observable range	Slideholder x4 slides 75 x 25 mm Slideholder x2 slides 75 x 50 mm	
Optical system	Light source: High-intensity white LED 18.000 cd/m ² to 90.000 cd/m ²	
Objectives (default configuration) <i>* Customizable.</i>	1,25X PlanApo 2X PlanApo N 4X UPlanFL N 10X UPlanFL N 20X UPlanFL N 40X UPlanFL N	1,25X PlanApo 20X UPlanFL N 40X MPlanFL N Dry (No cover) 100X MPlanFL N Dry (No cover)
Polarizer - optional	Real-Time transmission of cross-polarized images (CE-IVD Pending)	-
Motorized Function - Default	X Y (stage 4 slides) + Eject Z (focus) R (nosepiece)	

- Optional	P (polarizer) A (analyzer) Analyzer 0° to +90°	-
Focus Drive	Objectives vertical movement system. Focus movement resolution 11 nm. Stroke 4 mm. Max speed 22 mm/s.	
Stage	XY movement resolution 930 nm. Stroke: X: 60 mm, Y: 130 mm. Max speed: 800 mm/s.	
Starting and Setup	About 30 seconds.	
Imaging	Display-modes: Live. 1920 x 1200 px at 30 fps.	
Focus	Multiple Autofocus, manual focus.	
Exposure compensation	~ 1 - 35 ms	
Color adjustment	Contrast, Brightness, Saturation (global and single color), Hue (global and single color), Sharpness, Advanced Color Matrix Correction. Custom camera setting profiles.	
Marking mode	Allows to draw different types of shapes.	
Measurement mode	Line, Rectangle, Ellipse, Polygon, Points - Length, Area, Perimeter, Count	
Image capture	Macromap: 720x240 px. Real Time: 1920x1200 px.	
Z-Stack	-	1 up to 29
Image storage format	BMP, JPEG, TIFF, PNG	
AI	-	RUO - AI model for White Blood Cells pre-classification.
Remote operation	Webserver P2P - No external sources/servers - JPG streaming	
Remote Users	1 locally, 1 remote master, up to 3 remote viewers simultaneously	
Remote Control	Proprietary software Chromium-based browser. Dedicated Android application for remote use (smartphone / tablet)	

External interface	Gigabit Ethernet interface 4x USB 2.0 1x USB 3.0 HDMI (up to 3840 x 2160 px @30Hz) DisplayPort (* need a converter)
Operating system	Windows 10 IoT Enterprise LTSC 21H2 (64bit) / Windows 11 IoT Enterprise LTSC 2024 (64bit)
CPU	Intel® Atom™ x7-E3950 Quad Core @1.6 GHz (Burst 2.0GHz) 2MB L2 Cache, 12W TDP / Intel® Atom® x6425RE Quad Core @1.9GHz - 12W TDP, IBEC and TCC, LPDDR4-3200 16GB - Intel® Gen11 UHD Graphics controller.
Input devices	Mouse, keyboard, external keypad, joystick, custom controller console
Main body ratings	1 110-230Vac / 50-60 Hz PWR: 250W - Fuses UE 2X T1,25A USA 2X T2A H250V
Dimension and weight	300 x 460 x 420 mm – 11.81 x 18.11 x 16.53 in 22 Kg – 48.5 lbs.
Certification	CE – IVD FDA Cleared
Made	Made in Italy

