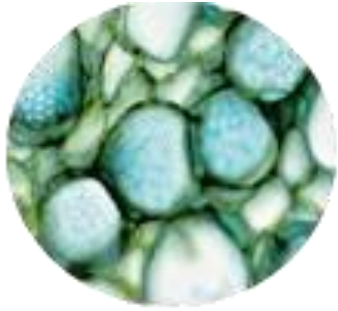# LAVENDER PRO MCX100 LCD

Premium microscope for routine laboratory applications

- 3 YEARS WARRANTY
- ICO² Plan objectives 4/10/40/100
- ARCTYPE observation tube
- Quintuple nosepiece
- Halogen/LED illumination
- Mechanical Rackless stage
- Screening Kit with 5MP Camera

micros
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Optical System:

The ICO² Plan Infinity corrected objective series ensures the highest image quality. The optical system is provided with Anti-Fungus treatment. All optical parts, like eyepieces-, objective-, condenser- and prism lenses are made of LEAD free glass.

Rackless mechanical stage

The missing rack eliminates injuries to the hand. The specimen holder makes it easy and simple to place slides using only one hand.

Illumination – Bright and clear is Essential

The LAVENDER MCX100 is equipped with LED illumination, Which is energy saving. The economic and very long lasting LED provide a bright illumination which is very similar to daylight.

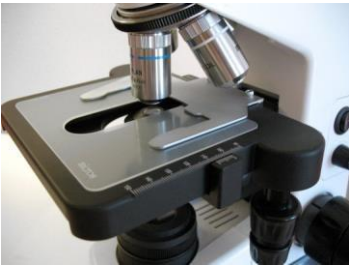

ARCTYPE ergonomic observation tube

With an inclination of 30° the ARCTYPE observation tube allows the greatest possible relief of the neck musculature. Adjustable interpupillary distance with diopter compensation from 48 to 75 mm can be individually adapted. Eyepieces are suitable for spectacle wearers.

Quintuple nosepiece:

A rear-facing nosepiece creates more space on the stage and a perfect sight onto your specimen for much easier handling.

Digital Screening Kit for Microscopes

ERGONOMICS

The ergonomic design of body and all the control elements enables a relaxing and comfortable sitting position in front of the microscope, also trough long working hours. The focus controls at a very low position ensure fatigue free work, because the hands can be placed on the desk while operating.

The cross section of the microscope base resembles the letter "Y" which ensures great stability.

Technical Specifications	
Image Sensor	Colour CMOS
Pixel	5.0MP
Pixel size	1/2.8"
Menu	All-digital UI design
Method of Operation	Mouse
Lens interface	C-type
Power DC	DC12V
Output method	HDMI
White Balance	Auto / Manual
Exposure	Auto / Manual
Display Frame rate	1080P@60fps/1080P@50fps
Scanning method	Line by line scanning
Shutter Speed	1/50s(1/60s) └1/10000s
Operating Temperature	0℃ ~ 50℃
Magnification / Zoom	Support
Saving function	Support U disk storage

Optical System	Infinity corrected optical system
Standard magnification range	40x - 1000x
Koehler illumination system	Advanced LED optical lighting system, LED lifetime (approx. 30.000 hours)
Microscope	Sturdy base 270 x 250 mm base with supportive rubber feet Anti-fungus treatment for all optical parts
Focusing	Coaxial coarse and fine focus control. Total focusing range 20 mm including tension adjustment and safety autofocus stop unit
Nosepiece	Quintuple, reversed angle, elastic nosepiece grip-ring
Head	Binocular ARCTYPE observation tube, 30° inclined, 360° rotatable, interpuppillary distance 48 - 75 mm, diopter adjustment
Stage	Rackless, double layer mechanical stage, 150 x 133 mm with exchangeable, ultra-hardened, frosted, flexible glass plate with rounded edges for safe handling, stage movement up/down 20 mm, traveling range 76mm (X) x 30 mm (Y), specimen holder for one hand operation Sliding Stage - Double layer moveable round stage, Ø 160mm, moving range, 19 x 40 mm, stage movement up/down 16mm. For right hand and left hand use. [2]
Condenser	Abbé brightfield condenser, n.A. 1.25, aperture iris with scale for each objective centerable
Objectives	ICO2 Plan 4x/0.10, WD 17.8 mm, CC 0.17 ICO2 Plan 10x/0.25, WD 17.96 mm, CC 0.17 ICO2 Plan 40x/0.65, spring loaded, WD 4.5 mm, CC 0.17 ICO2 Plan 100x/1.25 oil, spring loaded, WD 1.81 mm, CC 0.17
Eyepieces one pair	EW 10x/20 Widefield (Ø 23 mm)
Optional accessories	Trinocular observation tube, eyepiece with pointer, reticule or crosshair, stage micrometer 0.01 mm, aluminium transport case, multi observation unit, documentation systems, temperature controlled stage, phase contrast, darkfield attachment, fluorescence attachmend, LED fluorescence attachmend
5MP Digital Screening Kit	5MP live CAMERA, All-in-one microscope, easy to use, mouse operation, SD storage, contains horizontal and vertical flipping, playback browsing, dividing line setting and image comparison functions, integrated in industrial microscopes, The intuitive handling and the powerful image processing and presentation functions (supporting image browsing, photos, videos, storage, dynamic calibration, measurement …) makes this system perfect for researchers, educational use, manufacturing, inspection and many other applications

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