



Model:

BL224T1 - 630-2672

Typology:

ROUTINE DIGITAL MICROSCOPE WITH TABLET

Description:

Educational and laboratory microscope for routine applications, with integrated camera and removable 8.9" full HD tablet.

Dye-cast frame, with high stability and ergonomics, for transmitted light observation.

Tablet PC with detachable system.

TABLET SPECIFICATION

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| Model | Tablet 8.9" |
| Operating System | Windows 8.1 32-bit, Microsoft Office 365 Personal (1 year subscription) |
| Language | Multilanguages already installed |
| CPU | Intel® Bay trail Z3735F, Quad core |
| CPU speed | 1,83 GHz |
| Graphics Card | Intel® HD Graphics, LPDDR3 controller |
| Memory | Ram 2,048 GB, LPDDR3 |
| LCD display | LED 8.9" IPS Multi Touch Screen |
| LCD resolution | 1920 x 1200 Full HD, Active Matrix TFT Colour LCD |
| Storage | HDD 16+16GB |
| Network | Wireless IEEE 802.11 a/g/n Bluetooth 4.0 |
| Input/output ports | Micro USB-B - Microphone Micro SD card reader - Micro HDMI Head-phone - Separated power supply input |
| Control Buttons | Auto rotate off, volume control |
| Battery Technology | Lithium-ion battery, 2x cell |
| Battery capacity | 6000 mAh |
| Max load | 10 W |
| Battery Life | Up to 10 hours, up to 5,5 hours in continuous Camera Live View mode. |
| Connection to the Load | Power supply 5,35 V 2A with, EuroPlug connection for 100-240 VAC, USB port with USB cable |
| Dimensions | Thickness 9,5 mm Height 15,7 cm Width 22,0 cm |
| Weight | 477 g |
| Cables included | USB camera cable, OTG cable |
| Also included | Instruction manual, Touch Pen and keyboard with touchpad. |

MICROSCOPE SPECIFICATIONS

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| Model | Binocular with double layer stage, objectives 4x 10x 40x 100x |
| Head | Binocular Digital observation head, inclined 30° and rotatable 360°. Diopter adjustment on left eyepieces. Interpupillary adjustment 48-75 mm. |
| Observation Modes | Brightfield |
| Eyepieces | Widefield eyepieces WF10X/18 with field number 18mm. |
| Nosepiece | Quadruple revolving nosepiece, rotation on ball bearings. |
| Objectives | Achromatic objectives with mechanical tube length 160 mm, made by following objectives: -) Achromatic DIN 4X, A.N. 0.10, W.D. 18 mm -) Achromatic DIN 10X, A.N. 0.25, W.D. 7 mm -) Achromatic DIN 40X, A.N. 0.65, W.D. 0,53 mm -) Achromatic DIN 100X, A.N. 1,25, W.D. 0,13 mm (oil immersion) All objectives are treated with an anti-fungus treatment. |
| Stage | Double layer with mechanical sliding stage, size 125x115mm, X-Y movement range 70x30, specimen holder for one slide. Vernier scale on the two axes, accuracy 0,1 mm. |

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| Focusing System | Coaxial coarse and fine focusing mechanism (graduated, 0.002mm) with upper stop, to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob. |
| illumination | Light source type P-LED ² with white LED; light intensity control using a knob on left side of the frame. LED power 3W, comparable to an halogen bulb 30-35W. Color temperature: 6300K LED average life time approx. 50.000h. Voltage: external power supply 100/240Vac, 50/60Hz, output: 6 V Max power required: 7W |
| Condenser | Abbe condenser, N.A. 1,25 precentered |
| Dimensions | HEIGHT: 400 mm WIDHT: 235 mm DEPTH: 290 mm WEIGHT: 7,0 kg |

CAMERA SPECIFICATIONS

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|------------------------------|------------------------------------|
| Digital camera resolution | 3.14 MegaPixels |
| Analog camera resolution | NO |
| Signal output | USB 2.0 |
| Audio Signal | NO |
| Sensor Size | 1/2.5" |
| Sensor technology | CMOS |
| Image format | 4\3 |
| Full Image size | 2048 x 1536 |
| Pixel size | 2,2 x 2,2 micron |
| Frame rate full resolution | 5 frames\sec |
| Frame rate other resolutions | 8 FPS (1280x1024), 30FPS (640x480) |
| Sensitivity | 0,53 V/Lux-second (550 nm) |
| Signal / noise ratio | 40 dB |
| Dynamic range | 66.5 dB |
| Max Exposure time | 1,5 sec |
| ADC conversion | 12 BIT |
| Color Depth | 8 BIT |
| On camera IR Filter | 680 nm |
| Automatic White Balance | Auto - Man |
| Automatic Gain Control | Auto - Man |
| Automatic Back light control | Auto - Man |
| Exposure control | Auto - Man |

ACCESSORIES

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| Calibration Slide | YES |
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SOFTWARE SPECIFICATIONS

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| Supplied Software | VisiCam (full view function is also included for a wider Live Camera view) |
| Driver type | No driver (microsoft driver) |
| Capture features | Continuous auto exposure, image size, image capture, compressed video capture |
| Control parameters | Brightness, gain, exposur time, colors, color enhancement. |

GENERAL SPECIFICATIONS

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| Working temperature | +0 up to +60°C |
| Storage temperature | -20 up to +70°C |
| Relative Humidity | 45% up to 85% |