Patented Technology

A Product by medprime

cilika | BTE

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Digital Benchtop Microscope with Integrated Tablet Display

Technical Specifications

Upright bright-field digital benchtop microscope with high-grade optics and an integrated tablet display; an optional binocular/trinocular head can be used

Patented detachable digital head with internal magnification 10x / 20FN

Trueview™ technology enables 100% circular field-of-view capture through the tablet camera

Captured field of view via the tablet camera: 5 mm diameter with 4X objective, 2 mm with 10X, 1 mm with 20X, 0.5 mm with 40X, and 0.2 mm with 100x objective

Nosepiece: Quadruple, backward-facing, high-precision inner position stop click

Objective Lens: Four high contrast infinity corrected plan achromat objective lenses -
4X/0.10 W.D.=12.1mm | 10x/0.25 W.D.=4.64mm | 40x/0.65 W.D.=0.65mm | 100X/1.25 (Oil) W.D.=0.12mm

Focusing: Low-position coaxial coarse & fine focusing system, coarse travel range: 25 mm, fine focusing precision: 2 µm per division

Stage: Safety rackless mechanical working stage, Size 140 x 135 mm; travel range: 75 × 35 mm

Condenser: Abbe condenser, N.A. 1.25, with iris diaphragm, filter holder, and helicoid mechanism for vertical motion

Illumination: 3W LED light with aspheric collector

Display Options: Tablet (iOS) with 11-inch display, 12MP camera (3024 × 4032 image capture, 4K video at 3840 x 2160), and 128 GB storage
Note: The device is compatible with all iOS tablet models

Pre-installed application with the following features

Capture & Record: Digital zoom (up to 5x), Image capture, and video recording

Image Control: Adjust exposure, brightness, contrast, saturation, and temperature

Analysis Tools: Micrometry (linear & circular measurements in microns), annotations, text, addition, free-hand marking, and a pointer for demonstration

Data & Access: Data management, local desktop sync, and report printing with evidence

Optional accessories:

Observation tube:
Siedentopf trinocular head, inclined at 30°, rotatable 360°, with interpupillary distance of 48-75 mm. Eyepiece tube dia: 30 mm. Equipped with WF10x/22 mm high eyepoint eyepieces, each with adjustable diopter. Equipped with WF10x/20 mm high eyepoint eyepieces, adjustable diopter

Fluorescence 1 and 2 filter:

- **B:** 5W fluorescent LED, ultraviolet protection barrier
- **B & G:** 5W fluorescent LED built-in media device and ultraviolet protection barrier

Fluorescent filters	Exciter (nm)	Dichroic (nm)	Emitter (nm)
B	420-490	505	520
G	500-550	575	590

Phase contrast :
Phase contrast turret type for 10x, 20x, 40x, 100x, Darkfield, Brightfield | Infinity plan phase contrast objective 10x, 20x, 40x, 100x

Darkfield :
Darkfield condenser, dry, N.A. 0.83-0.91, for 4x, 10x, 40x objective | Darkfield condenser, immersion, N.A. 1.3, for 100x objective

WireFreeCast:
Wireless HDMI dongle for lag-free real-time casting to a projector or LCD screen

WANT A DEMO OR QUOTE ?

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Patented Technology

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cilika | BTP DUAL HEAD

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Trinocular Tablet Integrated Dual Head Digital Microscope

Technical Specifications

Upright bright-field digital benchtop microscope with tablet attachment at trinocular port, compatible with any tablet with high-quality optics

Enable simultaneous viewing through binocular eyepieces and the tablet display

Patented detachable digital head with Internal magnification 10X/20FN

TrueView™ technology enables 100% circular field-of-view capture through the tablet camera

Observation tube : Siedentopf trinocular head, inclined at 30°, rotatable 360°, with interpupillary distance of 48-75mm. Eyepiece tube diameter: 30mm

Eyepiece: WF10x/22 mm, high eyepoint, adjustable diopter

Nosepiece: Quintuple, backward-facing, high-precision inner position with stop click

Objective Lens: Four high contrast infinity corrected plan achromat objective lenses -
4x/0.10 W.D.=12.1mm | 10x/0.25 W.D.=4.64mm | 20X(optional) | 40x/0.65 W.D.=0.65mm | 100x/1.25 (Oil) W.D.=0.12mm

Focusing: Low-position coaxial coarse and fine focusing system; coarse travel range: 25mm, fine focusing precision: 2µm division

Stage: Safety rackless mechanical working stage, Size 182x140mm, travel range 77x52mm

Condenser: Swing-out type, N.A. 0.9/0.13 with iris diaphragm

Illumination: Köhler Illumination, 5W LED with adjustable intensity control

Display Options: Tablet (iOs) with 11-inch display, 12MP camera (3024 * 4032 image capture, 4K video at 3840 × 2160), and 128GB storage
Note: This device compatible with all the iOS tablet models

Pre-installed application with the following features

Capture & Record: Digital zoom (up to 5x), Image capture, and video recording

Image Control: Adjust exposure, brightness, contrast, saturation, and temperature

Analysis Tools: Micrometry (linear & circular measurements in microns), annotations, text, addition, free-hand marking, and a pointer for demonstration

Data & Access: Data management, local desktop sync, and report printing with evidence

Optional accessories:

Fluorescence up to 4 filters:

- **B:** 5W fluorescent LED, ultraviolet protection barrier
- **B & G:** 5W fluorescent LED built-in media device
- **B & G & V & UV:** 6 holes disc fluorescent unit, 5W LED lamp house, 5W LED power box, ultraviolet protection barrier

Fluorescent filters	Exciter (nm)	Dichroic (nm)	Emitter (nm)
UV	330-380	400	435
V	380-420	430	460
B	420-490	505	520
G	500-550	575	590

Phase contrast :
Phase contrast turret type for 10x, 20x, 40x, 100x, Darkfield, Brightfield | Infinity plan phase contrast objective 10x, 20x, 40x, 100x

Darkfield :
Darkfield condenser, dry, N.A. 0.83-0.91, for 4x, 10x, 40x objective | Darkfield condenser, immersion, N.A. 1.3, for 100x objective

Polarizing:
Polarizer and analyzer set

WireFreeCast:
Wireless HDMI dongle for lag-free real-time casting to a projector or LCD screen

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