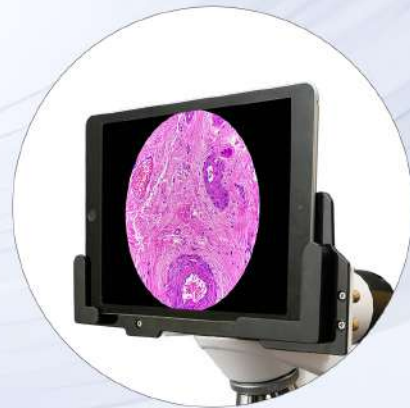


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Trinocular Microscope Upgradable with
Digital Attachment or Integrated Digital Head for
Tablet/Smartphone Compatibility



Technical Specifications

Upright bright-field analogue benchtop microscope with high-quality optics. **Upgradable to digital microscope** either by adding a **digital attachment** on the trinocular port or by replacing the binocular head with an interchangeable **digital head**

Observation tube: Siedentopf binocular/trinocular head, inclined at 30°, rotatable 360°, with interpupillary distance of 48–75 mm. Eyepiece tube dia: 30 mm

Eyepiece: WF10x/20 mm, high eyepoint, adjustable diopter

Nosepiece: Quadruple, 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 | 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: 25 mm, fine focusing precision: 2 µm per division

Stage: Safety rackless mechanical working stage, size 140 × 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

Digital Upgrade (Optional)

The microscope can be upgraded to a digital system through either of the following:

- **Digital Attachment:** Mounts directly on the trinocular port and allows simultaneous viewing through the eyepieces and the **smartphone display**
- **Tablet-Integrated Digital Head:** Replaces the existing trinocular or binocular head to instantly convert the microscope into a fully digital system

Patented detachable digital head/attachment with optical components (prisms, eyepieces, etc.); Internal magnification 10x / 20 F.N.

TrueView™ technology enables 100% circular field-of-view capture via the tablet/smartphone camera

Captured field of view through tablet/smartphone: 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

Display Options:

- **Digital Attachment:** All smartphone models with side position camera
- **Tablet-Integrated Digital Head:** Tablet (iOS) with 11-inch display, 12MP camera (3024 × 4032 image capture, 4K video at 3840 × 2160), 128 GB storage.
Note: This Device is Compatible with all iOS Tablets

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:

Camera options:

- CILIKA-CAM-5.0-35GC / Ciiika- CAM-8.0- 30RC/ CILIKA-CAM-10.3 COOL/ Ciiika- CAM-8.3- 30RC/ Ciiika- CAM-12- 30RC
- Ciiika View software: Camera control, calibration, measurement, and image analysis

Fluorescence 1 and 2 filter:

- **B:** 5W fluorescent LED with ultraviolet protection barrier
- **B & G:** 5W fluorescent LED with 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

WireFree Cast:

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

Battery:

- Upto 10 hours battery backup, Provision to charge smart device

**WANT A DEMO ?
OR QUOTE**



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 **cilika** | **TF-100 Digital**
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Trinocular Digital Microscope With
Universal Mobile Viewing Attachment



Technical Specifications

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

Enable simultaneous viewing through binocular eyepieces and on smartphone display

Patented detachable digital attachment with optical components (prisms, eyepieces, etc.); Internal magnification 10x / 20 F.N. Smartphone attachment mounts directly on the microscope's trinocular port

TrueView™ technology enables 100% circular field-of-view capture via the smartphone camera.

Captured field of view through smartphone: 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

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

Eyepiece: WF10x/20 mm, high eyepoint, adjustable diopter

Nosepiece: Quadruple, 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 | 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: 25 mm, fine focusing precision: 2 µm per division

Stage: Safety rackless mechanical working stage, size 140 × 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: All smartphone models with side position camera

Upgradable with Tablet-Integrated Head (Optional)

Patented detachable digital head with optical components (prisms, eyepieces, etc.); Internal magnification 10x / 20 F.N. Digital head mounts on the microscope by replacing the existing trinocular or binocular head.

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

Captured field of view through tablet camera: 5 mm diameter with 4X objective | 2 mm with 10X | 1 mm with 20X | 0.5 mm with 40X | 0.2 mm with 100X objective

Display Options: Tablet (iOS) with 11-inch display, 12MP camera (3024 × 4032 image capture, 4K video at 3840 × 2160), 128 GB storage
Note: This Device is Compatible with all iOS Tablets

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 1 and 2 filter:

- B:** 5W fluorescent LED with ultraviolet protection barrier
- B & G:** 5W fluorescent LED with 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

WireFree Cast:

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

Battery:

- Upto 10 hours battery backup, Provision to charge smart device

**WANT A DEMO ?
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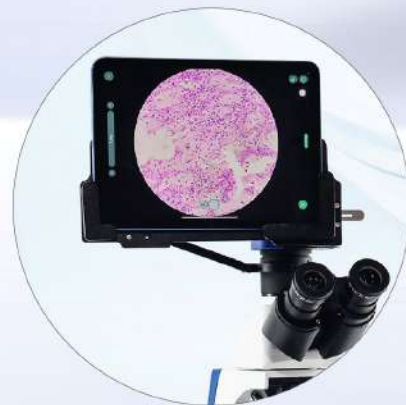
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 **cilika** | **TF-200**
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Trinocular Microscope Upgradable with
Digital Attachment or Integrated Digital Head
for Tablet Compatibility



Technical Specifications

Upright bright-field analogue benchtop microscope with high-quality optics. **Upgradable to digital microscope** either by adding a **digital attachment** on the trinocular port or by replacing the binocular head with an interchangeable **digital head**

Observation Tube: Siedentopf binocular/trinocular head, inclined 30°, rotatable 360°, interpupillary distance 48–75 mm, eyepiece tube diameter 30 mm

Eyepiece: WF10x/22 mm high eyepoint eyepiece with 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: 25 mm, fine focusing precision: 2 µm per 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

Digital Upgrade (Optional)

The microscope can be upgraded to a digital system through either of the following:

- **Digital Attachment:** Mounts directly on the trinocular port and allows simultaneous viewing through the eyepieces and the **tablet display**
- **Tablet-Integrated Digital Head:** Replaces the existing trinocular or binocular head to instantly convert the microscope into a fully digital system

Patented detachable digital head/attachment with optical components (prisms, eyepieces, etc.); Internal magnification 10x / 20 F.N.

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

Captured field of view through smartphone: 5 mm diameter with 4X objective | 2 mm with 10X | 1 mm with 20X | 0.5 mm with 40X | 0.2 mm with 100X

Display Options: Tablet (iOS) with 11-inch display, 12MP camera (3024 × 4032 image capture, 4K video at 3840 × 2160), 128 GB storage

Note: This Device is Compatible with all iOS Tablets

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:

Camera options:

- CILIKA-CAM-5.0-35GC | Cilika- CAM-8.0- 30RC | CILIKA-CAM-10.3 COOL | Cilika- CAM-8.3- 30RC | Cilika- CAM-12- 30RC
- Cilika View software: Camera control, calibration, measurement, and image analysis

Fluorescence up to 4 filters:

- **B:** 5W fluorescent LED, ultraviolet protection barrier
- **B & G:** 5W fluorescent LED built-in media device, ultraviolet protection barrier
- **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 | Darkfield condenser, dry, N.A. 0.83-0.91, for 4x, 10x, 40x objective

Darkfield : Infinity plan phase contrast objective 10x, 20x, 40x, 100x | Darkfield condenser, immersion, N.A. 1.3, for 100x objective

Polarizing: Polarizer and analyzer set

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

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Cilika TF-400

(Trinocular microscope upgradable with tablet integrated digital head, Fluorescent, Phase contrast, Dark field, Polarizer & analyser techniques)



- > Upright bright field, analogue benchtop microscope with research grade optics.
- > Digital Upgrade with **TrueView technology for capture of 100% circular field of view through the phone or tablet camera**; Captured field of view: diameter 5 mm with 4x objective, 2 mm with 10x objective, 1 mm with 20x objective, 0.5 mm with 40x objective and 0.2 mm with 100x objective.
- > Siedentop Trinocular Viewing Head, Eyepiece/Port: 100/0, 20/80, 0/100 Inclined at 30°, Interpupillary Distance 47-78mm.
- > Eyepiece: SW10x/25 mm, High Eyepoint, Diopter Adjustable, Dia.30mm
- > Upgradable with Patented detachable digital head with Internal magnification 10X/20mm or 10x/22mm.
- > Infinity Plan objectives:
 - 4x, NA=0.1, WD=30
 - 10x, NA=0.25, WD=10.2
 - 20x, NA=0.4, WD=13.36, Cover glass=0.17
 - 40x, NA=0.65, WD=0.7, Cover glass=0.17
 - 100x(oil), NA=1.25, WD=0.22, Cover glass=0.17
- > Working Stage: Double Layer Gorilla Glass Mechanical Stage. Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, left/right handle.
- > Condenser: Swing Condenser NA0.9/0.25
- > Illumination: Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body. ECO Function Support Auto Power Off After 30 Mins from Operator Leave to Save Energy.
- > Nosepiece: Coded Sextuple Nosepiece, Dovetail interface
- > Focusing: Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing Range 35mm, Coarse Stroke 7.7mm, Fine Stroke 0.1mm, Can Exchange Hand Wheel Between Left/Right.

OPTIONAL ACCESSORIES:

- > Digital Options: -
 - Patented Digital Head with **internal magnification 10X.**
 - **Tablet Display options: iOS, 10.2"/10.9"/11"/12.9", Camera Resolution 8/12MP**
 - **Pre-installed application with following features:** Report printing with images, Local syncing of images at desktop, Data management, Image capturing, Video recording, Exposure, brightness, saturation, temperature and contrast control, Micrometry – linear and circular measurements in microns, Annotations and text addition, Free hand marking and pointer for demonstration.
 - **Camera options:** CILIKA-CAM-5.0-35GC/ CILIKA-CAM-6.3-58RC/CILIKA- CAM-8.0-30RC/ CILIKA-CAM-10.3-COOL
 - Cilika View Software: Image analysis, Camera control, calibration and measurement,
 - C-mount included.
- > **Infinity Plan objective lens**
 - 2x, NA=0.06, WD=9
 - 50x, NA=0.8, WD=0.3, Cover glass=0.17
 - 60x(oil), NA=0.95, Cover glass0.17
 - 100x with iris diaphragm, NA=0.5-1.25, WD=0.2, Cover glass=0.17

➤ **Plan Semi-Apochromatic objective lens**

- 4x, NA=0.13, WD=17
- 10x, NA=0.3, WD=15.8, Cover glass=0.17
- 20x, NA=0.5, WD=2.7, Cover glass=0.17
- 40x, NA=0.75, WD=1.35, Cover glass=0.17
- 100x, NA=1.4, WD=0.18, Cover glass=0.17

➤ **Apochromatic objective Lens**

- 10x, NA=0.45, WD=4.0, Cover glass=0.17
- 20x, NA=0.75, WD=1.1 Cover glass=0.14
- 40x, NA=0.95, WD=0.21, Cover glass=0.11-0.23, with correction ring (Being designed)
- 60x(oil), NA=1.4, WD=0.25, Cover glass=0.14
- 100x(oil), NA=1.45, WD=0.13, Cover glass=0.17

➤ **DIC:**

- Transmission polarizer, polarizer can swing out light path.
- Turntable DIC Condenser
- 10x DIC Use with semi-plan achromatic objective.
- 20x, 40x DIC Use with semi-plan achromatic objective.
- 100x DIC Use with semi-plan achromatic objective.
- DIC attachment 10x-20x with analyser
- DIC attachment 40x-100x with analyser

➤ **Viewing Head:**

- Seidentopf Binocular Viewing Head, inclined at 30°, Interpupillary Distance 47-78mm
- Ergo Tilting Trinocular Viewing Head, Eyepiece/Port: 100/0, 20/80, 0/100 Adjustable from 0° to 35° , Interpupillary Distance 47-78mm

➤ **Eyepiece:**

- DIA SW10x/25mm, -5~+5
- DIA EW10x/22mm, -5~+5
- DIA EW12.5x/16mm
- DIA WF15x/16mm, -5~+5
- DIA WF20x/12mm, -5~+5
- DIA SW10x/25mm, with cross divider, locating pin
- DIA SW10x/25mm, with grid plate, locating pin

Fluorescent attachment:

- Fluorescent vertical illuminator, 6 excitation positions, Kolar system, Eye protector screen (excluding lamp room and power box, excluding excitation module)
- LED fluorescent vertical illuminator, 6 excitation positions, Eye protector screen (excluding light source and excitation module)

○ **Fluorescent filter:**

- B, BP460-490, DM500, BA520
- G, BP510-550, DM570, BA590
- U, BP330-385, DM400, BA420
- V, BP400-410, DM455, BA455
- R, BP620-650, DM660, BA670-750
- FL-FITC BP460-495, DM505, BA510-550
- FL-DAPI BP360-390, DM415, BA435-485
- FL-TRITC BP528-553, DM565, BA578-633

➤ **Polarized attachment:**

- Transmission polarizer, polarizer can swing out light path
- Transmission analyser, insertable compensator
- Compensator slide seat, used with analyser
- λ test plate (gypsum)
- $1/4\lambda$ test plate (mica)
- Quartz wedges

➤ **Nosepiece:**

- Model A-Motorized Sextuple Nosepiece, Dovetail interface M25x0.75
- Model B-Motorized Sextuple Nosepiece, Dovetail interface M26x0.7
- Model A-Manual Sextuple Nosepiece, Dovetail interface M25x0.75
- Model B-Manual Sextuple Nosepiece, Dovetail interface M26x0.7
- Model A-Coded Sextuple Nosepiece, Dovetail interface M25x0.75
- Manual Septuple Nosepiece, Dovetail interface M25x0.75
- Center adjustable Quintuple condenser, Dovetail interface M25x0.75

➤ **Stage:**

- Double Layer Sapphire Glass Mechanical Stage. Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, left/right handle
- Full-Auto X/Y/Z Motorized Control Working Stage, Including Control Joy Stick, Travel Range X:125mm, Y:75mm,
 - Minimum Step 0.1um
 - Re-Position Accurate +/-1.5um
 - Max Speed 25mm/s
 - Size: 275x239x44.5mm
 - Soft Stop, Mechanical Stop, Opto-Electro Switch Stop
 - Z Axis Re-Position Accurate: Average +/-1.5um, Near
 - Focus +/-0.1um
 - Z Axis Max Speed 10r/s
 - 3D Control Stick, 4 Speeds
 - Connection By USB2.0 & RS232
 - Communication Speed 9600 bits

➤ **Multi-viewing attachment:**

- 5-Head Multi-viewing, including viewing head and eyepiece
- 10-Head Multi-viewing, including viewing head and eyepiece
- 3-Head Multi-viewing, including viewing head and eyepiece
- 2-Head Multi-Viewing (face to face)
- 2-Head Multi-Viewing (right side)
- 2-Head Multi-Viewing (left side)
- Pointer box(green), only get 22 fields of view put on vertical illuminator.
- Pointer box(green and red), only get 22 fields of view put on vertical illuminator

