



cilika
Zoom it. See it. Share it.

TF-100 Digital

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 ?
OR QUOTE

+91 8976924214

contact@medprimetech.com

Medprime Technologies Pvt. Ltd.

2nd Floor, Plot no. A-246, Road no. 30-B
Wagle Estate, Thane – 400604.