



MicroOptix

MX100 (T) video microscope
OPTIX C900 camera

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Applications:



Education

Classes at schools and universities.



Science

Scientific research of biology samples in transmitted light.



Medicine

Microscopy of stained and unstained samples in transmitted light.



Joint work

By combining MX100 (T) microscope with a tablet and an OPTIX C900 digital camera, you get possibilities of joint work. Output images from the camera on external devices or show images on the camera screen.

Endless possibilities



Two in one — digital camera and a tablet

Microscope with a tablet camera. Built-in software based on Android for photo and video recording and storage.



Ample opportunities

Use wireless and cable connections for communication with external devices: Wi-Fi, Bluetooth, miniUSB, HDMI. SIM card slot allows the use of mobile internet.



Universal solution

Use the microscope you have and increase its potential. Due to its universal adapter OPTIX C900 camera is compatible with all classes of microscopes — from a monocular to a stereo microscope.



Ergonomics

Siedentopf-type trinocular head with 30° inclination. The interpupillary distance is adjustable between 55–75 mm.



High quality optics

4 achromatic S-plan objective with antifungus treatment, 4x/0,10, 10x/0,25, 40x/0,65, 100x/1,25 (oil)



Attention to detail

Coaxial screws for course and fine focusing. Adjustment mechanism for smooth movement. Siedentopf-type trinocular head with 30° inclination.

Technical specifications

MX100 (T) video microscope with OPTIX C900 camera

Microscope

Amplification	up to 1000x
Ocular mounting	— binocular (MX 100) or siedentopf-type trinocular head (MX 100(T)) — 360° rotating with 30° inclination, compensation of diopter difference, interpupillary distance is 55–75 mm
Eyepieces	wide-field WF 10x/18 mm
Support	metal, painted by fire-resistant enamel, basic size: 270x300 mm with the rubber legs
Nosepiece of lenses	with tilt frontwards, 4 positions for lenses
Set of objectives	achromatic S plan objectives 4x/0.10, 10x/0.25, 40x/0.65 (spring-applied), 100x/1.25 (spring-applied, oil immersion)
Stage	mechanical two-coordinate graduated, handle on the right, 130x140 mm
Abbe condenser	height adjustable with an iris diaphragm, nA 1.25, with filters holder
Focusing	— coaxial screws for rough and exact focusing — built-in mechanism of focus blocking for preparation protection and fast setting when changing — adjustment mechanism for smoothness of movement
Light source	LED, 12 W, 3 V DC
Power supply	220 V, 50 Hz
Operation temperature, humidity	18–35 °C, less than 85 %
Weight	7 kg

Camera

Number of megapixels	5
Definition	2592x1944 pixels
Matrix	1/2.5", CMOS
Chromaticity type	color
Frame rate	15 f/s in preview 720p
Exposition	manual/automatic
White balance	manual/automatic
Lens fastening	C-mount
Preview	real time on the tablet computer screen
Display	9.7", LED illumination, definition: 1024x768, multi-touch
Operation system	Android 2.3
Tablet specification	CPU 1,2 GHz (ARM Cortex™-A8 Core), RAM 1GB (DDR 3)
Storage device	8 Gb, upgrade to 32 Gb
Wireless interfaces	Wi-Fi, Bluetooth, USB, HDMI
Interfaces	1 x mini USB 2.0, 1 x HDMI, 1 x TF Card, 1 x earphones connector, built-in microphone, 1 x SIM card slot
Power supply	battery or external 12 V/3 A DC
Operation temperature	10–40 °C
Relative humidity	0–85 %
Dimensions and weight	330x240x130 mm, 2 kg