

TB Series

Upright Digital Microscopes with Tablet PC



PATENT PENDING

The latest Digital Microscopes with Tablet PC from OPTIKA open new microscopy horizons. Our Microscopes combine high end optics with innovative Digital Technology for microscopic imaging.

Upright Digital Microscopes with Tablet PC

B-190TB

The B-190 series is the result of a perfect fusion between years of experience in the microscopy field and a refined design study.

This series represents our product philosophy at its best:

Quality, Reliability and Innovation. Optika is glad to introduce a new member of this key series: The **B-190TB**.

**Easily detachable
from the microscope**



Tilting



**360°
Rotating**



PATENT PENDING



Just one click to deliver fast, accurate and dependable results.

Enjoy looking at the Tablet PC in a comfortable position.



B-190TB Model



Optical system:

The optical system has been developed for demanding users; it consists of high quality components which guarantee an high image contrast and an excellent optical resolution. The optical components have been designed and treated with special techniques to prevent the formation of moulds and fungi.

Stand:

The stand has a modern and ergonomic design. It is easy to carry the microscope thanks to the large opening behind the revolving nosepiece, to be used as a handle. The opening allows the user to see clearly the objectives and the samples, as requested in discussion groups.

Mechanics:

The moving parts are made by means of machine tools with computerized numerical control reducing manufacturing tolerance and increasing the reliability of the instrument. The strict controls on materials and production processes are optimized through the procedures established by ISO 9001:2008 quality system.

Illumination:

X-LED type with white LED; light intensity control using a knob on left side of the frame.

LED power 3W, comparable to a 30-35W halogen bulb.

Camera:

Digital camera resolution: 3.14 MegaPixels

Signal output: USB 2.0 - Sensor size: 1/2.5"

Sensor technology: CMOS- Image format: 4/3

Full Image Size: 2048x1536. NO driver (microsoft driver).

Capture fetures: continuous auto exposure, image size, image capture, compressed video capture.

Control parameters: brightness, gain, exposur time, colors, color enhancement.

Tablet PC:

Equipped with Windows 8.1 operating system.

Included: Image Analysis software OPTIKA VISION LITE, full view function is also included for a wider Live Camera view.

2GB standard memory.

32GB capacity flash memory.

8" screen size.

Upright Digital Microscopes with Tablet PC

B-290TB

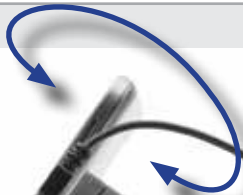
This series incorporates all the experience gathered by OPTIKA Microscopes in the field of light microscopy, adapted specifically for routine laboratory brightfield applications.

These microscopes are suitable for routine microscopy and have an ergonomic design for comfortable long-term use.

Optika is glad to introduce a new member of this key series: The **B-290TB**.

Tablet PC easily detachable from the microscope

**360°
Rotating**



PATENT PENDING



B-290TB Model



Optical system:

The optical system has been developed for demanding users; it consists of high quality components which guarantee an high image contrast and an excellent optical resolution. The optical components have been designed and treated with special techniques to prevent the formation of moulds and fungi.

Stand:

The stand has a modern and ergonomic design. It is easy to move the microscope thanks to the large opening behind the revolving nosepiece, to be used as a handle. The opening allows the user to see clearly the objectives and the samples, as requested in discussion groups.

Mechanics:

The moving parts are made by means of machine tools with computerized numerical control. In this way we have reduced the manufacturing tolerance and increasing the reliability of the instrument. The strict controls on materials and production processes are optimized through the procedures established by ISO 9001:2008 quality system.

Illumination:

X-LED type with white LED; light intensity control using a knob on left side of the frame.

LED power 3.6W, comparable to a 50W halogen bulb.

Camera:

Digital camera resolution: 3.14 MegaPixels

Signal output: USB 2.0 - Sensor size: 1/2.5"

Sensor technology: CMOS- Image format: 4/3

Full Image Size: 2048x1536. NO driver (microsoft driver).

Capture fetures: continuous auto exposure, image size, image capture, compressed video capture.

Control parameters: brightness, gain, exposur time, colors, color enhancement.

Tablet PC:

Equipped with Windows 8.1 operating system.

Included: Image Analysis software OPTIKA VISION LITE, full view function is also included for a wider Live Camera view.

2GB standard memory.

32GB capacity flash memory.

8" screen size.





EXCEPTIONAL OPERABILITY

Equipped with an Intel quad-core atom

Battery life up to 8 hours

Battery life up to 4,5 hours in continuous camera live View mode.

You can detach the tablet and use it as a laptop

Acer Iconia W4-820

You can connect a USB keyboard or mouse WiFi and then use as a desktop PC always connected to the microscope



EXCEPTIONAL ERGONOMICS

You can rotate the tablet on the microscope in all directions, so it can be used as a microscope demonstration.



Technical specification

OPERATING SYSTEM

OS Windows 8.1

PROCESSOR AND CHIPSET

Processor manufacturer Intel
 Processor Type Atom
 Model Z3740
 Speed 1,33 GHz
 Processor Core Quad core (4 Core)

MEMORY

Standard Memory 2 GB
 Memory Technology LPDDR3
 Memory Card Reader Yes
 Supported memory microSD

STORAGE

Capacity flash memory 32 GB

DISPLAY AND GRAPHICS

Screen Size 20,3 cm (8")
 Screen Type LCD color TFT
 Screen Mode WXGA
 Screen Resolution 1280 x 800
 Backlight technology LED
 Touchscreen Yes
 Multi-touch screen Yes
 Graphics Controller Manufacturer Intel
 Graphics Controller Model HD Graphics
 Graphics Memory Technology LPDDR3
 Graphics Memory Accessibility Shared

NETWORK & COMMUNICATION

LAN wireless Yes
 Wireless LAN standard IEEE 802.11a/g/n
 Bluetooth Yes
 Standard Bluetooth Bluetooth 4.0

INTERFACES / PORTS

HDMI Yes

INPUT DEVICES

Keyboard Type Touchscreen

BUILT-IN DEVICES

Microphone Yes

SOFTWARE

Operating System Windows 8.1,
 Microsoft office,
 Home & Student 2013

Operating System Architecture 32-bit

Image Analysis software OPTIKA VISION LITE

BATTERY INFORMATION

Number of Cells 2-cell
 Battery Chemistry Lithium Polymer
 Battery Capacity 4960 mAh

POWER DESCRIPTION

Maximum Power Supply Wattage 10 W

WEIGHT AND DIMENSIONS

Thickness 11,5 mm
 Width 219 mm
 Height 135 mm
 Weight (Approximate) 415 g



Headquarters and Manufacturing Facilities

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