

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 result of a perfect fusion between years of experience in the microscopy field and a refined design study.

Quality, Reliability and Innovation: this is B-190TB.



Easily detachable from the microscope



Tilting

**360°
Rotating**



PATENT PENDING



Fast, accurate and dependable results delivered in one click!

Enjoy looking at the Tablet PC in a comfortable position



B-190TB Model

Optical system:

The optical system has been developed for the most 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-LED² 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 features: continuous auto exposure, image size, image capture, compressed video capture.

Control parameters: brightness, gain, exposure 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. 16+16 GB capacity flash memory.

8.9" screen size. Tablet PC with OPTIKA detachable system.



Simultaneous data and power feed

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.

B-290TB is suitable for routine microscopy and has an ergonomic design for comfortable long-term use.

Tablet PC easily detachable
from the microscope

360°
Rotating



PATENT PENDING



Enjoy looking at the Tablet PC
in a comfortable position

B-290TB Model

Tilting



Optical system:

The optical system has been developed for the most 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-LED³ 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 features: continuous auto exposure, image size, image capture, compressed video capture.

Control parameters: brightness, gain, exposure 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.

16+16 GB capacity flash memory.

8.9" screen size. Tablet PC with OPTIKA detachable system.



Simultaneous data and power feed



A COMPLETELY NEW EXPERIENCE

Discover the unmatched comfort of simultaneous camera and power connection, providing an unparalleled solution ideal for long-term operation.



EXCEPTIONAL OPERABILITY

Equipped with Intel quad-core processor.
Battery life up to 10 hours.

You can detach the tablet and use it as a laptop.



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

Technical specification

OPERATING SYSTEM

OS Windows 8.1

PROCESSOR AND CHIPSET

Processor manufacturer Intel
 Processor Type Bay Trail
 Model Z3735F
 Speed 1,83 GHz
 Processor Core Quad core

MEMORY

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

STORAGE

Capacity flash memory 16+16 GB

DISPLAY AND GRAPHICS

Screen Size 8.9"
 Screen Type LCD color TFT
 Screen Mode Full HD
 Screen Resolution 1920 x 1200
 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 32-bit
 Software Microsoft Office (1 year)
 Image Analysis software OPTIKA VISION LITE

BATTERY INFORMATION

Number of Cells 2-cell
 Battery Chemistry Lithium ION
 Battery Capacity 6000 mAh

POWER DESCRIPTION

Maximum Power Supply Wattage 10 W

WEIGHT AND DIMENSIONS

Thickness 9,5 mm
 Width 220 mm
 Height 157 mm
 Weight (Approximate) 477 g



Headquarters and Manufacturing Facilities

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