OLYMPUS

Microscope Digital Camera

OLYMPUS EP50

Wireless Digital Imaging

Engaging, Collaborative Education

Not for clinical diagnostic use.

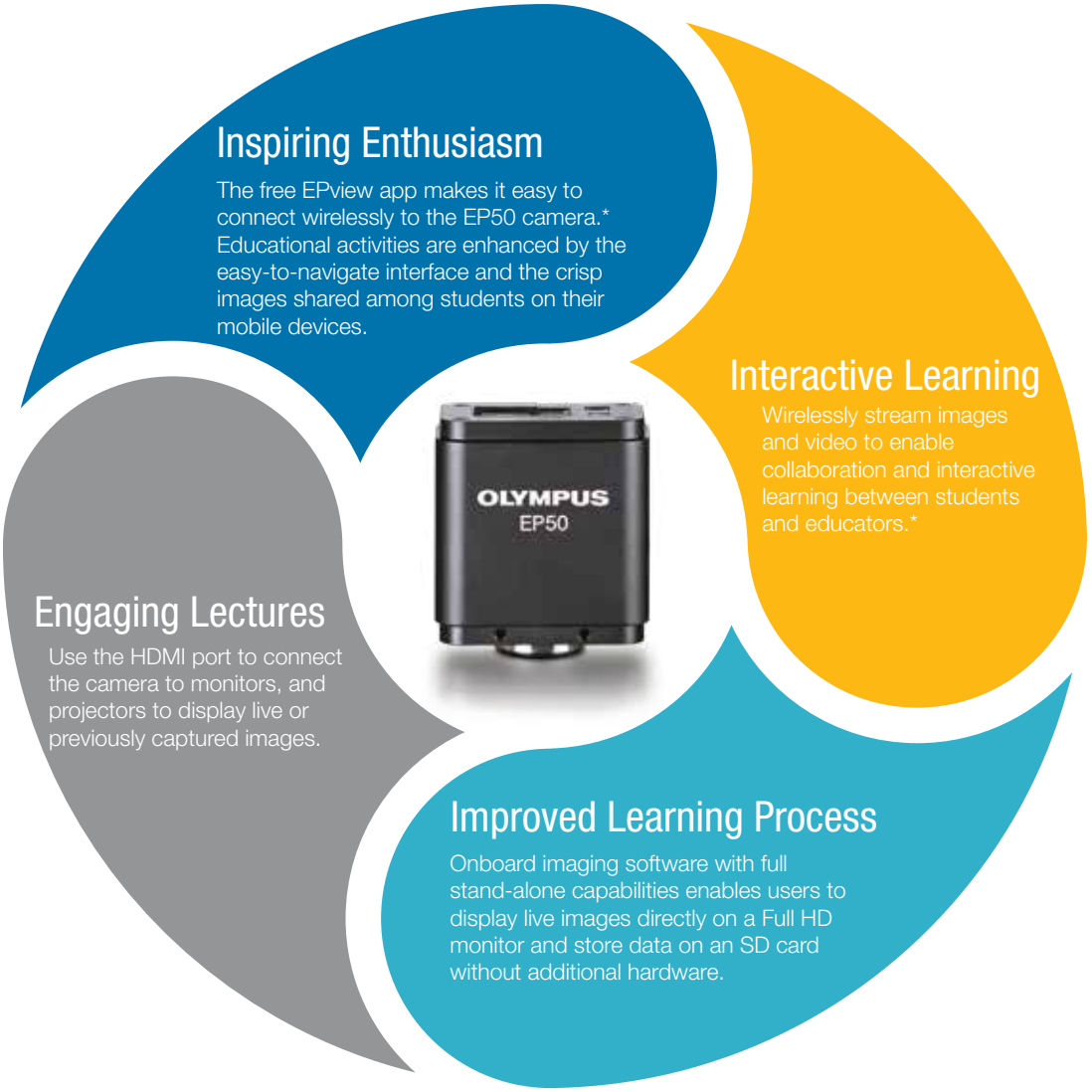
Flexible Classroom for the Digital Age

Adding wireless (WLAN) capabilities to a science classroom enables students to work together in an interactive way. The flexibility offered by wireless connectivity improves efficiency, helping educators save time and reduce costs.

Every microscope equipped with a WLAN-enabled EP50 camera becomes a wireless imaging system. Connect through the camera's WLAN signal* and stream 5-megapixel images and Full HD videos to mobile devices or WLAN-enabled PCs and laptops.

Installing the camera is easy. Its stand-alone functionality is enabled by onboard imaging software, making additional PC equipment unnecessary.

* A USB WLAN adaptor is required to operate the camera in wireless mode. This WLAN adaptor is not included with the standard EP50 package. Please contact your local sales representative.



3 Control Options

The camera can be controlled with OSD (On-Screen Display) software using a monitor and mouse, or with the EPview app for mobile devices and EPview software for PCs and laptops with Windows operating systems. All three options provide controls for image acquisition and display, basic measurements, annotation, and sharing functionality.

Inspiring Enthusiasm

With its USB WLAN adaptor, the EP50 camera can create its own wireless network, but it can also be integrated into LAN networks using its USB-to-Ethernet adaptor. Entire classrooms can easily connect to the camera using the free EPview app for mobile devices and software for Windows operating systems. The simple and intuitive user interface enables students and teachers to easily capture, process, and store sample images.

Interactive Learning

Teachers and students can directly access live microscope images, making the classroom a truly interactive space. Images can be shared with the entire class, enabling open discussion between students and educators based on live examples. Simultaneous direct output of WLAN and HDMI is available.

Engaging Lectures

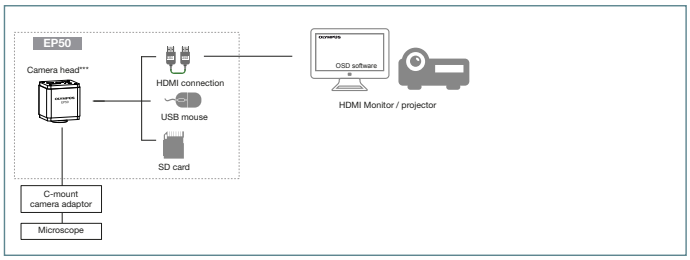
The camera easily connects to a monitor or projector so that teachers can support their lectures with live images or videos. The EP50 camera transforms the microscopy classroom from an individual experience into an engaging group activity.

Improved Learning Process

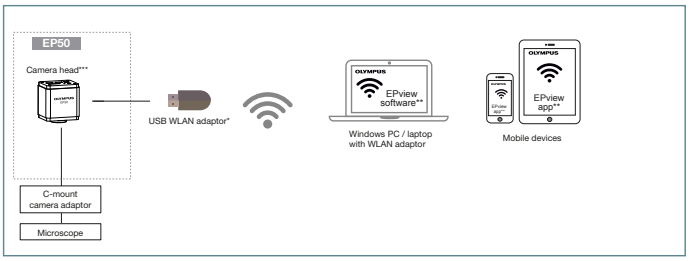
Display live images directly on a Full HD monitor using the HDMI output with no additional hardware required. The onboard interface enables users to control the camera through its simple on-screen icons—only a monitor and mouse are required. Image and movie files can be stored on an SD card for sharing and further investigation.

EP50 CAMERA SYSTEM DIAGRAMS

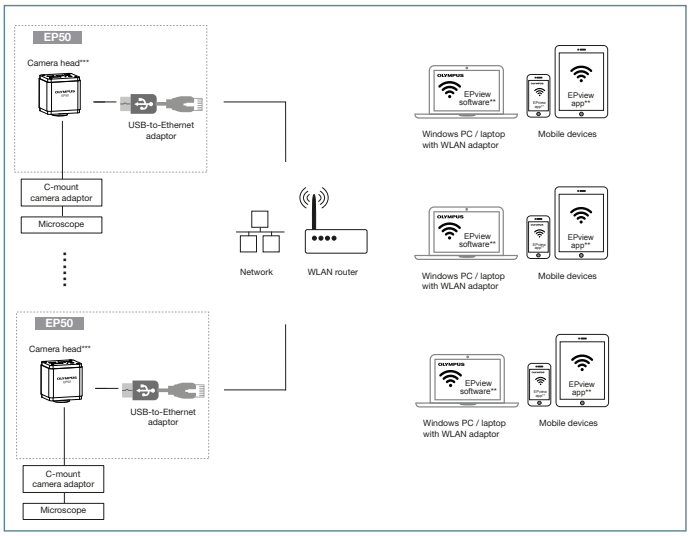
Stand-Alone Configuration



WLAN Configuration



Digital Classroom Configuration



* The USB WLAN adaptor is an optional accessory of the EP50 camera.
** EPview is available for iOS, Android, and Windows operating systems.
*** USB connection for USB mouse, USB WLAN adaptor*, and USB-to-Ethernet adaptor only.
**** The frame rate may be lower depending on the available network infrastructure capabilities/performance.
***** The wireless connection stability and reliability can be compromised by existing environmental radio interference and/or the condition of users' mobile devices.

EP50 CAMERA SPECIFICATIONS

Image Sensor	Color CMOS
Sensor Size	1/1.8 inch (7.140 mm × 4.980 mm)
Resolution (Max.)	2592 × 1944 pixels (Snapshot only)
	1920 × 1080 pixels (HDMI, WLAN, on PC)
Pixel Size	2.4 × 2.4 µm
A/D Converter (Bit Depth)	8 bits
Exposure Times	1 ms – 918 ms
Live Frame Rates	Up to 30 fps (on PC, 1920 × 1080 pixels)
	Up to 60 fps (HDMI Output, 1920 × 1080 pixels)
	Up to 25 fps (WLAN Output, 1920 × 1080 pixels)****
Data Transfer	HDMI, WLAN (using the WLAN adaptor), Ethernet (using the USB-to-Ethernet adaptor)
Annotation Functions	Text, Arrow, Rectangle, Circle
Measurement Functions	Line: Length measurement Parallel lines Circle: Diameter, area, perimeter measurement Angle: Angle measurement Rectangle: Area, perimeter measurement Polygon: Area, perimeter measurement Point: Coordinates, number Scale bar
Remarks	Supported Mobile Device OS: EPView is available for iOS 11 and later: Download on the App Store Android 5.1 and later: GET IT ON Google Play
	Supported number of connections to one camera: 6*****
	WLAN adaptor not included. Please contact your local sales representative.
PC Control	Microsoft Windows 10 (32 bit/64 bit)
	Microsoft Windows 8/8.1 (32 bit/64 bit)
	Microsoft Windows 7 (32 bit/64 bit)
Dimensions (W × D × H)	78 mm × 65 mm × 88 mm (3.08 in. × 2.56 in. × 3.47 in.)
Weight	Approx. 470 g (1.04 lb)
Camera Mount	C-mount
Storage	SD (HC I; UHS-I, Class 10) Card

• OLYMPUS SOFT IMAGING SOLUTIONS is ISO9001 certified.

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