



Product Overview

Documents

Invitrogen™

EVOS™ XL Core Configured Cell Imager with Mechanical Stage

Catalog number: AMEX1200



Catalog Number	AMEX1200
Unit Size	1 each
Price (EUR)	Request A Quote

Product Overview

Documents

The EVOS XL Core Imaging System is a digital transmitted-light inverted imaging system for cell and tissue culture applications and routine cell maintenance. Its simple user interface drives a color camera and high-quality optical system that delivers high-definition images with exceptional ease. Equipped with 4X, 10X, 20X, and 40X long-working-distance (LWD) phase contrast (PH) objectives and a mechanical stage, the all-in-one EVOS XL Core system is an ideal microscope for basic imaging needs. With a small footprint, an articulated LCD monitor, and ergonomic design, it is a perfect addition to any cell culture room or facility.

The EVOS XL Core Imaging System offers these important advantages:

- Easy installation; no maintenance, assembly, alignment, or calibration
- 4X, 10X, 20X, and 40X LWD PH objectives that are ideal for tissue culture microscopy
- A mechanical stage for precise vessel positioning, including of multi-well plates
- Fits and operates inside cell culture hoods
- All-in-one design: digital camera, precision optics, LCD display, and USB storage

Imaging anywhere

The EVOS XL Core system is an integrated transmitted-light inverted imaging system that combines high-quality optics, a 12.1-inch high-resolution LCD display, and a digital color camera. Images are seamlessly acquired through the user interface using a mouse and the integrated software that includes a variety of features, such as color temperature control. All images can be saved onto the USB device in JPEG, BMP, or TIFF formats. Applications suited for the EVOS XL Core system include basic imaging of live and fixed cells, tissue culture needs (confluence, density, and growth), stem cell isolation, and analysis of stained tissue slices.

EVOS imaging systems are built from the ground up to maximize performance and optimize workflow. You will be astonished at how easy this system is to operate and amazed how good your images look.

Versatile

While the microscope comes equipped with three objectives (4X, 10X, 20X, and 40X LWD PH), the four-position objective turret can be configured to meet additional needs using our full range of [LWD phase contrast and coverslip-corrected objectives](#). LWD PH objectives are available from 1.25X to 40X. The compact footprint makes it easy to use the EVOS XL Core system wherever needed; the entire system can be

Easy to use and reliable

Product Overview

Documents

off whenever you need to image a sample. The LED bulbs are rated for >50,000 hours (~17 years), compared to 300 hours for a typical mercury bulb and 1,500 hours for a metal halide bulb. The long lifetime and low energy consumption translate into lower operating costs compared to instruments with conventional light sources. Finally, the advanced ergonomic design of the [EVOS systems](#) removes the strain of conventional microscopes in imaging, enables shared viewing, and makes moving the units easy.

[Learn more about the EVOS XL Core Imaging System and most recent software >](#)

[Explore the entire EVOS line of imaging systems and accessories >](#)

System highlights

Optics: infinity-corrected optical system, RMS-threaded objectives with 45-mm parfocal distance

Objectives: 4X, 10X, 20X, and 40X LWD PH achromat objectives. A wide selection of other high-quality LWD and coverslip-corrected objectives is available.

Illumination: adjustable intensity LED (>50,000-hour life)

Contrast methods: transmitted light (brightfield and phase contrast)

Objective turret: 4-position, manual control

Condenser: 3-position turret for brightfield and phase contrast

Condenser working distance 60 mm

Stage: mechanical stage

Focus mechanism: coaxial focus knobs with tension control. Course focus: 38 mm/rev. Fine focus: 0.2 mm/rev, precision 0.002 mm.

LCD display: 12.1-inch high-resolution (1024 x 768 pixels) color monitor with adjustable tilt

Camera: color, 2048 x 1536, 3.1 megapixels

Image acquisition: embedded operating system with software for image capture and saving via mouse or front-mounted manual buttons

Captured images: Color camera: 24-bit full color TIFF or PNG; jpeg, bmp (2048 x 1536 pixels)

Output ports: 2 USB 2.0 ports

Power supply: AC adaptor; Input: 100-240 V, 47-63 Hz; Output: 12 V DC/2.0 A, 24 W max

Dimensions: Height: 533 mm (21.0 in); Depth: 406 mm (6.0 in); Width: 318 mm (12.5 in)

Weight: 9.6 kg (21.2 lbs)



Product Overview

Documents

Product Line	EVOS
Camera	3.1 MP Color
For Use With (Application)	Cell Culture, Tissue Culture
For Use With (Equipment)	Brightfield Microscope
Contrast Methods	Transmitted Light (brightfield and phase contrast)
Format	Specific Holder Attachments
Model	EVOS XL Core
Light Source	LED
Objectives	4 Position Turret, Manual Control
Resolution	1024 x 768 pixels
Stage	Mechanical stage
Data Outputs	JPG Files, PNG Files, BMP Files, TIFF Files
Display	Adjustable Tilt, 12 in. Color
Dimensions	13 in. (W) x 21 in. (H) x 16 in. (D)
Weight (Metric)	9.6 kg
Frequency	50/60 Hz
Voltage	100/240 VAC

Contents & Storage



• Objective: Achrom 4 x IWD PH, 0.13 NA/16.9 WD (AMEP4932)

Product Overview

Documents

- Objective: EAcro 40x LWD PH, 0.65NA/3.1WD (AMEP4635)
- Polycarbonate stage plate
- Wireless mouse
- Power adaptor, cord, and universal power plug adapters
- USB flash drive (includes User Guide and Quick Start Guide)
- Dust cover
- 3-mm hex driver L-shaped key

Documents & Downloads

Certificates

Search

[Request a Certificate](#)

Scientific Resources

Application Notes

[Application note: Cell culture quality control during T cell expansion](#)