



# SIMPLY STUNNING

## EVOS<sup>®</sup> imaging systems

Smarter systems | Easier cell imaging | Faster results



金萬林企業股份有限公司  
KIM FOREST ENTERPRISE CO., LTD

*life*  
technologies

# Eliminating the complexities of microscopy

An EVOS® system is a must-have in your lab for cell imaging—whether you're capturing images for publication, teaching, or research. EVOS® systems were designed to allow researchers to focus on their data rather than worrying about the operation of a microscope.

From cell culture to complex protein analysis and multi-channel fluorescence imaging, EVOS® imaging systems help you perform a variety of routine and specialty applications.

Our proprietary LED light cube technology minimizes photobleaching, offers >50,000 hours of LED illumination, and allows adjustable intensity—with no darkroom and no consumable costs.

## Improved workflow

EVOS® systems are designed to work together—from the initial cell culture check (for viability and morphology) to more complex analyses such as time lapse and image tiling and stitching. An EVOS® system will allow you to spend more time analyzing images—and less time trying to capture images.



EVOS® FL Auto Imaging System



EVOS® FL Imaging System



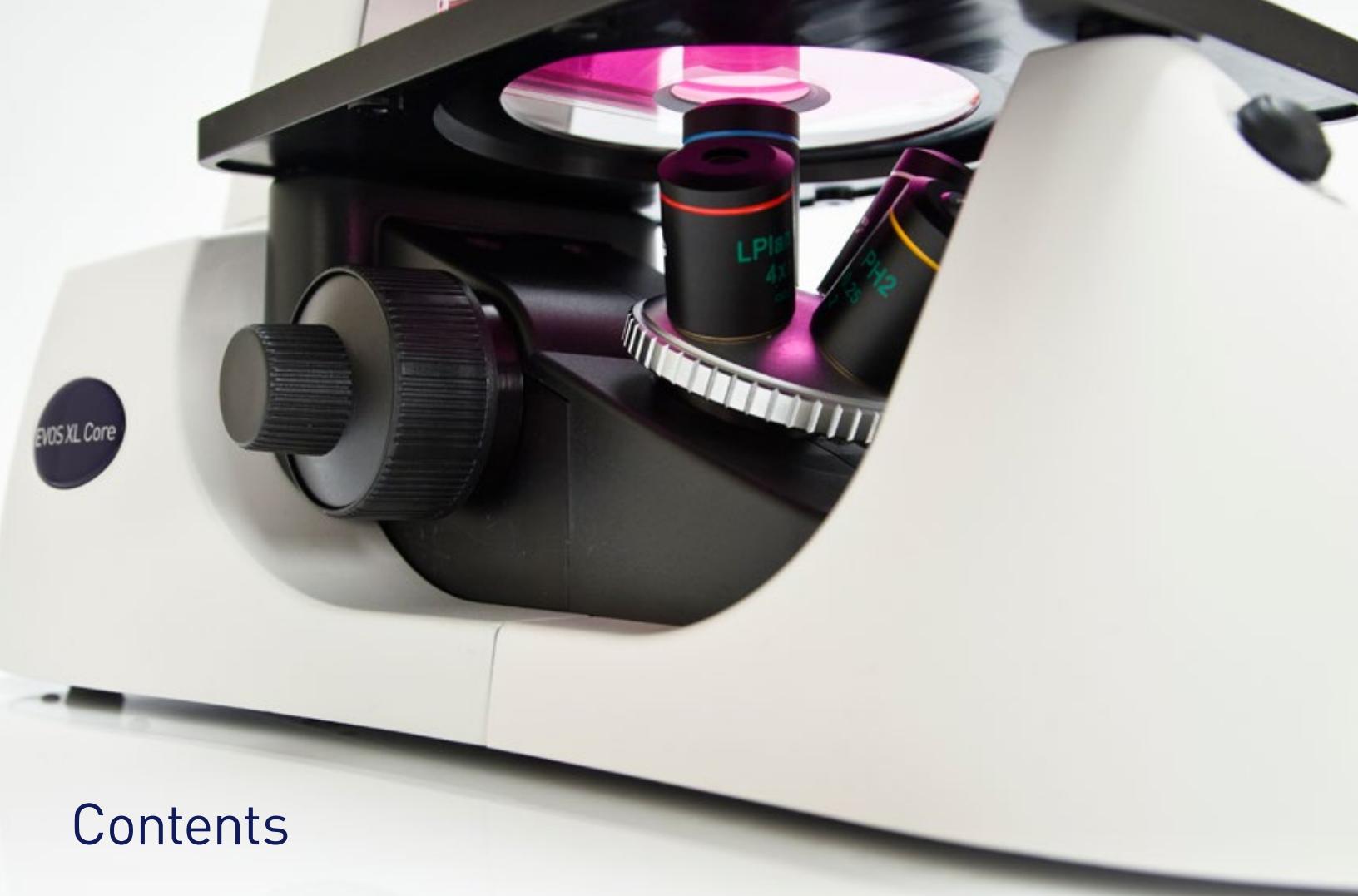
EVOS® FLoid® Imaging Station



EVOS® XL Imaging System



EVOS® XL Imaging System



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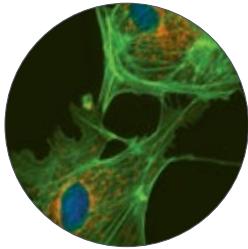
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# Compact and portable systems

Now you can have easy-to-use cell imaging where you want it, when you want it. Simply place your EVOS® Imaging System at your desired location, flip the switch, and you'll be ready to go in typically under 2 minutes.



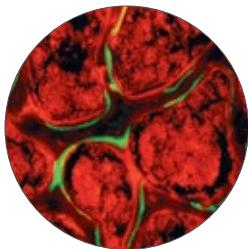
From intimate hands-on demonstrations to lecture halls, EVOS® Imaging Systems are the perfect system for teaching—whether your audience is large or small.



Bovine pulmonary artery endothelial cells, 60x oil objective. Light cubes: DAPI, GFP, Texas Red®



Moss antheridial head polytrichum, 40x objective.



Osteoblasts in bone, 40x coverslip corrected objective. Light cubes: Cy®7, Texas Red®

## Publication-quality imaging

In today's competitive scientific environment, generating publication-quality images is critical to your success. To help ensure you get the publication-quality images you need, EVOS® systems give you top-of-the-line imaging components, including:

- High-quality camera and optics to capture high-resolution images
- LED illumination to produce superior signal-to-noise ratios
- Easy-to-use image capture and processing software for ready-to-publish images

## Technology that's better for our environment

Traditional fluorescence microscopy light sources use mercury, a toxic carcinogen requiring special handling and disposal. By using LED light sources, EVOS® systems do not require these special steps and are thereby more environmentally friendly and energy efficient.

## The EVOS® imaging systems at a glance

	FL Auto	FL/FL color	FLoid®	XL	XL Core
					
	<b>Epifluorescence solutions</b>				Transmitted-light solutions
Simple installation	•	•	•	•	•
Intuitive software	•	•	•	•	•
High-resolution LCD display	•	•	•	•	•
Motorized encoded X/Y scanning stage	•				
Manual mechanical stage		•	•	•	•
Mechanical or fixed stage option					•
USB ports	•	•	•	•	•
DVI ports		•		•	
Display output	•				
Networking capability	•	•	•	•	
5-position objective turret	•	•		•	
4-position objective turret					•
20x fixed objective			•		
Fluorescence channels	4	4	3		
Monochrome camera	•		•		
Color camera	•			•	•
Monochrome or color camera option		•			
Epifluorescence	•	•	•		
Transmitted light	•			•	•
Image tiling and stitching	•				
Automated multi-well plate screening	•				
Cell counting	Automated	•		•	
Teaching tool	•	•	•	•	•
Fits in hood or on benchtop	•	•	•	•	•
Associated printer			•		
Multi-language user interface			•		
Integrated reagent selection guide			•		
Onstage Incubator	Optional				
Z-stack capability	•				
Time-lapse imaging	Multichannel	•		•	

# The power of LED illumination

All EVOS® fluorescence cell imaging systems utilize LED light sources. That means you get high-intensity output over a short light path for the most efficient fluorophore excitation.

- Shorter light path provides better detection of fluorescent signals
- Continuous illumination gives consistent results
- >50,000-hour bulb lifetime lowers your laboratory costs
- Adjustable light intensity reduces photobleaching

## Revolutionary light path

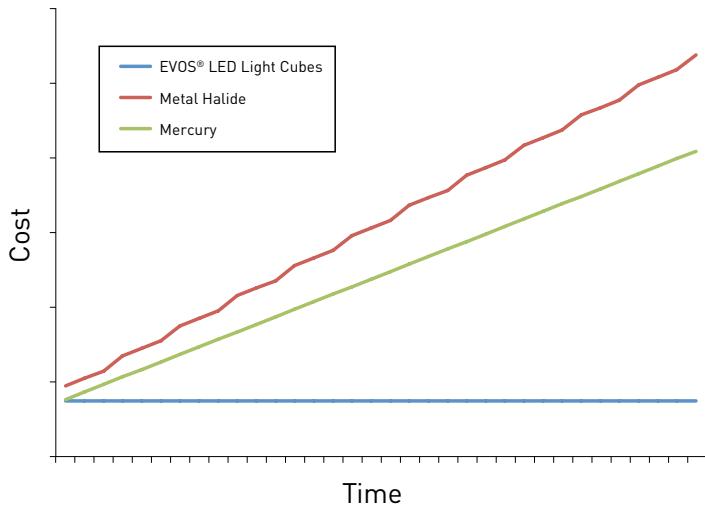
By placing the LED light cube as close as possible to the objective turret, the number of optical elements in the light path is minimized. High-intensity illumination over a short light path increases the efficiency of fluorophore excitation, providing better detection of weak fluorescent signals.

## Continuous light intensity

Mercury arc lamps can decrease in intensity by 50% in the first 100 hours of operation—plus, images acquired in different sessions cannot be quantitatively compared using mercury illumination without complicated calibrations. Because EVOS® systems have continuous light cube intensity, users can rely on consistent illumination and can compare quantitative results from images acquired on different days.



## Illumination costs over time



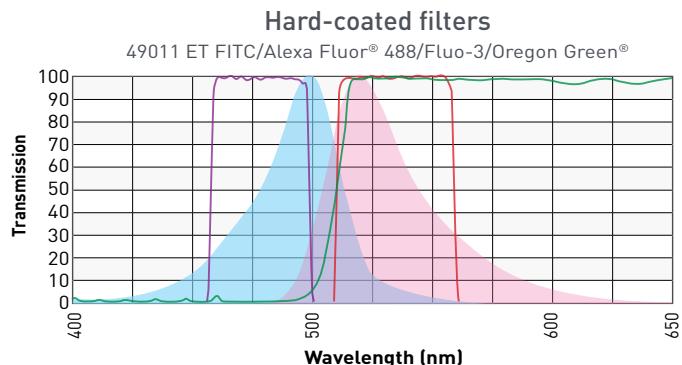
## Less expensive to own and maintain

The LED bulbs on the EVOS® systems are rated for >50,000 hours (~17 years), compared to 300 hours for a typical mercury bulb (1,500 hours for a metal halide bulb). That means a 70–75% savings in the overall upkeep of your instrument.

## EVOS® hard-coated filter sets for higher transmission efficiencies

Hard-coated filter sets are more expensive, but they have sharper edges and significantly higher transmission efficiencies that typically result in >25% more light transmission than traditional soft-coated filters. With the EVOS® system's hard-coated filter sets, your light cubes cost less over time. Plus, you will have brighter fluorescence, higher transmission efficiencies, the ability to detect faint fluorescence signals, and better signal-to-noise ratios.

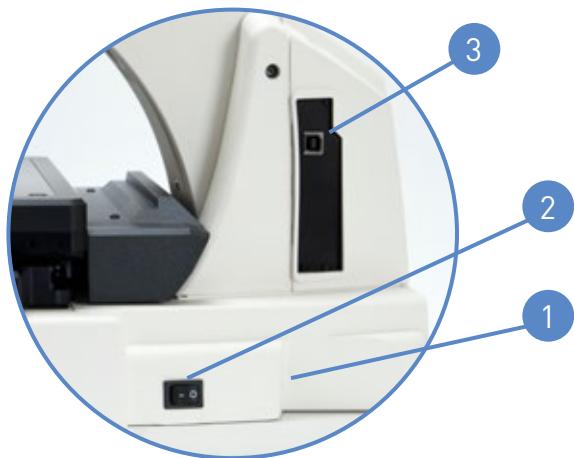
## Transmission efficiency comparison



Superior transmission efficiencies are observed by using hard-coated filters on the EVOS® instruments compared to soft-coated filters. Excitation filter (purple), emission filter (red), dichroic mirror (green); Alexa Fluor® 488 excitation (blue), Alexa Fluor® 488 emission (pink).

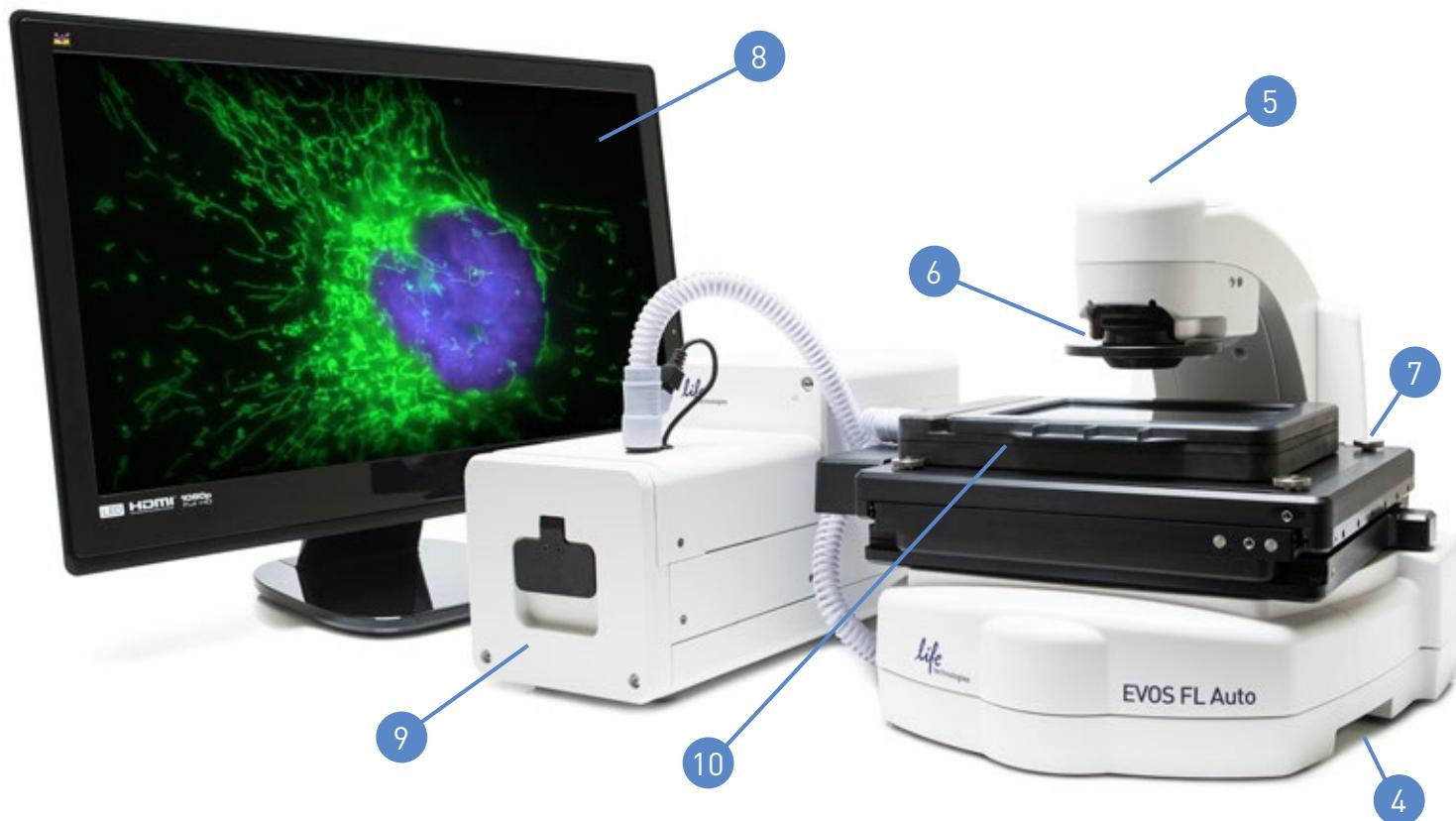
## EVOS® FL Auto Imaging System

An intuitive, affordable, fully automated system



### FL Auto footprint\*

1. Power input jack
2. Power switch
3. Computer port
4. Lifting handholds (for safe and easy transport)
5. Condenser (contains automatic phase annulus selector)
6. Condenser slider slot
7. Automatic X-Y axis stage
8. 22" high-resolution touch screen monitor
9. Onstage incubator (optional)
10. Stagetop environmental chamber (optional)



**\*NOTE:** No manual adjustment required (objective turret, focusing controls, light cube and camera selection, etc.).

## System highlights

Hardware	
Illumination	Adjustable-intensity LED (>50,000-hour life per light cube)
Contrast methods	Epifluorescence and transmitted light (bright-field and phase contrast)
Objective turret	5-position
Fluorescence channels	Simultaneously accommodates up to 4 fluorescent light cubes and transmitted light
Condenser working distance	60 mm
Stage	Automated X-Y scanning stage; interchangeable vessel holders available
LCD display	22" high-resolution touch screen color monitor (1,920 x 1,080 pixels)
Camera	Dual (monochrome and color camera) Monochrome: high-sensitivity interline CCD Color: high-sensitivity CMOS
Output ports	Multiple USB ports, 1 display output with DVI adaptor (supports direct output to USB and networked storage)
Power supply	AC adaptor
Dimensions	Height: 322 mm (12.7 in) Width: 343 mm (13.5 in) Depth: 472 mm (18.6 in)
Weight	20.0 kg (44.1 lb)

## Software

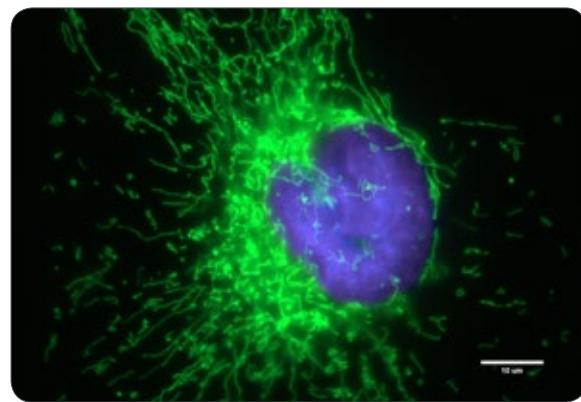
Integrated software is a key component of the all-in-one system. The EVOS® FL Auto software, accessed by a touch screen monitor, features standard functions such as a scale bar and image review tool as well as a variety of advanced imaging and analysis tools. All images acquired can be saved in JPEG, BMP, TIFF, and PNG formats.

### Key software features:

- Time-lapse imaging
- Image tiling and stitching
- Automated cell counting
- Auto-focus and automated multi-well plate scanning
- Z-stacking
- Environmental control with EVOS® Onstage Incubator
- Reuse function for easy duplication of previously acquired images

## Applications

The EVOS® FL Auto Imaging System was designed to be used for a broad range of applications including, but not limited to, multi-channel fluorescence imaging, image tiling and stitching, cell density assays, multiple-position vessel scanning, and time-lapse imaging.



HeLa cells, 100x oil objective  
Light cubes: DAPI, GFP, RFP  
Reagents: NucBlue™ Live (blue), CellLight® Mito-GFP (green), CellLight® H2B-RFP

# EVOS® FL Auto Imaging System and Onstage Incubator

## Time-lapse imaging

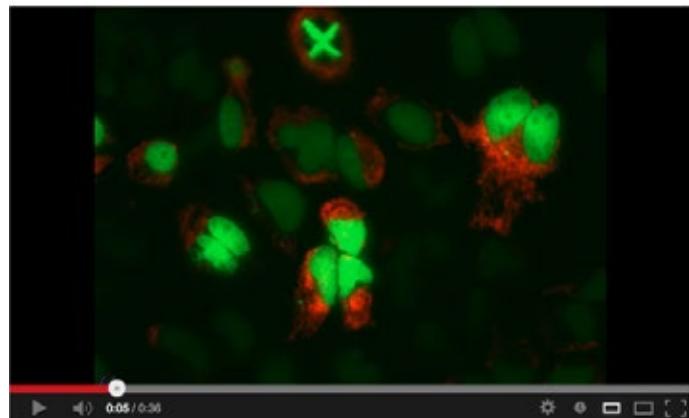
When combined with the new onstage incubation system, the EVOS® FL Auto Imaging System is ideal for long-term monitoring of cell cultures and time-lapse imaging at high resolution. The EVOS® Onstage Incubator is an environmental chamber enabling precise control of temperature, humidity, and three gases for time-lapse imaging of live cells under both physiological and nonphysiological (hypoxic) conditions.

Environmental settings and image acquisition parameters are all seamlessly integrated into the EVOS® FL Auto Imaging System interface, creating a high performance inverted imaging system with superb flexibility, ease of use, and optical performance for demanding time-lapse imaging experiments. With the integrated environmental chamber, you can:

- Intuitively set environmental and image acquisition parameters
- Easily maintain physiological or nonphysiological conditions with precise control
- Adjust environmental parameters while the experiment is running
- Choose from a range of vessel holders
- Save lab space with a small footprint and sleek design

Once captured, you can seamlessly create and export fluorescence or bright-field images as movies:

- Create time-lapse images of every well of a 96-well plate, simultaneously
- Acquire time-lapse images in single plane or z-stacks
- Autofocus in each channel and region of interest
- Metadata and time stamps are included with each image frame of time-lapse movies



Time-lapse imaging of dividing HeLa cells, using the EVOS® FL Auto Imaging System with Onstage Incubator. Images were captured every 12 minutes over a period of 24 hours. Cells were transduced with CellLight® Histone 2B-GFP (green) and CellLight® Mitochondria-RFP (red), and stained with NucBlue® Live ReadyProbes® Reagent (blue) prior to imaging.

## EVOS Onstage Incubator specifications

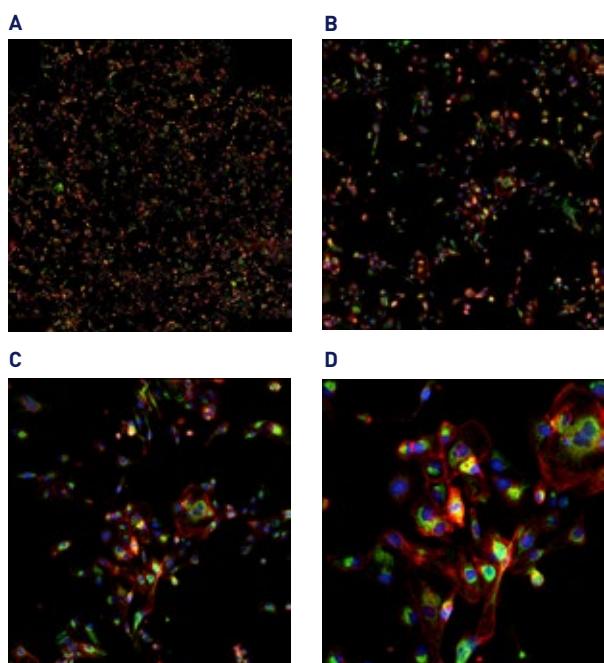
Compatible vessels	Multi-well plates, 35 mm dishes, 60 mm Petri dishes, T-25 flasks
Temperature range	Ambient to 40°C
CO <sub>2</sub> range	0–20%
O <sub>2</sub> range	0% to ambient
Humidity range	>80% relative humidity at 37°C
Dimensions	25 x 19 x 3.7 cm (environment chamber) 37 x 16 x 20 cm (control unit)
Weight	1.5 kg (environment chamber) 10 kg (control unit)

# EVOS® FL Auto Imaging System — additional applications

## Image stitching

The EVOS® FL Auto Imaging System allows capture of multiple images and mosaic tiling to stitch a high-resolution image of a large area. This is ideal for analyzing tissue sections or stem cell colonies, or viewing every cell in the well of a 96-well plate.

- Acquire images at high magnification and stitch for high-resolution mapping
- Batch export plate scans of large wells in one step
- Scan in bright-field, phase-contrast, or fluorescence mode
- Save individual images as well as composite images

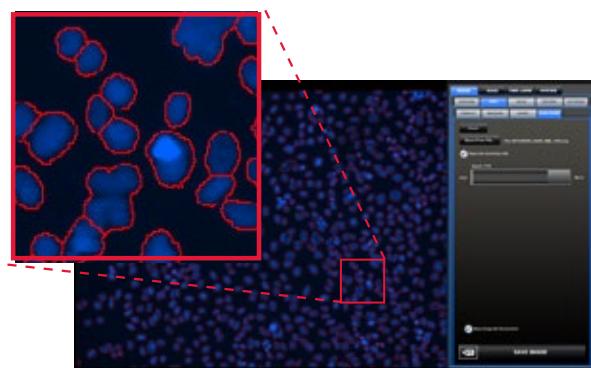


Stitched image of one well from a 96-well plate, taken using a 10x objective (A). CAKI cells were labeled with anti-OxPhos subunit V primary antibody and goat anti-mouse Alexa Fluor® 488 secondary antibody (green), ActinRed™ 555 reagent (red), and NucBlue® fixed cell stain (blue). Subsequent images are shown at 200% (B), 400% (C), and 800% (D) magnification.

## Automated cell counting

The EVOS® FL Auto Imaging System contains advanced software algorithms that allow extremely accurate cell counting. Following labeling of nuclei using a fluorescent dye such as NucBlue® live cell stain, the EVOS® FL Auto Imaging System will calculate the number of cells in a field of view, making it great for determining the number of cells in a well or dish.

- Accurate cell counting even at 4x magnification
- Adjust intensity levels with a convenient slider bar
- Easily visualize GFP expression, determine live/dead cell ratio, and count total cell numbers



Screen shot from the automated cell counting feature of the EVOS® FL Auto Imaging System. Cells were stained with NucBlue® live cell stain prior to analysis

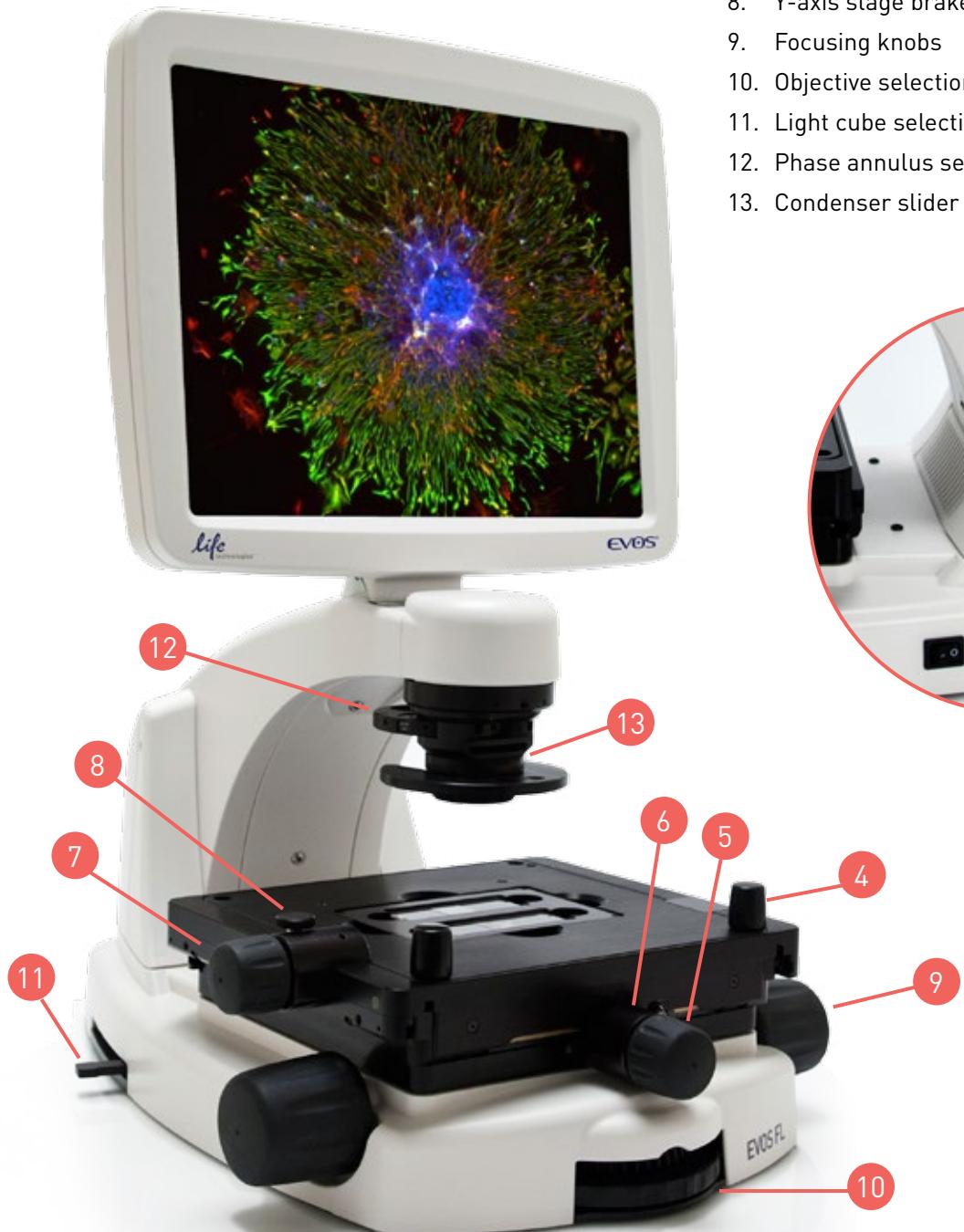
## Z-stacking

The EVOS® FL Auto Imaging System system has the option to produce flat-focus z-stack images. The Z-Stack Flat Focus feature collects a series of images, extracts the most "in focus" pixels from each image, and then returns a single, focused image even if the sample is very thick.

- Images can be made into a video, montage, 3D reconstruction, or maximum projection image
- Z-stack range can be performed automatically in fluorescence imaging mode
- Z-stack can uncover changes in cellular morphology not seen in standard widefield microscopy

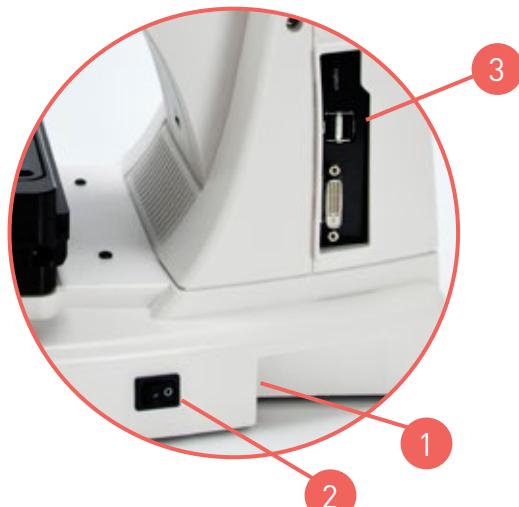
## EVOS® FL Imaging System

Form, function, and flexibility in one



## FL footprint

1. Power input jack
2. Power switch
3. USB and DVI ports
4. Coarse stage positioning knobs
5. Stage X-axis knob
6. X-axis stage brake
7. Stage Y-axis knob
8. Y-axis stage brake
9. Focusing knobs
10. Objective selection wheel
11. Light cube selection lever
12. Phase annulus selector
13. Condenser slider slot



## System highlights

Hardware	
Illumination	Adjustable-intensity LED (>50,000-hour life per light cube)
Contrast methods	Epifluorescence and transmitted light (bright-field and phase contrast)
Objective turret	5-position
Fluorescence channels	Simultaneously accommodates up to 4 fluorescent light cubes
Condenser working distance	60 mm
Stage	Mechanical stage with X-Y axis fine-positioning controls Interchangeable vessel holders available
LCD display	15" high-resolution color monitor with adjustable tilt (1,024 x 768 pixels)
Camera	High-sensitivity interline CCD camera (choice of monochrome or color)
Output ports	3 USB ports, 1 DVI port (supports direct output to USB and networked storage)
Power supply	AC adaptor
Dimensions	Height: 578 mm (22.8 in) Depth: 470 mm (18.5 in) Width: 355 mm (14.0 in)
Weight	15.3 kg (33.7 lb)

## Software

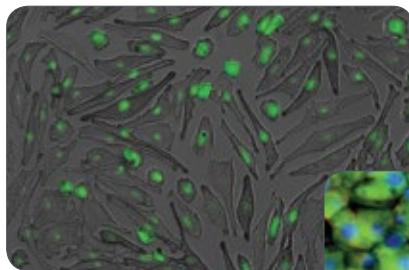
Integrated software is a key component of the all-in-one system. The EVOS® FL software features standard functions including a scalebar and image review tool along with a variety of advanced imaging and analysis tools. All images acquired can be saved in JPEG, BMP, TIFF, PNG, and AVI (video) formats.

### Key software features:

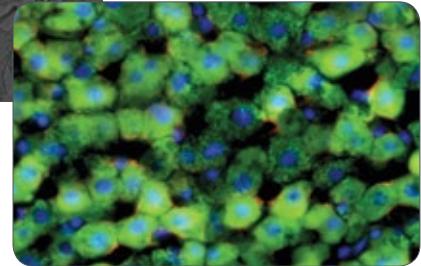
- 1-click, multi-channel overlay
- Time-lapse capability
- Cell counting capability
- Transfection capability

## Applications

The EVOS® FL Imaging System was designed for a broad range of applications including, but not limited to, multiple-channel fluorescence imaging, protein analysis, pathology, cell culture and *in situ* imaging. With positions for 5 objectives and 4 fluorescent light cubes, the EVOS® FL Imaging System provides the flexibility to meet most imaging research applications.



Keratinocytes, 20x objective.  
Illumination: overlay of GFP and  
transmitted light



Rat liver, 20x objective. Light cubes: DAPI,  
GFP, RFP

## EVOS® FLoid® Imaging Station

Simple, three-color fluorescent cell imaging that fits any budget



## FLoid® footprint

1. Power input jack
2. Power switch
3. Side USB ports
4. Front USB port
5. Coaxial focusing knob
6. Mechanical "glide" stage
7. Ambient light shield
8. Printer (optional)



## System highlights

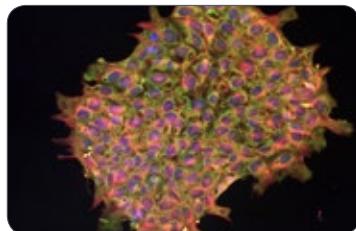
Hardware	
Illumination	Adjustable-Intensity LED (>50,000-hour life)
Contrast methods	Epifluorescence and transmitted light
Objective	20x fixed fluorite objective
Fluorescence channels	DAPI (blue), FITC (green), and Texas Red® (red)
Working distance	5.9 mm
Stage	Mechanical "glide" stage with fine range-of-motion control (4 mm movement in X-Y dimensions) Universal format, compatible with all vessel types
LCD display	15" high resolution color monitor with adjustable tilt (1,366 x 768 pixels)
Camera	Monochrome; high-sensitivity interline CCD camera
Output ports	4 USB ports (3 on side for accessories; 1 in front for data storage)
Power supply	AC adaptor
Dimensions	Height: 536 mm (21.1 in) Depth: 353 mm (13.9 in) Width: 404 mm (15.9 in)
Weight	11.8 kg (26 lb)

## Software

The FLoid® Imaging Station makes capturing and processing three-color fluorescence images as easy as taking pictures on your smartphone. Even the most novice fluorescence microscopy users can follow the icons on the intuitive user interface and capture publication-quality images in a matter of minutes right at the benchtop. All images acquired can be saved in JPEG, BMP, TIFF, and PNG formats.

### Key software features:

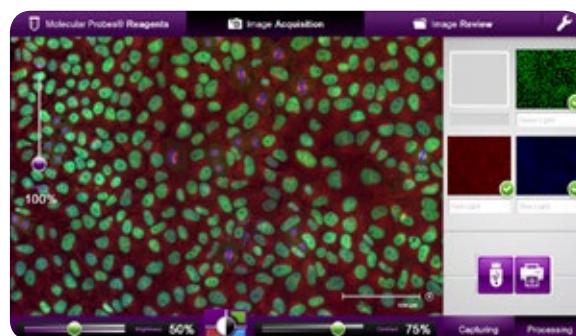
- 1-click, multi-channel overlay
- Icon-based operation
- Multiple language options
- Digital zoom



Human induced pluripotent stem cells stained with Lin28A antibody and goat anti-rabbit IgG Alexa Fluor® 488 secondary antibody (green), Alexa Fluor® 594-tubulin (red), and Hoechst 33342 (blue).

## Applications

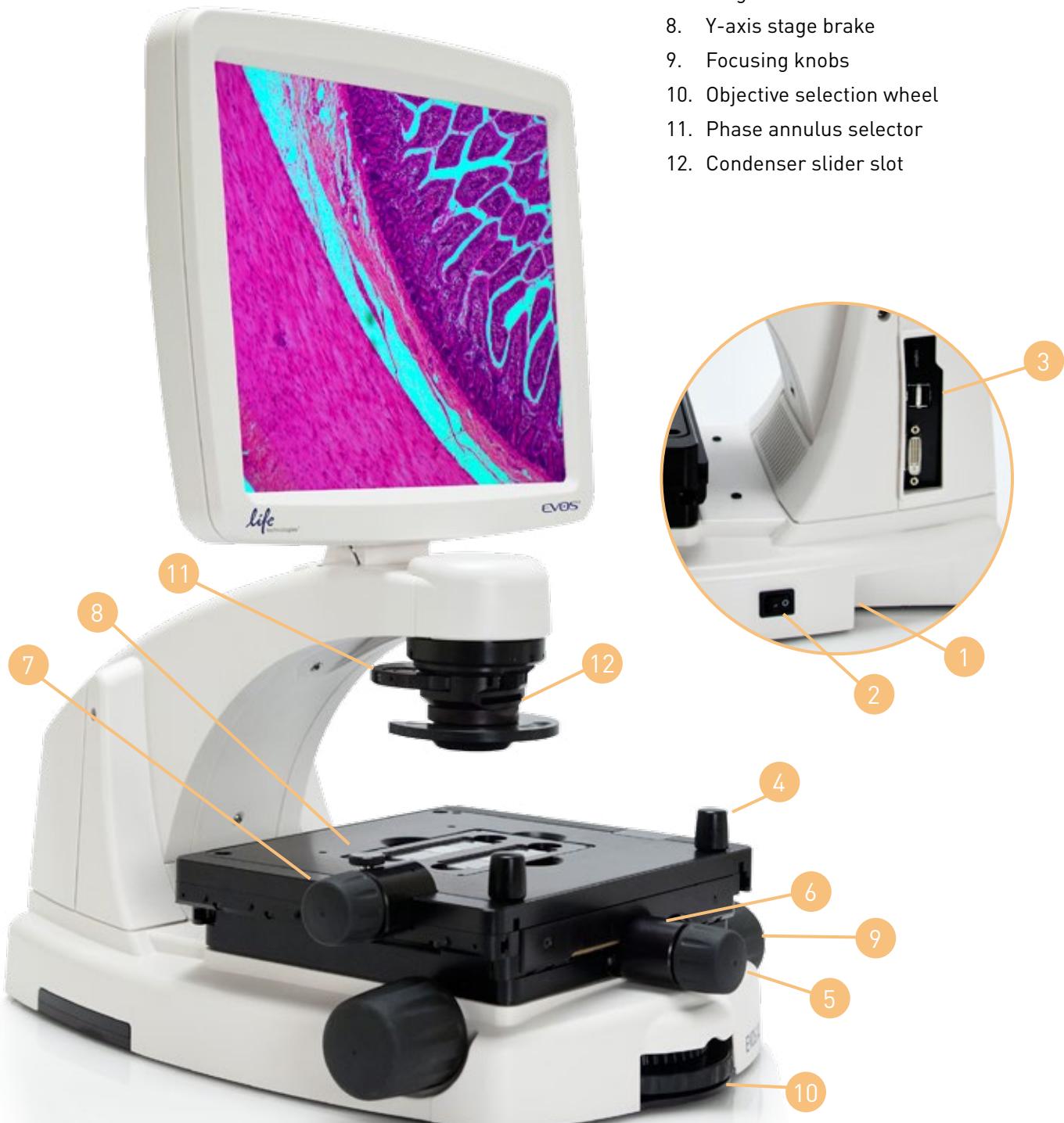
The FLoid® Imaging Station can be used in a broad range of applications, including routine fluorescent (GFP/RFP) tissue culture visualization and imaging, and serves as an excellent entry instrument for fluorescence microscopy. The FLoid® Imaging Station is a perfect complement to tissue culture rooms for quick visualization of GFP-and/or RFP-expressing cells.



Screenshot of the EVOS® FLoid® image processing software.

## EVOS® XL Imaging System

An advanced transmitted-light system that delivers high-definition results with the same form, functions, and features that are standard on all EVOS® systems



### XL footprint

1. Power input jack
2. Power switch
3. USB and DVI ports
4. Coarse stage positioning knobs
5. Stage X-axis knob
6. X-axis stage brake
7. Stage Y-axis knob
8. Y-axis stage brake
9. Focusing knobs
10. Objective selection wheel
11. Phase annulus selector
12. Condenser slider slot

## System highlights

Hardware	
Illumination	LED for transmitted light
Contrast methods	Transmitted light (bright-field and phase contrast)
Objective turret	5-position (front-mounted control)
Condenser working distance	60 mm
Stage	Mechanical "glide" stage with X-Y axis fine-positioning controls Interchangeable vessel holders available
LCD display	15" high-resolution color monitor with adjustable tilt (1,024 x 768 pixels)
Camera	High-sensitivity interline CMOS color camera
Output ports	3 USB ports, 1 DVI port (supports direct output to USB and networked storage)
Power supply	AC adaptor
Dimensions	Height: 578 mm (22.8 in) Depth: 470 mm (18.5 in) Width: 355 mm (14.0 in)
Weight	15.3 kg (33.7 lb)

## Software

Integrated software is a key component of the all-in-one system. Our software features standard functions such as a scalebar and image review tool as well as a variety of advanced imaging and analysis tools. All images acquired can be saved in JPEG, BMP, TIFF, PNG, and AVI (video) formats.

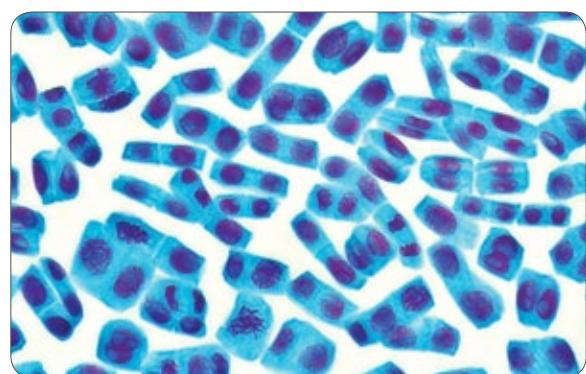
### Key software features:

- Time-lapse imaging
- Cell counting



## Applications

The EVOS® XL Imaging System was designed for a broad range of applications including, but not limited to, cell viability assays, stem cell growth and differentiation, stem cell passaging, hematoxylin and eosin imaging, and diaminobenzidine (DAB) imaging. The EVOS® XL Imaging System is ideal for routine cell and tissue culture, cell confluence determination, stem cell passaging, stem cell growth and differentiation, and developmental biology and tissue slice analyses.



Mitosis in onion root tip, 40x objective.

## EVOS® XL Core Imaging System

Compact, simple transmitted-light system perfect for use in the cell culture hood or tissue culture facility

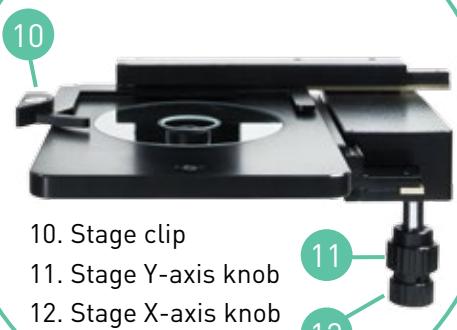


## XL Core footprint

1. Power input jack
2. Power switch
3. USB ports
4. Objective turret
5. Coaxial focusing knob
6. Phase turret
7. Illumination wheel
8. Freeze button
9. Save button



### Optional mechanical stage



## System highlights

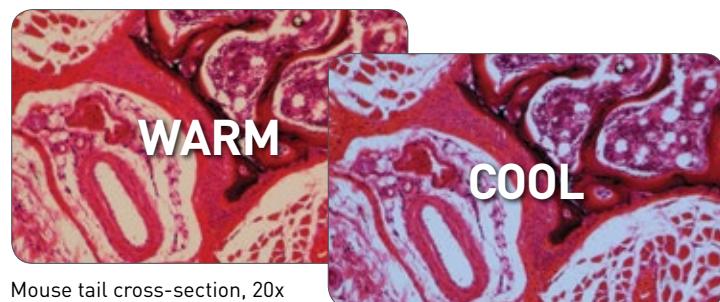
Hardware	
Illumination	LED for transmitted light
Contrast methods	Transmitted light (bright-field and phase contrast)
Objective turret	4-position (front-mounted control)
Condenser working distance	60 mm
Stage	Choice of fixed or mechanical stage Mechanical stage has X-Y axis controls and vessel holder framework
LCD display	12.1" high-resolution color monitor with adjustable tilt
Camera	High-sensitivity CMOS color camera
Output ports	2 USB ports
Power supply	AC adaptor
Dimensions	Height: 553 mm (21.0 in) Depth: 406 mm (16.0 in) Width: 318 mm (12.5 in)
Weight	With fixed stage: 9.1 kg (20.1 lb) With mechanical stage: 10.0 kg (22.0 lb)

## Software

Integrated software is a key component of the all-in-one system. Our software includes a variety of features such as color temperature control. All images acquired can be saved in JPEG, BMP, and TIFF formats.

### Key software features:

- Adjustable saturation and contrast
- Color temperature controls (warm vs. cool)



## Applications

The EVOS® XL Core Imaging System was designed for a broad range of applications including, but not limited to, routine cell and tissue culture visualization and imaging, stem cell applications, and sample staining differentiation (such as Gram staining).



# Objectives

## Plan achromat

Magnification	NA	WD (mm)	Bright-field	Phase	Long working distance	Coverslip corrected	Oil	Cat. No.
2x	0.06	5.10	•		•			AMEP4631
4x	0.13	16.90	•	•	•			AMEP4632
10x	0.25	6.90	•	•	•			AMEP4633
20x	0.40	6.80	•	•	•			AMEP4634
40x	0.65	3.10	•	•	•			AMEP4635
50x	0.95	0.19	•			•	•	AMEP0P050
100x	1.25	0.15	•			•	•	AMPF0P100

Plan achromat: Perfect for general applications; color and focus have standard correction.

## Plan fluorite

Magnification	NA	WD (mm)	Bright-field	Phase	Long working distance	Coverslip corrected	Oil	Cat. No.
4x	0.13	19.70	•		•			AMEP4622
10x	0.30	8.30	•		•			AMEP4623
10x	0.25	9.20	•	•	•			AMEP4681
20x	0.45	7.10	•		•			AMEP4624
20x	0.40	3.10	•	•	•			AMEP4682
20x	0.50	2.50	•			•		AMEP4698
40x	0.65	2.80	•		•			AMEP4625
40x	0.65	1.60	•	•	•			AMEP4683
40x	0.75	0.72	•			•		AMEP4699
40x	1.30	0.20	•			•	•	AMEP4735
60x	0.75	2.20	•		•			AMEP4626
100x	1.28	0.21	•			•	•	AMEP4700

Plan fluorite: Excellent resolution resulting in brighter fluorescence signal and higher-contrast imaging.

Helps reduce optical aberrations; color and focus have a higher level of correction.

## Plan apochromat

Magnification	NA	WD (mm)	Bright-field	Phase	Long working distance	Coverslip corrected	Oil	Cat. No.
1.25x	0.04	5.00	•		•			AMEP4736
20x	0.75	0.60	•			•		AMEP4734
60x	1.42	0.15	•			•	•	AMEP4694
100x	1.40	0.13	•			•	•	AMEP4733

Plan apochromat: Highest levels of resolution, fluorescence brightness, contrast, and chromatic correction.

## Bright-field vs. phase contrast

### Bright-field contrast

The most basic form of light microscopy, bright-field contrast is mediated by the absorption of light by the sample. A higher-density area in a sample will absorb more light, thus increasing contrast in those areas.

### Phase contrast

This form of contrast is most useful for hard-to-see, translucent specimens. It is accomplished by converting phase shifts, caused by light passing through a translucent specimen, into brightness changes (i.e., contrast).

## Long working distance vs. coverslip corrected

### Long working distance

Optimized for use through vessels with nominal wall thickness of 0.9–1.5 mm (slides, flasks, microtiter dishes, etc.).

### Coverslip corrected

Optimized for use through #1.5 coverslips (approximately 0.17 mm thick). Have a higher magnification-to-NA ratio and provide higher resolution compared to long working distance.

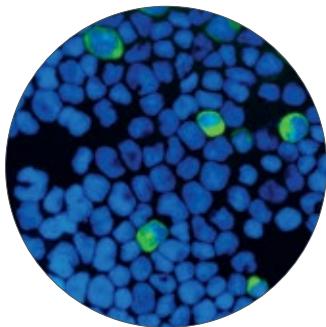
For more information, go to [lifetechnologies.com/evosobjectives](http://lifetechnologies.com/evosobjectives)

## Proprietary LED light cubes

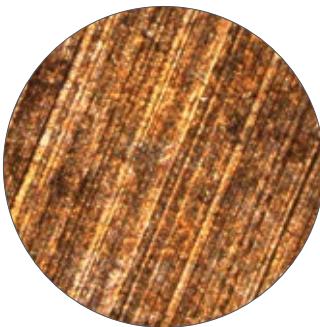
At the heart of EVOS® fluorescence technology lie the proprietary LED light cubes.\* Each cube contains an LED, collimating optics, and filters. Light cubes are user interchangeable, auto-configured by the system with plug-and-play capability. The wide variety of light cubes available provides flexibility for multiple-fluorescence research applications.

## Common light cubes

Light cube	Dye	Cat. No.
DAPI	DAPI, Hoechst, BFP	AMEP4650
TagBFP	TagBFP	AMEP4668
CFP	ECFP, Lucifer Yellow, Evans Blue	AMEP4653
GFP	GFP, Alexa Fluor® 488, SYBR® Green, FITC	AMEP4651
YFP	EYFP, acridine orange + DNA	AMEP4654
RFP	RFP, Alexa Fluor® 546, Alexa Fluor® 555, Alexa Fluor® 568, Cy®3, MitoTracker® Orange, Rhodamine Red, DsRed	AMEP4652
Texas Red	Texas Red®, Alexa Fluor® 568, Alexa Fluor® 594, MitoTracker® Red, mCherry, Cy®3.5	AMEP4655
Cy5	Cy®5, Alexa Fluor® 647, Alexa Fluor® 660, DRAQ5®	AMEP4656
Cy5.5	Cy®5.5, Alexa Fluor® 660, Alexa Fluor® 680, Alexa Fluor® 700	AMEP4673
Cy7	Cy®7, IRDye 800CW	AMEP4667
Specialty light cube	Dye	Cat. No.
CFP-YFP em	CFP/YFP (for FRET applications)	AMEP4669
AO	Acridine orange + RNA, simultaneous green/red with FL color	AMEP4670
AOred	Acridine orange + RNA, CTC formazan, Fura Red™ (high Ca <sup>2+</sup> )	AMEP4671
White	Refracted light applications	AMEP4672



CHO cells transfected with eukaryotic expression plasmid, 40x objective. Light cubes: Cy®7, DAPI



Gold, 10x objective.  
Light cube: white

## Custom light cubes

Need a light cube to accommodate your specialized fluorescent needs? Contact us to create a specialty light cube with our proprietary LED technology.

\*Not available for the FLoid® Imaging Station

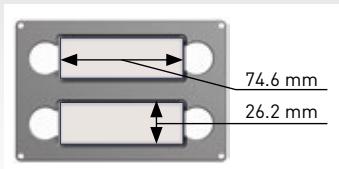
For a complete list of available common and specialty light cubes, go to [lifetechnologies.com/evoslightcubes](http://lifetechnologies.com/evoslightcubes)

# Vessel holders and stage plates

## All models

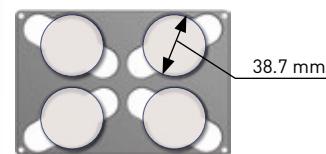
**AMEPVH001**

Holds two 25 mm x 75 mm standard microscope slides, chamber slides, etc.



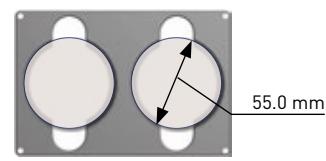
**AMEPVH002**

Holds four 35 mm Petri dishes



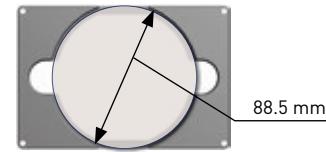
**AMEPVH003**

Holds two 60 mm Petri dishes



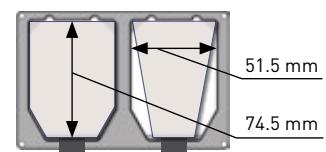
**AMEPVH004**

Holds one 100 mm Petri dish



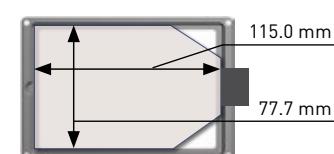
**AMEPVH005**

Holds two 25 cm<sup>2</sup> flasks; rectangular or triangular



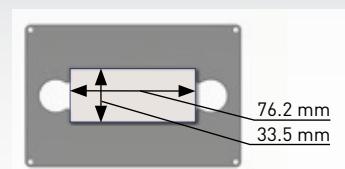
**AMEPVH006**

Holds one Nunc® T-75 flask; 75 cm<sup>2</sup>



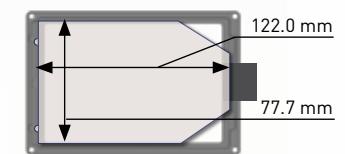
**AMEPVH007**

Holds one hemocytometer



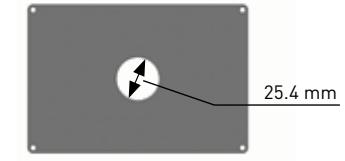
**AMEPVH008**

Holds one Greiner T-75 flask; 75 cm<sup>2</sup>



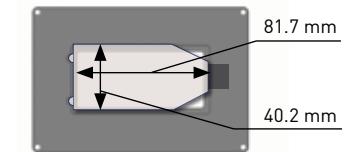
**AMEPVH009**

Universal stage insert



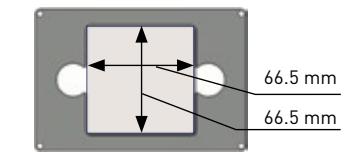
**AMEPVH010**

Holds one BD/Greiner T-25 flask; 25 cm<sup>2</sup>



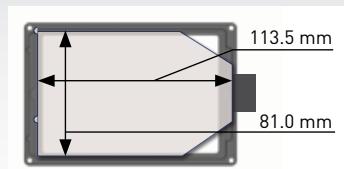
**AMEPVH011**

Holds one Nunc®/SPL IVF 4-well dish



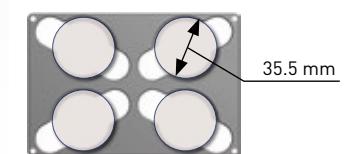
**AMEPVH012**

Holds one SPL T-75 flask; 75 cm<sup>2</sup>



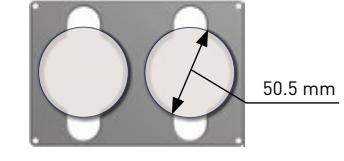
**AMEPVH013**

Holds four Ibidi® 35 mm Petri dishes



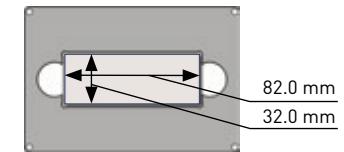
**AMEPVH014**

Holds two Ibidi® 50 mm Petri dishes



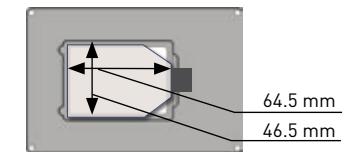
**AMEPVH017**

Holds one KOVA® Glasstic® slide 10



**AMEPVH018**

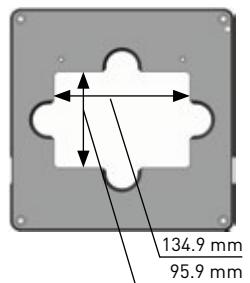
Holds one Nunc® T-25 flask; 25 cm<sup>2</sup>



## FL and XL

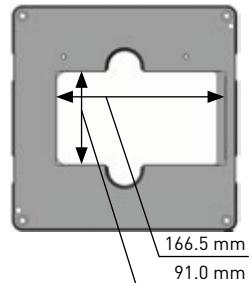
**AMEP4684**

Stage plate for heating tray, Tokai Hit MATS-UAXKD-D



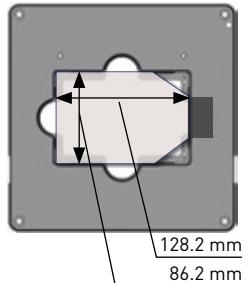
**AMEP4685**

Stage plate for heating stage, BioFlux™ by Fluxion



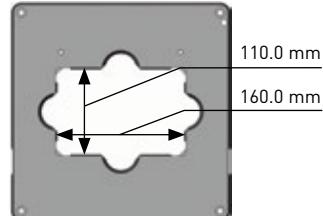
**AMEP4686**

Stage plate for multi-well vessels; also hold one Corning® T-75 flask



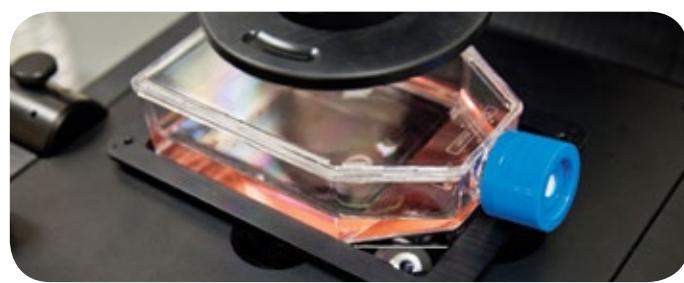
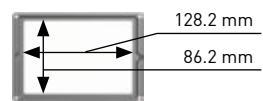
**AMEP4691**

Stage plate with 110 mm x 160 mm opening (Use with AMEP4692 for standard sizes)



**AMEP4692**

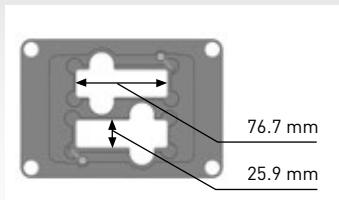
Stage plate adaptor with 110 mm x 160 mm opening for standard size



## FL Auto

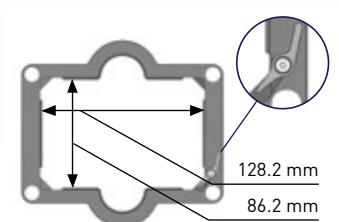
### AMEPVH021

Securely holds two 25 mm x 75 mm standard microscope slides, chamber slides, etc.



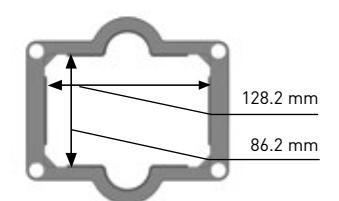
### AMEPVH022

Intermediate plate for automated stage; securely holds multi-well vessels with convenient lever adaptor for AMEPVH001 and AMEPVH009



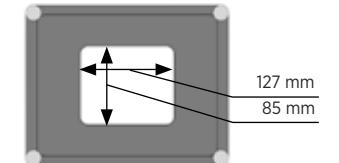
### AMEPVH023

Holds multi-well vessels  
Adaptor for AMEPVH001 and AMEPVH009



### AMEPVH027

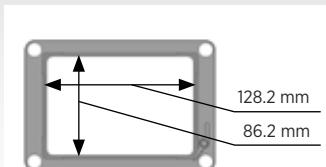
Master plate, largert format, automated stage



## Onstage Incubator

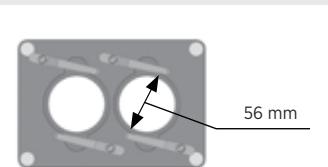
### AMEPVH028

Securely holds one multi-well plates



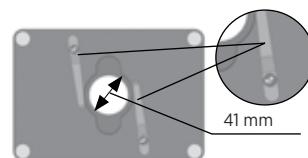
### AMEPVH032

Securely holds two 60 mm Petri dishes



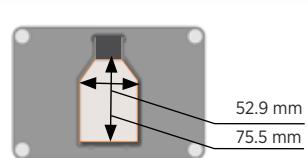
### AMEPVH029

Securely holds one 35 mm Petri dish



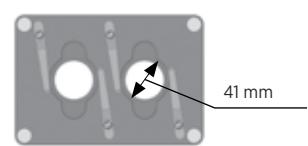
### AMEPVH033

Holds one T-25 flask



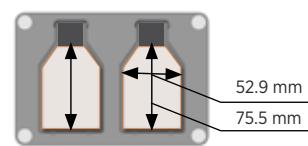
### AMEPVH030

Securely holds two 35 mm Petri dishes



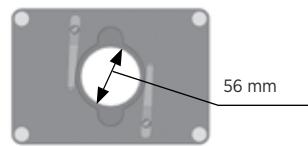
### AMEPVH034

Holds two T-25 flasks



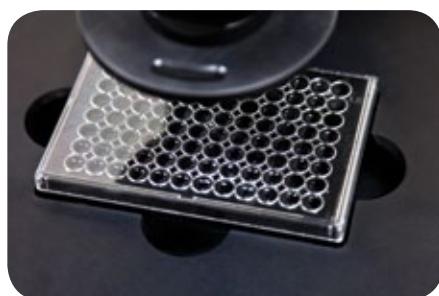
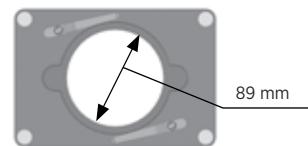
### AMEPVH031

Securely holds one 60 mm Petri dish



### AMEPVH037

Securely holds one 100 mm Petri dish





EVOS® XL Core | EVOS® XL | EVOS® FLoid® | EVOS® FL | EVOS® FL Auto



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