invitrogen

Simply stunning

EVOS imaging systems

Smart systems | Easy cell imaging | Fast results

ThermoFisher SCIENTIFIC

Eliminating the complexities of microscopy

An Invitrogen™ EVOS™ Cell Imaging 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.

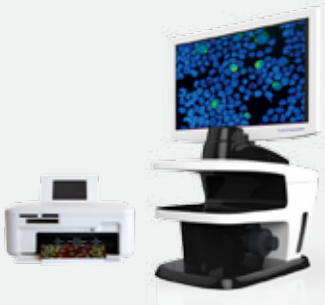
Our proprietary LED light cube technology is designed to minimize photobleaching, offers >50,000 hours of LED illumination, and allows adjustable intensity—with no darkroom and no consumable costs.

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 long-term live cell imaging, high-resolution image mapping, Z-stacking, and automated fluorescence imaging. 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

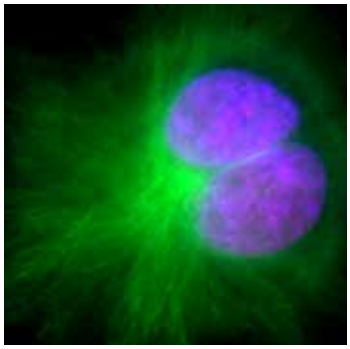
EVOS XL Core Imaging System

Contents

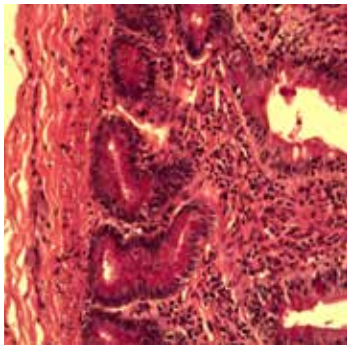
Compact and portable systems

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.

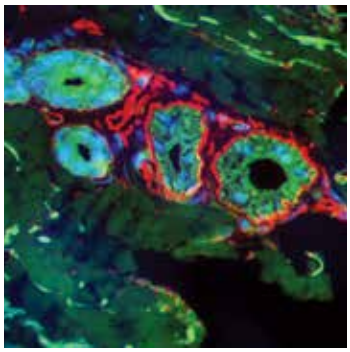
From intimate hands-on demonstrations to lecture halls, EVOS imaging systems are the perfect system for teaching—whether your audience is large or small.



A549 adenocarcinomic human alveolar basal epithelial cells, 100x apochromat objective. Light cubes: GFP, RFP.



Human ileum, hematoxylin and eosin staining, 40x objective.



Rat skin, 20x coverslip-corrected objective. Light cubes: DAPI, GFP, RFP.

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 more energy efficient.

EVOS imaging systems at a glance

	FL Auto	FL/FL Color	FLoid	XL	XL Core
					
	Epifluorescence solutions			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	•	•	•	•	
Objective turret positions	5	5	NA	5	4
20x fixed objective			•		
Fluorescence channels	4	4	3		
Monochrome camera	•		•		
Color camera	•			•	•
Monochrome or color camera option		•			
Epifluorescence	•	•	•		
Transmitted light	•	•	•	•	•
High-resolution image mapping	•				
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, providing high-intensity output over a short light path for the most efficient fluorophore excitation.

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

Revolutionary light path

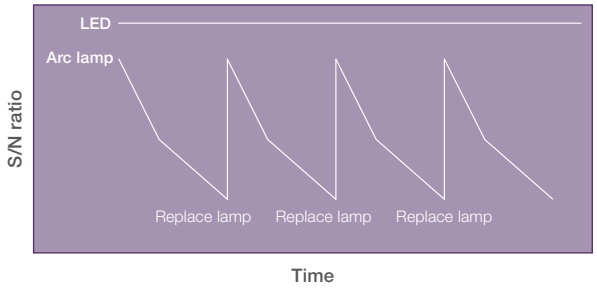
By placing the LED light cube as close as possible to the objective turret, the number of optical elements in the light path is minimized. High-intensity illumination over a short light path increases the efficiency of fluorophore excitation, enabling better detection of weak fluorescent signals.

Continuous light intensity

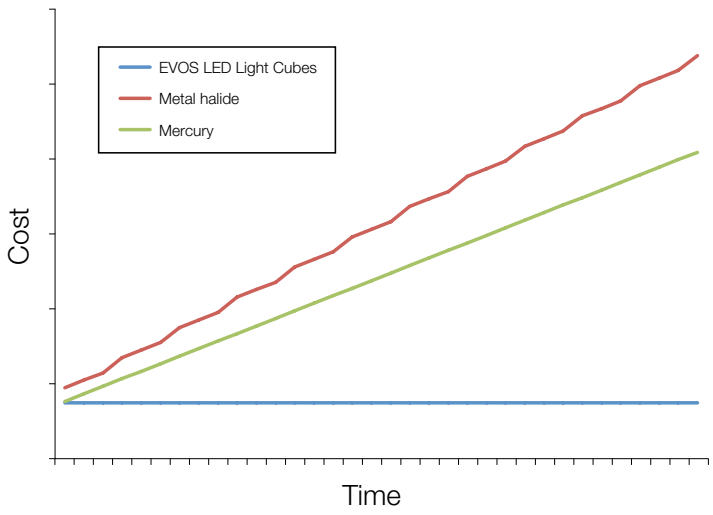
Mercury arc lamps can decrease in intensity by 50% in the first 100 hours of operation—plus, images acquired in different sessions cannot be quantitatively compared using mercury illumination without complicated calibrations. Because EVOS systems have continuous light cube intensity, users can rely on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

Stability comparison

Mercury and metal halide vs. LED



Illumination costs over time



Less expensive to 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 70–75% savings in the overall upkeep of your instrument.

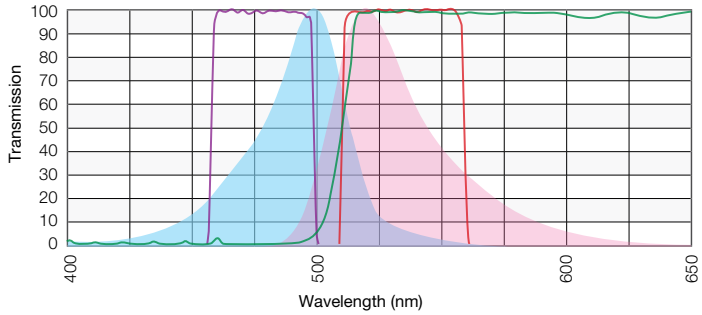
EVOS hard-coated filter sets enable higher transmission efficiencies

Hard-coated filter sets are generally 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 systems' hard-coated filter sets, your light cubes cost less over time and are designed to have brighter fluorescence, higher transmission efficiencies, the ability to detect faint fluorescence signals, and better signal-to-noise ratios.

Transmission efficiency comparison

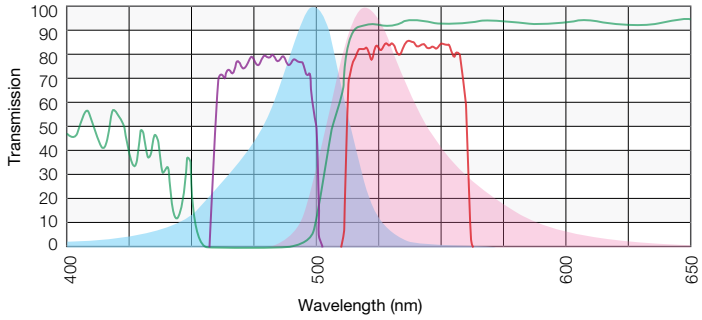
Hard-coated filters

49011 ET FITC/Alexa Fluor 488/Fluo-3/Oregon Green



Soft-coated filters

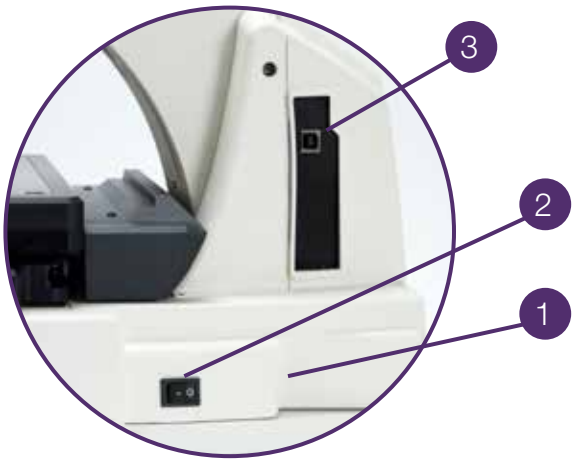
41001 FITC/RSGFP/BODIPY/Fluo-3/DiO



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

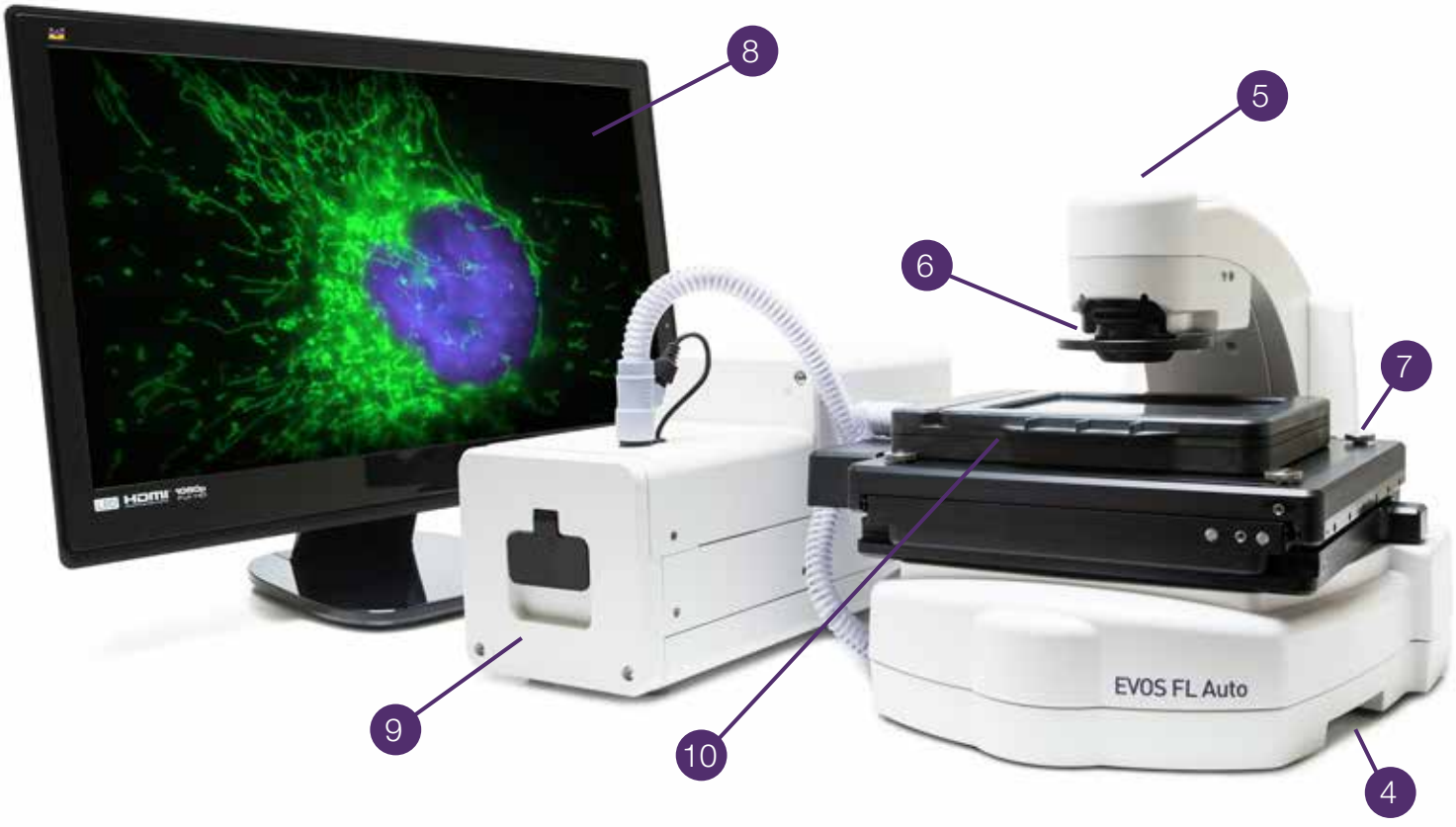
EVOS FL Auto Imaging System

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)



*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	Epifluoresence and transmitted light (brightfield 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 and custom 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: 32.2 cm (12.7 in) Depth: 47.2 cm (18.6 in) Width: 34.3 cm (13.5 in)
Weight	20.0 kg (44.1 lb)

Software

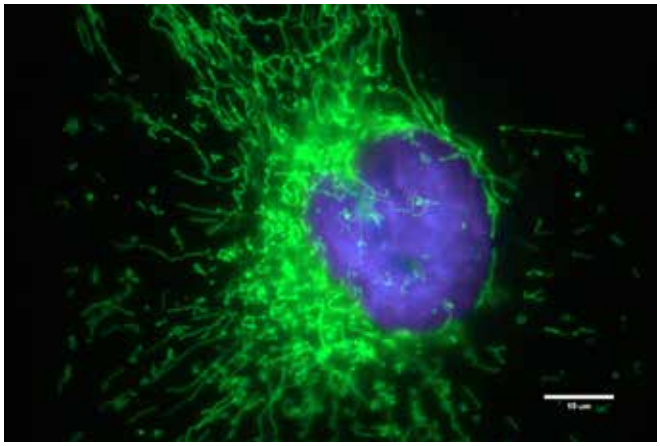
Integrated software is a key component of the all-in-one system. The Invitrogen™ EVOS™ FL Auto software, accessed by a touch-screen monitor, features standard functions such as a scale bar and image review tool as well as a variety of advanced imaging and analysis tools. All images acquired can be saved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

Key software features:

- Time-lapse imaging
- High-resolution image mapping
- Automated cell counting
- Auto-focus and automated multi-well plate scanning
- Z-stacking
- Environmental control with Invitrogen™ EVOS™ Onstage Incubator
- Reuse function for easy duplication of previously acquired images

Applications

The Invitrogen™ EVOS™ FL Auto Imaging System is a fully automated, digital inverted multi-channel fluorescence and transmitted-light imaging system with outstanding workflow efficiency. Designed to meet demanding requirements over a broad range of applications, the EVOS FL Auto system supports high-resolution live-cell imaging, mosaic tiling, multi-position well scanning, cell counting with thresholding, and time-lapse studies.



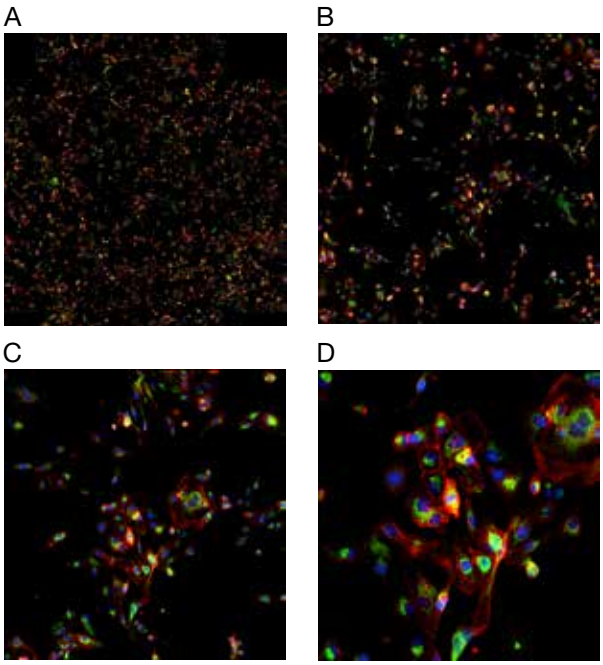
HeLa cells, 100x oil objective
Light cubes: DAPI, GFP, RFP
Reagents: Invitrogen™ NucBlue™ Live (blue), CellLight™ Mitochondria-GFP (green), CellLight™ H2B-RFP

EVOS FL Auto Imaging System—additional applications

High-resolution image mapping

The EVOS FL Auto Imaging System allows capture of multiple images of a large area of a slide or plate to create a high-resolution image of the larger field of view. 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 to create a high-resolution image map
- Batch export plate scans of large wells in one step
- Scan in brightfield, phase-contrast, or fluorescence mode
- Save individual images as well as combined images

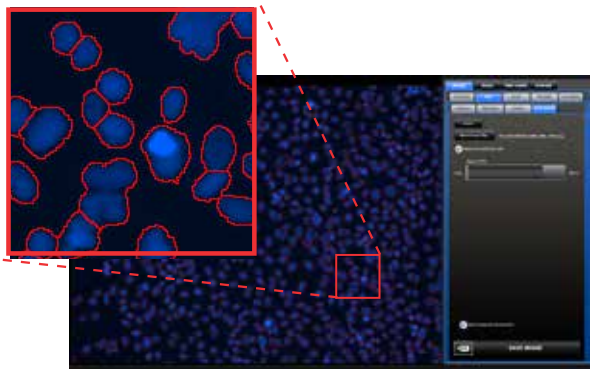


High-resolution map of one well from a 96-well plate, taken using a 10x objective (A). CAKI cells were labeled with anti-OxPhos subunit V primary antibody and goat anti-mouse Alexa Fluor 488 secondary antibody (green), Invitrogen™ ActinRed™ 555 reagent (red), and NucBlue fixed cell stain (blue). Subsequent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

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 best-focused 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 imaging can help uncover changes in cellular morphology not seen in standard wide-field microscopy

EVOS FL Auto Imaging System and Onstage Incubator

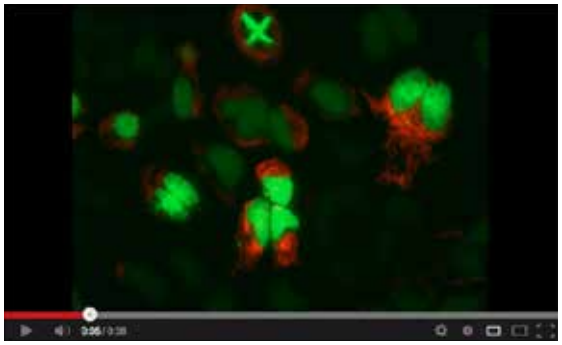
Time-lapse imaging

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 conditions, making the system ideal for demanding hypoxia experiments.

- 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 brightfield 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 Invitrogen™ CellLight™ Histone 2B-GFP (green) and Invitrogen™ CellLight™ Mitochondria-RFP (red), and stained with Invitrogen™ NucBlue™ Live wReagent (blue) prior to imaging.

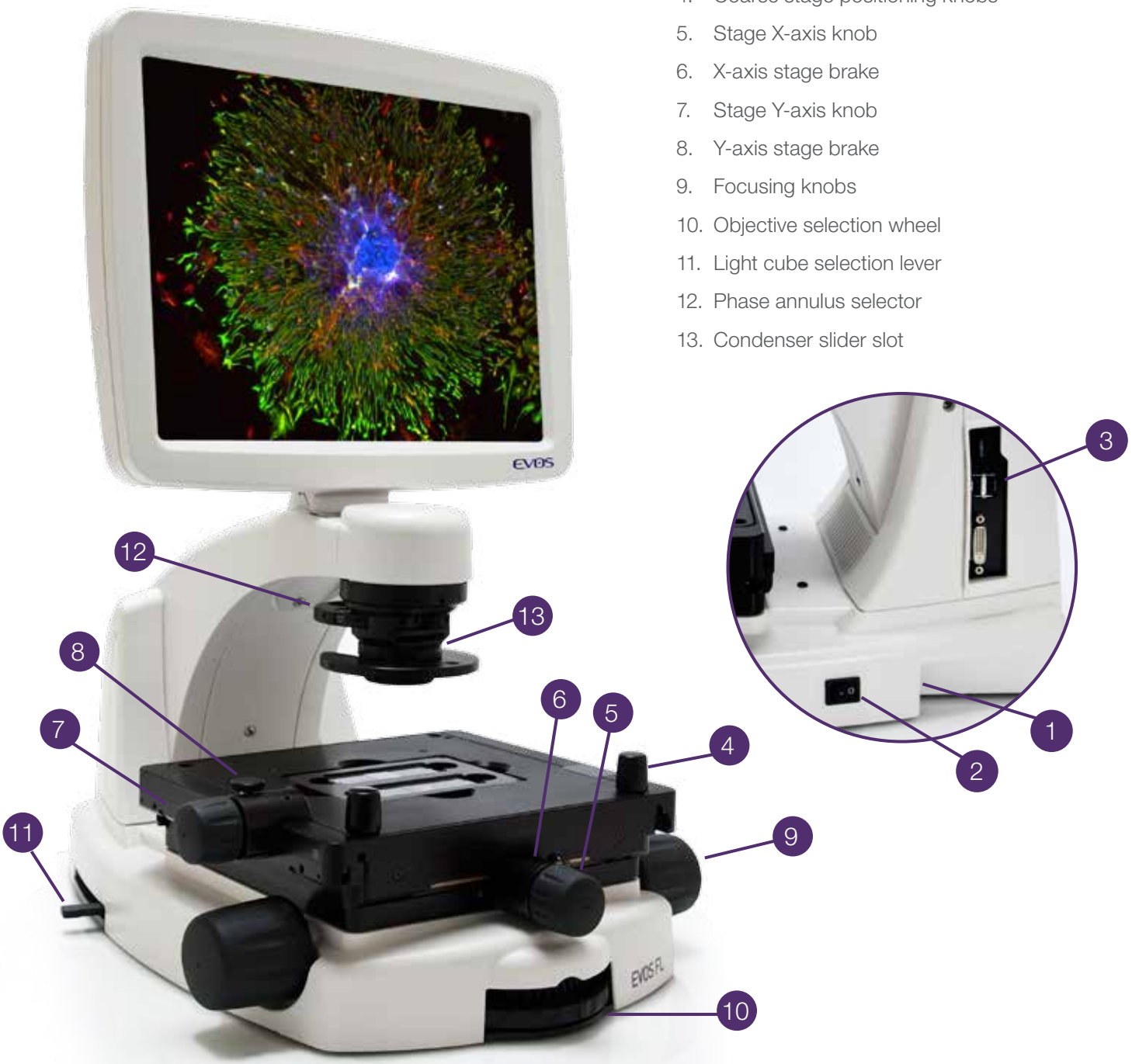
EVOS Onstage Incubator specifications	
Compatible vessels	Multi-well plates, 35 mm dishes, 60 mm Petri dishes, T-25 flasks
Temperature range	Ambient to 40°C
CO_2 range	0–20%
O_2 range	0% to ambient
Humidity range	>80% relative humidity at 37°C
Dimensions (H x D x W)	25 x 19 x 3.7 cm (environmental chamber) 37 x 16 x 20 cm (control unit)
Weight	1.5 kg (environmental chamber) 10 kg (control unit)

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	Epifluoresence and transmitted light (brightfield 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: 57.8 cm (22.8 in) Depth: 47.0 cm (18.5 in) Width: 35.5 cm (14.0 in)
Weight	15.3 kg (33.7 lb)

Software

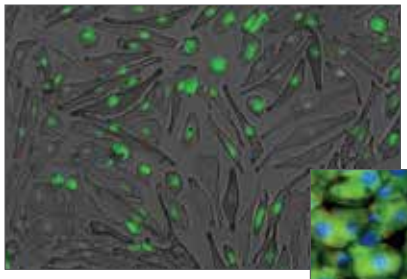
Integrated software is a key component of the all-in-one system. The Invitrogen™ EVOS™ FL software features standard functions, including a scale bar and image review tool along with a variety of advanced imaging and analysis tools. All images acquired can be saved in JPEG, BMP, TIFF, PNG, and AVI (video)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

Key software features:

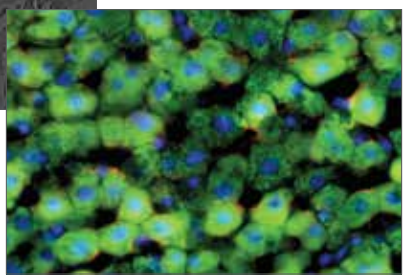
- 1-click, multi-channel overlay
- Time-lapse capability
- Cell counting capability
- Transfection capability

Applications

The Invitrogen™ 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 help 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, budget-friendly three-color fluorescent cell imaging

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

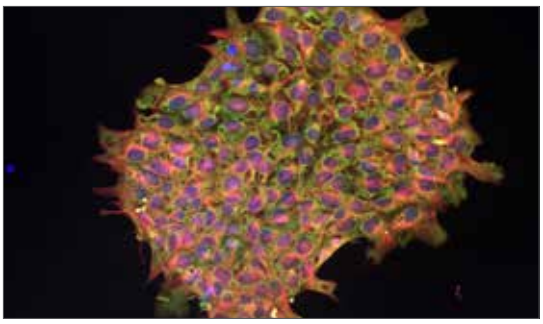
Hardware	
Illumination	Adjustable-intensity LED (>50,000-hour life)
Contrast methods	Epifluorescence and transmitted light
Objective	20x fixed fluorite
Fluorescence channels	DAPI (blue), FITC (green), and Texas Red (red)
Working distance	5.9 mm
Stage	Mechanical “glide” stage with fine range-of-motion 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: 53.6 cm (21.1 in) Depth: 35.3 cm (13.9 in) Width: 40.4 cm (15.9 in)
Weight	11.8 kg (26 lb)

Software

The Invitrogen™ FLoid™ Imaging Station makes capturing and processing three-color fluorescence images as easy as taking pictures on your smartphone. Even 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:

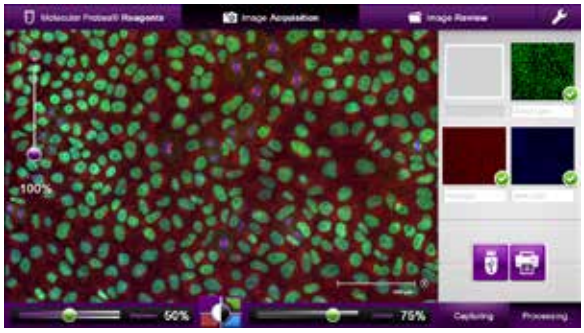
- 1-click, multi-channel overlay
- Icon-based operation
- Multiple language options
- Digital zoom



Human induced pluripotent stem cells stained with Lin28A antibody and goat anti–rabbit IgG Alexa Fluor 488 secondary antibody (green), Invitrogen™ Alexa Fluor™ 594 anti-tubulin antibody (red), and Invitrogen™ Hoechst™ 33342 stain (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, enabling uick visualization of GFP- and/or RFP-expressing cells.



Screen shot of the EVOS FLoid image processing software.

EVOS XL Imaging System

An advanced transmitted-light system designed to deliver 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 (brightfield 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: 57.8 cm (22.8 in) Depth: 47.0 cm (18.5 in) Width: 35.5 cm (14.0 in)
Weight	15.3 kg (33.7 lb)

Software

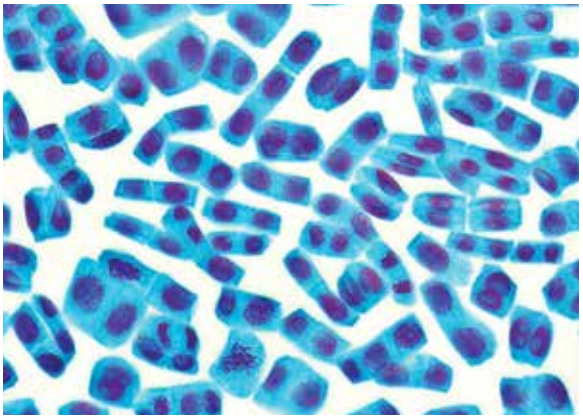
Integrated software is a key component of this all-in-one system. Our software features standard functions such as a scale bar and image review tool as well as a variety of advanced imaging and analysis tools. All images acquired can be saved in JPEG, BMP, TIFF, PNG, and AVI (video) formats.

Key software features:

- Time-lapse imaging
- Cell counting

Applications

The Invitrogen™ 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 diaminobenzidene (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.



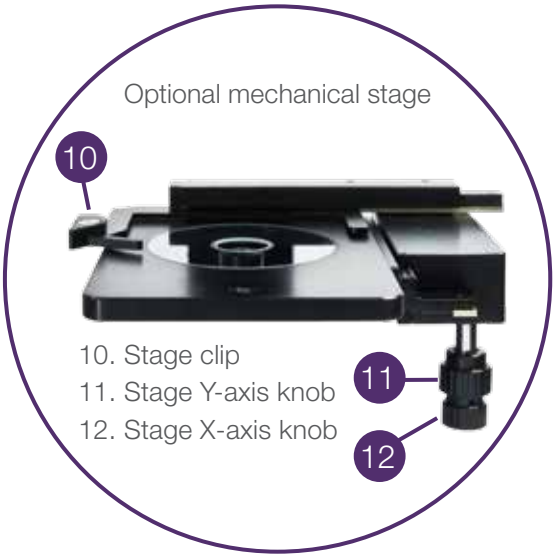
Mitosis in onion root tip, 40x objective.

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 (back of LCD display)
4. Objective turret
5. Coaxial focusing knob
6. Phase turret
7. Illumination wheel
8. Freeze button
9. Save button



System highlights

Hardware	
Illumination	LED for transmitted light
Contrast methods	Transmitted light (brightfield 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: 55.3 cm (21.0 in) Depth: 40.6 cm (16.0 in) Width: 31.8 cm (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 this 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 control (warm vs. cool)

Mouse tail cross-section, 20x objective.

Applications

The Invitrogen™ 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)	Brightfield	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	•			•	•	AMPFOP050
100x	1.25	0.15	•			•	•	AMPFOP100

Plan achromat: Perfect for general applications; color and focus have standard correction compared to apochromat and fluorite objectives.

Plan fluorite

Magnification	NA	WD (mm)	Brightfield	Phase	Long working distance	Coverslip-corrected	Oil	Cat. No.
4x	0.13	19.70	•		•			AMEP4622
4x	0.13	16.90	•	•	•			AMEP4680
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 bright fluorescence signal and high-contrast imaging.
Helps reduce optical aberrations; color and focus have a higher level of correction.

Plan apochromat

Magnification	NA	WD (mm)	Brightfield	Phase	Long working distance	Coverslip-corrected	Oil	Cat. No.
1.25x	0.04	5.11	•		•			AMEP4736
2x	0.08	6.22	•		•			AMEP4751
4x	0.16	13.00	•		•			AMEP4752
10x	0.40	3.10	•			•		AMEP4753
20x	0.75	0.65	•			•		AMEP4734
40x	0.95	0.18	•			•		AMEP4754
60x	1.42	0.15	•			•	•	AMEP4694
100x	1.40	0.13	•			•	•	AMEP4733

Plan apochromat: Highest levels of resolution, fluorescence brightness, contrast, and chromatic correction compared to achromat and fluorite objectives.
NA=Numerical aperture, WD=Working distance

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-numerical aperture (NA) ratio and provide higher resolution compared to long working distance.

For more information, go to **thermofisher.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, and auto-configured by the system with plug-and-play capability. The wide variety of light cubes available provides flexibility for multiple fluorescence research applications.

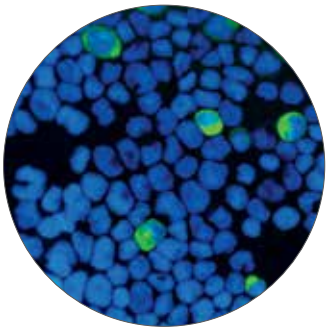
Custom light cubes

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

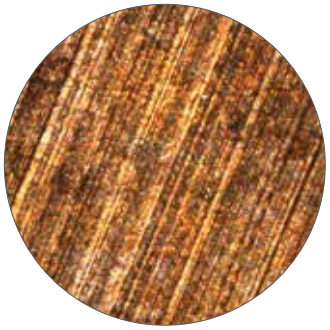
*Not available for the FLoid Imaging Station

Common light cubes

Light cube	Dye	Cat. No.
DAPI	DAPI, Hoechst stain, 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, Cy3, MitoTracker Orange, Rhodamine Red, DsRed	AMEP4652
Texas Red	Texas Red, Alexa Fluor 568, Alexa Fluor 594, MitoTracker Red, mCherry, Cy3.5	AMEP4655
Cy5	Cy5, Alexa Fluor 647, Alexa Fluor 660, DRAQ5	AMEP4656
Cy5.5	Cy5.5, Alexa Fluor 660, Alexa Fluor 680, Alexa Fluor 700	AMEP4673
Cy7	Cy7, 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
AO Red	Acridine orange + RNA, CTC formazan, Fura Red (high Ca^{2+})	AMEP4671
White	Reflected light applications	AMEP4672



CHO cells transfected with eukaryotic expression plasmid, 40x objective. Light cubes: Cy7, DAPI.



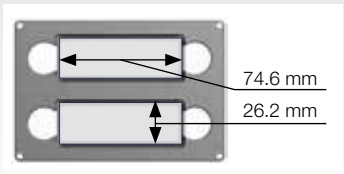
Gold, 10x objective. Light cube: white.

For a complete list of available common and specialty light cubes, go to **thermofisher.com/evoslightcubes**

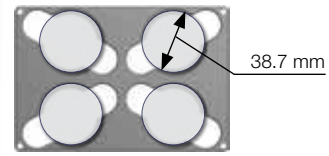
Vessel holders and stage plates

All models

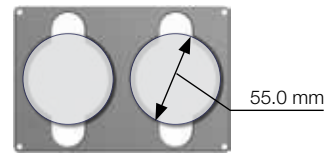
AMEPVH001
Holds two 25 mm x 75 mm standard microscope slides, chamber slides, etc.



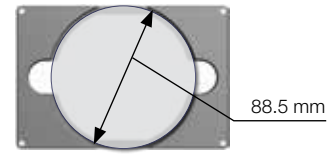
AMEPVH002
Holds four 35 mm Petri dishes



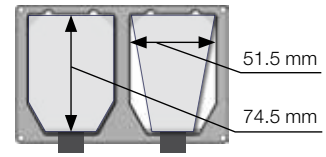
AMEPVH003
Holds two 60 mm Petri dishes



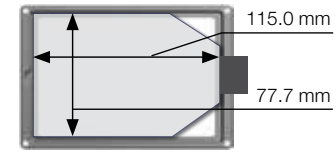
AMEPVH004
Holds one 100 mm Petri dish



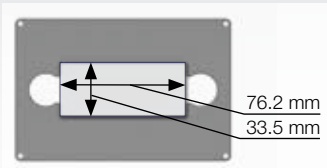
AMEPVH005
Holds two 25 cm² flasks; rectangular or triangular



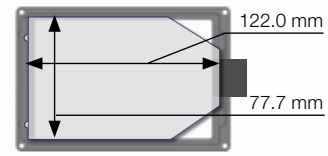
AMEPVH006
Holds one Nunc T-75 flask; 75 cm²



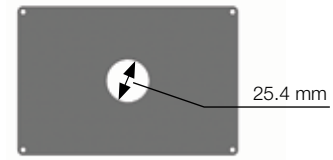
AMEPVH007
Holds one hemocytometer



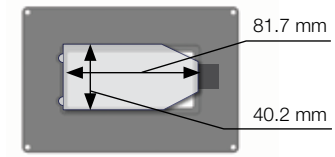
AMEPVH008
Holds one Greiner T-75 flask; 75 cm²



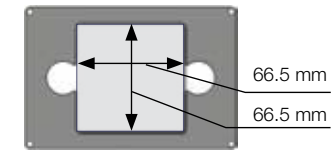
AMEPVH009
Universal stage insert



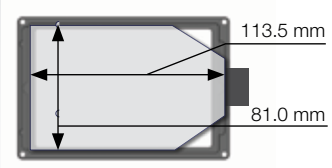
AMEPVH010
Holds one BD/Greiner T-25 flask; 25 cm²



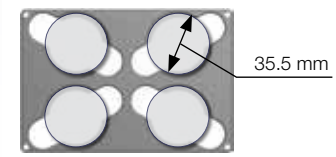
AMEPVH011
Holds one Nunc/SPL IVF 4-well dish



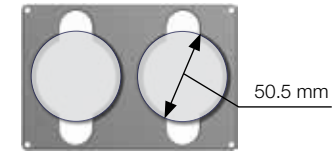
AMEPVH012
Holds one SPL T-75 flask; 75 cm²



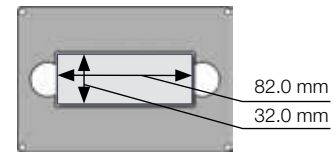
AMEPVH013
Holds four Ibidi 35 mm Petri dishes



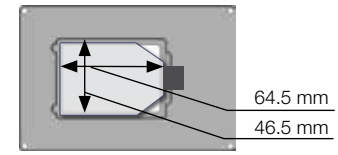
AMEPVH014
Holds two Ibidi 50 mm Petri dishes



AMEPVH017
Holds one KOVA Glasstic slide 10



AMEPVH018
Holds one Nunc T-25 flask; 25 cm²

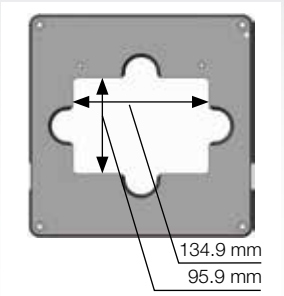


Custom vessel holders

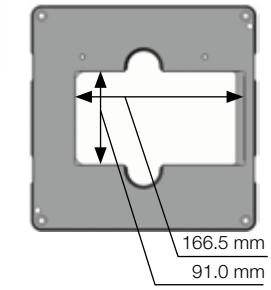
Need a vessel holder to accommodate your specialized plate, slide, culture dish, or flask? Contact us to create a specialty vessel holder for your EVOS imaging system.

FL and XL

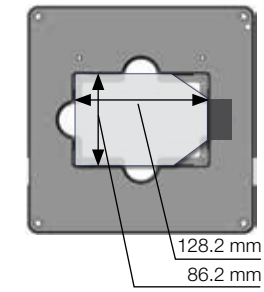
AMEP4684
Stage plate for heating tray, Tokai Hit MATS-UAXKD-D



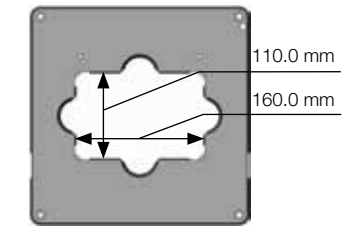
AMEP4685
Stage plate for heating stage, BioFlux by Fluxion



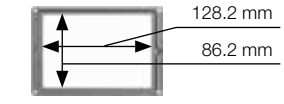
AMEP4686
Stage plate for multi-well vessels; also hold one Corning T-75 flask



AMEP4691
Stage plate with 110 mm x 160 mm opening (Use with AMEP4692 for standard sizes)

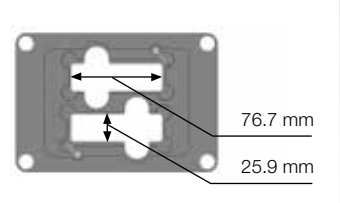


AMEP4692
Stage plate adaptor with 110 mm x 160 mm opening for standard size

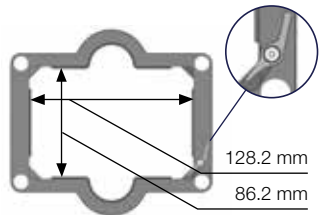


FL Auto

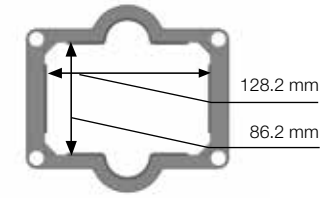
AMEPVH021
Securely holds two 25 mm x 75 mm standard microscope slides, chamber slides, etc.



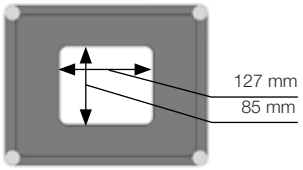
AMEPVH022
Intermediate plate for automated stage; securely holds multi-well vessels with convenient lever adaptor for AMEPVH001 and AMEPVH009



AMEPVH023
Holds multi-well vessels
Adaptor for AMEPVH001 and AMEPVH009

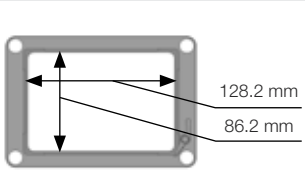


AMEPVH027
Master plate, large format, automated stage

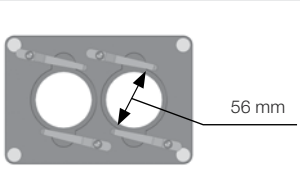


Onstage Incubator

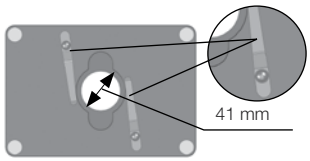
AMEPVH028
Securely holds one multi-well plate



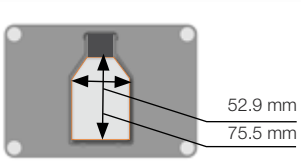
AMEPVH032
Securely holds two 60 mm Petri dishes



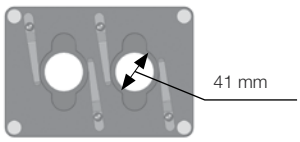
AMEPVH029
Securely holds one 35 mm Petri dish



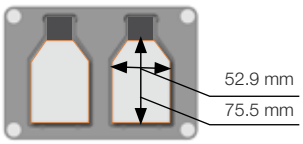
AMEPVH033
Holds one T-25 flask



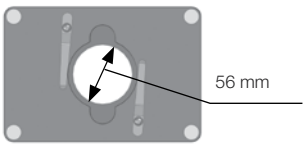
AMEPVH030
Securely holds two 35 mm Petri dishes



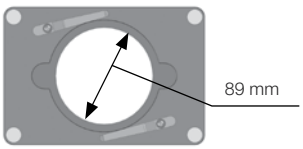
AMEPVH034
Holds two T-25 flasks



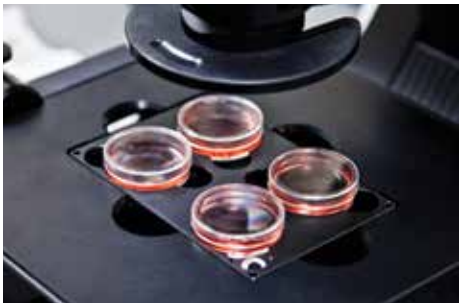
AMEPVH031
Securely holds one 60 mm Petri dish

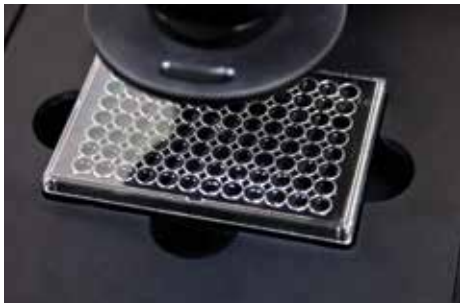


AMEPVH037
Securely holds one 100 mm Petri dish



For a complete list of available vessel holders and stage plates, go to **thermofisher.com/evosvesselholders**





invitrogen

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

Find out more at **thermofisher.com/evos**

ThermoFisher SCIENTIFIC