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# WHY EVOS?

EVOS is the must have system for microscopy, whether you're capturing images for publication, teaching or researching.

From cell culture to complex protein analysis to multi-channel fluorescence imaging, EVOS microscopes are your solution for a variety of routine and specialty applications.

Fluorescence work? We have the answer with our patented LED light cube technology. Minimize photobleaching, 50,000+ hours LED illumination, adjustable intensity, no darkroom required, no consumable costs.

Improved workflow: EVOS systems are designed to work together; from the initial cell culture check (viability and morphology) to more complex analyses (such as time-lapse and image tiling/stitching) EVOS will allow you to get your data fast and move on.



Fits in a hood!

In a hood? On a lab bench? The compact design and portability of EVOS microscopes makes them easy to use where you want, when you want.

Whether you're researching in a lab, need it to fit into a hood or want to use it as a teaching aid, simply move the EVOS microscope to your desired location, flip the switch, and you'll be ready to go in under 2 minutes.

# **EASIER. SMARTER. FASTER.** with EVOS Microscopes by AMG



# **COMPACT & PORTABLE DESIGN**



Research anywhere, anytime!

EVOS is the perfect system for teaching - whether your audience





# **AUTOMATION TECHNOLOGY**

In today's scientific workplaces we know that publication quality images are crucial to your success. With EVOS microscopes, publication quality images are only seconds away and ...

- ... we use the same gold standard interline transfer CCD chip as our competitors.
- ... our optics have the same or better numerical apertures as any other manufacturer's objectives in the same class.
- ... patented LED illumination produces images with superior signal to noise (compared with Hg and Hg Halide).



Bovine Pulmonary Artery Endothelial Cells, 60x oil objective, Light Cubes: DAPI, GFP, Tx Red



Moss Antheridial Head Polytrichum, 40x objective



Osteoblasts in Bone, 40x cc objective, Light Cubes: CY7, Tx Red

**GREEN TECHNOLOGY** 



All EVOS systems were designed with you AND your future in mind. Traditional fluorescence microscopy illuminators use Mercury, a toxic carcinogen requiring special handling and disposal. We think green from start to finish. From the low power consumption when you turn your system on to the environmentally friendly LED light cubes you use to detect your samples - *we're green!* 

### What if automation were easier, smarter and faster?

When including automation in the EVOS lineup we asked ourselves this very question because somehow, along the way, technology forgot about the human operator. Like all EVOS products, we believe the system should serve the user NOT the engineers that designed it.

**EASIER:** Wizard based image acquisition No more countless hours of training. With wizard based software, your results are never more than a few steps away. Simple questions about your sample and its preparation will guide you from start to finish.

**SMARTER:** Explore automation with intuitive touch screen controls and setting recall capability We designed our automation to work smarter. Whether driving the stage, adjusting focus, memorizing sample positions, changing objectives or switching between light cubes our automation technology does it all! You can even set up and save routine experiments that can be recalled at the touch of a button.

FASTER: Improved productivity and throughput From basic 3 color overlay images to entire multiwell plate scans, you're in the driver's seat. EVOS automation is about giving you options to allow you to get your data fast and move on!







# **FLUORESCENCE TECHNOLOGY**

for a new generation

EVOS systems provide the latest technology in a platform that is easy to operate. With our unique light path and patented LED technology, EVOS lets you break free from the high costs and troubles associated with antiquated Mercury and Halide systems. No darkrooms required!



# **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 over a short light path *= maximally efficient fluorophore excitation* 



#### WHY LED?

The heart of EVOS fluorescence technology is the patented LED light cube (US Patent 7,502,164). Each cube contains an LED, collimating optics and filters. Light cubes are user interchangeable, auto-configured by the system and plug-and-play.



## **CONTINUOUS LIGHT INTENSITY**

Mercury arc lamps can decrease in intensity by 50% in the first 100 hours of operation and images acquired in different sessions cannot be quantitatively compared using Hg illumination without complicated calibrations, but EVOS systems have continuous light cube intensity!

What does continuous light intensity mean for me?



HOW LONG IS 50,000 HOURS? 100% power for 8 hours a day, 365 days a year, for 17 years! This means you would need to change a mercury lamp 170 times vs. ZERO times for an EVOS light cube - continuous light cube intensity.



**STABILITY COMPARISON** 

# ALL EVOS FLUORESCENCE SYSTEMS OFFER THE FOLLOWING BENEFITS:

Patented LED light cube technology with a 50,000+ hour lifetime Instant ON/OFF - NO shutters, NO waiting, NO headaches Control over LED light cube illumination intensity to *minimize photobleaching* 



Hard coated filter sets are more expensive, but have steeper shoulders and significantly higher transmission efficiencies that typically result in >25% more excitation and emission transmission than traditional soft filters. We believe you should get the most out of your light cube - not only will our light cubes cost less over time, but you will have higher transmission efficiencies, the ability to detect faint fluorescence signals, overall brighter fluorescence and a better signal to noise ratio!

#### TRANSMISSION EFFICIENCY COMPARISON

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

## WHAT LIGHT SOURCES REALLY COST

#### LIGHT SOURCE COST COMPARISON

|   | Mercury        | Metal Halide  |
|---|----------------|---------------|
| Initial light source cost                     | \$4,000        | \$4,900       |
| 3 hard coated filter sets and cubes           | \$3,600        | \$3,600       |
| Lifetime of bulbs in hours                    | 300            | 1,500         |
| Bulbs required for 50,000 hours of use        | 166 @ \$100/ea | 25 @ \$500/ea |
| Light guides required for 50,000 hours of use | 0              | 13 @ \$500/ea |
| Consumable costs for 50,000 hours of use      | \$16,000       | \$19,000      |
| Total operating cost of 50,000 hours of use   | \$23,000       | \$27,500      |

# HARD COATED VS. SOFT COATED FILTERS





| LED      |
|----------|
| \$6,900  |
| Included |
| 50,000   |
| 1        |
| 0        |

\$0

\$6,900



Rat Liver 40x objective Light Cubes: DAPI, YFP

# EVOS SYSTEMS

# **MICROSCOPY IN MINUTES**

Unlike other systems, EVOS combines all aspects of a digital inverted microscope workstation into a single, compact device that turns on with

#### EASIER, SMARTER AND FASTER.

# **ROUTINE & COMPLEX EXPERIMENTS**

- Fluorescent cell analysis (tagging, IHC, probes - ISH)
- Multichannel fluorescence imaging
- Transfection efficiencies Time-lapse studies

# **CELL CULTURE &** MAINTENANCE

- Routine growth &
- morphology inspections Sample staining
- differentiation
- Proliferation analysis
- Stem cell passaging

# **AUTOMATION TECHNOLOGY**

- Autofocus
- Vessel scanning
- Image tiling &
- stitching • Z-stacking
- Time-lapse

Installation in minutes; simple cabling and easy setup

High Res LCD Display

Motorized Encoded X/Y Scanning Stage

Manual Mechanical Stage

Choice of Manual Mechanical or Fixed Stage

USB Ports

**DVI** Ports

Display Output (with DVI adaptor)

**Networking Capaility** 

**5-Position Objective Turret** 

**4-Position Objective Turret** 

**4** Fluorescent Channels

Dual (Monochrome and Color) Camera

Choice of Monochrome or Color Camera

Color Camera

Epifluorescence Imaging

Transmitted Light (Brightfield and Phase Contrast) Imaging

Tiling and Image Stitching

Automated Multiwell Plate Scanning

Cell Counting

Teaching Tool

Fits in a hood

|                     |                     | No.             |               |
|---------------------|---------------------|-----------------|---------------|
|                     |                     |                 |               |
| FL AUTO             | FL                  | XL              | XL CORE       |
| Epifluorescence/Tra | ansmitted Solutions | Transmitted Lig | ght Solutions |
|                     | •                   | •               | •             |
|                     | •                   |                 | •             |
|                     |                     |                 |               |
|                     | •                   | •               |               |
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|                     | •                   |                 | •             |

To see EVOS in your lab, with your samples, contact your local sales representative for a demonstration today!

# **FL AUTO**

# **FL AUTO FOOTPRINT\***

1. Power Input Jack 2. Power Switch

3. USB Ports

4. Lifting Handholds (for safe and easy transport) 5. Condenser (contains automatic phase annuli selector) Condenser Slider Slot 6. Automatic X-Y Axis Stage 7. 21" Touch Screen Monitor 8. \*NOTE: No manual adjustment required.

(Objective Turret, Focusing Controls, Light Cube and Camera Selection, etc.).

#### What's more important to you in a fully automated microscope, price or performance?

#### HARDWARE

| Illumination               | Adjustable intensity l   |
|----------------------------|--|
| Contrast Methods           | Epifluorescence & Tra  |
| Objective Turret           | 5-Position   |
| Fluorescent Channels       | Simultaneously accor   |
| Condenser Working Distance | 60 mm  |
| Stage                      | Automated X-Y Scan<br>Interchangeable vess                           |
| LCD Display                | 22" high-resolution to   |
| Camera                     | Dual (monochrome a<br>Monochrome: High se<br>Color: High sensitivity |
| Output Ports               | Multiple USB Ports, 1<br>USB and networked s                         |
| Power Supply               | AC Adaptor   |
| Dimensions                 | Height: 322 mm (12.7<br>Width: 343 mm (13.5<br>Depth: 472 mm (18.6   |
| Weight                     | Weight: 20 kg (44.1 lk   |

#### 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 and PNG formats.

Key Software Features: Time-lapse, Image Tiling and Stitching, Autofocus and Automated Multiwell Plate Scanning and Z-stacking.

#### **APPLICATIONS**

Our systems were designed with you in mind and are used for a broad range of applications including, but not limited to, Multichannel Fluorescence Imaging, Cell Density Assays, Multiposition Vessel Scanning and Time-lapse.



# SYSTEM HIGHLIGHTS

LED (50,000+ hour life per light cube)

ansmitted Light (Brightfield & Phase Contrast)

mmodates up to 4 fluorescent light cubes

ning Stage el holders available

ouch screen color monitor

and color camera) ensitivity interline CCD y CMOS

display output with DVI adaptor (supports direct output to storage)

' in) in) in)

b)



Bovine Pulmonary Artery Endothelial Cells, 40x objective, Light Cubes: DAPI, GFP, RFP



Our flagship EVOS model offers form, function, phase and fluorescence in one! Utilizing patented LED light cube technology our fluorescence systems are designed to last!

## **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 Annuli Selector
- 13. Condenser Slider Slot



#### HARDWARE

| Illumination               | Adjustable intensity l   |
|----------------------------|--|
| Contrast Methods           | Epifluorescence & Tra  |
| Objective Turret           | 5-Position   |
| Fluorescent Channels       | Simultaneously accor   |
| Condenser Working Distance | 60 mm  |
| Stage                      | Mechanical 'Glide' Sta<br>Interchangeable vess                     |
| LCD Display                | 15" high-resolution co   |
| Camera                     | High sensitivity interl  |
| Output Ports               | 3 USB Ports, 1 DVI Pc  |
| Power Supply               | AC Adaptor   |
| Dimensions                 | Height: 578 mm (22.8<br>Width: 355 mm (14.0<br>Depth: 470 mm (18.5 |
| 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: 1-click 3 Channel Overlay, Time-lapse, Cell Counting and Transfection.

#### **APPLICATIONS**

Our systems were designed with you in mind and are used for a broad range of applications including, but not limited to, Multichannel Fluorescence Imaging, Protein Analysis, Pathology, Cell Culture and In Situ Imaging.



# SYSTEM HIGHLIGHTS

LED (50,000+ hour life per light cube)

ansmitted Light (Brightfield & Phase Contrast)

mmodates up to 4 fluorescent light cubes

age with X-Y axis fine-positioning controls sel holders available

olor monitor with adjustable tilt

line CCD Camera (choice of monochrome or color)

ort (supports direct output to USB and networked storage)

8 in) in) in)



Rat Liver, 20x objective, Light Cubes: DAPI, GFP, RFP



Our advanced transmitted light inverted microscope, the XL, delivers high-definition imaging results with the same form, functions and features 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. Light Cube Selection Lever
- 12. Phase Annuli Selector
- 13. Condenser Slider Slot



#### HARDWARE

| Illumination               | LED for transmitted lig  |
|----------------------------|--|
| Contrast Methods           | Transmitted Light (Brig  |
| Objective Turret           | 5-Position (Front Mour   |
| Condenser Working Distance | 60 mm  |
| Stage                      | Mechanical 'Glide' Stag<br>Interchangeable vesse                           |
| LCD Display                | 15" high-resolution col  |
| Camera                     | High sensitivity interlin  |
| Output Ports               | 3 USB Ports, 1 DVI Port  |
| Power Supply               | AC Adaptor   |
| Dimensions                 | Height: 578 mm (22.8 i<br>Width: 355 mm (14.0 ir<br>Depth: 470 mm (18.5 ir |
| 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 and Cell Counting.

#### **APPLICATIONS**

Our systems were designed with you in mind and are used for a broad range of applications including, but not limited to, cell viability assays, stem cell growth and differentiation, stem cell passaging, H & E imaging and DAB.

# **SYSTEM HIGHLIGHTS**

ght

ghtfield & Phase Contrast)

nted Control)

ge with X-Y axis fine-positioning controls l holders available

or monitor with adjustable tilt

e CMOS color camera

t (supports direct output to USB and networked storage)

in) n) n)



Onion Mitosis Root Tip Allium, 40x objective

# **XL CORE**

Our basic transmitted light inverted microscope, the XL CORE, delivers high-definition imaging results with the same form, functions and features standard on all EVOS systems.



# SYSTEM HIGHLIGHTS

Transmitted Light (Brightfield & Phase Contrast)

Mechanical stage has X-Y axis controls and vessel holder framework

12.1" high-resolution color monitor with adjustable tilt



Mouse Tail C.S. 20x objective



Pumpkin Stem, 10x objective

# **OBJECTIVES**

|              | Magnification | N.A.                      | WD (mm)                              | Brightfield                              | Phase                         | LWD                             | Coverslip<br>Corrected             | Oil     |
|--------------|---------------|---------------------------|--------------------------------------|--|-------------------------------|---------------------------------|------------------------------------|---------|
|              | 2x            | 0.06                      | 5.10                                 | •  |                               | •                               |                                    |         |
|              | 4x            | 0.13                      | 16.90                                | •  | •                             | •                               |                                    |         |
| nat          | 10x           | 0.25                      | 6.90                                 | •  | •                             | •                               |                                    |         |
| Plar<br>hror | 20x           | 0.40                      | 6.80                                 | ٠  | •                             | •                               |                                    |         |
| Ac           | 40x           | 0.65                      | 3.10                                 | •  | •                             | •                               |                                    |         |
|              | 50x           | 0.95                      | 0.19                                 | •  |                               |                                 | •                                  | •       |
|              | 100x          | 1.25                      | 0.15                                 | •  |                               |                                 | •                                  | •       |
|              | АСН           | ROMAT: Per                | fect for general                     | applications, the                        | e color and fo                | ocus have sta                   | ndard correction.                  |         |
|              | 4x            | 0.13                      | 19.70                                | •  |                               | •                               |                                    |         |
|              | 10x           | 0.30                      | 8.30                                 | •  |                               | •                               |                                    |         |
|              | 10x           | 0.25                      | 9.20                                 | •  | •                             | •                               |                                    |         |
|              | 20x           | 0.45                      | 7.10                                 | •  |                               | •                               |                                    |         |
| 0            | 20x           | 0.40                      | 3.10                                 | •  | •                             | •                               |                                    |         |
| lan<br>orite | 20x           | 0.50                      | 2.50                                 | •  |                               |                                 | •                                  |         |
| ᅀᇛ           | 40x           | 0.65                      | 2.80                                 | •  |                               | •                               |                                    |         |
|              | 40x           | 0.65                      | 1.60                                 | •  | •                             | •                               |                                    |         |
|              | 40x           | 0.75                      | 0.72                                 | •  |                               |                                 | •                                  |         |
|              | 40x           | 1.30                      | 0.20                                 | •  |                               |                                 | •                                  | •       |
|              | 60x           | 0.75                      | 2.20                                 | •  |                               | •                               |                                    |         |
|              | 100x          | 1.28                      | 0.21                                 | •  |                               |                                 | •                                  | •       |
|              | FLUORIT       | E: Excellent<br>Helps red | resolution resul<br>uce optical abei | ting in brighter f<br>rrations, color ar | iluorescence<br>nd focus have | signal and hig<br>a higher leve | her contrast imaged of correction. | ging.   |
| at           | 1.25x         | 0.04                      | 5.00                                 | •  |                               | •                               |                                    |         |
| an<br>Irom   | 20x           | 0.75                      | 0.60                                 | •  |                               |                                 | •                                  |         |
| och<br>Doch  | 60x           | 1.42                      | 0.15                                 | ٠  |                               |                                 | •                                  | •       |
| Ā            | 100x          | 1.40                      | 0.13                                 | ٠  |                               |                                 | •                                  | •       |
|              | APOCHRO       | MAT: Highes               | t levels of resol                    | ution, fluorescen                        | nce brightnes                 | s, contrast an                  | d chromatic corre                  | ection. |

#### **Brightfield contrast**

This is the most basic form of light microscopy. Accomplished by the sample absorbtion of light. A higher density area in a sample will absorb more light, thus increasing contrast in those areas.

#### Phase contrast

**BRIGHTFIELD VS. PHASE** 

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

#### Long Working Distance

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

#### Coverslip Corrected

Optimized for use through #1.5 coverslips (thickness approx. 0.17mm). Have a higher magnification/N.A. ratio and provide higher resolution compared to LWD.

#### Plan Fluor 60x/0.75

PlanFL P

10x/0.25

00/1.2

∞/1.2

# PATENTED LED LIGHT CUBES

We know your application needs vary and that your science is unique. In order to give you the best possible results, we offer a wide assortment of light cubes. From routine to specialty applications, we have what you need.

| COMMON<br>LIGHT CUBES    | This is a partial I<br>a sample selecti<br>a full listing of li<br>www.amgmicro.   |
|--------------------------|--|
| LIGHT CUBE               |  |
| DAPI                     | DAPI, Hoechst, BFP   |
| TagBFP                   | TagBFP   |
| CFP                      | ECFP, Lucifer Yellow, Evans E  |
| GFP                      | GFP, Alexa Fluor® 488, SYBR  |
| YFP                      | EYFP, acridine orange + DNA  |
| RFP                      | RFP, Alexa Fluor® 546, Alexa<br>Rhodamine Red, DsRed                               |
| Texas Red                | Texas Red, Alexa Fluor® 568,   |
| Cy5                      | Cy®5, Alexa Fluor® 647, Alexa  |
| Су5.5                    | Cy®5.5, Alexa Fluor® 660, Ale  |
| Cy7                      | Cy®7, IRDye 800CW  |
| SPECIALTY<br>LIGHT CUBES | This is a partial lis<br>with a sample s<br>For a full listing c<br>www.amgmicro.c |
| LIGHT CUBE               |  |
| CFP-YFP em               | CFP/YFP (for FRET applicat   |
| AO                       | Acridine Orange + RNA, Sim   |
| AOred                    | Acridine Orange + RNA, CTC   |
| White                    | Reflected light applications   |

#### **Custom Cubes**

If by chance you need something out of the ordinary which we don't offer, contact us about creating a specialty light cube with our patented LED technology to fit your requirements.

U U

LWD VS.



listing of our most common light cubes with tion of frequently used compatible dyes. For light cubes and compatible dyes, please visit b.com.

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| В | lu | е |
|---|----|---|
|---|----|---|

R<sup>®</sup> Green, FITC

А

a Fluor<sup>®</sup> 555, Alexa Fluor<sup>®</sup> 568, Cy<sup>®</sup>3, MitoTracker<sup>®</sup> Orange,

3, Alexa Fluor<sup>®</sup> 594, MitoTracker<sup>®</sup>Red, mCherry, Cy<sup>®</sup>3.5

a Fluor<sup>®</sup> 660, DRAQ<sup>®</sup>5

lexa Fluor<sup>®</sup> 680, Alexa Fluor<sup>®</sup> 700

isting of our most popular specialty light cubes selection of frequently used compatible dyes. of light cubes and compatible dyes, please visit .com.

#### DYE

#### tions)

multaneous Green/Red with FL Color

C Formazan, Fura-Red™ (high Ca²+)



CHO Cells transfected with Eukaryotic Expression Plasmid, 40x objective, Light Cubes: CY7, DAPI

# **VESSEL HOLDERS & STAGE PLATES**

76.6mm 26.2mm

38.7mm





AMEP-VH007 holds one Hemocytometer



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

AMEP-VH004 holds one 100mm Petri dish

AMEP-VH001

AMEP-VH002

AMEP-VH003

holds two 60mm Petri dishes

holds four 35mm Petri dishes

slides, chamber slides, etc.



122.0mm 77.7mm



AMEP-VH009 Universal stage insert



AMEP-VH010 holds one BD/Greiner T-25 flask; 25cm<sup>2</sup>



AMEP-VH011 holds one NUNC/SPL IVF 4-well dish



AMEP-VH012 ne SPL T-75 flask; 75cm<sup>2</sup>





AMEP-VH013

AMEP-VH014

AMEP-VH017

holds one KOVA Glasstic Slide 10

holds four Ibidi 35mm Petri dishes

holds two Ibidi 50mm Petri dishes

35.5mm

50 5mm

82.0mm

32.0mm





AMEP-VH021 m x 75mm standard



AMEP-VH022 Intermediate Plate for Automated Stage. Securely holds multiwell vessels with convenient lever Adaptor for AMEP-VH001 and AMEP-VH009



AMEP-VH023 holds multiwell vessels Adaptor for AMEP-VH001 and AMEP-VH009





## FL & XL



AMEP-4685 Stage Plate for heating stage, BioFlux by Fluxion



AMEP-4686 Stage Plate for multiwell vessels; also holds one Corning T-75 flask



AMEP-4691 Stage Plate with 110m x 160m opening (Use with AMEP-4692 for standard sizes) 110.0mm

160.0mm AMEP-4692 Stage Plate Adaptor with 110mm x 160mm opening for standard size (sold separately 128.2mm 86.2mm



#### **Custom Vessel Holders**

If by chance you need something out of the ordinary which we don't offer, contact us about creating a specialty vessel holder to fit your requirements.







Tel 1-866-614-4022 Info botinfo@lifetech.com Web amgmicro.com



In the United States: For customer service, call 1-800-766-7000. To fax an order, use 1-800-926-1166. To order online: www.fishersci.com

BN0307134