

# FISHER SCIENCE EDUCATION MICROSCOPE GUIDE

Compound ▪ Stereo ▪ Non-Digital ▪ Digital ▪ Illumination



## Compound vs. Stereo



There are two types of microscopes: compound and stereoscopic. Compound microscopes are ideal for viewing slide-mounted, micro-sized specimens that are transparent enough to let light pass through them. Compound microscopes provide high-power magnification, a narrow field of view and a short working distance.

Stereoscopic microscopes are perfect for viewing unmounted, macro-sized objects that are too dense to let light pass through them like insects, plants, rocks and coins. Stereoscopic microscopes provide low-power magnification, a wide field of view and a long working distance.

## Non-Digital vs. Digital

A digital microscope is a standard microscope with a digital camera built into the head. Digital microscopes have various outputs, including USB, that connect to your computer and come with imaging software that allows you to capture images, generate video clips, manipulate, label, amalgamate and more.

Traditional microscopes can always be made digital by adding an eyepiece camera to the scope. These cameras also come with imaging software.



## Illumination

Most microscopes use one of the following illumination types:



### Fluorescent

- Natural light — uses available light to view the specimens
- Versatile light — ambient light delivers opportunities to view transparent specimens as well as opaque specimens, like plants and insects
- Budget friendly — inexpensive and common in elementary schools

### Tungsten

- Yellowish light — can distort the colors of specimen you're viewing
- Hot light — preferred for illuminating non-living specimens
- Cost effective — least expensive to purchase and most common

### Halogen
















- Very bright, white light — gives specimens a more natural appearance
- Hot, concentrated light — preferred for use with binocular compound microscopes and for illuminating non-living specimens
- High-level illumination — commonly found in research-level microscopes

### LED

- White light — gives specimens a more natural appearance
- Cool light — preferred for illuminating living specimens
- Green — energy efficient and popular amongst cordless microscopes

## Fisher Science Education Recommendations

Use the guide below as a resource to narrow your microscope search by type and grade level. Find more information on these recommended models on the following pages. If you have questions or need additional help choosing the right microscope, call our customer service department at **1-800-955-1177**. We would be happy to assist.

	Elementary	Middle	High	College/Laboratory
COMPOUND	 <p>Primary Series S71000 and S71000B</p>	 <p>Intermediate Series S71001 and SS71002</p>	 <p>Advanced Series S71002E and S71002G</p>	 <p>University/Laboratory Series S71003D</p>
STEREOMICROSCOPE	 <p>Primary Series S71004</p>	 <p>Intermediate+ Series S71005A and S71006B</p>	 <p>Advanced StereoZoom Series S71010</p>	 <p>Advanced+ Series S71008</p>
DIGITAL COMPOUND	 <p>Contact us for help choosing the right microscope.</p>	 <p>Intermediate Digital Series S71015A</p>	 <p>Intermediate WiFi Digital Series S71014A</p>	 <p>Advanced Digital Series S71012A</p>
DIGITAL STEREOMICROSCOPE	 <p>Contact us for help choosing the right microscope.</p>	 <p>Contact us for help choosing the right microscope.</p>	 <p>Advanced Digital Series S71012B</p>	 <p>Advanced+ Digital Series S71013</p>

## Fisher Science Education™ Primary Compound Microscopes

Full-sized performance in a microscope scaled down for younger students' hands.



### Elementary Level S71000

- Rugged metal frame
- Optical glass lenses
- Delivers a big, bright image
- Substage prism enables viewing transparent specimen slides
- Special optical system also permits viewing of opaque specimens, such as rocks, plants, insects, etc.

#### WARRANTY:

Five-year limited warranty, excluding bulb



### S71000A and S71000B

- Widefield 10X eyepiece with revolving pointer
- 45° incline for viewing ease when seated
- Head rotates 360°

#### INCLUDES:

Dustcover (S71000A and S71000B only)

#### WARRANTY:

Five-year limited warranty, excluding bulb



Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Other	Cat. No.	Price
Monocular	33X	Achromat	Clips	Coarse	None	Prism	—	S71000	87.00
Monocular	40X, 100X, 400X	Achromat	Clips	Coarse	None	Tungsten	Pointer, Cord Grabber	S71000A	149.00
Monocular	40X, 100X, 400X	Achromat	Clips	Coarse	Diffuser	LED	Pointer, Cord Grabber	S71000B	169.00

## Fisher Science Education™ Primary+ Compound Microscopes

Ideal for elementary classroom and field use — compact and versatile.



### Elementary Level

- Scaled to size for younger students using the standard microscope format most commonly used in classrooms
- Precision optical glass lenses for crystal clear viewing
- Rugged metal construction
- Battery- or AC-powered options, as well as LED options, are available

#### INCLUDES:

Vinyl dustcover

#### WARRANTY:

Five-year limited warranty, excluding bulb

Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Other	Cat. No.	Price
Monocular	40X, 100X, 400X	Achromat	Clips	Coarse	None	Tungsten	Pointer	S71000C	126.00
Monocular	40X, 100X, 400X	Achromat	Clips	Coarse	None	LED	Pointer, Cordless	S71000D	137.00
Monocular	40X, 100X, 400X	Achromat	Clips	Separate	None	Tungsten	Pointer	S71000E	146.00
Monocular	40X, 100X, 400X	Achromat	Clips	Separate	None	LED	Pointer, Cordless	S71000F	157.00

## Fisher Science Education™ Intermediate Compound Microscopes

Microscopes that set the standard for middle/high school instruction and include all the most commonly specified features.



### Middle/High School Level

- Superior optical systems and precision mechanical components ensure optical alignment for sharp, unsurpassed viewing
- Widefield 10X eyepiece with revolving pointer
- Separate coarse and fine focusing

- Large stage plate
- Feature rugged metal construction with locked-on parts

### INCLUDES:

Vinyl dustcover, battery charger, three AA NiMH batteries (S71001D only)

### WARRANTY:

Lifetime limited warranty, excluding bulb, batteries, cord and accessory mechanical stage

Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Other	Cat. No.	Price
Monocular	40X, 100X, 400X	DIN Achromat	Clips	Separate	0.065 N.A.	Tungsten	Pointer	S71001	249.00
Monocular	40X, 100X, 400X	DIN Achromat	Mechanical	Separate	0.065 N.A.	Tungsten	Pointer	S71001A	300.00
Monocular	40X, 100X, 400X	DIN Achromat	Clips	Separate	0.065 N.A.	LED	Pointer	S71001B	259.00
Monocular	40X, 100X, 400X	DIN Achromat	Mechanical	Separate	0.065 N.A.	LED	Pointer	S71001C	310.00
Monocular	40X, 100X, 400X	DIN Achromat	Clips	Separate	0.065 N.A.	LED	Pointer, Cordless	S71001D	269.00
Dual-View	40X, 100X, 400X	DIN Achromat	Clips	Separate	0.065 N.A.	LED	Pointer, Cord Wrap	S71001E	375.00
Dual-View	40X, 100X, 400X	DIN Achromat	Mechanical	Separate	0.065 N.A.	LED	Pointer, Cord Wrap	S71001F	426.00
Monocular	40X, 100X, 400X, 1000X	DIN Achromat	Mechanical	Separate	0.065 N.A.	LED	Pointer, Cord Wrap	S71001G	455.00

Dual-View: Two-person viewing using one eyetube each

## Fisher Science Education™ Intermediate+ Compound Microscope

Ideal for teaching microscopy to students of varying education levels.



### Middle/High School Level

- Cordless monocular microscope with 18mm field of view, similar to larger and more expensive models
- Easy-grip design for ease in handling, important in classroom situations
- Low-position focusing control
- Rechargeable, energy-efficient LED illumination
- Patented one-touch stage clips for easily changing slides
- Inward facing nosepiece for maximum operating space

Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Other	Cat. No.	Price
Monocular	40X, 100X, 400X	DIN	Clips	Separate	0.065 N.A.	LED	3-Hole Objective Turret	S71002	219.00

## Fisher Science Education™ Advanced Compound Microscopes

Ideal for teaching microscopy to all grade levels. Preferred by teachers and students alike for precision optics, rugged construction and ease of use; priced to fit most budgets.



### High School Level

- Optimum image brightness
- Highly engineered mechanics
- Energy-efficient LED illumination with corded or cordless options

Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Other	Cat. No.	Price
Monocular	40X, 100X, 400X	DIN Achromat	Clips	Separate	0.65 N.A.	LED	Pointer	S71002A	339.00
Monocular	40X, 100X, 400X	DIN Achromat	Clips	Separate	0.65 N.A.	LED	Pointer	S71002B	359.00
Monocular	40X, 100X, 400X	DIN Achromat	Mechanical	Separate	Abbe 1.25 N.A.	LED	Pointer	S71002C	449.00
Monocular	40X, 100X, 400X	DIN Achromat	Mechanical	Separate	Abbe 1.25 N.A.	LED	Pointer	S71002D	469.00
Monocular	40X, 100X, 400X, 1000X	DIN Achromat	Mechanical	Separate	Abbe 1.25 N.A.	LED	Pointer	S71002E	515.00
Monocular	40X, 100X, 400X, 1000X	DIN Achromat	Mechanical	Separate	Abbe 1.25 N.A.	LED	Pointer	S71002F	535.00

## Fisher Science Education™ Advanced+ Compound Microscope

With Siedentopf head, coaxial focusing and rechargeable LED illumination, this model is an advanced biological microscope designed with students and professionals in mind.



### High School/College Level

- Ergonomic Siedentopf head or binocular head for comfortable viewing
- Quad objective turret
- Coaxial focusing system

Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Other	Cat. No.	Price
Binocular	40X, 100X, 400X, 1000X	DIN Achromat	Mechanical	Coaxial	Abbe 1.25 N.A.	LED	Pointer	S71002G	699.00

## Fisher Science Education™ University/Laboratory Compound Microscopes

Microscopes incorporate a wide range of features designed for university and laboratory use.



S71003



S71003G

### University/Laboratory Level

- Superb optical clarity and reliable mechanical engineering ensure years of top performance
- Quad objective turret
- Large, built-in, low-profile, ball-bearing coaxial mechanical stage

### ORDERING INFORMATION:

Replacement bulb for all models: S74020.

### INCLUDES:

Vinyl dustcover

### WARRANTY:

Lifetime limited warranty, excluding bulb, cord and fuse

Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Other	Cat. No.	Price
Monocular	40X, 100X, 400X, 1000X	Achromat	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003	613.00
Monocular	40X, 100X, 400X, 1000X	Super High Contrast	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003A	655.00
Dual-View	40X, 100X, 400X, 1000X	Achromat	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003B	676.00
Dual-View	40X, 100X, 400X, 1000X	Super High Contrast	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003C	728.00
Binocular	40X, 100X, 400X, 1000X	Achromat	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003D	796.00
Binocular	40X, 100X, 400X, 1000X	Super High Contrast	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003E	848.00
Binocular	40X, 100X, 400X, 1000X	Plan Achromat	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003F	975.00
Trinocular	40X, 100X, 400X, 1000X	Achromat	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003G	1033.00
Trinocular	40X, 100X, 400X, 1000X	Super High Contrast	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003H	1085.00
Trinocular	40X, 100X, 400X, 1000X	Plan Achromat	Mechanical	Separate	Abbe 1.25 N.A.	Halogen	Pointer	S71003J	1212.00

## Fisher Science Education™ Primary Stereomicroscopes

Popular stereomicroscopes for education and industry.



S71004A



S71004

### Elementary/Middle School Level

- Rugged and dependable
- Deliver a three-dimensional, unreversed image with great resolution, brightness and clarity
- Standard magnification of 20X is considered ideal

### INCLUDES:

Vinyl dustcover

### WARRANTY:

Five-year limited warranty, excluding bulb and fuse

Head Type	Magnification	Objectives	Stand	Light Direction	Lighting	Other	Cat. No.	Price
Binocular	20X	2X	Post	Incidental/Transmitted	Tungsten	Vertical Head	S71004	199.00
Binocular	20X	2X	Post	Incidental/Transmitted	Tungsten	Inclined Head	S71004A	209.00

## Fisher Science Education™ Intermediate Stereomicroscopes

Stereomicroscopes feature rugged design and compact size.



### Middle/High School Level

- Rugged design and the quality, features and versatility of larger stereo models in a compact size
- Designed to provide an upright, unreversed image and is ideal for viewing three-dimensional objects and inspection
- LED rechargeable models allow freedom from cords and outlets
- LED light rated up to 50,000 hours
- Batteries allow up to 500 recharges

### INCLUDES:

Vinyl dustcover and rubber eyeshields

### WARRANTY:

Five-year limited warranty, excluding bulb, cord and fuse

Head Type	Magnification	Objectives	Stand	Light Direction	Lighting	Other	Cat. No.	Price
Binocular	10X, 30X	1X, 3X	Fixed Arm	Incidental/Transmitted	Three-Way: Tungsten	Corded	S71005	259.00
Binocular	10X, 30X	1X, 3X	Fixed Arm	Incidental/Transmitted	Three-Way: LED	Cordless	S71005A	289.00
Binocular	20X, 40X	2X, 4X	Fixed Arm	Incidental/Transmitted	Three-Way: Tungsten	Corded	S71005B	259.00
Binocular	20X, 40X	2X, 4X	Fixed Arm	Incidental/Transmitted	Three-Way: LED	Cordless	S71005C	289.00

## Fisher Science Education™ Intermediate+ Stereomicroscopes

Stereomicroscopes offer all the quality, features and versatility of larger stereomicroscopes in a compact size.



### Middle/High School Level

- Select the magnification of your choice by simply turning the objective turret
- Comfortably view your object with the 45° eyepieces and 360° rotating head
- Easily position the microscope in forward or reverse viewing positions
- Paired widefield eyepieces with diopter adjustment
- High-intensity 12V, 10w incidental and transmitted illumination with built-in tension adjustment
- Rack and pinion focusing

### WARRANTY:

Five-year limited

Head Type	Magnification	Objectives	Stand	Light Direction	Lighting	Other	Cat. No.	Price
Binocular	10X, 20X	1X, 2X	Post	Incidental/Transmitted	Dual Tungsten	Corded	S71006	280.00
Binocular	10X, 30X	1X, 3X	Post	Incidental/Transmitted	Dual Tungsten	Corded	S71006A	280.00
Binocular	20X, 40X	2X, 4X	Post	Incidental/Transmitted	Dual Tungsten	Corded	S71006B	280.00



## Fisher Science Education™ Advanced Stereomicroscopes

This model is a real workhorse for high school and college education, as well as industry.



### High School/University Level

- Precise optical alignment ensures unsurpassed three-dimensional upright unreversed image
- Paired objectives are parfocussed, parcentered and achromatic
- Rack and pinion focusing with slip clutch and tension adjustment
- Magnification changed by rotating objective turret 90° to positive click stops

### WARRANTY:

Lifetime limited warranty, excluding bulb, cord and fuse

Head Type	Magnification	Objectives	Stand	Light Direction	Lighting	Other	Cat. No.	Price
Binocular	10X, 30X	1X, 3X	Fixed Arm	Incidental/Transmitted	Four-Position: Tungsten	Corded	S71007	355.00
Binocular	20X, 40X	2X, 4X	Fixed Arm	Incidental/Transmitted	Four-Position: Tungsten	Corded	S71007A	355.00

## Fisher Science Education™ Advanced+ Stereomicroscopes

Stereomicroscopes that are ideal for college instruction.



### University Level

- Offer the convenience and versatility of viewing items at 10X magnification, then zooming continuously to maximum detail at 40X magnification
- Upright, unreversed image remains in focus throughout the zoom range
- Trinocular port accepts optional video c-mount and SLR camera adapters (included)
- Viewing head rotates 360°
- Achromatic, color corrected lenses
- Tension adjustment eliminates focus "drift"
- Large dual focusing knobs with slip clutch to prevent damage to mechanism

### INCLUDES:

Rubber eyeshields, vinyl dustcover

### WARRANTY:

Lifetime limited warranty, excluding bulb, cord and fuse

Head Type	Magnification	Objectives	Stand	Light Direction	Lighting	Cat. No.	Price
<b>ZOOM MAGNIFICATION</b>							
Binocular	10X to 40X	1X to 4X	Fixed Arm	Incidental/Transmitted	Three-Way: Halogen/Fluorescent	S71008	655.00
Trinocular	10X to 40X	1X to 4X	Fixed Arm	Incidental/Transmitted	Three-Way: Halogen/Fluorescent	S71008A	755.00
<b>FIXED MAGNIFICATION</b>							
Binocular	10X, 30X	1X, 3X	Post	Incidental/Transmitted	Three-Way: Halogen/Fluorescent	S71009	425.00
Binocular	20X, 40X	2X, 4X	Post	Incidental/Transmitted	Three-Way: Halogen/Fluorescent	S71009A	425.00

## Fisher Science Education™ Advanced StereoZoom Microscope

An exceptional StereoZoom microscope at an exceptionally low price.



### High School/University Level

- Permits students to view the wide picture at 10X magnification, then zoom all the way to 30X for an exciting closeup view
- Achromatic optical system provides sharp, parfocussed image throughout the zoom range, without having to refocus
- By turning the objective turret, magnification can be changed from 10X to 30X, and every point in between
- Locked-on stage clips
- Heavy-duty rack and pinion focusing
- Top halogen and bottom fluorescent illumination

### WARRANTY:

Lifetime limited warranty, excluding bulb, cord and fuse

Head Type	Magnification	Objectives	Stand	Light Direction	Lighting	Cat. No.	Price
Binocular	10X to 30X	1X to 3X	Fixed Arm	Incidental/Transmitted	Three-Way: Halogen/Fluorescent	S71010	535.00

## Fisher Science Education™ Intermediate Digital Compound Microscope

Microscope combines a compound microscope and digital camera.



### Middle/High School Level

- Compound microscope with built-in digital camera
- Includes 100X oil immersion objective
- Rechargeable LED
- Illumination system equal to that of a 20w tungsten bulb
- Single hour charge allows 40 to 50 hours of use

### INCLUDES:

Motic™ Images software

### WARRANTY:

Microscope warranty: lifetime limited warranty on microscope portion, excluding LED, battery, camera and recharger; Camera warranty: one year

Head Type	Magnification	Objectives	Stage	Focusing Control	Condenser	Lighting	Other	Cat. No.	Price
Monocular	40X, 100X, 400X, 1000X	DIN Achromat	Mechanical	Separate	Abbe 1.25 N.A.	LED	Pointer	S71011	559.00

## Fisher Science Education™ Advanced Digital Compound Microscopes

Superior in design and performance with a wide range of features designed for university and laboratory use.



S71012



S71012A

### University/Laboratory Level

- Superb optical clarity and reliable mechanical engineering ensure years of top performance
- Standard achromatic lenses deliver excellent clarity and normal flatness of field
- Microscope is fully functional, independent of the camera application

### Camera Specifications (S71012A)

- HDMI 1080 output
- Computer connection allows 800 × 600 resolution through included Motic™ Images software
- Connect via RCA for 480 TV lines of resolution
- With integrated Moticam 580, S71012A features HDMI output, 5.0 MP captured still images and 3.0 MP live imaging

### INCLUDES:

Motic™ Images software, which allows the user to view, capture, label, manipulate and measure images; vinyl dustcover; rubber eyeshields

### WARRANTY:

Microscope warranty: lifetime limited warranty, excluding bulb, camera and cord;  
Camera warranty: one year

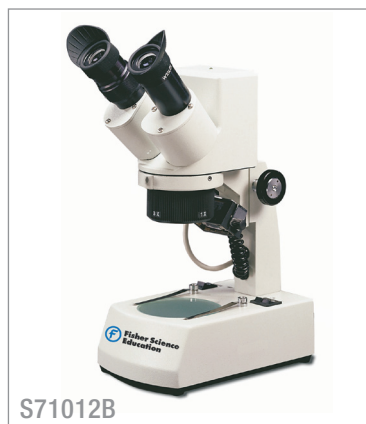
Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Cat. No.	Price
Binocular/Digital Camera	40X, 100X, 400X, 1000X	Achromat	Coaxial Mechanical	Coaxial	Abbe 1.25 N.A.	Halogen	S71012	1789.00
Binocular Digital Video Camera	40X, 100X, 400X, 1000X	Achromat	Coaxial Mechanical	Coaxial	Abbe 1.25 N.A.	Halogen	S71012A	1795.00

## Fisher Science Education™ Advanced Digital Stereomicroscopes

Extra-rugged stereomicroscopes have a built-in high-resolution digital camera.



S71013



S71012B

### College/University Level

- Versatile stereomicroscopes permit user to change from a widefield image at 10X magnification to close-up detail simply by rotating the objective turret
- Microscope is fully functional, independent of the camera
- Features a 3.0 MP live imaging

### INCLUDES:

Motic™ Images software, which allows the user to view, capture, label, manipulate and measure images; vinyl dustcover; rubber eyeshields

### WARRANTY:

Microscope warranty: lifetime limited warranty, excluding bulb, camera and cord;  
Camera warranty: one year

Head Type	Magnification	Objectives	Stand	Light Direction	Lighting	Other	Cat. No.	Price
Binocular	10X and 30X	1X, 3X	Fixed Arm	Incidental/Transmitted	Three-Way: Halogen/Tungsten	3.0 MP Digital Camera	S71012B	799.00
Binocular	10X to 40X	1X to 4X	Post	Incidental/Transmitted	Three-Way: Halogen/Halogen	3.0 MP Digital Camera	S71013	1575.00

## Fisher Science Education™ Intermediate WiFi Digital Compound Microscopes

Get high resolution on any budget with these WiFi digital microscopes that transmit live images to iOS™ or Android™ devices.



### Middle/High School and University Level

- Microscopes feature high-speed, full-resolution imaging technology built into a popular microscope
- Built-in WiFi camera with WiFi transmission of up to 1.3 MP
- Use it as a conventional microscope or share live images with your class using WiFi tablets or wireless laptops
- View, capture and measure through IP address using Web browser and camera's on-board software
- Use on iOS™ or Android™ devices with free MotiConnect App

### WARRANTY:

Five-year limited

Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Other	Cat. No.	Price
Monocular	40X, 100X, 400X	DIN Achromat	Floating Stage	Separate	0.065 N.A.	Rechargeable LED	Triple Nosepiece, Corded	S71014	499.00
Monocular	40X, 100X, 400X	DIN Achromat	Coaxial Mechanical	Coaxial	Abbe 1.25 N.A.	Rechargeable LED	Quadruple Nosepiece, Cordless	S71014A	799.00
Monocular	40X, 100X, 400X, 1000X	DIN Achromat	Coaxial Mechanical	Coaxial	Abbe 1.25 N.A.	Rechargeable LED	Quadruple Nosepiece, Cordless	S71014B	865.00

## Fisher Science Education™ Intermediate Digital Compound Microscopes

Digital WiFi microscopes have built-in screens and also allow viewing through a traditional eyepiece. Feature live image viewing on a 5" LCD screen, which encourages participation from multiple students in a classroom environment.



### High School/University Level

- Education-level microscopes with built-in 5" screen
- Enable student viewing via screen or through traditional eyepiece
- Latest in technology advancements
- Moti™ Images software included, viewable through USB connection
- Standard SD card slot accommodates 5.0 MP image capture and storage

### WARRANTY:

Five-year limited

Head Type	Magnification	Objectives	Stage	Focus Control	Condenser	Lighting	Cat. No.	Price
Monocular	40X, 100X, 400X	Achromat	Floating	Separate	0.065 N.A.	LED	S71015A	649.00
Monocular	40X, 100X, 400X	DIN Achromat	Coaxial Mechanical	Coaxial	Abbe 1.25 N.A.	LED	S71015B	899.00
Monocular	40X, 100X, 400X, 1000X	DIN	Coaxial Mechanical	Coaxial	Abbe 1.25 N.A.	LED	S71015C	965.00

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