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AO StereoStar®/Zoom

STEREOSCOPIC MICROSCOPE

**High Resolution.
New Convenience --
Superior Optics and Wide
Magnification Range**



**AMERICAN OPTICAL
CORPORATION**
SCIENTIFIC INSTRUMENT DIVISION • BUFFALO, N. Y. 14215



The AO StereoStar/ZOOM Microscope represents a great forward step in the state of the art for stereoscopic microscope design. Significant user benefits have been incorporated in both the mechanical and optical system of the instrument. Not only is it more convenient to use but also offers excellent resolution and overall optical performance throughout the zoom magnification range. It is available in a wide choice of models to cover just about any application.

You will find many of the new exciting features outlined in this brochure. But the real measure of instrument capability occurs when you try it yourself. You will immediately note the smooth feel and instant response of the focus and zoom controls. There is no backlash or lost motion — truly a mechanical work of art. However, looking into the eyepieces will reveal the superiority of performance that has been designed into the AO StereoStar/ ZOOM Microscope. You owe it to yourself to see it and try it.

Model 561C-H1 Illustrated with
No. 363V Starlite Illuminator

AO StereoStar®

ZOOM

ZOOM

ZOOM

ZOOM

ZOOM

MICROSCOPE

HERE IS WHAT YOU CAN EXPECT:

High Resolution

Wide Magnification Range 3.5 through 210X

Most Convenient Zoom Control

Large Field of View

High Eyepoint Eyepiece

Interchangeable, Rotatable Zoom Bodies

Superior Image Fidelity

Long Working Distance

Positive Gear-Linked Eyetubes

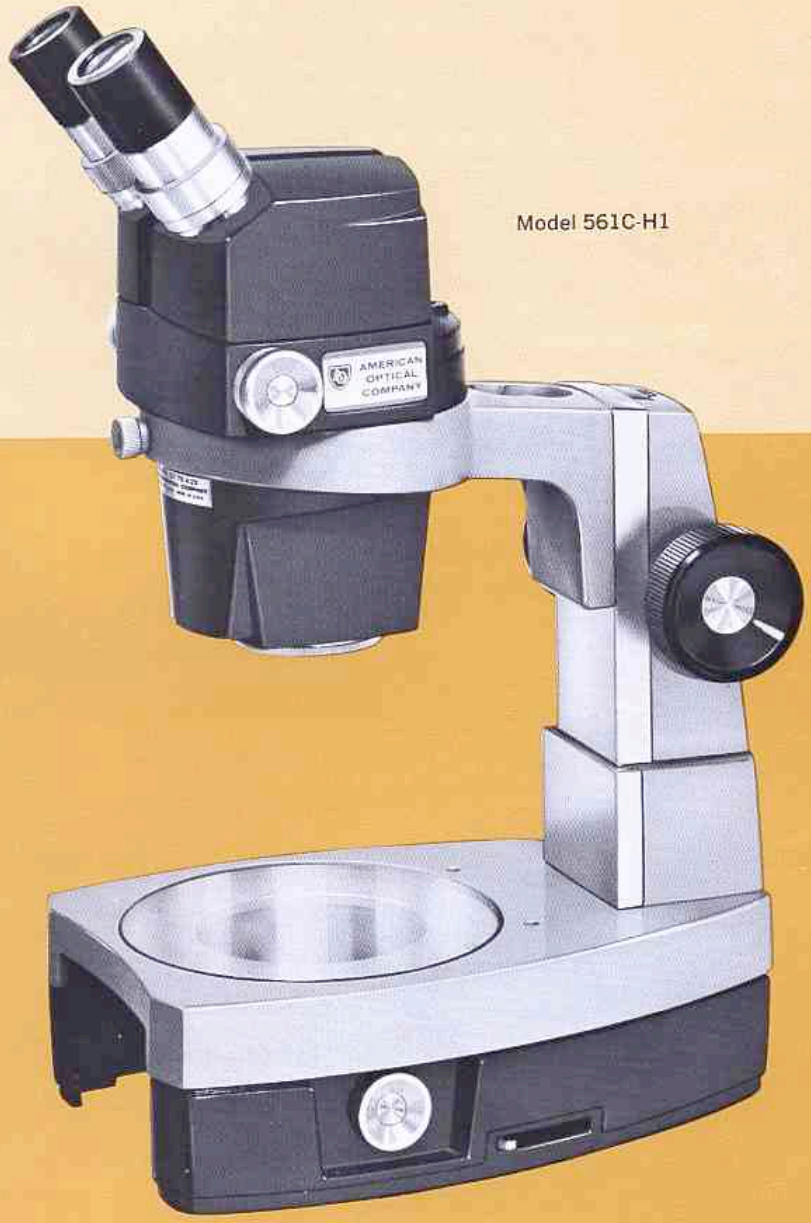
Coolest Illumination

Reflection-Free Americote Optics

Wide Choice of Stands

AO StereoStar / ZOOM
STEREOSCOPIC MICROSCOPES

HIGH RESOLUTION *ZOOM POWER BODY* C



Model 561C-H1

Zoom magnification range, without auxiliary lenses, 0.7X through 4.2X (1.0X through 6.3X with 1.5X auxiliary lens specifically designed for greater resolution with "C" Zoom Power Body.)

Sealed Zoom Power Body with Americote Optics rotatable 360° with inclined eyetubes, gear-linked and adjustable for interpupillary distance; focusable left eyetube; coupled zoom control on right and left side with zoom magnification increment engraved on right hand control knob.

Wide choice of stands, illuminators, wide field eyepieces, auxiliary lenses and other accessories available.

ZOOM POWER BODY B

Zoom magnification range, without auxiliary lenses, 0.7X through 3X. Sealed Zoom Power with Americote Optics rotatable 360° with inclined eyetubes, gear-linked and adjustable for interpupillary distance; focusable left eyetube, coupled zoom control on right and left side with zoom magnification increments engraved on right hand control knob.

Wide choice of stands, illuminators, wide field eyepieces, auxiliary lenses and other accessories available.



Model 561B-1

FIXED POWER BODY D

Fixed power, 1X magnification, Americote Optics, sealed body, rotatable 360° with inclined eyetubes, gear-linked and adjustable for interpupillary distance; focusable left eyetube.

Wide choice of stands, illuminators, wide field eyepieces and other accessories available.

FIXED POWER BODY E

Fixed power, 2X magnification, Americote Optics, sealed body, rotatable 360° with inclined eyetubes, gear-linked and adjustable for interpupillary distance; focusable left eyetube.

Wide choice of stands, illuminators, wide field eyepieces and other accessories available.

TABLE OF RESULTANT MAGNIFICATION, FIELD OF VIEW and WORKING DISTANCE

Zoom Body	Auxiliary Lens Attachment	WIDE FIELD EYEPIECES						Working Distance
		#1134 10X		#1184 15X		#1186 25X		
		Magnification	Field of View	Magnification	Field of View	Magnification	Field of View	
#569 "B" 0.7X to 3X	none	7X to 30X	1.12 to .26"	10.5X to 45X	.97 to .23"	17.5X to 75X	.51 to .12"	4"
	#575 0.5X	3.5X to 15X	2.25 to .53"	5.3X to 22.5X	1.93 to .45"	8.8X to 37.5X	1.01 to .24"	5.7"
	#567 2.0X	14X to 60X	.56 to .13"	20.6X to 90X	.48 to .11"	35X to 150X	.25 to .06"	1.4"
		#1145 10X W.F. Eyepieces						
		Magnification	Field of View					
#570 H.R. "C" 0.7X to 4.2X	none	7X to 42X	1.13 to .19"	10.5X to 63X	.97 to .16"	17.5X to 105X	.51 to .09"	4"
	#575 0.5X	3.5X to 21X	2.25 to .38"	5.3X to 31.5X	1.93 to .32"	8.8X to 52.5X	1.02 to .17"	5.7"
	#576 1.25X	8.8X to 52.5X	.90 to .15"	13.1X to 78.8X	.77 to .13"	21.9X to 131X	.41 to .07"	2.8"
	#574 1.5X	10.5X to 63X	.75 to .13"	15.8X to 94.5X	.65 to .11"	26.3X to 157.5X	.34 to .06"	2.4"
	#577 2.0X	14X to 84X	.56 to .09"	21X to 126X	.48 to .08"	35X to 210X	.25 to .04"	1.3"
		#1134 10X		#1184 15X				
		Magnification	Field of View	Magnification	Field of View			
#571 "D" Fixed Power 1X	None	10X	.79"	15X	.68"	25X	.36"	4"
#572 "E" Fixed Power 2X	None	20X	.39"	30X	.34"	50X	.18"	4"

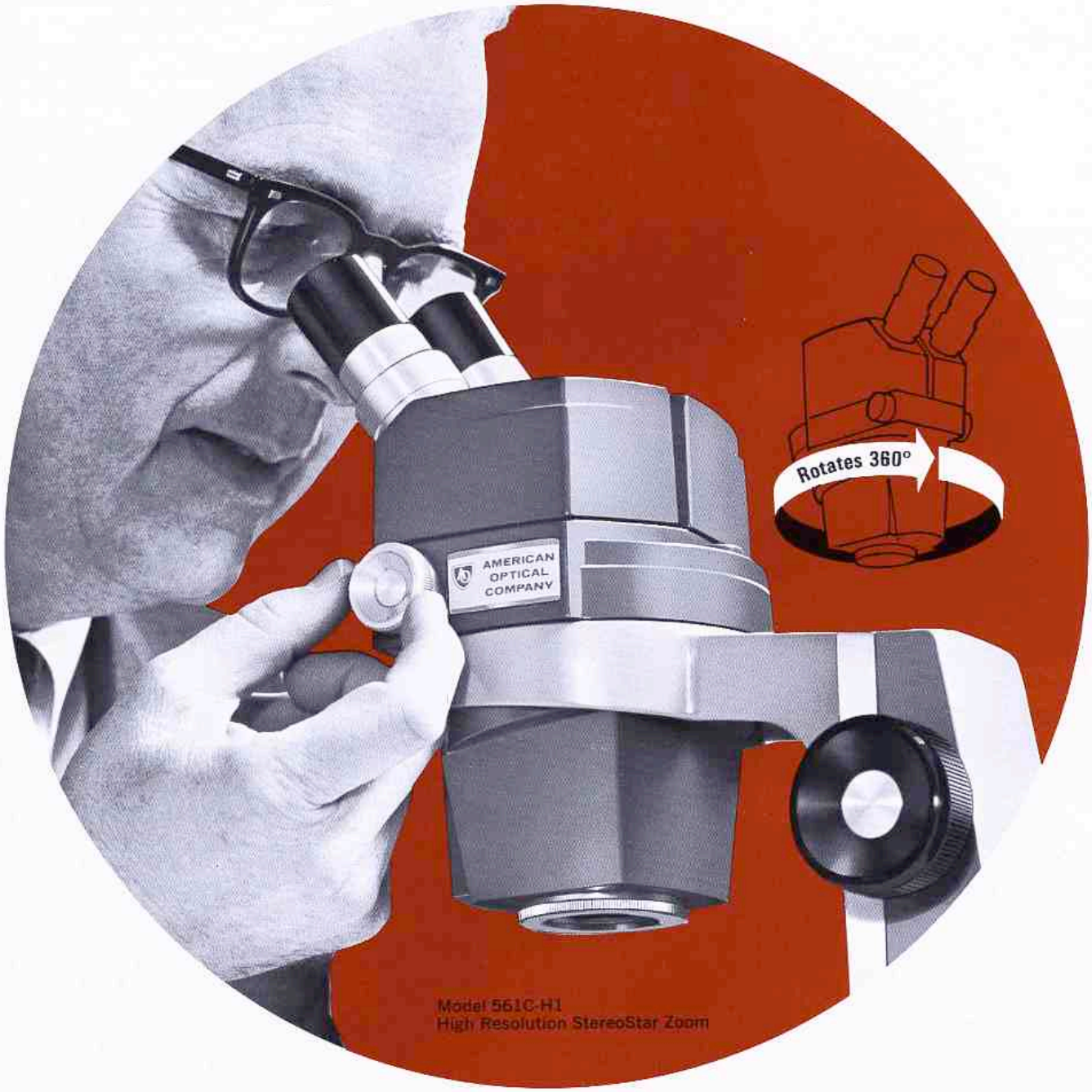
To convert inch values to millimeters: multiply by 25.4

Continuously Variable

Zoom Power Body:

Completely enclosed stereoscopic optical system with variable magnification controlled from either side. Zoom up or down through the entire magnification power range smoothly and effortlessly. There is no awkward reaching required to operate the zoom control. It is positioned exactly where you would expect it to be in a well-designed instrument.

One control knob is calibrated to indicate magnification. Parfocal optical system allows you to zoom through the entire magnification range with minimal refocusing.



Model 561C-H1
High Resolution StereoStar Zoom

Comfortably Inclined Eyetubes

An optimum inclination angle assures operator comfort during long period of use. Efficiency is increased by decreasing possible fatigue factor. One eyetube is focusable to compensate for eye differences.

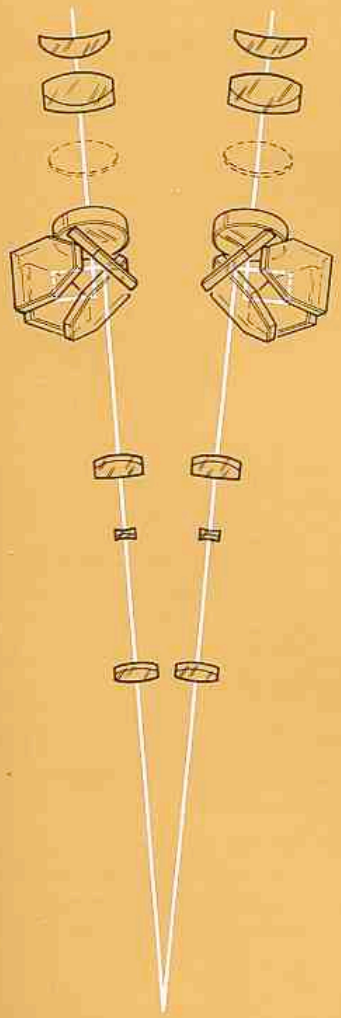


High Eyepoint, Wide Field Eyepieces

Eyeglasses or eyelashes never interfere with operator's viewing comfort. High eyepoint allows entire wide field to be viewed under any conditions. Eyepieces are available in 10X, 15X or 25X; micrometer disc or reticule can be conveniently inserted into 10X and 15X Eyepieces.

Series B

OPTICAL SYSTEM



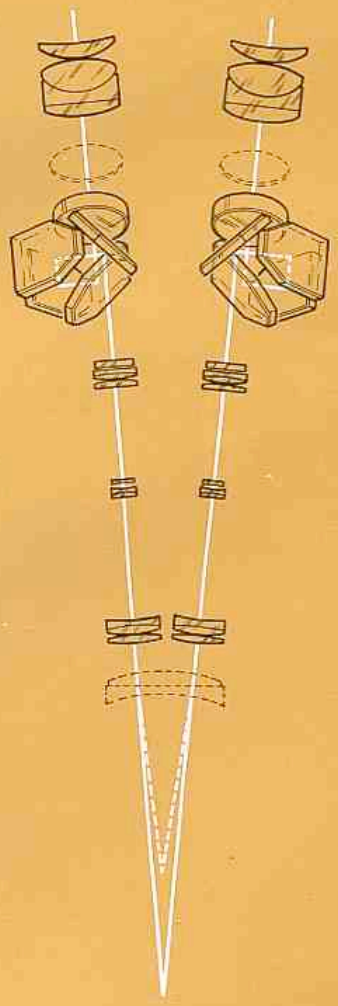
High Resolution

Crisp, sharp image definition is assured at all magnifications. High resolving power gives you the extreme acuity you require in laboratory, production or quality control areas. The AO StereoStar/ZOOM makes this ultimate in image quality possible by providing a more sophisticated optical system. Additional lens elements incorporated into the Series "C" optical system also extend the available magnification range.

The more fully corrected optical system of the Series "C" gives you finer optical performance with high resolution and a wider zoom magnification range. →

Series C High Resolution

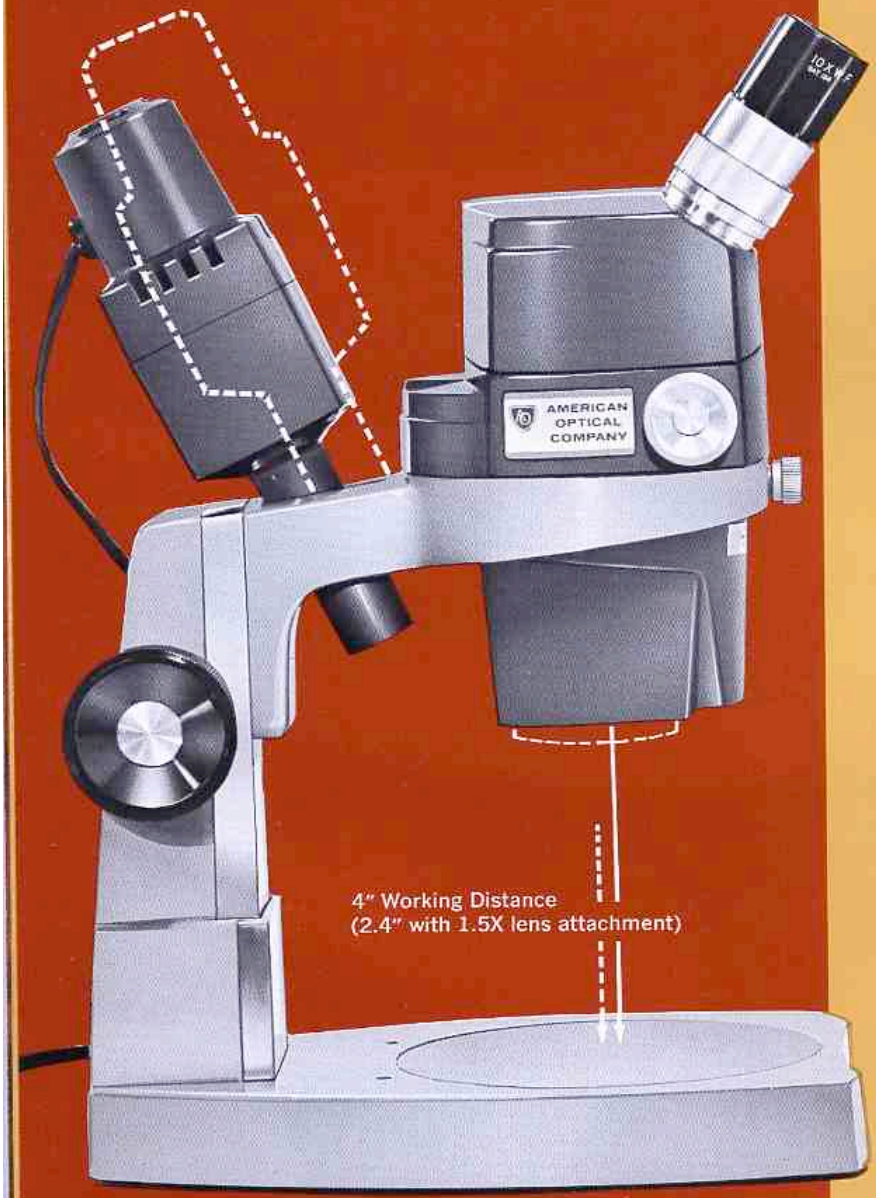
OPTICAL SYSTEM



Outstanding Optical and Mechanical

Features:

Twin illuminator port in all Stands automatically adjusts illuminator placement in height and angle to permit Zoom bodies to be used efficiently with proper incident illumination.



Maximum Working Distance

All Zoom bodies provide 4" working distance, assuring ample room to manipulate tools for assembly or dissecting procedures with speed and ease. This will decrease only when auxiliary lens attachments (1.25X, 1.5X, 2.0X) are introduced to the basic system for added magnification and resolving capability. With the 0.5X attachment however, the working distance is increased to 5.7 inches.

Wide Field of View

This determines the worth of any microscope . . . "How much of the field can you see?" The AO StereoStar/ZOOM offers extra wide field size . . . 1-1/8 inches at 7X. (See table, page 4).

Flat, Sharp Fields

The entire field is in focus from edge to edge. True stereopsis is maintained at all magnifications. Contrast and definition are optimum with Americote optics that reduce internal reflections and increase light transmission.

Maintain P.D. without locking

Eyetubes are gear-linked to accommodate individual interpupillary distance adjustments from 55mm to 75mm. Synchronized movement is smooth and positive. Adjustment to individual eye spacing is maintained without locking.

Unlimited Rotation Range

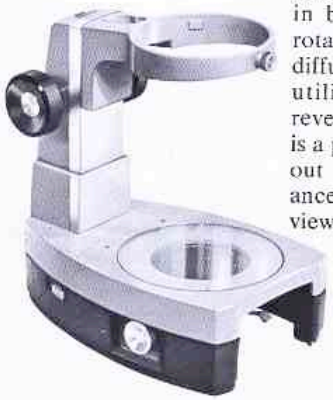
The Zoom Power Body may be rotated 360° with all stands. You are able to face the eyepieces in any direction without lifting the power head from the stand. Allows unlimited versatility for viewing comfort because it will accommodate virtually any assembly or inspection situation.

Wide Variety of
Stands:

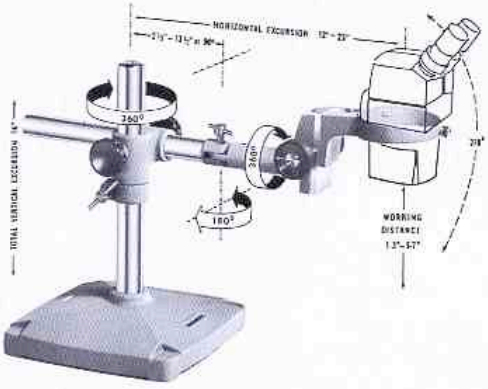
The AO StereoStar/ZOOM Microscope also has unique flexibility of application. There is a stand that will fit your every need. They are finely machined durable metal fitted with smooth precision functioning focusing mechanism that requires minimum maintenance.



No. 560—For opaque specimens. Supplied with scratch and reagent resistant high contrast stage plates (one black and one white) that are securely spring retained; quickly interchangeable.



No. 561—For Incident and Transmitted light. This is the same basic 560 stand plus an easily attached base that accepts the Starlite or fluorescent illuminator. Recessed knob in both sides of the base allows rotation and positioning of a built-in diffusing reflector to permit optimum utilization of illumination. The reverse side of the diffusing reflector is a plane mirror. A unique swing in/out lens system assures evenly balanced illumination over the entire viewing area, at all magnifications.

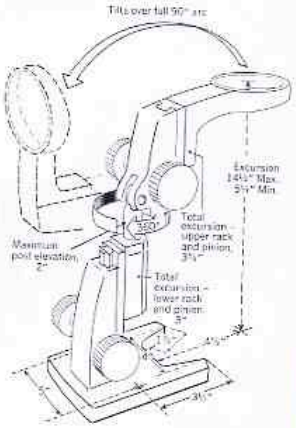


No. 564—For opaque specimens. Provides horizontal excursion to 23 inches and vertical to 14 inches. Stand adjustments are made manually and secured by locking knobs. Supporting ring on the vertical post permits 360° rotation of arm.



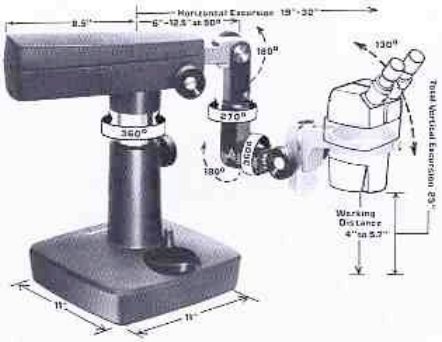


No. 563—For opaque specimens. Vertical receptacle is detachable from stage base...allows wide variety of possibilities in jig and fixture installations for many industrial and research applications. #561S may be added for transmitted light.



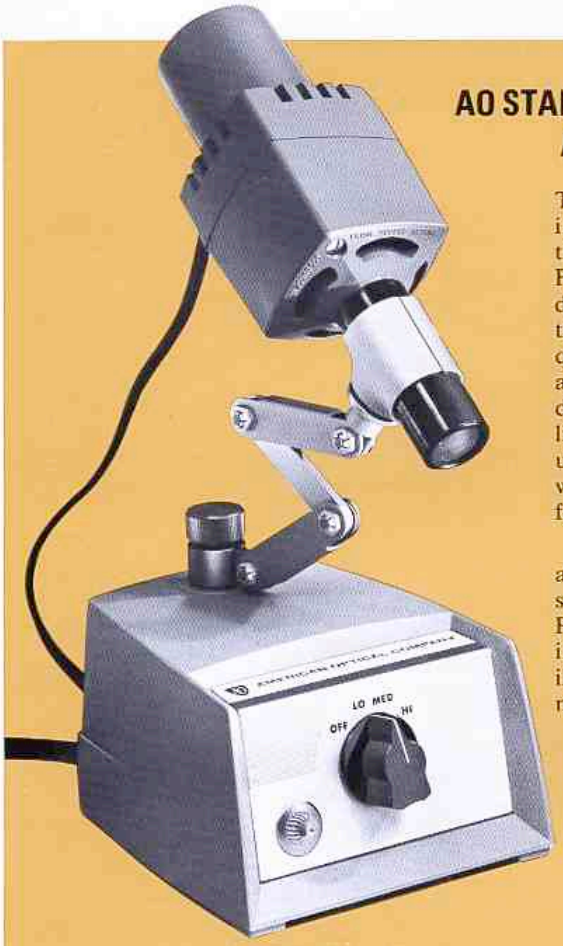
No. 566—For opaque specimens. Rack and pinion stand provides additional controllable elevating and focusing excursions for industrial applications.

**Series 563, 564, 565, 566 Microscopes include Yoke, Pillar, Power Body Support Arm illustrated above.*



No. 565—For opaque specimens. Allows universal positioning in any direction for complete application flexibility. Rack and pinion adjustments are provided for horizontal control. Convenient handwheel for vertical control. Counterbalanced arm facilitates easy, for horizontal control: convenient handwheel for vertical control. Counterbalanced arm facilitates easy, rapid instrument placement.

Illuminators:

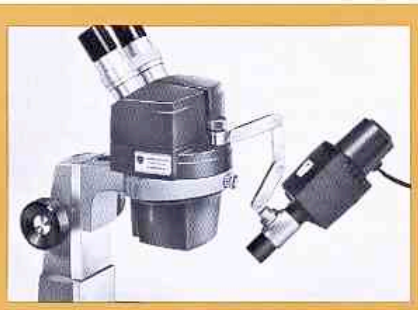


AO STARLITE™ Illuminator

More light with less heat

This newest design in microscope illuminators assures cool operation throughout extended periods of use. Fixed pre-focused condenser elements direct brilliant even illumination over the entire stage viewing area. Unique quick-change securing stud allows attachment onto transformer base or directly to the microscope. The three link adjustable arm with swivel gives unlimited positioning range. Supplied with choice of variable or fixed transformers.

The versatile Starlite Illuminator may also be used without the linkage assembly. It is simply set into the Twin-Port Microscope arm for incident illumination or inserted in the trans-illuminating base for transmitted illumination.









Vertical Illuminator

The unique Vertical Illuminator permits examination of deep, narrow orifices that are impossible or difficult to illuminate with standard oblique methods. It consists of a special Starlite Illuminator plus a vertical reflector system that mounts below the objective and is designed for use without auxiliary lenses. →



AO Fluorescent Illuminator

Further illuminating variety is achieved with this new illumination source. It incorporates two daylight fluorescent tubes and attaches within the trans-illuminating base to provide a diffused cool light directly under the glass stage plate; or is mounted with linkage to either the microscope stand or illuminator base for use as incident light.



Accessories:

Auxiliary Lenses

—to extend the useful range of magnifications. All achromatically corrected and securely mounted in precision threaded cells for instant attachment.



2X Cat. No. 567—for use with Series "B" Zoom Power Bodies



0.5X Cat. No. 575—for use with Series "B", and "C" Zoom Power Bodies



1.25X Cat. No. 576—for use with Series "C" Zoom Power Body



1.5X Cat. No. 574—for use with Series "C" Zoom Power Body



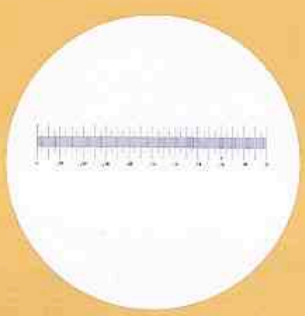
2X Cat. No. 577—for use with Series "C" Zoom Power Body

Measuring Eyepiece Discs

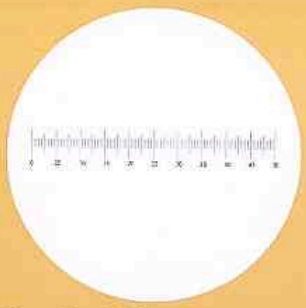
For linear measurement . . . lines are opaque for maximum contrast. The 20 mm discs are mounted in cells for easy installation into 10X or 15X eyepieces . . . not intended for 25X eyepieces. Following are precalibrated for use at Power settings indicated.



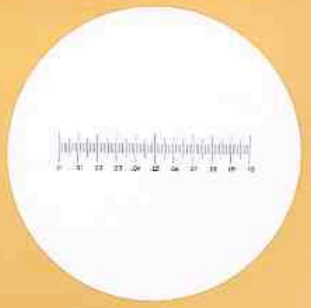
Cat. No. 1426
150 divisions ea. .001" at 3X



Cat. No. 1428
200 divisions ea. .001" at 2X

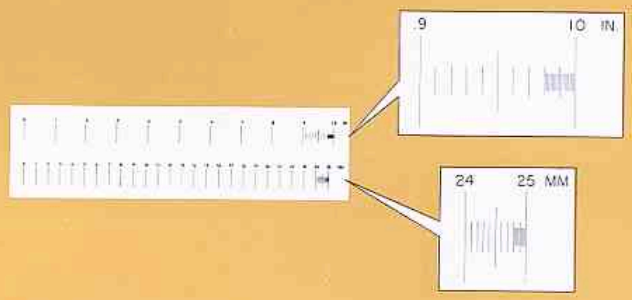


Cat. No. 1429
100 divisions ea. .005" at 1X



Cat. No. 1430
100 divisions ea. .001" at 4X

See insert price list for additional selection of eyepiece discs.



Stage Micrometer No. 1400, for precise calibration of eyepiece discs, is graduated in English and Metric systems. English scale is 1.0" long. Intervals 0.1, 0.01 and 0.001. Metric scale is 25.0 mm long. Intervals 1.0 mm, 0.1 and 0.02.

Eyepieces and Eyeshields

Wide field Eyepieces 10X, 15X and 25X feature high eyepoints. Eyeshields help eliminate exterior stray light.



AO StereoStar / ZOOM

STEREOSCOPIC MICROSCOPE

AO StereoStar Microscope Models 560, 561 are supplied with 360° rotatable Zoom or fixed power bodies with inclined eyetubes, auxiliary lens attachments, with wide field eyepieces as selected from tabulation on opposite page.

SERIES 560



The sturdy stand, for opaque specimens, features heavy duty slideways and extra long excursion; wide durable rack and pinion focusing adjustment with adjustable tension; large base-stage with black and white opaque stage plates.



No. 569
Zoom Power Body "B"
0.7X through 3.0X



Model 561B-1

SERIES 561



The sturdy stand, for opaque and transparent specimens, features heavy duty slideways and extra long excursion; wide durable rack and pinion focusing adjustment with adjustable tension; large base-stage with transilluminating substage and glass stage plate.



No. 570
Zoom Power Body "C"
0.7X through 4.2X



Model 561C-D3 Illustrated with No. 363V Starlite Illuminator in base



No. 571
Fixed Power Body 1X "D"

No. 572
Fixed Power Body 2X "E"



Model 560D-1 Illustrated with No. 363V Starlite Illuminator on body.

CATALOG CODE



POWER BODY			AUXILIARY LENS	WIDE FIELD EYEPIECES
	#569 0.7 thru 3X Zoom "B"		#567 2X Auxiliary Lens "D" #575 0.5X Auxiliary Lens	#1134 10X W.F. Eyepieces "1" #1184 15X W.F. Eyepieces "2"
	#570 0.7 thru 4.2X Zoom "C"	HYPHEN	#574 1.5X Auxiliary Lens "H" #575 0.5X Auxiliary Lens #576 1.25 Auxiliary Lens #577 2X Auxiliary Lens "D"	#1145 10X W.F. Eyepieces "1" #1184 15X W.F. Eyepieces "2" #1145 and #1184 10X and 15X W.F. Eyepieces "3"
	#571 Fixed Power 1X "D" #572 Fixed Power 2X "E"		None	#1134 10X W.F. Eyepieces "1" #1184 15X W.F. Eyepieces

Catalog Number	Zoom Body Magnifications	Auxiliary Lens Attachments	Wide Field Eyepieces	Range of Magnifications	Working Distance
Series 560, 561 STEREOSTAR ZOOM Microscopes					
560B-1	#569 "B" 0.7X through 3X	—	#1134 10X	7X through 30X	4"
560B-2	#569 "B" 0.7X through 3X	—	#1184 15X	10.5X through 45X	4"
561B-1	#569 "B" 0.7X through 3X	—	#1134 10X	7X through 30X	4"
561B-2	#569 "B" 0.7X through 3X	—	#1184 15X	10.5X through 45X	4"
561B-D1	#569 "B" 0.7X through 3X	#567 2X	#1134 10X	7X through 60X	1.4", 4"
561B-D2	#569 "B" 0.7X through 3X	#567 2X	#1184 15X	10.5X through 90X	1.4", 4"
Series 560, 561 High Resolution STEREOSTAR ZOOM Microscopes					
560C-1	#570 "C" 0.7X through 4.2X	—	#1145 10X	7X through 42X	4"
560C-2	#570 "C" 0.7X through 4.2X	—	#1184 15X	10.5X through 63X	4"
561C-1	#570 "C" 0.7X through 4.2X	—	#1145 10X	7X through 42X	4"
561C-2	#570 "C" 0.7X through 4.2X	—	#1184 15X	10.5X through 63X	4"
561C-D3	#570 "C" 0.7X through 4.2X	#577 2X	#1145 10X #1184 15X	7X through 126X	1.3", 4"
561C-H1	#570 "C" 0.7X through 4.2X	#574 1.5X	#1145 10X	7X through 63X	2.4", 4"
561C-H3	#570 "C" 0.7X through 4.2X	#574 1.5X	#1145 10X #1184 15X	7X through 94.5X	2.4", 4"
561C-HD1	#570 "C" 0.7X through 4.2X	#574 1.5X #577 2X	#1145 10X	7X through 84X	1.3", 2.4", 4"
561C-HD2	#570 "C" 0.7X through 4.2X	#574 1.5X #577 2X	#1184 15X	10.5X through 126X	1.3", 2.4", 4"
Series 560, 561 FIXED POWER STEREOSTAR Microscopes					
560D-1	#571 "D" Fixed Power 1X	—	#1134 10X	10X	4"
560E-1	#572 "E" Fixed Power 2X	—	#1134 10X	20X	4"
561D-1	#571 "D" Fixed Power 1X	—	#1134 10X	10X	4"

AO American Optical
SCIENTIFIC INSTRUMENT DIVISION
BUFFALO, NY 14215

AO StereoStar / ZOOM
STEREOSCOPIC MICROSCOPE

SERIES

562

AO StereoStar Models 562 are supplied with 360° rotatable Zoom or fixed power bodies with inclined eyetubes, auxiliary lens attachments, with wide field eyepieces as selected from tabulation on opposite page.

These models feature a yoke and pillar unit for simple adaptation to machine tools, jigs and fixtures or other applications: heavy duty slideways and long excursion; wide durable rack and pinion focusing adjustment with adjustable tension; and are freely interchangeable with basic stands of Models 563, 564, 565 and 566 cited as Nos. 563S, 52S, 53S and 566S in Insert Price List.



No. 569
Zoom Power Body "B"
0.7X through 3.0X



Model 562B-1



Model 562 Arm

562A (formerly K1910)
Same as illustrated above but with pillar diameter of .632" instead of 1.000".



No. 570
Zoom Power Body "C"
0.7X through 4.2X



Model 562C-D1



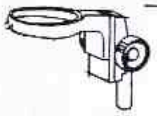
No. 571
Fixed Power Body 1X "D"

No. 572
Fixed Power Body 2X "E"



Model 562D-1

CATALOG CODE

SERIES ARM	POWER BODY		AUXILIARY LENS	WIDE FIELD EYEPIECES
 #562 Arm	 #569 0.7 thru 3X Zoom **"B"**	HYPHEN	#567 2X Auxiliary Lens #575 0.5X Auxiliary Lens	#1134 10X W.F. Eyepieces **"1"** #1184 15X W.F. Eyepieces **"2"**
	 #570 0.7 thru 4.2X Zoom **"C"**		#574 1.5X Auxiliary Lens **"H"** #575 0.5X Auxiliary Lens **"L"** #576 1.25 Auxiliary Lens #577 2X Auxiliary Lens **"D"**	#1145 10X W.F. Eyepieces **"1"** #1184 15X W.F. Eyepieces **"2"**
	 #571 Fixed Power 1X **"D"** #572 Fixed Power 2X **"E"**		None	#1134 10X W.F. Eyepieces **"1"** #1184 15X W.F. Eyepieces

Catalog Number	Zoom Body Magnifications	Auxiliary Lens Attachments	Wide Field Eyepieces	Range of Magnifications	Working Distance
Series 562 STEREOSTAR ZOOM Microscope					
562B-1	#569 "B" 0.7X through 3X	—	#1134 10X	7X through 30X	4"
562B-2	#569 "B" 0.7X through 3X	—	#1184 15X	10.5X through 45X	4"
Series 562 High Resolution STEREOSTAR ZOOM Microscope					
562C-1	#570 "C" 0.7X through 4.2X	—	#1145 10X	7X through 42X	4"
562C-2	#570 "C" 0.7X through 4.2X	—	#1184 15X	10.5X through 63X	4"
562C-D1	#570 "C" 0.7X through 4.2X	#577 2X	#1145 10X	7X through 84X	1.3", 4"
562C-D2	#570 "C" 0.7X through 4.2X	#577 2X	#1184 15X	10.5X through 126X	1.3", 4"
562C-H1	#570 "C" 0.7X through 4.2X	#574 1.5X	#1145 10X	7X through 63X	2.4", 4"
562C-L1	#570 "C" 0.7X through 4.2X	#575 0.5X	#1145 10X	3.5X through 42X	5.7", 4"
Series 562 FIXED POWER STEREOSTAR					
562D-1	#571 "D" Fixed Power 1X	—	#1134 10X	10X	4"
562E-1	#572 "E" Fixed Power 2X	—	#1134 10X	20X	4"

AO StereoStar / ZOOM

STEREOSCOPIC MICROSCOPE

AO StereoStar Microscope Models 563, 566 are supplied with 360° rotatable Zoom or fixed power bodies with inclined eyetubes, auxiliary lens attachments, with wide field eyepieces as selected from tabulation on opposite page.

SERIES 563



Models 563 feature a yoke and pillar unit and separable base stage (with black and white stage plates) for adaptation to machine tools, jigs and fixtures or other applications; heavy duty slideways and long excursion; wide durable rack and pinion focusing adjustment with adjustable tension. No. 561S Transilluminating Substage Base may be added to Models 563 for viewing transparent objects or specimens.



No. 569
Zoom Power Body "B"
0.7X through 3.0X



Model 563B-1 Illustrated with No. 363V Starlite Illuminator in arm

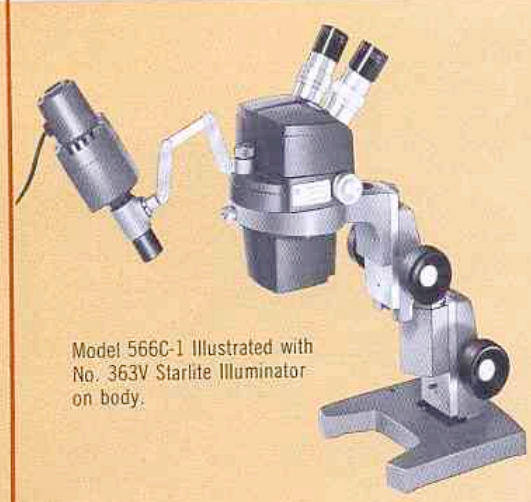
SERIES 566



Models 566 feature a yoke and pillar unit and separable basestand for adaptation to machine tools, jigs and fixtures or other applications; two independent rack and pinion focusing adjustments, heavy duty brass and stainless steel slideways, large focusing knobs and adjustable tension.



No. 570
Zoom Power Body "C"
0.7X through 4.2X



Model 566C-1 Illustrated with No. 363V Starlite Illuminator on body.



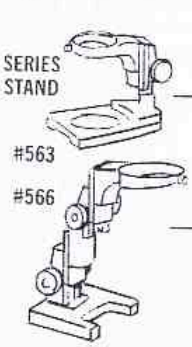
No. 571
Fixed Power Body 1X "D"

No. 572
Fixed Power Body 2X "E"



Model 563E-1 Illustrated with No. 578 Fluorescent Illuminator

CATALOG CODE



POWER BODY		AUXILIARY LENS	WIDE FIELD EYEPIECES
 #569 0.7 thru 3X Zoom "B"		#567 2X Auxiliary Lens #575 0.5X Auxiliary Lens	#1134 10X W.F. Eyepieces "1" #1184 15X W.F. Eyepieces "2"
 #570 0.7 thru 4.2X Zoom "C"	HYPHEN	#574 1.5X Auxiliary Lens "H" #575 0.5X Auxiliary Lens "L" #576 1.25 Auxiliary Lens #577 2X Auxiliary Lens "D"	#1145 10X W.F. Eyepieces "1" #1184 15X W.F. Eyepieces "2" #1145 and #1184 10X and 15X W.F. Eyepieces "3"
 #572 Fixed Power 2X "E"		None	#1134 10X W.F. Eyepieces #1184 15X W.F. Eyepieces "2"

Catalog Number	Zoom Body Magnifications	Auxiliary Lens Attachments	Wide Field Eyepieces	Range of Magnifications	Working Distance
Series 563, 566 STEREOSTAR ZOOM Microscope for opaque specimens					
563B-1	#569 "B" 0.7X through 3X	—	#1134 10X	7X through 30X	4"
563B-2	#569 "B" 0.7X through 3X	—	#1184 15X	10.5X through 45X	4"
566B-1	#569 "B" 0.7X through 3X	—	#1134 10X	7X through 30X	4"
Series 563, 566 High Resolution STEREOSTAR ZOOM Microscope					
563C-1	#570 "C" 0.7X through 4.2X	—	#1145 10X	7X through 42X	4"
563C-2	#570 "C" 0.7X through 4.2X	—	#1184 15X	10.5X through 63X	4"
563C-D1	#570 "C" 0.7X through 4.2X	#577 2X	#1145 10X	7X through 84X	1.3", 4"
563C-D2	#570 "C" 0.7X through 4.2X	#577 2X	#1184 15X	10.5X through 126X	1.3", 4"
563C-H3	#570 "C" 0.7X through 4.2X	#574 1.5X	#1145 10X #1184 15X	7X through 94.5X	2.4", 4"
566C-1	#570 "C" 0.7X through 4.2X	—	#1145 10X	7X through 42X	4"
566C-2	#570 "C" 0.7X through 4.2X	—	#1184 15X	10.5X through 63X	4"
566C-D1	#570 "C" 0.7X through 4.2X	#577 2X	#1145 10X	7X through 84X	1.3", 4"
566C-H3	#570 "C" 0.7X through 4.2X	#574 1.5X	#1145 10X #1184 15X	7X through 94.5X	2.4", 4"
566C-L2	#570 "C" 0.7X through 4.2X	#556 Ext. Tube #575 0.5X	#1184 15X	5.3X through 63X	5.7", 4"
Series 563 FIXED POWER STEREOSTAR					
563E-2	#572 "F" Fixed Power 2X	—	#1184 15X	30X	4"

FOR USE WITH TRANSPARENT SPECIMENS ADD 561S TO MODELS 563

AO StereoStar / ZOOM
STEREOSCOPIC MICROSCOPE

AO StereoStar Microscope Models 564, 565 are supplied with 360° rotatable Zoom or fixed power bodies with inclined eyetubes, auxiliary lens attachments, with wide field eyepieces as selected from tabulation on opposite page.

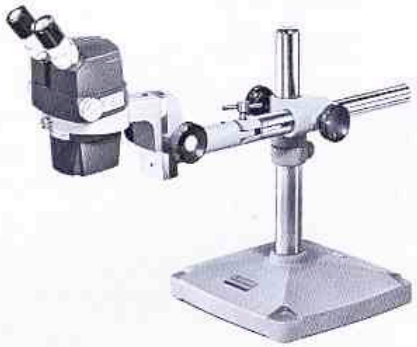
SERIES 564



Models 564 feature a removable yoke and pillar unit, as Models 562; a standard table stand with horizontal arm which can be rotated around and positioned up or down vertical post. Vertical and horizontal extension motions are accomplished manually — not by rack and pinion movements.



No. 569
Zoom Power Body "B"
0.7X through 3.0X



Model 564B-2



No. 570
Zoom Power Body "C"
0.7X through 4.2X



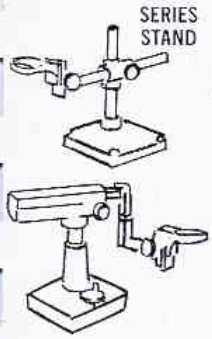
Model 565C-1

SERIES 565



Models 565 feature a removable yoke and pillar unit as Models 562; a large universal table stand which can be rotated around and positioned up or down vertical post. Horizontal extension motions are accomplished by rack and pinion movements; vertical motion by convenient handwheel.

CATALOG CODE



POWER BODY		AUXILIARY LENS	WIDE FIELD EYEPIECES
	#569 0.7 thru 3X Zoom **"B"**	#567 2X Auxiliary Lens #575 0.5X Auxiliary Lens	#1134 10X W.F. Eyepieces **"1"** #1184 15X W.F. Eyepieces **"2"**
	#570 0.7 thru 4.2X Zoom **"C"**	#574 1.5X Auxiliary Lens **"H"** #575 0.5X Auxiliary Lens **"L"** #576 1.25 Auxiliary Lens #577 2X Auxiliary Lens **"D"**	#1145 10X W.F. Eyepieces **"1"** #1184 15X W.F. Eyepieces **"2"** #1145 and #1184 10X and 15X W.F. Eyepieces **"3"**

HYPHEN

Catalog Number	Zoom Body Magnifications	Auxiliary Lens Attachments	Wide Field Eyepieces	Range of Magnifications	Working Distance
Series 564, 565 STEREOSTAR ZOOM Microscope					
564B-1	#569 "B" 0.7X through 3X	—	#1134 10X	7X through 30X	4"
564B-2	#569 "B" 0.7X through 3X	—	#1184 15X	10.5X through 45X	4"
565B-1	#569 "B" 0.7X through 3X	—	#1134 10X	7X through 30X	4"
565B-2	#569 "B" 0.7X through 3X	—	#1184 15X	10.5X through 45X	4"
Series 564, 565 High Resolution STEREOSTAR ZOOM Microscope					
564C-1	#570 "C" 0.7X through 4.2X	—	#1145 10X	7X through 42X	4"
564C-2	#570 "C" 0.7X through 4.2X	—	#1184 15X	10.5X through 63X	4"
564C-D2	#570 "C" 0.7X through 4.2X	#577 2X	#1184 15X	10.5X through 126X	1.3", 4"
564C-H3	#570 "C" 0.7X through 4.2X	#574 1.5X	#1145 10X #1184 15X	7X through 94.5X	2.4", 4"
565C-1	#570 "C" 0.7X through 4.2X	—	#1145 10X	7X through 42X	4"
565C-2	#570 "C" 0.7X through 4.2X	—	#1184 15X	10.5X through 63X	4"
565C-D1	#570 "C" 0.7X through 4.2X	#577 2X	#1145 10X	7X through 84X	1.3", 4"
565C-D2	#570 "C" 0.7X through 4.2X	#577 2X	#1184 15X	10.5X through 126X	1.3", 4"
565C-H3	#570 "C" 0.7X through 4.2X	#574 1.5X	#1145 10X #1184 15X	7X through 94.5X	2.4", 4"
565C-L2	#570 "C" 0.7X through 4.2X	#575 0.5X	#1184 15X	5.3X through 63X	5.7", 4"

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SCIENTIFIC INSTRUMENT DIVISION
BUFFALO, NY 14215



AO offers the most complete line of Stereo microscopes in the world

1 *Twin View* for training 2 *Dual Observation* for teaching and consultation
3 4 *Greenough* for resolution and detail 5 *Cycloptic* for all applications plus photography
6 7 *Series Forty* for teaching science and biology 8 9 *StereoStar/Zoom* for continuously variable magnification from 3.5X through 210X and ultimate in resolution.

SB560 3/75

Litho in U.S.A.

price list

Effective August 15, 1975

AO StereoStar® / ZOOM

STEREOSCOPIC MICROSCOPE

All prices, deliveries and terms of sale are subject to change without notice. Applicable taxes are in addition to prices stated.

Orders are subject to final acceptance by the Sales Office at Buffalo with the understanding that prices and terms prevailing at time of delivery will apply.

The equipment supplied may not agree in all details with our descriptions or illustrations because instruments are subject to modification and improvement.

Models 560, 561, 562, 564, 565, 566 StereoStars may be grouped in quantity of five or more to qualify for 10% maximum discount in second column.

SERIES 560

Page 12



Model 560B-1

Series 560 STEREOSTAR ZOOM MICROSCOPES

Catalog Number	Unit Net Price Quantity 1 - 4 List	Unit Net Price Quantity 5 or More 10%
560B-1	$611.00	$549.90
560B-2	611.00	549.90
560C-1	704.00	633.60
560C-2	704.00	633.60

Series 560 FIXED POWER STEREOSTAR MICROSCOPES

560D-1	$395.00	$355.50
560E-1	395.00	355.50

SERIES 561

Catalog Number	Unit Net Price Quantity 1 - 4 List	Unit Net Price Quantity 5 or More 10%

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Model 561C-1

Illustrated with No. 363V Starlite Illuminator in base

Series 561 STEREOSTAR ZOOM MICROSCOPES

561B-1	$666.00	$599.40
561B-2	666.00	599.40
561B-D1	711.00	639.90
561B-D2	711.00	639.90
561C-1	759.00	683.10
561C-2	759.00	683.10
561C-D3	885.00	796.50
561C-H1	805.00	724.50
561C-H3	875.00	787.50
561C-HD1	861.00	774.90
561C-HD2	861.00	774.90

Series 561 FIXED POWER STEREOSTAR MICROSCOPES

561D-1	$450.00	$405.00

SERIES 562

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Model 562D-1

Series 562 STEREOSTAR ZOOM MICROSCOPES

562B-1	$605.00	$544.50
562B-2	605.00	544.50
562C-1	698.00	628.20
562C-2	698.00	628.20
562C-D1	754.00	678.60
562C-D2	754.00	678.60
562C-H1	744.00	669.60
562C-L1	743.00	668.70

Series 562 FIXED POWER STEREOSTAR MICROSCOPES

562D-1	$389.00	$350.10
562D-2	389.00	350.10

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BUFFALO, NY 14215

SERIES 563

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Series 563 STEREOSTAR ZOOM MICROSCOPES

Catalog Number	Unit Net Price Quantity 1 - 4 List	Unit Net Price Quantity 5 or More 10%
563B-1	$658.00	$592.20
563B-2	658.00	592.20
563C-1	751.00	675.90
563C-2	751.00	675.90
563C-D1	807.00	726.30
563C-D2	807.00	726.30
563C-H3	867.00	780.30



Model 563C-2
illustrated with No. 363V Starlite Illuminator on body

Series 563 FIXED POWER STEREOSTAR MICROSCOPES

563E-2	$442.00	$397.80

SERIES 564

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Series 564 STEREOSTAR ZOOM MICROSCOPES

564B-1	$704.00	$633.60
564B-2	704.00	633.60
564C-1	797.00	717.30
564C-2	797.00	717.30
564C-D2	853.00	767.70
564C-H3	913.00	821.70



Model 564B-2

SERIES 565

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Series 565 STEREOSTAR ZOOM MICROSCOPES

Catalog Number	Unit Net Price Quantity 1 - 4 List	Unit Net Price Quantity 5 or More 10%
565B-1	$1069.00	$ 962.10
565B-2	1069.00	962.10
565C-1	1162.00	1045.80
565C-2	1162.00	1045.80
565C-D1	1218.00	1096.20
565C-D2	1218.00	1096.20
565C-H3	1278.00	1150.20
565C-L2	1207.00	1086.30



Model 565C-1

SERIES 566

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Series 566 STEREOSTAR ZOOM MICROSCOPES

566B-1	$704.00	$633.60
566C-1	797.00	717.30
566C-2	797.00	717.30
566C-D1	853.00	767.70
566C-H3	913.00	821.70
566C-L2	853.00	767.70



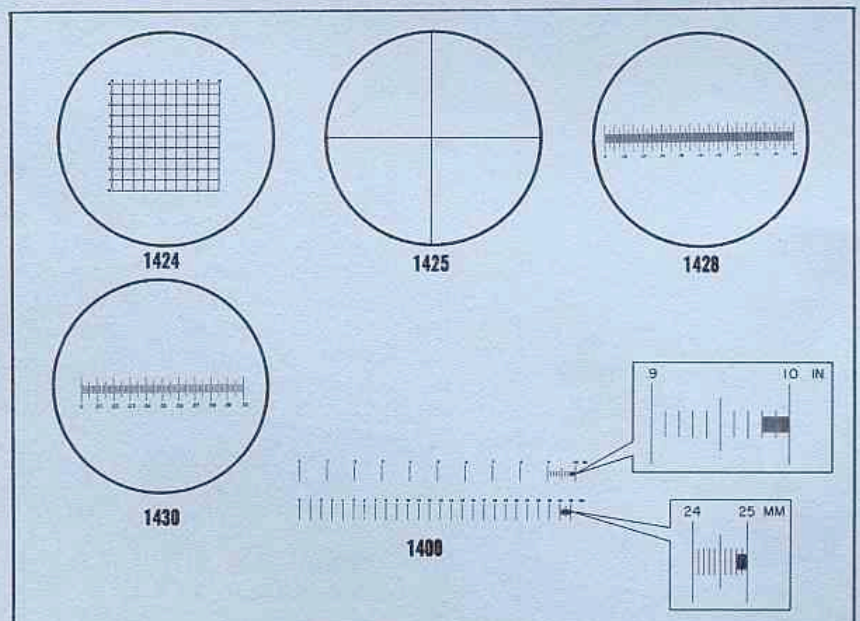
Model 566B-1

ALTERNATE PARTS & ACCESSORIES









#1400 Stage Micrometer should be used to precisely calibrate precalibrated Eyepiece Micrometer Discs Nos. 1426, 1428, 1429, 1430 when extreme accuracy (within 1%) is required. Must also be used to calibrate Nos. 1422, 1423, 1424 discs. Instructions are contained in Reference Manual 560-101 included with each StereoStar.

Catalog Number	Description	Unit Net Price Quantity 1 - 4*

Power Bodies

569	.7X to 3X Zoom Power Body "B"	$442.00
570	.7X to 4.2X Zoom Power Body "C"	535.00
571	Fixed Power Body 1X "D"	226.00
572	Fixed Power Body 2X "E"	226.00

(Above power bodies are insertable and rotatable within standard ring mounts of all microscope stands.)

Auxiliary Lenses

567	2X for use with 569	$ 45.00
574	1.5X for use with 570	46.00
575	.5X for use with 569, 570	45.00
576	1.25X for use with 570	46.00
577	2X for use with 570	56.00

Wide Field Eyepieces and Eyeshields

1134	10X (Pair) for 569, 571, 572	$ 70.00
1145	10X (Pair) for 570	70.00
1184	15X (Pair) for 569, 570, 571, 572	70.00
1186	25X (Pair) for 569, 570, 571, 572	91.00
185	Eyeshield (Single) for 1134, 1145	1.10
187	Eyeshield (Single) for 1184, 1186	1.10

(Eyeshields included with eyepieces at no extra charge — not deductible)

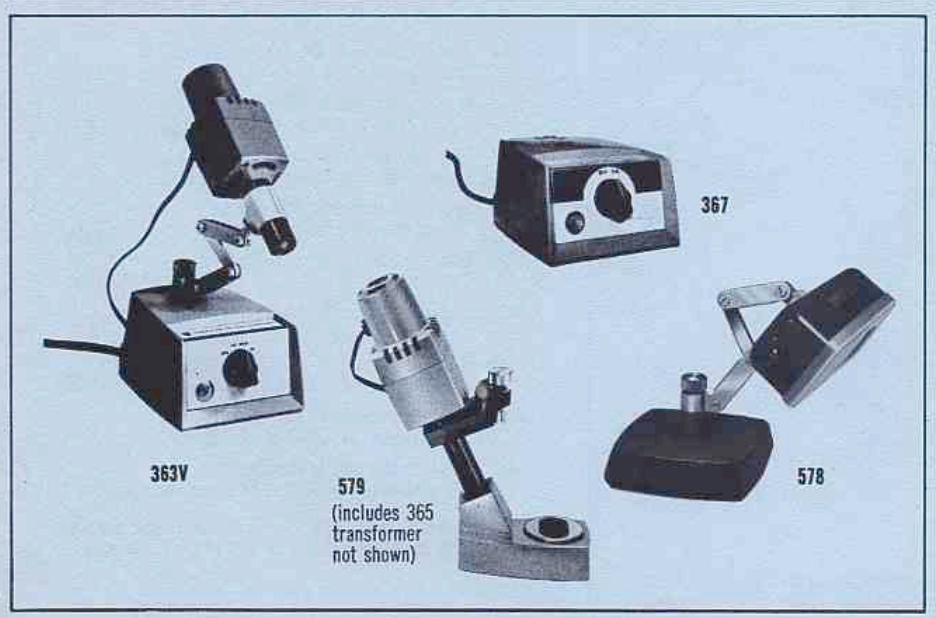
Measuring and Counting Accessories

1400	Stage Micrometer, English and Metric Scales mounted on 1" x 3" slide	$ 32.00
1422	Eyepiece Micrometer Disc Scale 5.0mm ruled to 0.1mm	13.00
1423	Eyepiece Micrometer Disc Scale 10.0mm ruled to 0.1mm	14.00
1424	Eyepiece Micrometer Disc Scale 10.0mm Square ruled to 1.0mm sq.	25.00
1425	Eyepiece Micrometer Disc Scale Crosshair	14.00
1426	Eyepiece Micrometer Disc Scale 150 divisions each .001" at 3X Zoom setting	14.00
1428	Eyepiece Micrometer Disc Scale 200 divisions ea. .001" at 2X Zoom setting	14.00
1429	Eyepiece Micrometer Disc Scale 100 divisions ea. .005" at 1X Zoom setting	14.00
1430	Eyepiece Micrometer Disc Scale 100 divisions ea. .001" at 4X Zoom setting	14.00

All Micrometer Discs are 20mm diameter and supplied in retaining cells. Not insertable into #1186 Eyepieces.

***DEDUCT 10% IN QUANTITY PURCHASE OF 5 OR MORE**





Catalog Number	Description	Unit Net Price Quantity 1 - 4*

Microscope Bases, Stands, Stages, Cabinet

560S	Basic Stand for Opaque Objects, black & white stage plates for 560, 561, 563	$ 99.00
561S	Transilluminating Substage Base, Mirror, Lens and Glass Plate for 560, 563	58.00
562A	Yoke and Pillar Focusing Unit with Post to fit competitive fixtures	103.00
562S	Yoke and Pillar Focusing Unit for 52S, 53S, 562, 563S, 566S	93.00
563S	Base Stage, Black/White Opaque Plates for 562, 563	53.00
566S	Base, Rack & Pinion for 562, 566	99.00
52S	Table Microscope Universal Stand for 562, 564	99.00
53S	Universal Microscope Stand for 562, 565	464.00
556	2" Extension Sleeve for 560, 562, 563	11.00
595	Stage Clip for 560, 563 not included with catalog outfits	1.00
596	Transparent Stage Glass for 561	3.30
597	Opaque Black & White Stage Plates for 560, 563	3.30
599	Objective Protection Window	13.00
1556	Ungraduated Mechanical Stage for 560, 561, 563	134.00
3012	Micro-Glide Stage for 560, 561, 563	51.00
1692	Case for StereoStar Models 560, 561, 563, 563 with 561. Not included with catalog outfits	45.00

Illuminators

363V	STARLITE 6.5V 2.75 amps. Illum. with Link and #365 Variable Transformer 115V 60C	57.00
363F	STARLITE 6.5V 2.75 amps. Illum. with Link and #367 Fixed Transformer 115 V 60 C	53.00
364	STARLITE 6.5V 2.75 amps. Illum. Same as 363V, 363F without Transformer	36.00
365	Variable Transformer 115V 60C for 363V, 364	21.00
365T	Variable Transformer 115V 60C for 364, 579 Three-Wire	30.00
367	Fixed Transformer 115V 60C for 363F	17.00
367C	Fixed Transformer 115V 60C for 363F Three-Wire	24.00
578	Fluorescent Illuminator with Link and Pedestal 115V, 60C	63.00
579	Vertical Illuminator with #365 Variable Transformer 115V 60C	150.00
1033	Replacement Lamp 6.5V 2.75 amp. (GE#1460) for 363V, 363F, 364, 579 Net	4.84

***DEDUCT 10% IN QUANTITY PURCHASE OF 5 OR MORE**

®T.M. Reg., American Optical Corporation

AO® American Optical
SCIENTIFIC INSTRUMENT DIVISION
BUFFALO, NY 14215

SB 560 PL ACC 8/75

Printed in U.S.A.

price list

Effective October 1, 1977

AO® STEREOSTAR®/ZOOM

STEREOSCOPIC MICROSCOPE

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Orders are subject to final acceptance by the Sales Office at Buffalo with the understanding that prices and terms prevailing at time of delivery will apply.

The equipment supplied may not agree in all details with our descriptions or illustrations because instruments are subject to modification and improvement.

Models 560, 561, 562, 564, 565, 566 StereoStars may be grouped in quantity of five or more to qualify for 10% maximum discount in second column.

SERIES 560

Catalog Number	Unit Net Price Quantity 1 - 4 List	Unit Net Price Quantity 5 or More 10%

Page 12



Model 560B-1

Series 560 STEREOSTAR ZOOM MICROSCOPES

560B-1	$620.00	$558.00
560B-2	620.00	558.00
560C-1	807.00	726.30
560C-2	807.00	726.30

Series 560 FIXED POWER STEREOSTAR MICROSCOPES

560D-1	$422.00	$379.80
560E-1	422.00	379.80

SERIES 561

Catalog Number	Unit Net Price Quantity 1 - 4 List	Unit Net Price Quantity 5 or More 10%

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Series 561 STEREOSTAR ZOOM MICROSCOPES

561B-1	$ 680.00	$ 612.00
561B-2	680.00	612.00
561B-D1	725.00	652.50
561C-1	867.00	780.30
561C-2	867.00	780.30
561C-D3	1015.00	913.50
561C-H1	930.00	837.00
561C-H3	1006.00	905.40



Model 561C-1
Illustrated with No. 363V Starlite Illuminator in base

SERIES 562

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Series 562 STEREOSTAR ZOOM MICROSCOPES

562B-1	$616.00	$554.40
562B-2	616.00	554.40
562C-1	803.00	722.70



Model 562D-1

Series 562 FIXED POWER STEREOSTAR MICROSCOPES

562D-1	$418.00	$376.20

AO® American Optical
SCIENTIFIC INSTRUMENT DIVISION
BUFFALO, NY 14215

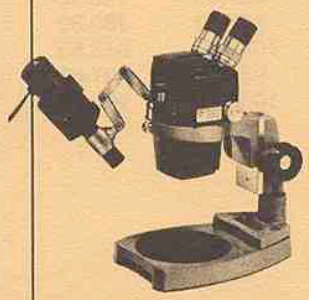
SERIES 563

Catalog Number	Unit Net Price Quantity 1 - 4 List	Unit Net Price Quantity 5 or More 10%

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Series 563 STEREOSTAR ZOOM MICROSCOPES

563B-1	$673.00	$605.70
563C-1	860.00	774.00
563C-D2	932.00	838.80



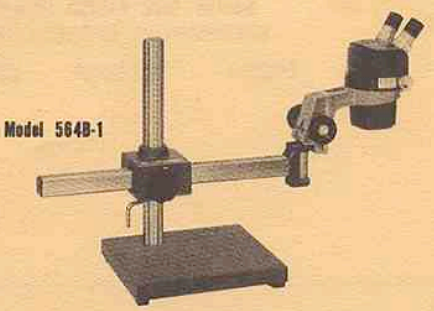
Model 563C-1
illustrated with No. 363V Starlite Illuminator on body

SERIES 564

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Series 564 STEREOSTAR ZOOM MICROSCOPES

564B-1	$ 723.00	$ 650.70
564B-2	723.00	650.70
564C-1	910.00	819.00
564C-2	910.00	819.00
564C-D2	982.00	883.80



Model 564B-1

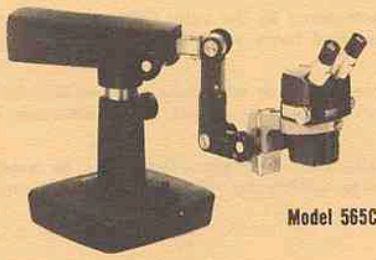
SERIES 565

Catalog Number	Unit Net Price Quantity 1 - 4 List	Unit Net Price Quantity 5 or More 10%

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Series 565 STEREOSTAR ZOOM MICROSCOPES

565B-1	$1273.00	$1145.70
565C-1	1460.00	1314.00
565C-2	1460.00	1314.00
565C-H3	1599.00	1439.10



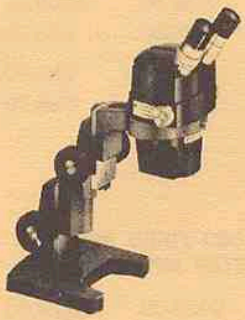
Model 565C-1

SERIES 566

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Series 566 STEREOSTAR ZOOM MICROSCOPES

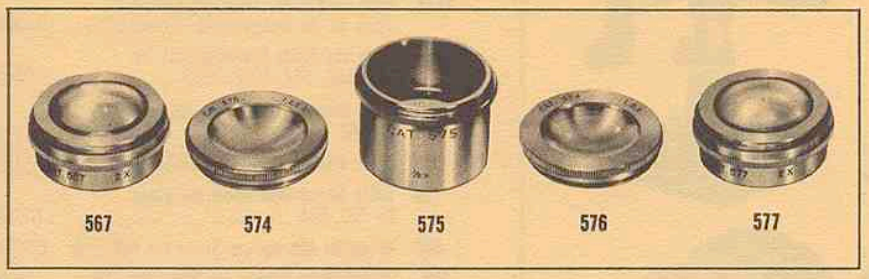
566B-1	$ 723.00	$ 650.70
566C-1	910.00	819.00
566C-2	910.00	819.00
566C-H3		

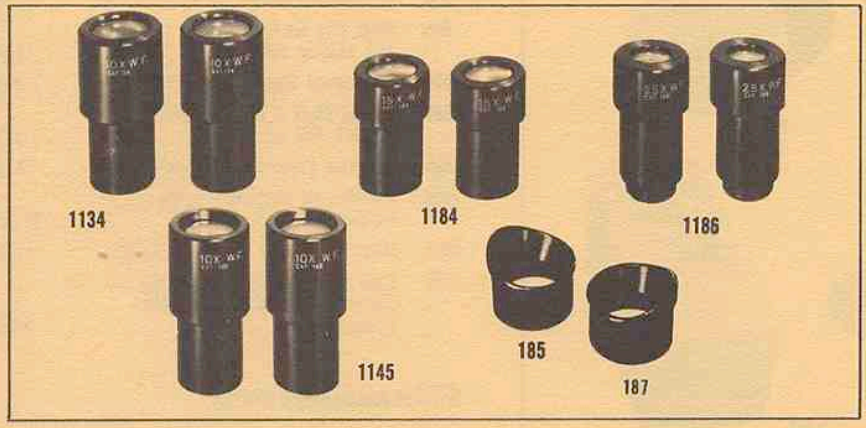


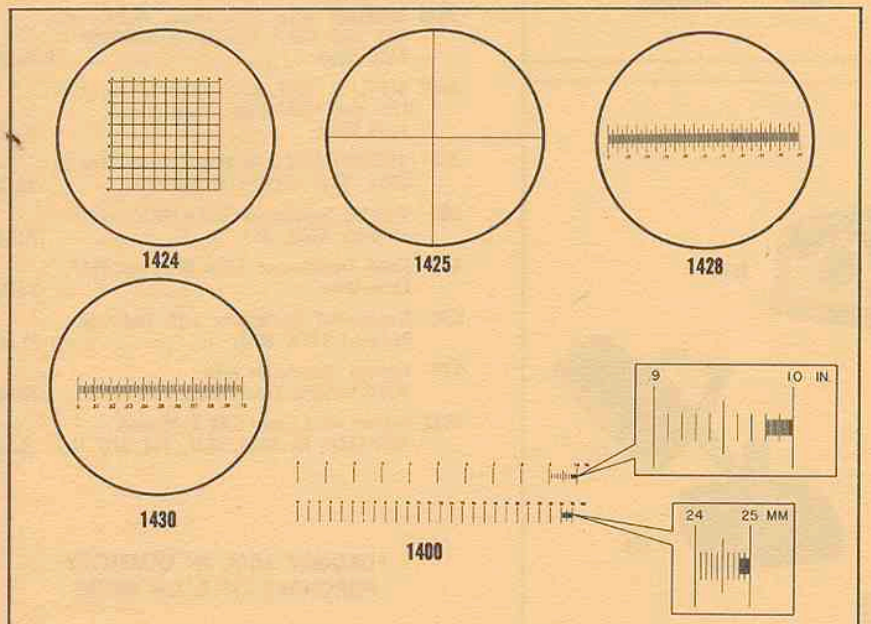
Model 566B-1

ALTERNATE PARTS & ACCESSORIES









#1400 Stage Micrometer should be used to precisely calibrate precalibrated Eyepiece Micrometer Discs Nos. 1426, 1428, 1429, 1430 when extreme accuracy (within 1%) is required. Must also be used to calibrate Nos. 1422, 1423, 1424 discs. Instructions are contained in Reference Manual 560-101 included with each StereoStar.

Catalog Number	Description	Unit Net Price Quantity 1 - 4*

Power Bodies

569	.7X to 3X Zoom Power Body "B"	$437.00
570	.7X to 4.2X Zoom Power Body "C"	624.00
571	Fixed Power Body 1X "D"	239.00
572	Fixed Power Body 2X "E"	239.00

(Above power bodies are insertable and rotatable within standard ring mounts of all microscope stands.)

Auxiliary Lenses

567	2X for use with 569	$ 45.00
574	1.5X for use with 570	63.00
575	.5X for use with 569, 570	50.00
576	1.25X for use with 570	50.00
577	2X for use with 570	72.00

Wide Field Eyepieces and Eyeshields

1134	10X (Pair) for 569, 571, 572	$ 76.00
1145	10X (Pair) for 570	76.00
1184	15X (Pair) for 569, 570, 571, 572	76.00
1186	25X (Pair) for 569, 570, 571, 572	98.00
185	Eyeshield (Single) for 1134, 1145	1.30
187	Eyeshield (Single) for 1184, 1186	1.30

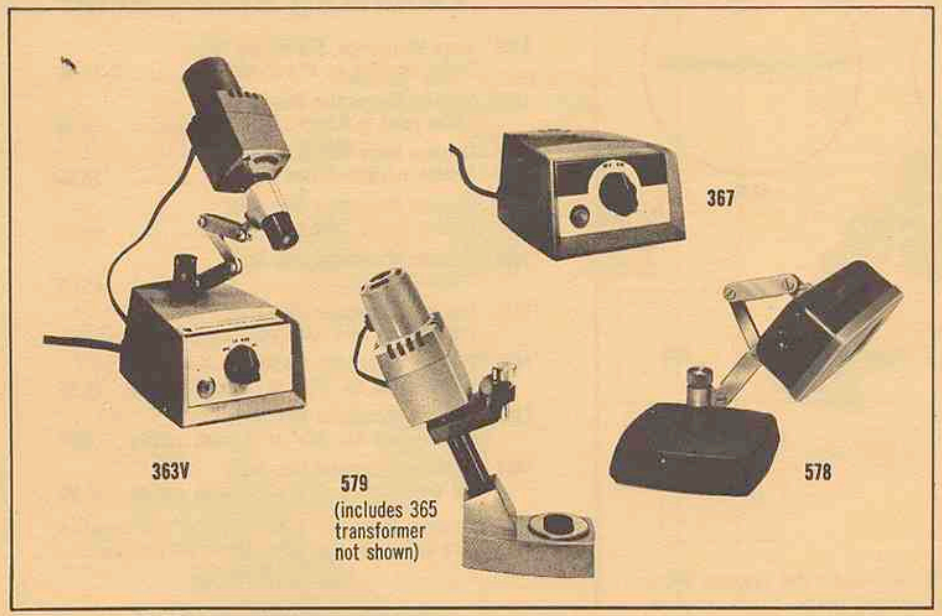
Measuring and Counting Accessories

1400	Stage Micrometer, English and Metric Scales mounted on 1" x 3" slide	$ 35.00
1422	Eyepiece Micrometer Disc Scale 5.0mm ruled to 0.1mm	15.00
1423	Eyepiece Micrometer Disc Scale 10.0mm ruled to 0.1mm	16.00
1424	Eyepiece Micrometer Disc Scale 10.0mm Square ruled to 1.0mm sq.	29.00
1425	Eyepiece Micrometer Disc Scale Crosshair	16.00
1426	Eyepiece Micrometer Disc Scale 150 divisions each .001" at 3X Zoom setting	16.00
1428	Eyepiece Micrometer Disc Scale 200 divisions ea. .001" at 2X Zoom setting	16.00
1429	Eyepiece Micrometer Disc Scale 100 divisions ea. .005" at 1X Zoom setting	16.00
1430	Eyepiece Micrometer Disc Scale 100 divisions ea. .001" at 4X Zoom setting	16.00

All Micrometer Discs are 20mm diameter and supplied in retaining cells. Not insertable into #1186 Eyepieces.

***DEDUCT 10% IN QUANTITY PURCHASE OF 5 OR MORE**





Catalog Number	Description	Unit Net Price Quantity 1 - 4*

Microscope Bases, Stands, Stages, Cabinet

560S	Basic Stand for Opaque Objects, black & white stage plates for 560, 561, 563	$107.00
561S	Transilluminating Substage Base, Mirror, Lens and Glass Plate for 560, 563	63.00
562A	Yoke and Pillar Focusing Unit with Post to fit competitive fixtures	103.00
562S	Yoke and Pillar Focusing Unit for 52S, 53S, 562, 563S, 566S	103.00
563S	Base Stage, Black/White Opaque Plates for 562, 563	57.00
566S	Base, Rack & Pinion for 562, 566	107.00
52S	Table Microscope Universal Stand for 562, 564	107.00
53S	Universal Microscope Stand for 562, 565	657.00
556	2" Extension Sleeve for 560, 562, 563	13.00
595	Stage Clip for 560, 563 not included with catalog outfits	1.10
596	Transparent Stage Glass for 561	3.60
597	Opaque Black & White Stage Plates for 560, 563	3.60
599	Objective Protection Window	14.00
1556	Ungraduated Mechanical Stage for 560, 561, 563	145.00
3012	Micro-Glide Stage for 560, 561, 563	55.00
1692	Case for StereoStar Models 560, 561, 563, 563 with 561. Not included with catalog outfits	50.00

Illuminators

363V	STARLITE 6.5V 2.75 amps. Illum. with Link and #365 Variable Transformer 115V 60Hz	$ 62.00
363F	STARLITE 6.5V 2.75 amps Illum. with Link and #367 Fixed Transformer 115V 60Hz	57.00
364	STARLITE 6.5V 2.75 amps. Illum. Same as 363V, 363F without Transformer	39.00
365	Variable Transformer 115V 60Hz, 3-wire cord for 363V, 364	23.00
367	Fixed Transformer 115V 60Hz for 363F, Three-Wire	18.00
578	Fluorescent Illuminator with Link and Pedestal 115V, 60Hz	74.00
579	Vertical Illuminator with #365 Variable Transformer 115V 60Hz	170.00
1033	Replacement Lamp 6.5V 2.75 amp. (GE#1460) for 363V, 363F, 364, 579 Net	5.50

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