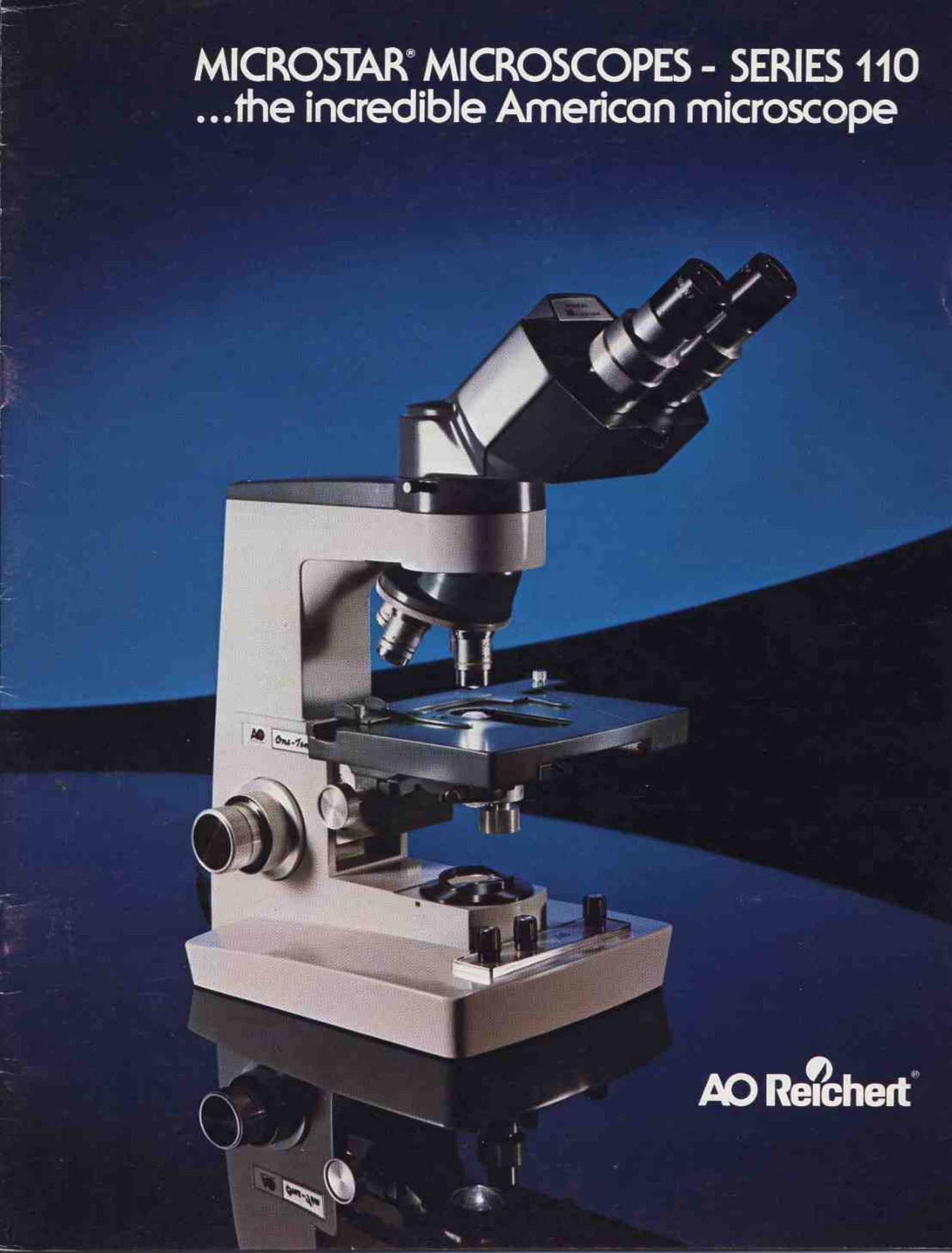
MICROSTAR® MICROSCOPES - SERIES 110
...the incredible American microscope



AO Reichert®

EVOLUTION OF THE AMERICAN MICROSCOPE ...nearly 150 years of craftsmanship & dependability

Charles A. Spencer was the first manufacturer of microscopes in America. Born in Lennox, N.Y. in 1813, he made his first lens when he was 12 years old.

He went into the business of making microscopes in 1838 advertising "Optical, Philosophical, Mathematical, Chemical and Other Instruments and Apparatus" including the American Reflecting Microscope and Compound Achromatic Microscope.

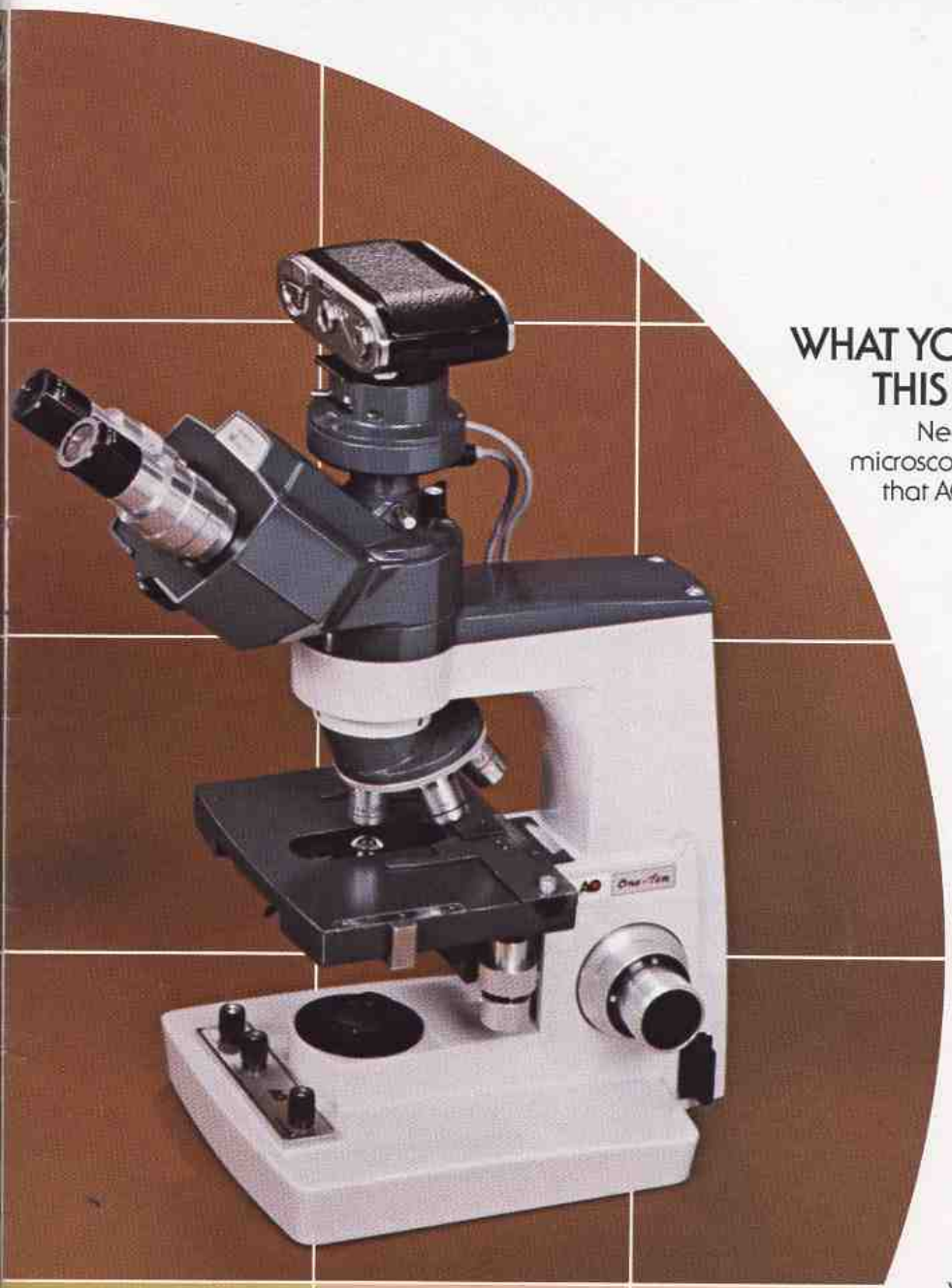
In 1843 he decided he could make a better microscope than any other produced in the world. And he did.

Spencer devoted his lifetime to the solving of optical problems, spending much time in theoretical and practical research to perfect and make a better microscope. His work was of the highest order and he was recognized as a man of outstanding accomplishment in the field of optics the world over. He was the incredible American.

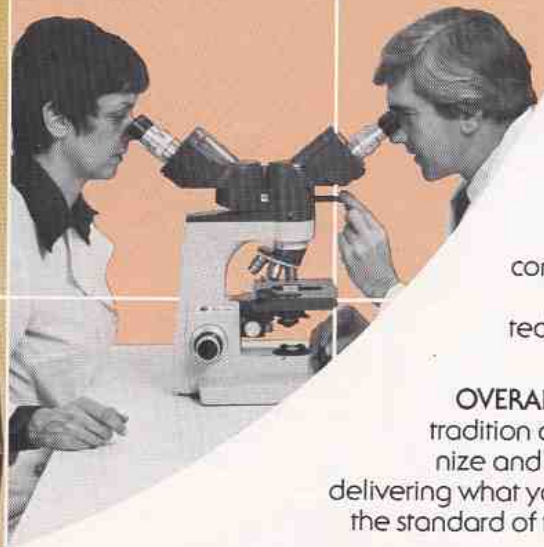
This is the heritage of AO Microscopes. A tradition that has been uninterrupted and maintained for nearly 150 years.

© AO Reichert Scientific Instruments 1983









WHAT YOU SHOULD KNOW ABOUT THIS INCREDIBLE MICROSCOPE

Nearly a century and a half of uninterrupted microscope production is unconditional testimony that AO instruments satisfy customer need for...

CRAFTSMANSHIP/DEPENDABILITY... Our dedication to American technology and knowhow since 1843 includes using only the highest quality materials and workmanship. Our skilled craftspeople produce microscopes which provide dependable day-in, day-out operation. There is no substitute for the experience that is part of each AO microscope.

OPTICAL PERFORMANCE... The performance of any microscope is only as good as its optical system. AO's exclusive Americote® optical coating and infinity corrected system mean superb image quality. There is a complete line of objectives, eyepieces and condensers to suit your every need.

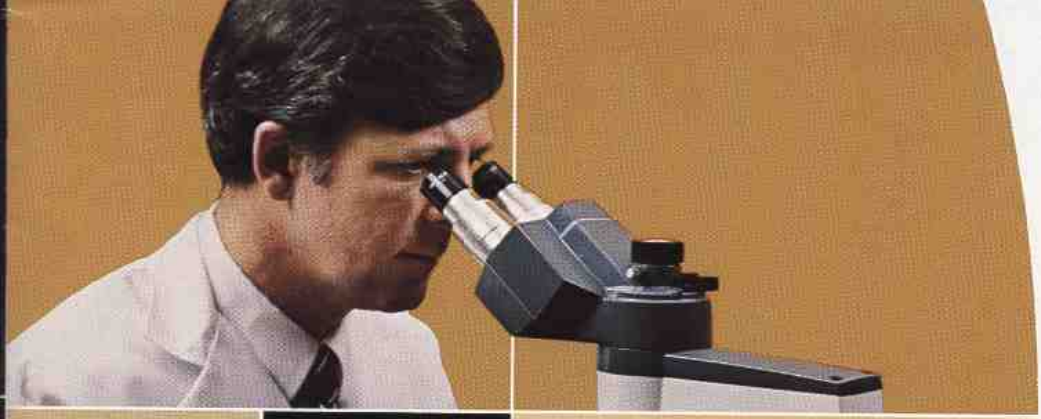
CONVENIENCE/EFFICIENCY... The AO Series 110 offers a unique combination of time saving features for increased productivity; low stage height for faster slide screening... low coaxial coarse and fine adjustment controls to eliminate unnecessary arm movement while focusing... converging eyetubes to reduce eye fatigue... fixed stage for exceptional image stability... details you'll appreciate as soon as you use the Series 110...

VERSATILITY... The modular design of the Series 110 permits a large selection of accessories. You order exactly what you want and need today, and then can add as you like at any time.

SERVICE... At AO, service means customer convenience and satisfaction. A complete network of national and local dealers plus one of the largest technical service organizations in the industry back up every instrument.

OVERALL VALUE... AO does not attempt to compromise a tradition of quality and craftsmanship. Our customers recognize and desire long term value and we pride ourselves on delivering what you want. That's why the AO Series 110 has become the standard of the laboratory and America's most popular clinical microscope.


40/.66
1309 U·S·A
100/1.25
PLAN ACHRO
4/.12
CAT. 1017













SUPERIOR OPTICAL PERFORMANCE

The production of a microscope objective demands many critical skills - from the selection of different kinds of glass to the most advanced production technologies. Since the performance of a microscope can only equal the integrity of its optical system, AO has always refused to compromise on the quality of materials or manufacturing processes. Every aspect of objective production is a basic, calculated step to optical excellence.

All objectives are parcentered and parfocal to minimize focusing procedures. They are also color coded, for quick positioning into the optical path.

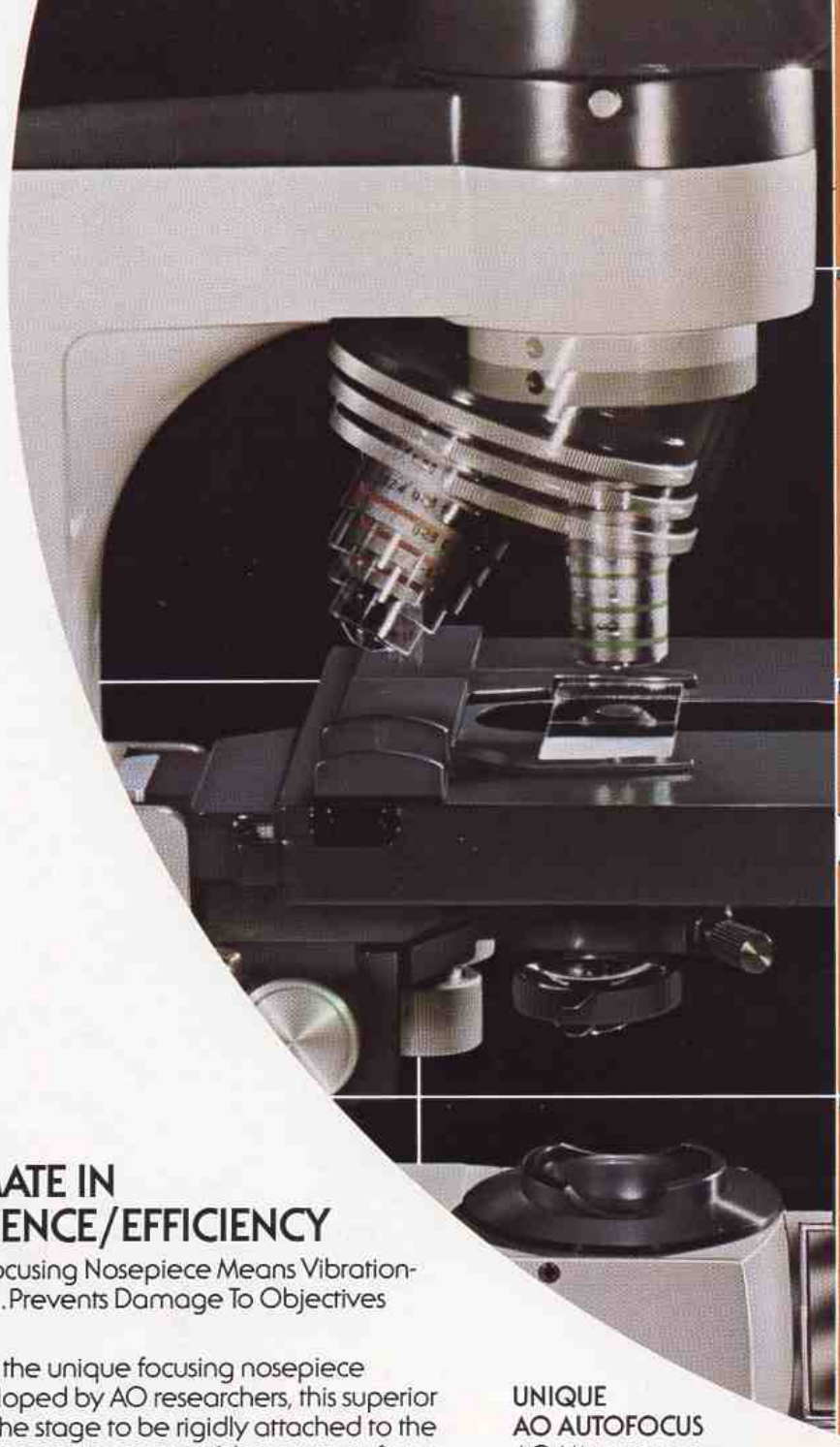
All essential air glass surfaces are Americote®, an AO coating process which decreases internal reflections, improves light transmission and image contrast.

Of utmost importance to the performance of the AO microscopes is the revolutionary concept of the focusing nosepiece - or infinity corrected optical system. This is an exclusive design which eliminates the necessity of a fixed distance between objective and eyepiece. And it is a major contribution to the ease with which AO instruments are used.

EXTRA WIDE FIELD VIEWING WITH EDGE TO EDGE IMAGE CRISPNESS

Wide Field Eyepieces provide a full 20mm field of view for quick scanning of larger specimen areas at one time. These eyepieces plus the Planachromatic objectives give flat field, edge to edge image crispness. The high eyepoint design assures comfortable use even with eyeglasses.

All Series One-Ten MICROSTAR Microscopes are equipped with an N.A. 1.25 condenser and iris diaphragm. A flip-top condenser is supplied on models equipped with 2.5X objective and a swing-in condenser is supplied on models equipped with 4X scanning objective. All other condensers and condenser mounts are interchangeable in the substage fork.



UNIQUE AO AUTOFOCUS



THE ULTIMATE IN CONVENIENCE/EFFICIENCY

Exclusive AO Focusing Nosepiece Means Vibration-Free Viewing...Prevents Damage To Objectives & Specimen

Only AO offers the unique focusing nosepiece concept. Developed by AO researchers, this superior design allows the stage to be rigidly attached to the stand while the nosepiece assembly moves to focus objective to specimen. The result is a stable, vibration-less system, free from the effects of hand pressure on the stage.

Coaxial coarse and fine adjustment controls are mounted low on the stand for comfortable, convenient operation.

The nosepiece is gravity loaded. There is no positive downward force. If the objective is accidentally lowered onto the slide, the nosepiece assembly can yield, avoiding objective or specimen damage. Movement of the nosepiece on a ball bearing slideway insures smooth, positive action, free from backlash.

Additionally, the objectives face away from the user for unobstructed access to the specimen.

UNIQUE AO AUTOFOCUS

AO Microscopes offer Autofocus stop to save you valuable focusing time. It's as easy as 1. Scan & locate field with low power objective; 2. Raise coarse adjustment, swing to oil immersion objective & apply oil; 3. Lower coarse adjustment to positive Autofocus stop. You will be in focus within a turn of the fine adjustment.

COMFORTABLY INCLINED, FULLY ROTATABLE, INTERCHANGEABLE BODIES

Select from interchangeable monocular, binocular or trinocular bodies. All are inclined a comfortable 50° and rotatable a full 360°.

Binocular and trinocular bodies feature converging eyetubes for comfortable viewing, even over extended







periods. The left eyetube is independently focusable to accommodate eye refraction differences. The eyetube separation is continuously adjustable from 54 to 72 mm to conform with individual interpupillary distances.

Constant tube length is maintained. Resultant magnification, field coverage, parfocalty and calibrated values of eyepiece micrometer scale remain constant despite changes in interpupillary settings.

The trinocular body incorporates a unique swing-out prism. All light can be diverted to either eyepieces, camera, or viewing screen.

A COMPLETE SELECTION OF STAGES Choose from simple or mechanical models. Mechanical stages are research type, graduated or ungraduated, for either right or left hand use. Controls are mounted low for maximum comfort and convenience. Maintenance free ball bearing slideways insure smooth operation. To avoid slide damage, spring loaded pinch grip stage fingers grasp sides rather than corners.

The stage can be lowered or raised quickly to accommodate specimens of varying thicknesses. However, once locked in place the stage becomes part of the stand. The stage mount is solid and totally immobile.

The substage fork includes two condenser mount centering screws. A rack and pinion control is used for positive condenser focusing. An added feature is the quick set condenser stop. Anytime the condenser is lowered it need only be raised to this positive stop to return to focus position.

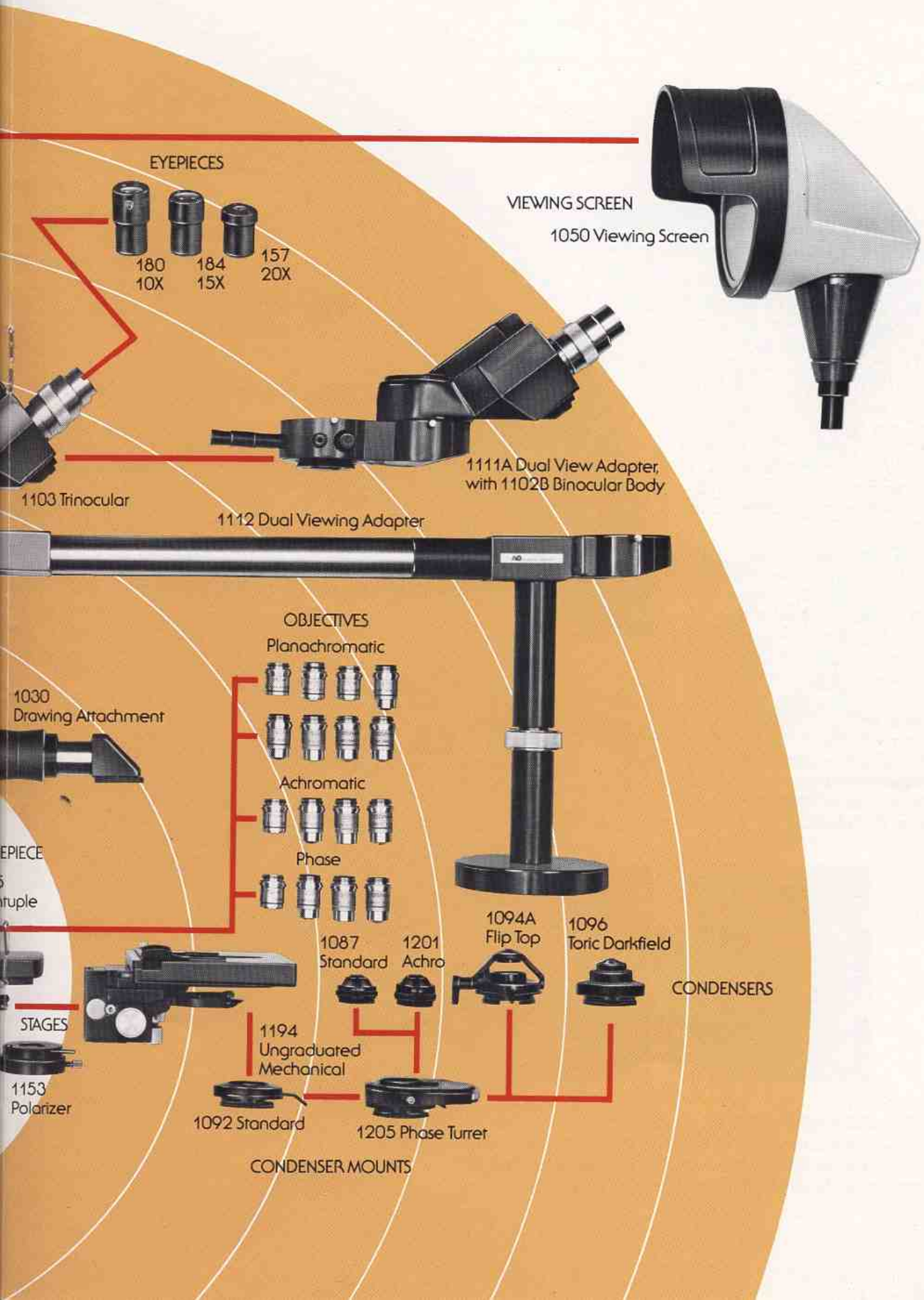
THE MOST ADVANCED LIGHT SOURCE The built-in illuminator (No. 1130A) offers many significant advantages over others. It features a clean burning, high color temperature 20W Tungsten Halogen lamp to give you longer lamp life and more light. It is a plug-in type, change it in seconds. Intensity control is solid state and continuously variable. Also has a built-in field diaphragm, 10% neutral density filter plus a fully corrected lens system.

UNEQUALLED VERSATILITY SO YOU CAN ORDER WHAT YOU NEED TODAY, ADD TOMORROW

The Series 110 MICROSTAR is an instrument of unequalled versatility. It is today's microscope for tomorrow's needs.

Order a Series 110 to meet your current requirements. Add single accessories or complete easy-to-order packages as future needs dictate. Even complete mode changes take only minutes, with no complicated alignments or adjustments, and AO offers the most complete selection of accessories in the clinical laboratory field.

When dual-view or multi-view is to be added, the stand is even wired with a socket in the base to permit a simple plug-in for the illuminated pointer.

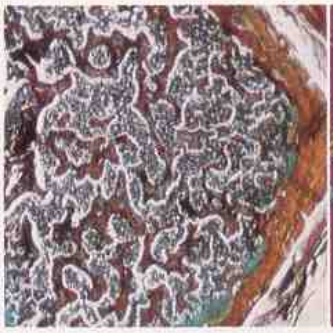

EYEPIECES
180
10X
184
15X
157
20X
VIEWING SCREEN
1050 Viewing Screen
1111A Dual View Adapter,
with 1102B Binocular Body
1103 Trinocular
1112 Dual Viewing Adapter
OBJECTIVES
Planachromatic
1030
Drawing Attachment
Achromatic
Phase
1094A
Flip Top
1096
Toric Darkfield
1087
Standard
1201
Achro
CONDENSERS
STAGES
1194
Ungraduated
Mechanical
1153
Polarizer
1092 Standard
1205 Phase Turret
CONDENSER MOUNTS

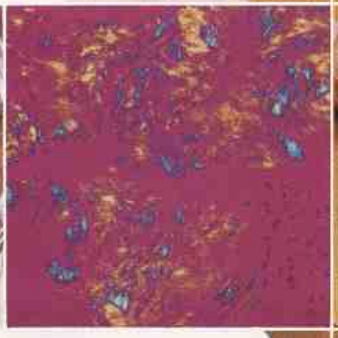
SUPERB PHOTOMICROGRAPHY

EXPOSTAR™ AUTOMATIC SHUTTER CONTROL

Get an excellent photomicrograph the first and every time. Nothing is left to chance. A unique electro-optical concept is employed for automating precise exposure control. The EXPOSTAR automatically integrates the light intensity and film reciprocity with time so that you can produce a quality photomicrograph with any type of AO camera system. Accommodates 35mm, 3¼" x 4¼" Polaroid, Kodak Instant and 4" x 5" Film Backs. Time and bulb settings included. ASA film speed range from 8 to 6400.

PHOTOSTAR™ Semi-Automatic Exposure Meter is equipped with a highly sensitive cadmium sulfide photo cell to assure a precise light intensity readout every time. The light sensor relays the light level of the in-focus specimen image to the control unit, where a reading is given on the meter. The outer hand wheel is rotated to match the meter reading and obtain proper exposure time. Exposure determinations from 1/125 seconds to one hour. ASA film speed range from 10 to 6400.





NON-AUTOMATIC SHUTTER: Desired exposure time quickly set with a dial on the shutter housing. Click the shutter for crisp, sharp photomicrographs in color or black and white. Compact design allows camera backs to be within easy reach.



CAMERAS

35MM CAMERA: An inexpensive camera offering two different magnifications, the 2.8X covers essentially the field seen through the 10X Wide Field eyepiece while the 5X covers approximately one half that diameter. Single adapter permits quick change-over from 2.8X to 5X, using same camera back. Resultant magnification at film plane equals objective magnification times camera magnification of 2.8X or 5X.

KODAK INSTANT FILM BACK: Adapts to all trinocular MICROSTAR Microscopes, providing speed and efficiency for photomicrography. Precision motor transports film through roller mechanism and automatically ejects high quality, finished print. Includes automatic film counter and dark slide.

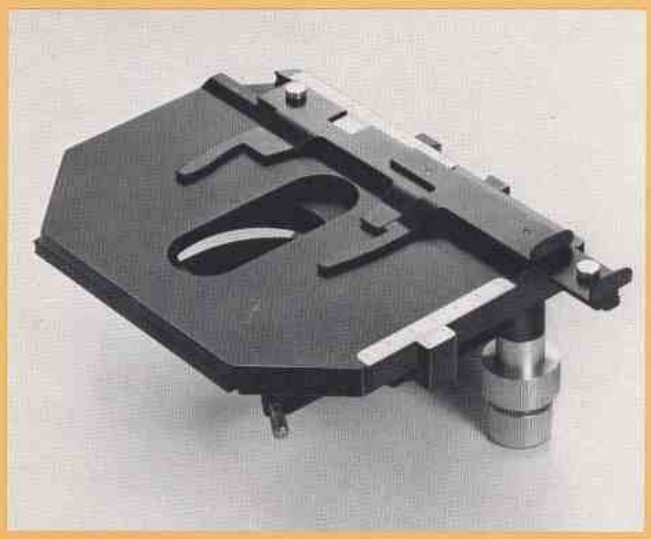
POLAROID LAND CAMERA: Simple to attach; easy to use. Just focus through microscope eyepieces. Resultant magnification is 7.5 times initial magnification of objectives. 3¼" x 4¼" prints are obtained in seconds from either black and white or color film.

CAMERA BACK ADAPTER: This 4" x 5" Adapter offers greater flexibility since it accepts cut film holders, #500, 545 Polaroid Land Film Holders* and Polaroid 4" x 5" pack Film Backs.

*not available through AO

Reichert™

NEW
NO. 1700
Orientation Stage





Fits all Series 110, 120 MICROSTAR® Microscopes

- **Stage Plate Rotatable 180° Allows Precise Orientation of Specimen. Especially Desirable in Photomicrography**
- **Graduated Mechanical**
- **Pinch-Grip Slide Holder Accepts Slide Quickly, Firmly without Risk of Chipping Corners**
- **Quick-Change Condenser Mount**

The new No. 1700 Orientation Stage provides excellent operational efficiency. Since Stage Plate is rotatable 180°, specimen may be easily positioned as required. This is particularly desirable in photomicrography and for gout/pseudo gout specimen testing.

Slides are mounted quickly within Pinch-Grip Slide Holder – which holds slides safely without risk of damaging.

The Quick-Change Condenser Mount allows Condenser to be removed and reinstalled without need to recenter.

The Substage Focus Clutch Mechanism prevents slide or condenser damage when focus reaches uppermost position.

No. 1700 Orientation Stage. . . . $697.00.
Series 120 MICROSTAR Model Equipped with No. 1700 Orientation Stage:

H120TR-J $4791

We've Changed Our Name from AO to Reichert

Reichert™

Reichert Scientific Instruments
Division of Warner-Lambert Technologies, Inc.
P.O. Box 123, Buffalo, New York 14240 U.S.A.
(716) 891-3000

SB1700 2/85

Printed in U.S.A.

MICROCOMMUNICATIONS THROUGH THE SERIES 110 MICROSTAR MICROSCOPE

DUAL VIEWING Choose compact or side-by-side model. An unequalled system for obtaining a second opinion, consultation and training. Both viewers see the same superb 20mm micro image - simultaneously. Best of all, AO Dual Viewing outfits include the Series One-Ten or One-Twenty MICROSTAR Microscope.

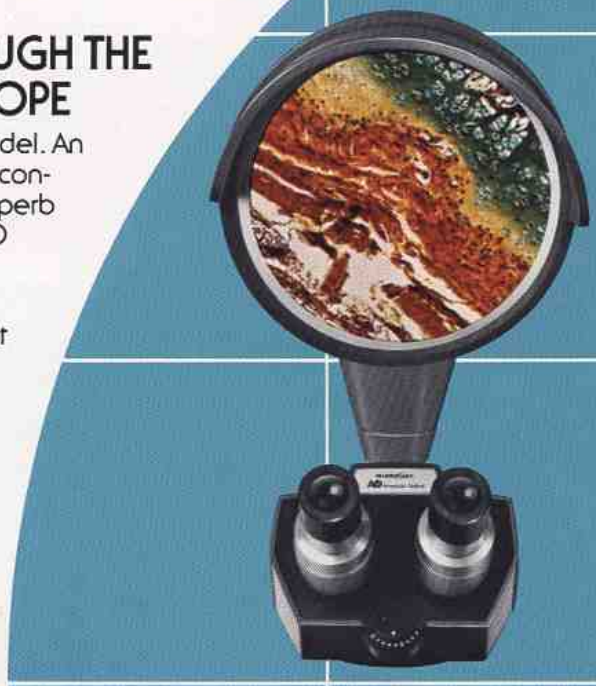
MULTI-VIEWING Multiple-Viewing is more convenient than ever using the Series One-Ten or One-Twenty MICROSTAR Microscope. Choose the exact system you need - three, four, five, up to 14 stations. Crisp imagery in the AO tradition is combined with a wide 20mm field of view. The 23" optical relay tubes assure ample room between stations for comfortable viewing. Outboard stations are securely supported by sturdy metal base and pillar for exceptional stability.

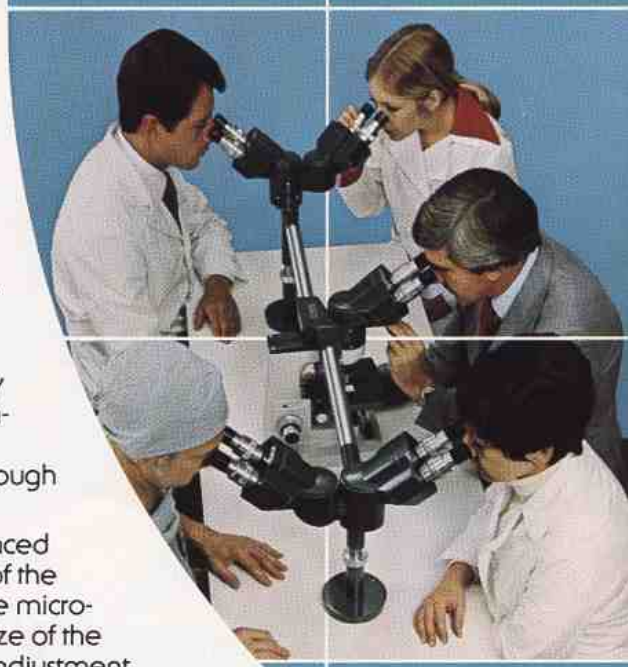
TV ADAPTERS Two AO TV adapters are available for use with AO laboratory microscopes and all standard "C" mount television cameras to transmit specimen images to a television screen.

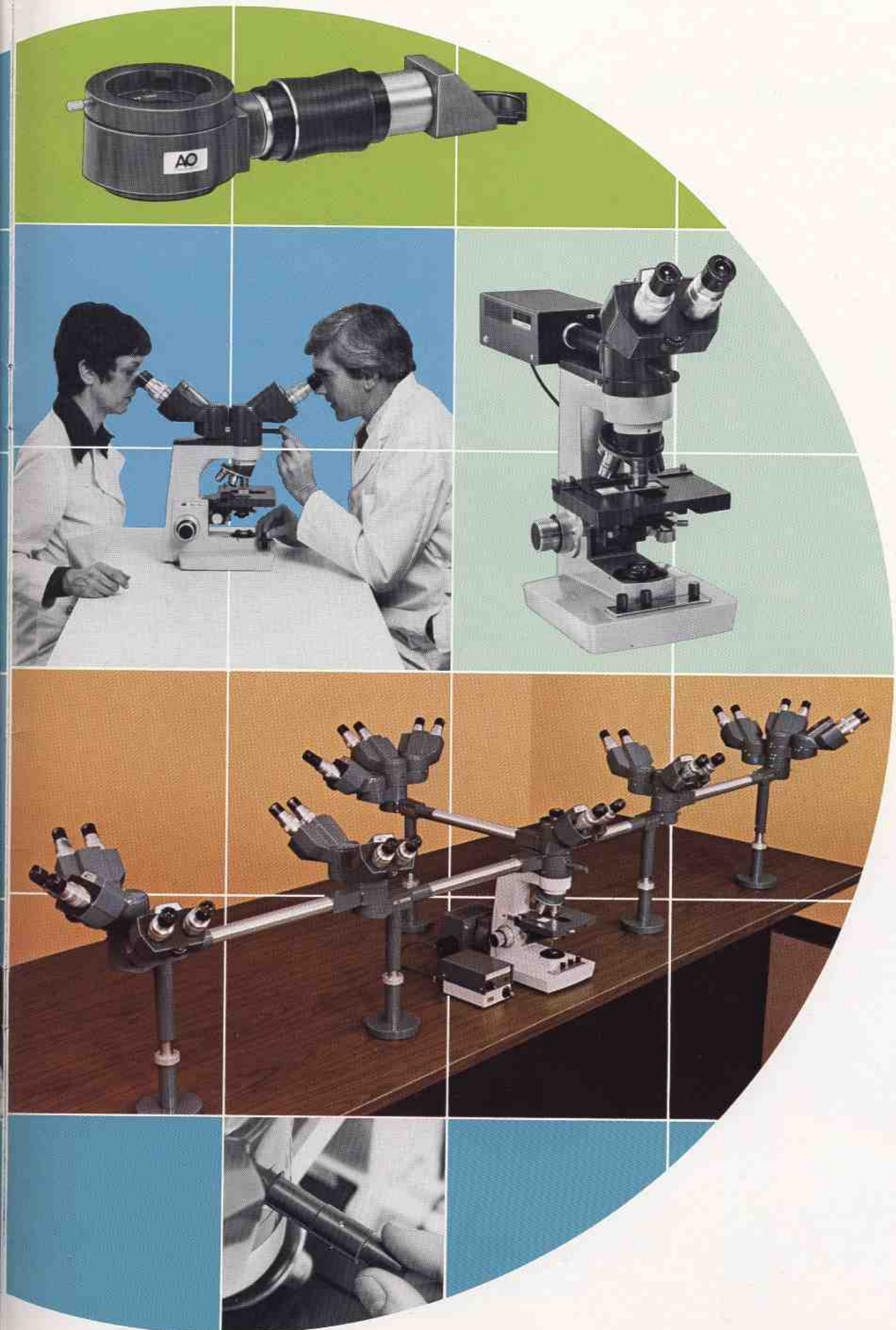
Either adapter permits one or more persons to view a specimen simultaneously on a single screen and/or other screens on the same closed TV system. This is particularly useful in hospitals, universities and other facilities with close circuit set-ups, as it allows for microcommunications throughout entire buildings or at scattered locations.

VIEWING SCREEN This 6" diameter screen makes small group discussion or consultation easier, more productive. Used with the trinocular body, it is readily interchangeable with cameras. Resultant magnification at screen plane is 7.5 times the initial objective magnification. Field of view is same as that seen through 10X Wide Field eyepiece.

DRAWING ATTACHMENT Microscope detail can be traced quickly and simply. The upright, unreversed image of the drawing surface is projected into the light path of the microscope and superimposed on the field of view. The size of the drawing area is continuously variable by 2:1 zoom adjustment. Includes occluder and green filter which are accommodated in swing-out holder.



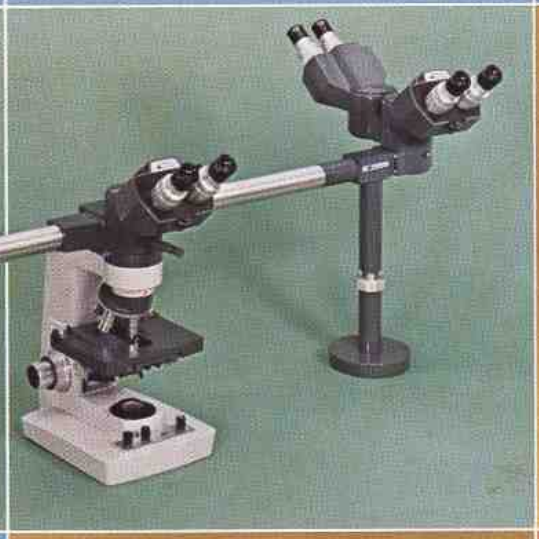


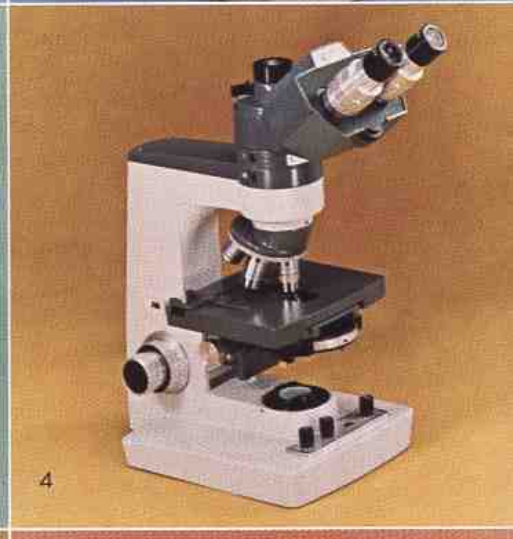

AO

MICROSCOPE MODELS TO MEET YOUR EXACTING NEEDS


1


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8


9


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Top Row

1. Education/General Lab	XH110BU-F
2. Research	H120TU-J

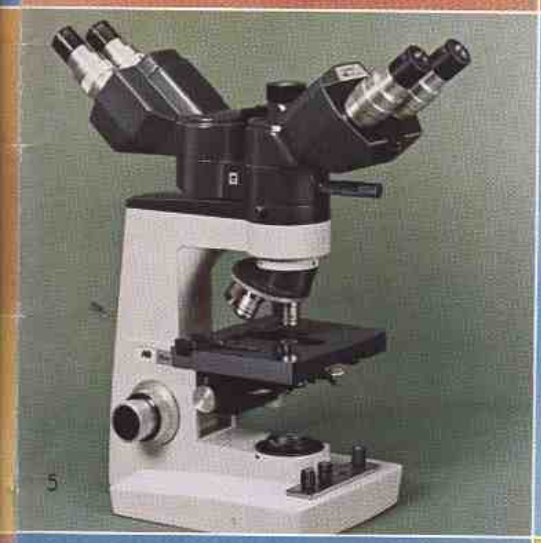
Middle Row

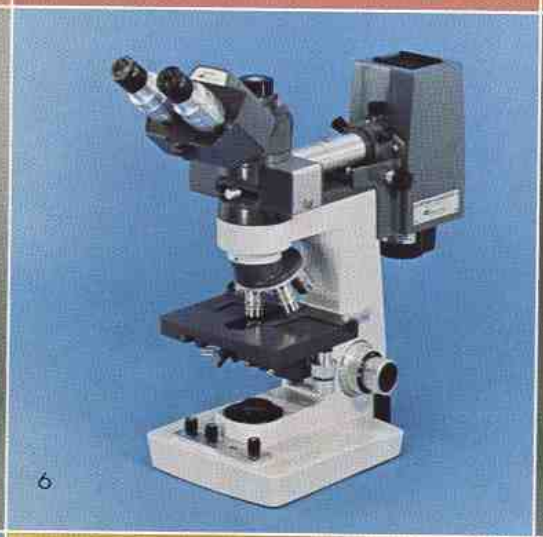
3. Multi-Viewing	AXH110BU-J
4. Phase	H110TU-PP4
5. Dual Viewing	DXH110TU-F
6. Fluorescence	H110TU-MVF5
7. Polarizing	H110TPOL-2

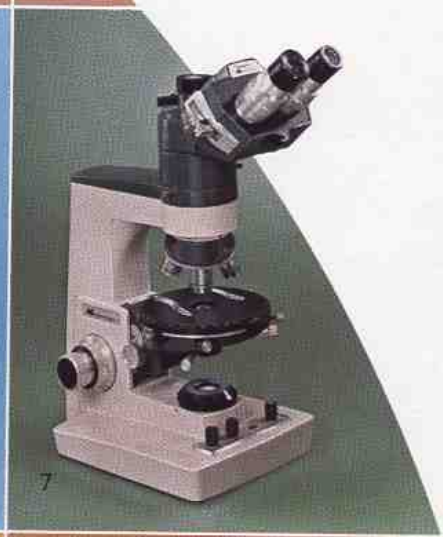
Bottom Row

8. Gout Testing	XH110BU-G
9. Bacteriology	H110BU-E
10. Pathology	H110BU-C
11. Hematology	H110BU-B
12. Cytology	XH110TU-J
13. Mold/Bacteria Counting	H110BU-HMC


2

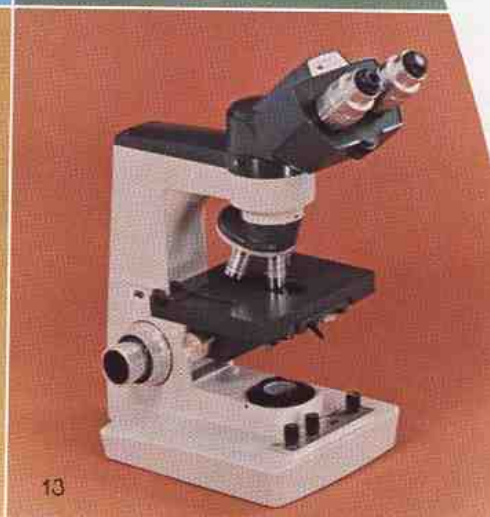

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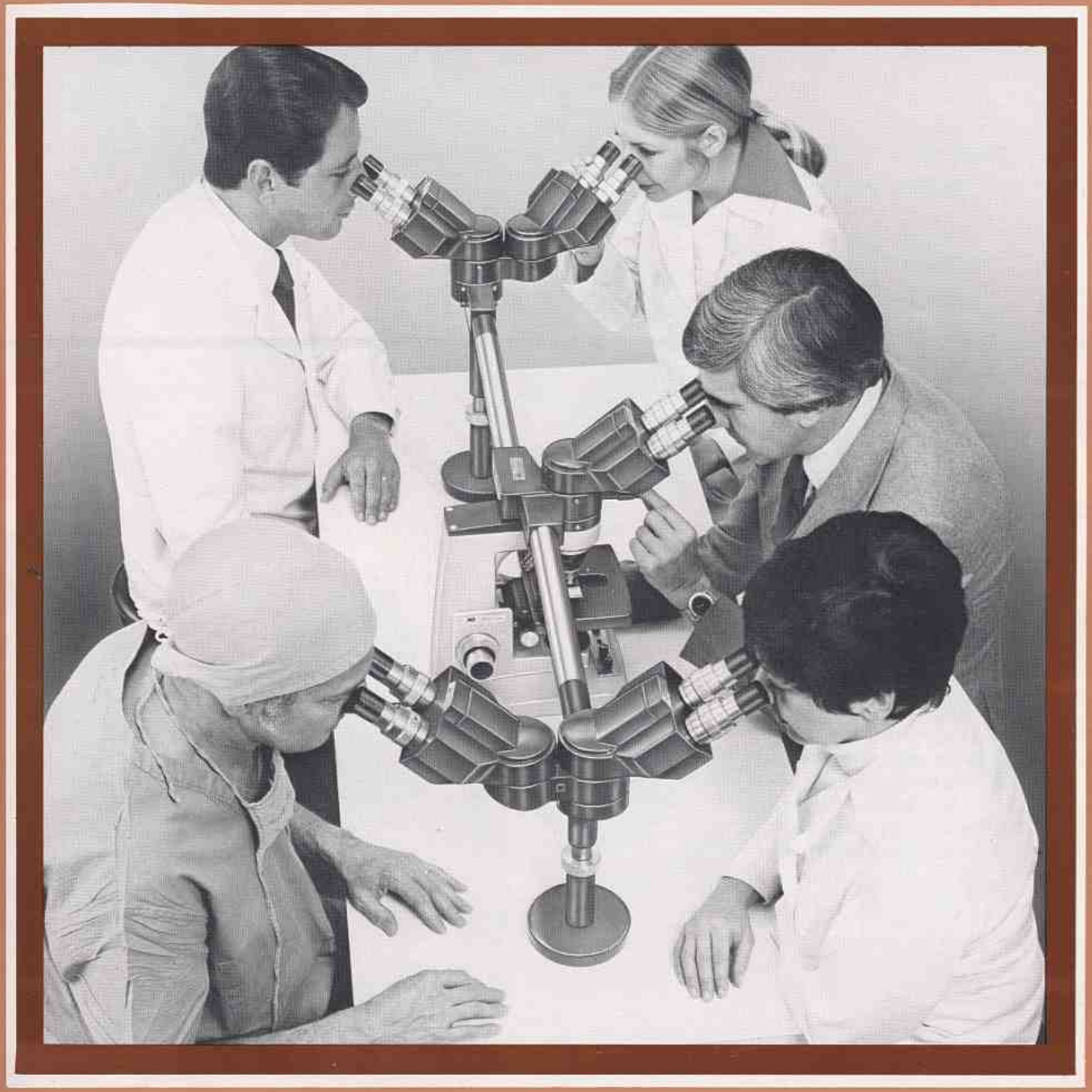

11


12


13

AO Reichert™

Dual Viewing and Multi-Viewing MICROSTAR® Microscopes



Dual Viewing

Convenient, Thorough, Time Saving

Choose compact or side-by-side model. An unequalled system for obtaining a second opinion, consultation and training. Both viewers see the same superb 20mm micro image—simultaneously. Best of all, AO Dual Viewing outfits include the Series One-Ten or One-Twenty MICROSTAR Microscope.



Multi-Viewing

Group Micro Communications

Multiple-Viewing is more convenient than ever using the Series One-Ten or One-Twenty MICROSTAR Microscope. Choose the exact system you need—three, four or five stations. Crisp imagery in the AO tradition is combined with a wide 20mm field of view. The 23" optical relay tubes assure ample room between stations for comfortable viewing. Outboard stations are securely supported by sturdy metal base and pillar for exceptional stability.



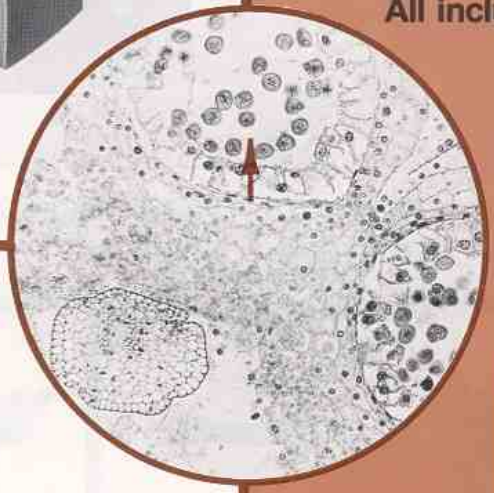
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All stations are rotatable 360° whether you choose a two, three, or up to fourteen station model



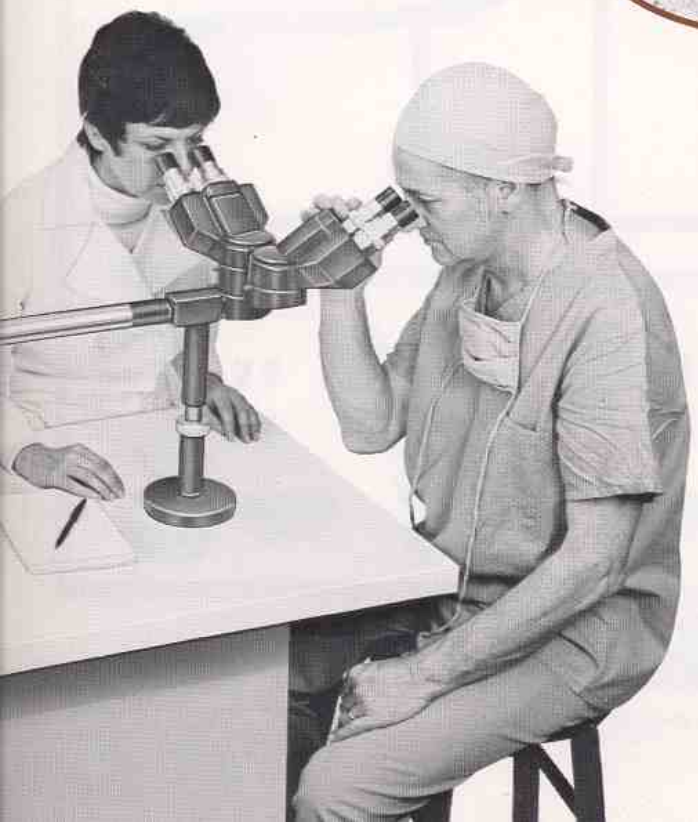




All include the illuminated movable pointer

Any specimen detail can be pinpointed immediately for all viewers. A convenient lever positions the projected green arrow anywhere in the field of view. The arrow is transparent and does not obscure any part of the specimen. Pilot light in the lever indicates when arrow is "on" or "off."





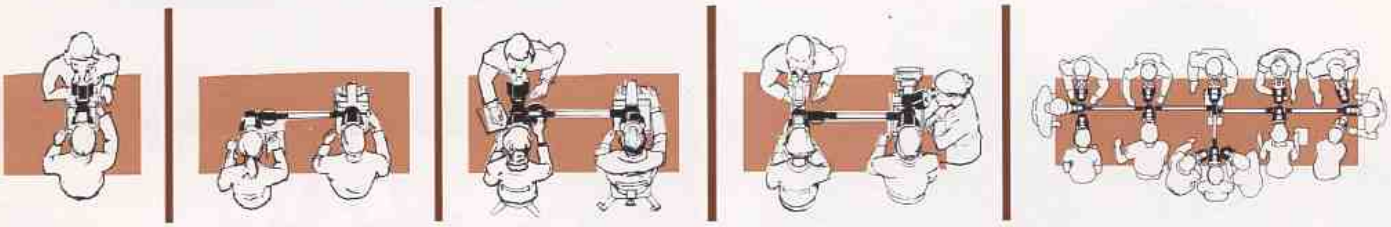


Standard power supply unit on H120 MICROSTAR Microscopes includes a separate, continuously variable control for illuminated arrow.



The Series H110 MICROSTAR Microscope features a convenient in-base receptacle for Dual Viewing/Multi-Viewing jack.

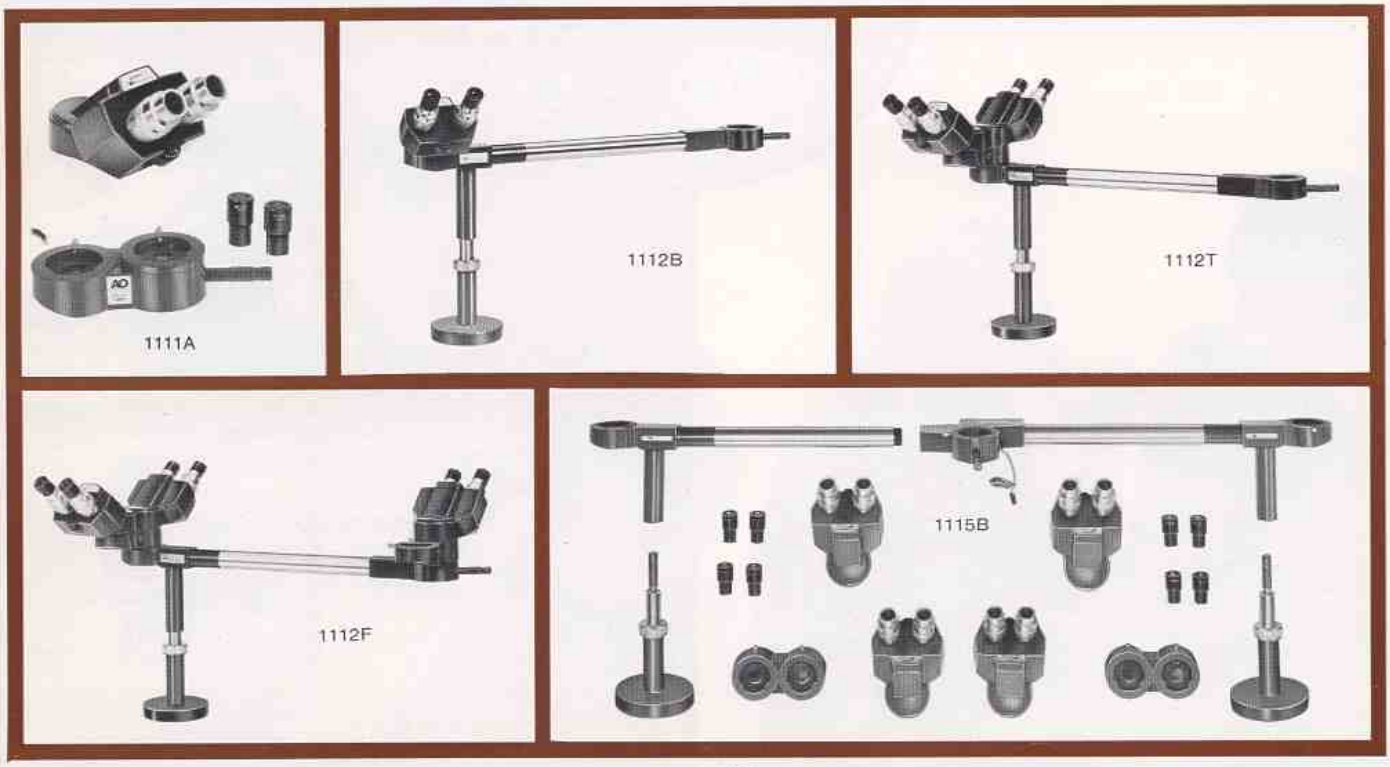
Effective micro communication for 2 to 14 stations



Select from complete Dual Viewing/Multi-Viewing models



. . . or convert your own Series H110, H120 MICROSTAR Microscope by adding Dual Viewing/Multi-Viewing Outfits



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(716) 891-3000

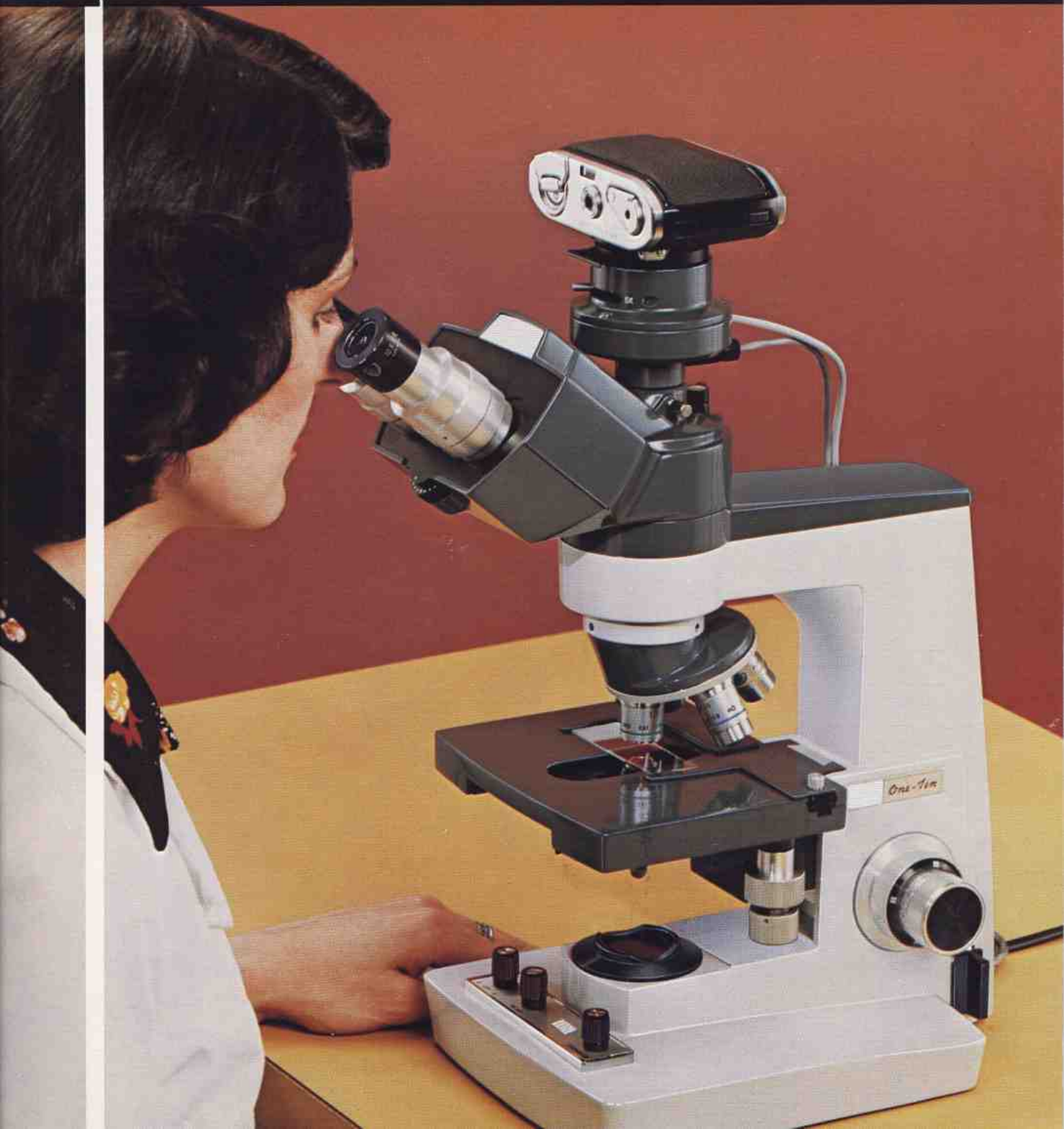
SB H110, H120 MV 3/84

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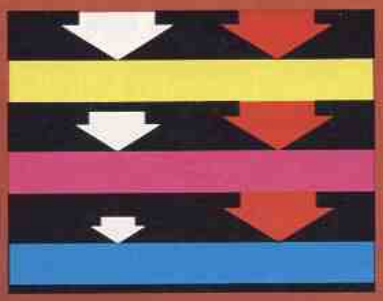
Reichert

PHOTOMICROGRAPHIC and VIEWING ACCESSORIES

for Series One-Ten and One-Twenty MICROSTAR® Microscopes



EXPOSTAR™
Fully Automatic Shutter Control

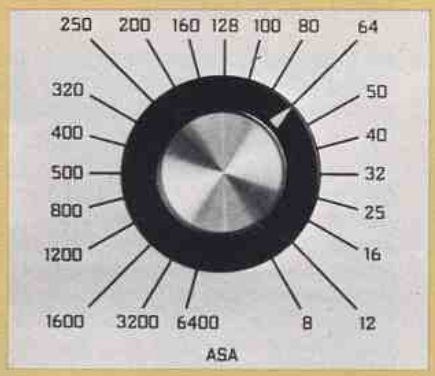


Arrows at left indicate problem of reciprocity failure. ☐ Arrows at right illustrate how compensation for reciprocity factor assures equal light intensity penetration through film emulsion layers.

Never before has it been possible to control all the factors necessary to assure ease and reliability in photomicrography. Reichert EXPOSTAR™ Control automatically integrates the light intensity and film reciprocity with time so that you can produce a quality photomicrograph with any type of Reichert camera system.

It eliminates the time consuming trial and error method of exposure determination that usually accompanies photography through the microscope.

The EXPOSTAR Control leaves nothing to chance. You will get an excellent photomicrograph the first time and every time you push the "expose" button. EXPOSTAR automatically integrates the light intensity and film reciprocity with time, so that extended exposure modes such as phase and fluorescence are no longer a problem. Even if light is interrupted or changed during exposure, EXPOSTAR Control will detect and correct for proper exposure...automatically.



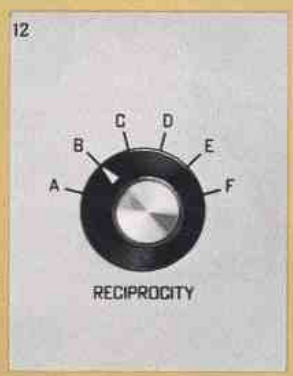
Set ASA for Film

Control provides ASA film speed range from 8 to 6400.



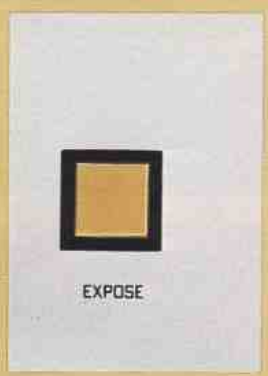
Select Format for Camera

Accommodates 35mm, 3¼" x 4¼", 4" x 5" and Kodak Instant camera backs. Time and Bulb settings are also included.



Adjust for Reciprocity

Predetermined recommended settings for various films are detailed in the reference manual.



Depress "Expose" Button

. . . and that's it. When exposure is completed, the light will turn off and shutter closes.

You will have a high quality photomicrograph that you know was properly exposed. To accommodate for differences in image brightness distribution of the specimen, a LIGHTEN/ DARKEN control is provided. It allows you adjustment of a ½ stop over or under normal exposure.

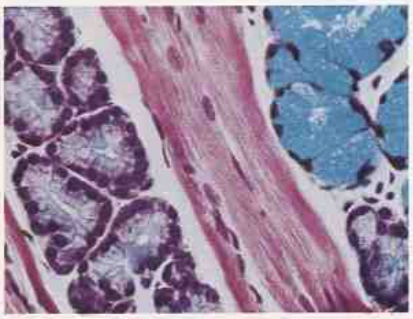
ELECTRICAL REQUIREMENTS
115-120V, 60 Hz, 3 wire grounded outlet.

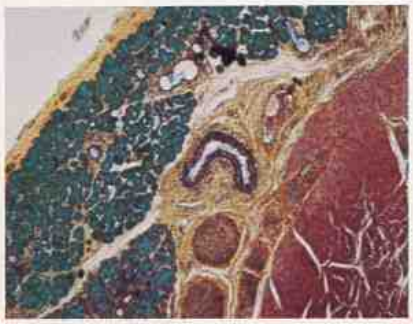




















CAMERA BACK SELECTION

All camera backs are completely interchangeable on the automatic, semi-automatic and manual shutter systems.

The Kodak Instant Camera Back: Produces excellent, color-consistent photographs in minutes. The motorized back automatically ejects a one-piece, hard and dry plastic-coated print. There is no paper to rip off and dispose of and no timing is required as the print develops fully by itself. It incorporates an automatic film counter, dark slide and built-in battery power (requires four AA-size batteries).

Polaroid Land Camera: It takes only seconds to get a high quality 3¼" x 4¼" print. Accepts all standard Polaroid color and black and white film packs. Photomicrographic magnification is 7.5 times that of objective.

35mm Camera: An inexpensive yet versatile camera capable of two magnifications. You get a crisp, clear photomicrograph either 2.8 or 5 times the initial power of the objective. When used on 2.8X setting, photographic field is approximately 15.5mm. At 5X, field is about half that diameter. Single adapter allows quick changeover between the two magnifications.

4" x 5" Camera Back Adapter: Accepts cut film holders, #500, #545 Polaroid Land Film Back,* or 4" x 5" Polaroid Pack Film Back*. Spring loaded clips permit quick mounting of chosen camera back. Magnification at film plane is 10 times that of objective.

*Not available through Reichert Scientific Instruments.

Manual Shutter

Extend the versatility of your Series One-Ten or One-Twenty MICRO-STAR® Microscope with one of these inexpensive camera outfits. Choose 35mm Camera Back, 3¼" x 4¼" Polaroid Land Camera Back, Kodak Instant Camera Back, or 4" x 5" Camera Back Adapter. Compact shutter and lens unit features 8 speed shutter, 2.8X and 5X magnification factors, and cable release.

Outfits include everything you need to take top quality photomicrographs with a minimum of effort.

Field of View Eyepiece: Eliminates out of focus conditions due to accommodation or refraction errors. Equipped with reticle having central focusing double lined cross, and framing marks indicating image area of specimen to be photographed. Can also be used for conventional viewing.



We've Changed Our Name from AO to Reichert

Reichert™

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Division of Warner-Lambert Technologies, Inc.
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(716) 891-3000

SB 1190-12/84

Printed in U.S.A.

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Your instrument investment is protected through the AO warranty plus a national network of regional Technical Service Centers and facilities staffed with trained personnel fully qualified and prepared to provide a total service support if and when you need it.



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213/980-7080

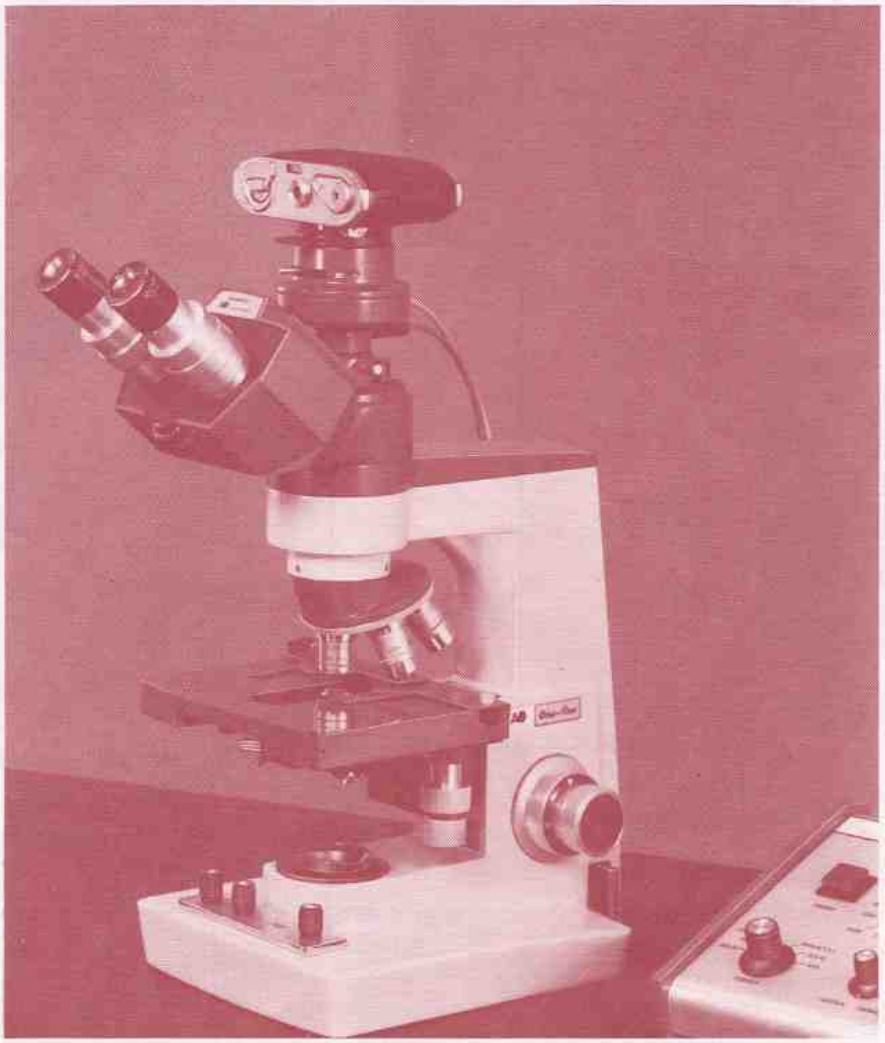
Box 123
Buffalo, New York 14240
716/891-3000

SB110 8/83
Printed in U.S.A.

PRICE LIST

EFFECTIVE MAY 1, 1983

For Series One-Ten MICROSTAR® Microscopes



AO Scientific Instruments
DIV. WARNER-LAMBERT TECHNOLOGIES
BOX 123, BUFFALO, NY 14240

Easy-to-follow code for Models 110T Trinocular and 110B Binocular MICROSTAR Microscopes equipped with Planachromatic Objectives

ILLUMINATOR	STAND, NOSEPIECE	BODY	STAGE	HYPHEN	PLANACHROMATIC OBJECTIVES, CONDENSER, WIDE FIELD EYEPIECES
 **H** **1130A** In-Base Transformer & Illuminator	**110**  Stand with Quintuple Nosepiece	 **T** **1103** Trinocular  **B** **1102** Binocular	 **U** **1194** Ungraduated Mechanical		**B** 1021 10X Objective 1016 50X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2) **E** 1021 10X Objective 1309 40X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2) **F** 1017 4X Objective 1021 10X Objective 1309 40X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1091 Auxiliary Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2) **J** 1017 4X Objective 1021 10X Objective 1022 20X Objective 1309 40X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1091 Auxiliary Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2) **S** 1021 10X Objective 1128 40X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2)

RECOMMENDED MODELS

PATHOLOGY
- H110BU-F
- H110BU-J
- H110TU-F
- H110TU-J

BACTERIOLOGY
- H110BU-E
- H110TU-E

CYTOLOGY
- H110BU-F
- H110BU-J
- H110TU-F
- H110TU-J

EDUCATION/GEN. LAB.
- H110BU-E
- H110BU-F
- H110BU-J
- H110TU-E
- H110TU-F
- H110TU-J

HEMACYTOMETERS
- H110BU-S
- H110TU-S

HEMATOLOGY
- H110BU-B
- H110BU-E
- H110TU-B
- H110TU-E



H110TU-J

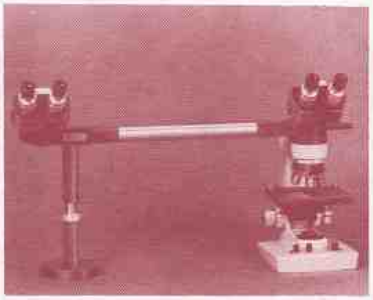


DH110BU-F

Catalog Number	Price
TRINOCULAR AND BINOCULAR MODELS EQUIPPED WITH PLANACHROMATIC OBJECTIVES	
TRINOCULAR	
H110TU-B	$2806.00
H110TU-E	2723.00
H110TU-F	2855.00
H110TU-J	3026.00
H110TU-S	2645.00
BINOCULAR	
H110BU-B	2702.00
H110BU-E	2619.00
H110BU-F	2751.00
H110BU-J	2922.00
H110BU-S	2541.00
***DUAL VIEWING**	
CH110TU-F	4519.00
DH110TU-F	4155.00
CH110BU-F	4415.00
DH110BU-F	4051.00

Microscope cabinets are not included; if desired see #1620.

*Prefix "C" denotes inclusion of #1112B Dual Viewing Outfit. See page 6.
Prefix "D" denotes inclusion of #1111B Dual Viewing Outfit. See page 6.
See page 5 for Multi-Viewing Models.



CH110BU-F



AXH110BU-J

*Prefix "A" denotes inclusion of #1115B Multi-Viewing Outfit. See page 6.
See brochure SBH110, H120 MV for complete specifications.

Catalog Number	Price
***MULTI-VIEWING**	
AH110TU-F	$8554.00
AH110BU-F	8450.00

Alternate Parts and Accessories

All essential optical surfaces of MICROSTAR Microscopes Series One-Ten as well as alternate parts and accessories are AMERICOTE . . . to decrease internal reflection, increase light transmission and improve contrast.



1028 1017 1021



1022 1309 1016 1311



1165



1041A



1102



1044



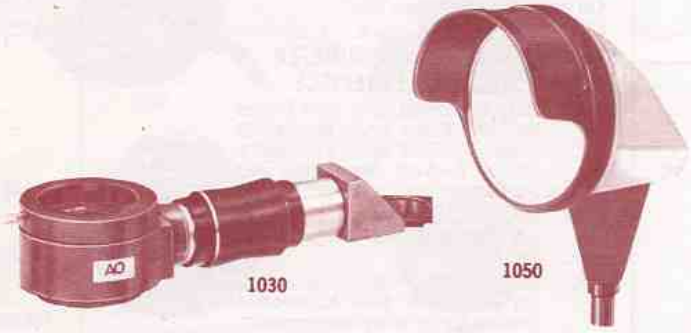
1103

Catalog Number	Description	Price
OBJECTIVES — INFINITY CORRECTED		
1028	2.5X, N.A. 0.07 Planachromatic	$161.00
1017	4X, N.A. 0.12 Planachromatic	99.00
1021	10X, N.A. 0.25 Planachromatic	146.00
1026	10X, N.A. 0.25 Achromatic	88.00
1022	20X, N.A. 0.50 Planachromatic	172.00
1309*	40X, N.A. 0.66 Planachromatic	286.00
1128*	40X, N.A. 0.66 Planachromatic	213.00
1866	40X, N.A. 0.55 Planachromatic (for use w/o cover glass)	500.00
1116	45X, N.A. 0.66 Achromatic	109.00
1016	50X, N.A. 0.80 Planachromatic w/ Iris Oil	369.00
1303	63X, N.A. 0.80 Semi Planachromatic	515.00
1079	100X, N.A. 1.25 Achromatic Oil	182.00
1311	100X, N.A. 1.25 Planachromatic Oil	406.00
1014	100X, N.A. 1.25 Planachromatic w/ Iris Oil	442.00
1867	100X (dry), N.A. 0.90 Planachromatic (for use w/o cover)	750.00
	* Specify 1128 rather than 1309 for hemacytometer applications.	
NOSEPIECE		
1165	Quintuple	104.00
BODIES		
1041A	Inclined Monocular "M"	338.00
1102	Binocular "B"	650.00
1102B	Binocular, having both eyetubes focusable. For use with 1111A, 1112, 1115, 1117	650.00
1103	Trinocular "T"	754.00
K2600	Trinocular Body with 80% light to photo, 20% to eye	875.00
1044	Vertical Tube for 1103, K2600	31.00











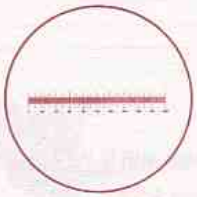
Catalog Number	Description	Price
	DUAL VIEWING AND MULTI-VIEWING	
1111A	Dual Viewing Adapter, Compact	$ 546.00
1111B	Dual Viewing Outfit, Compact. Includes 180 (2), 1102B, 1111	1300.00
1112	Dual Viewing Adapter, On-Side	910.00
1112B	Dual Viewing Outfit, On-Side. Includes 180 (2), 1102B, 1112	1664.00
1112T	Triple Viewing Outfit. Includes 180 (4), 1102B (2), 1112, 1117	2896.00
1112F	Quad Viewing Outfit. Includes 180 (6), 1102B (3), 1112, 1117 (2)	4129.00
1115	Multi-Viewing Adapter	1726.00
1115B	Multi-Viewing Outfit. Includes 180 (8), 1102B (4), 1115, 1117 (2)	5699.00
1117	Dual Viewing Adapter, Compact, without pointer, for 1115	478.00
634	Replacement Lamp, for Pointer of 1111, 1112, 1115	7.50
	DRAWING ATTACHMENTS	
1030	Drawing Attachment (6½" tube)	702.00
K2620	Drawing Attachment (10½" tube)	1100.00
	VIEWING SCREEN	
1050	Viewing Screen	338.00
	EYEPIECES — SINGLE	
	WIDE FIELD	
176A	10X AMERICOTE (For models with Achromatic Objectives)	52.00
180	10X AMERICOTE (For models with Planachromatic Objectives)	52.00
184	15X AMERICOTE	52.00
157	20X AMERICOTE	60.00
	HUYGENIAN	
C133	5X AMERICOTE	55.00
C142	10X AMERICOTE	45.00

TYPE 1



475, 1406A

TYPE 2



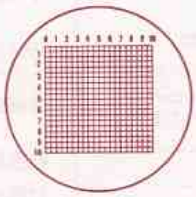
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TYPE 3



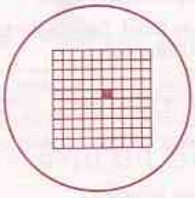
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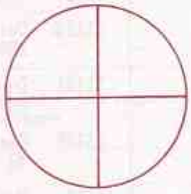
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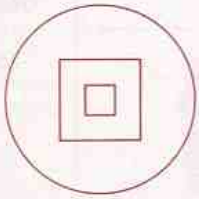
479, 416

TYPE 6



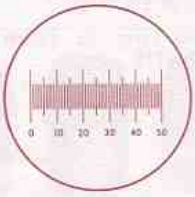
480, 1427, 427

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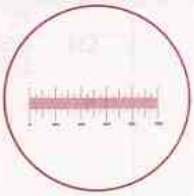
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TYPE 8



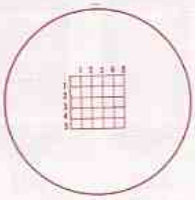
1405A, 405

TYPE 9



1410A, 410

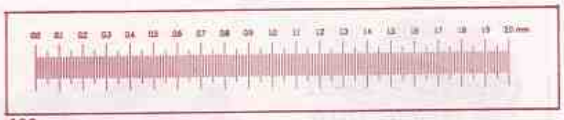
TYPE 10



1421A



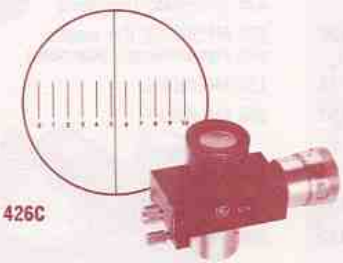
148



400



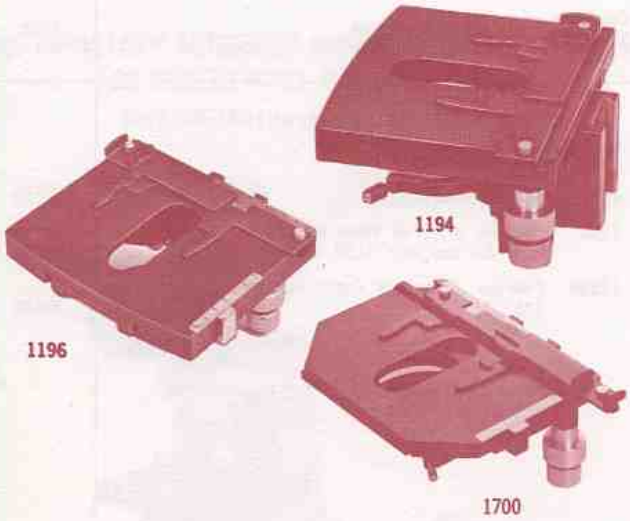
437

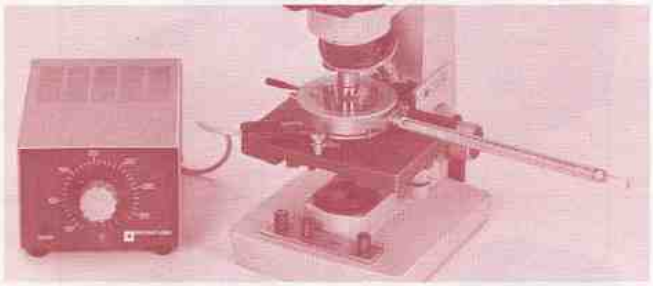


426C

Catalog Number	Description	Price
	MEASURING AND COUNTING ACCESSORIES	
	MICROMETER DISCS FOR NO. 180, 473 WIDE FIELD EYEPIECES (21.9mm DIAMETER)	
475	Micrometer Disc, Scale 10mm/100 Divisions. Type 1.	$ 41.00
476	Micrometer Disc, Scale 10mm/200 Divisions. Type 2.	50.00
477	Net Micrometer Disc, 10mm Square/ 100 Squares. Type 3.	44.00
478	Net Micrometer Disc, 10mm Square/ 400 Squares. Type 4.	46.00
479	Whipple Disc. Type 5.	50.00
480	Cross Hair Disc. Type 6.	40.00
481	Miller Disc. Type 7.	35.00
K2628	Bull's Eye Reticle*	125.00
	MICROMETER DISCS FOR NO. 184, 157 WIDE FIELD EYEPIECES (20.0mm DIAMETER)	
1405A	Micrometer Disc, Scale 5mm/50 Units. Type 8.	37.00
1406A	Micrometer Disc, Scale 10mm/100 Units. Type 1.	37.00
1407A	Micrometer Disc, Scale 10mm/200 Units. Type 2.	47.00
1408A	Net Micrometer Disc, 10mm Square/ 100 Squares. Type 3.	42.00
1409A	Net Micrometer Disc, 10mm Square/ 400 Squares. Type 4.	42.00
1410A	Micrometer Disc, Scale 5mm/100 Units. Type 9.	42.00
1421A	Net Micrometer Disc, 5mm Square/ 25 Units. Type 10.	42.00
1427	Cross Hair Disc. Type 6.	37.00
148	Micrometer Disc Mount.	4.00
K2628	Bull's Eye Reticle*	125.00
	MICROMETER DISCS FOR HUYGENIAN EYEPIECES (21.0mm DIAMETER)	
405	Micrometer Disc, Scale 5mm/50 Units. Type 8.	42.00
410	Micrometer Disc, Scale 5mm/100 Units. Type 9.	46.00
416	Whipple Disc. Type 5.	50.00
427	Cross Hair Disc. Type 6.	37.00
	STAGE MICROMETER, MICROMETER EYEPIECE, FOCUSABLE EYEPIECE	
400	Stage Micrometer 2mm Scale Divided into 200 .01mm Units. Mounted on 25mm X 75mm Slide. For Calibration of Eyepiece Micrometer Discs and Fields of View.	64.00
424B	10X Filar Micrometer Eyepiece, English scale, with #429 Eyepiece Tube Adjuster.	369.00
424C	10X Filar Micrometer Eyepiece, English Scale, with #430 Magnification Compensator including spanner wrench.	458.00
426B	10X Filar Micrometer Eyepiece, Metric Scale, with #429 Eyepiece Tube Adapter.	369.00
426C	10X Filar Micrometer Eyepiece, Metric Scale, with #430 Magnification Compensator including spanner wrench.	458.00
437	10X W.F. Eyepiece with Focusable Eyelens. Accepts above 20mm Diameter Eyepiece Discs.	94.00
473	10X W.F. Eyepiece with Focusable Eyelens. Accepts above 21.9mm Diameter Eyepiece Discs.	94.00
K1848	15X W.F. Eyepiece with Focusable Eyelens. Accepts above 20mm Diameter Eyepiece Discs.	180.00

* Supply eyepiece catalog number when ordering K2628.





K2636 Hot Stage (shown installed)



1087



1091



1092



1094A



1096



1201

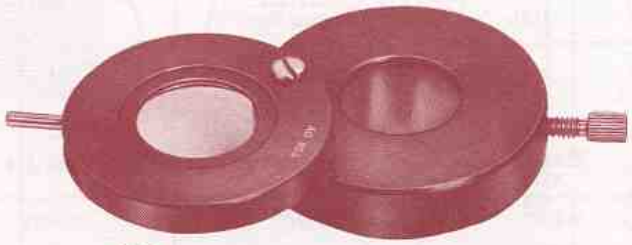


1620

Catalog Number	Description	Price
STAGES		
1194	Ungraduated Mechanical Stage "U" R.H.	$307.00
1195	Ungraduated Mechanical Stage "U" L.H.	307.00
1196	Graduated Mechanical Stage "G" R.H.	390.00
1197	Graduated Mechanical Stage "G" L.H.	390.00
1198	Simple Stage with Clips	229.00
1700	Graduated Orientation Stage	697.00
1882	Circular, Graduated Rotatable Stage with Clips	780.00
K2571	Thin stage fingers for 1194* (for cytology applications)	60.00
K2572	Thin stage fingers for 1195* (for cytology applications)	60.00
K2636	Hot Stage for use with 1194 Mechanical Stage; range +50° to 350°C. Installation included.	2200.00
K2655	Biotherm Biological warming stage for use with 1194 Mechanical Stage; range 35 to 40°C. Installation included.	775.00
	*Can be substituted for standard stage fingers at no extra charge when purchasing entire stage.	
CONDENSERS AND CONDENSER MOUNTS		
1087	Abbe Condenser, N.A. 1.25 for objectives 4X through 100X with 1091	57.00
1087S	Abbe Condenser, (strain-free) N.A. 1.25 for objectives 4X through 100X with 1091S; for use with 1153B	62.00
1094A	Flip Top Condenser, N.A. 1.25 for objectives 2.5X through 100X	182.00
1201	Achromatic — Aplanatic Condenser, N.A. 90 for objectives 2.5X through 100X with 1091	125.00
1091	Auxiliary Swing-In Condenser "X" for 1087, 1201	33.00
1091S	Auxiliary Swing-In Condenser "X" (strain-free) for 1087, 1201; for use with 1153B	38.00
1092	Condenser Mount for 1087, 1087S, 1099, 1201, 2110	40.00
1096	Darkfield Condenser	286.00
1099	Wide Field Condenser; for use with objectives from 2.5X to 40X inclusive	88.00
2110	Achromatic/Aplanatic Condenser, N.A. 1.30. Recommended for photomicrography	364.00
K2310	Dry Darkfield Condenser for objectives 10-45X.	250.00
CABINET		
1620	Deluxe Cabinet	94.00

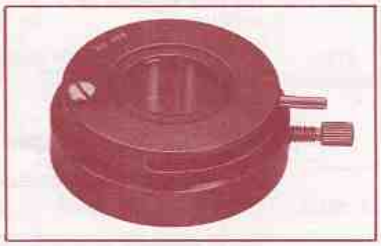


1152



1153
With Full
Wave Plate
Out

1153
With Full
Wave Plate
In





1130



1139



1141

Catalog Number	Description	Price
	POLARIZING ACCESSORIES	
1152	Analyzer Turret	$198.00
1153	Polarizer with Full Wave Retardation Plate for use with 1130 Illuminator	198.00
1153B	Polarizer / Analyzer Outfit. Includes 1152, 1153	396.00
	NOTE: Above accessories should be used in conjunction with 1087S condenser.	
	ILLUMINATORS AND MIRROR ASSEMBLY	
1130	In-Base Transformer and Tungsten Halogen Illuminator "H". 115V, 60Hz for Binocular and Trinocular Models.	302.00
1130E	Same as 1130, but for 220V, 50Hz	338.00
1139	In-Base Illuminator, On-off type	94.00
1141	Plano-Concave Mirror Assembly	73.00
611	Replacement Lamp 15W, 115V for 1139, 1140	4.00
1120	Replacement Lamp, 20W, 6V, Tungsten Halogen for 1130, 1130E	7.00

AO EXPOSTAR™ AUTOMATIC CAMERA OUTFITS AND ACCESSORIES FOR MODELS H110T MICROSTAR MICROSCOPES

See EXPOSTAR Literature SB1190 for further details.





1053F
EXPOSTAR Automatic Camera Outfit



*#1055 is illustrated with cut film, plate holder. Also accepts Polaroid #500, 545 . . . not available thru AO.

Catalog Number	Description	Price
1052F	Polaroid® Camera Outfit consisting of 1052 3¼" x 4¼" Camera Back and Adapter, 1054A Field of View Eyepiece, 1190 EXPOSTAR® Control Unit, 1191 EXPOSTAR Shutter and Lens Assembly	$1997.00
1053F	35mm Camera Outfit consisting of 1053 35mm Camera Back, 1054A Field of View Eyepiece, 1190 EXPOSTAR Control Unit, 1191 EXPOSTAR Shutter and Lens Assembly	1950.00
1055F	4" x 5" Camera Back Adapter Outfit consisting of 1054A Field of View Eyepiece, 1055 4" x 5" Camera Back Adapter, 1190 EXPOSTAR Control Unit, 1191 EXPOSTAR Shutter and Lens Assembly	1934.00
1058F	Kodak Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece, 1058 Kodak Instant Camera Back and Adapter, 1190 EXPOSTAR Control Unit, 1191 EXPOSTAR Shutter and Lens Assembly	2085.00
1080F	Polaroid Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece, 1080 Polaroid Instant Camera Back, 1190 EXPOSTAR Control Unit, 1191 EXPOSTAR Shutter and Lens Assembly	2085.00
1052	3¼" x 4¼" Film Pack Polaroid Land Camera Back, Magnification factor 7.5X	307.00
1053	35mm Camera Back. Magnification factors 2.8X, 5X.	260.00
1054A	Field of View Focusing Eyepiece.	114.00
1055	4" x 5" Camera Back Adapter. Magnification factor 10X. Accepts 4" x 5" Cut Film Holders and Polaroid #500 or #545 Camera Back (#500, 545 not supplied by AO)	244.00
1058	Kodak Instant Camera Back and Adapter	395.00
1080	Polaroid Instant Camera Back	395.00
1190	EXPOSTAR Control Unit (115-120V 60 Hz).	1035.00
1191	EXPOSTAR Shutter 2.8X and 5X Lens Assembly, Photocell and Cords.	541.00

PHOTOGRAPHIC FILTERS (34.5mm dia.)

500	Clear Blue Filter	10.00
506	Green Filter	10.00
509	Didymium Filter	16.00
512	Daylight Color Balancing Filter	15.00
513	Tungsten Color Balancing Filter	15.00

AO PHOTOSTAR™ SEMI-AUTOMATIC CAMERA OUTFITS AND ACCESSORIES FOR MODELS H110T MICROSTAR MICROSCOPES

See literature SB1190 for further details.

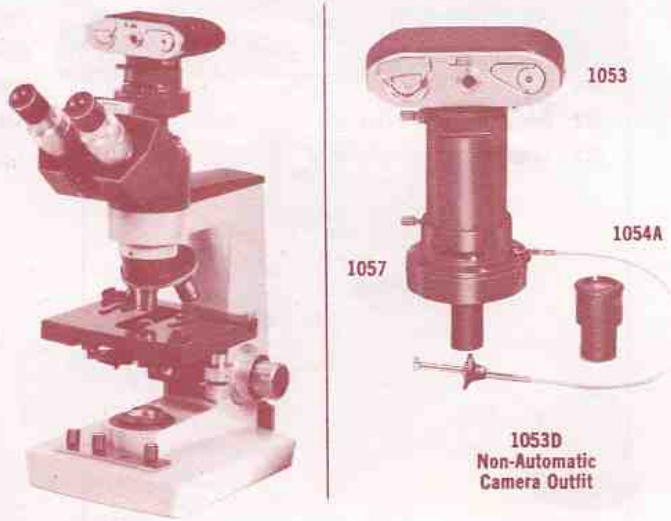


1053E
PHOTOSTAR Semi-Automatic Camera Outfit

Catalog Number	Description	Price
1052E	Polaroid Camera Outfit consisting of 1052 3¼" x 4¼" Camera Back and Adapter 1054A Field of View Eyepiece 1066 PHOTOSTAR® Exposure Meter 1067 PHOTOSTAR Shutter Assembly	$1253.00
1053E	35mm Camera Outfit consisting of 1053 35mm Camera Back 1054A Field of View Eyepiece 1066 PHOTOSTAR Exposure Meter 1067 PHOTOSTAR Shutter Assembly	1206.00
1055E	4" x 5" Camera Back Adapter Outfit consisting of 1054A Field of View Eyepiece 1055 4" x 5" Camera Back Adapter 1066 PHOTOSTAR Exposure Meter 1067 PHOTOSTAR Shutter Assembly	1191.00
1058E	Kodak Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1058 Kodak Instant Camera Back and Adapter 1066 PHOTOSTAR Exposure Meter 1067 PHOTOSTAR Shutter Assembly	1342.00
1080E	Polaroid Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1080 Polaroid Instant Camera Back 1066 PHOTOSTAR Exposure Meter 1067 PHOTOSTAR Shutter Assembly	1342.00
1052	3¼" x 4¼" Film Pack Polaroid Land Camera Back, Magnification factor 7.5X	307.00
1053	35mm Camera Back. Magnification factors 2.8X, 5X.	260.00
1055	4" x 5" Camera Back Adapter. Magnification factor 10X. Accepts 4" x 5" Cut Film Holders and Polaroid #500 or #545 Camera Back (#500, 545 not supplied by AO)	244.00
1058	Kodak Instant Camera Back and Adapter	395.00
1080	Polaroid Instant Camera Back	395.00
1054A	Field of View Focusing Eyepiece.	114.00
1066	PHOTOSTAR Exposure Meter.	364.00
1067	Shutter, Cable, 2.8X and 5X Lens Assembly, Photocell and Cord.	468.00

AO NON-AUTOMATIC CAMERAS AND ACCESSORIES FOR MODELS H110T MICROSTAR MICROSCOPES

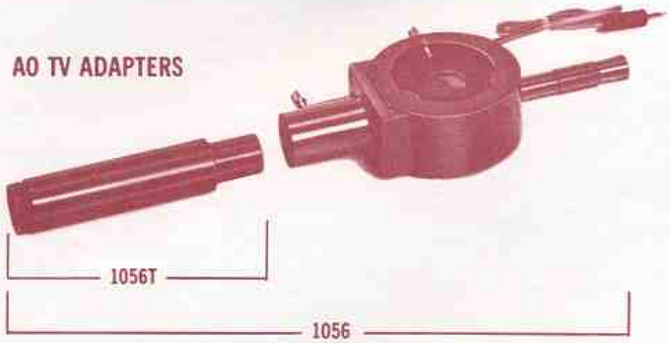
See literature SB1190 for further details.



1053D
Non-Automatic
Camera Outfit

1052D	Polaroid Camera Outfit consisting of 1052 3¼" x 4¼" Camera Back and Adapter 1054A Field of View Eyepiece 1057 Shutter Assembly	806.00
1053D	35mm Camera Outfit consisting of 1053 35mm Camera Back 1054A Field of View Eyepiece 1057 Shutter Assembly	759.00
1055D	4" x 5" Camera Back Adapter Outfit consisting of 1054A Field of View Eyepiece 1055 4" x 5" Camera Back Adapter 1057 Shutter Assembly	744.00
1058D	Kodak Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1057 Shutter Assembly 1058 Kodak Instant Camera Back and Adapter	894.00
1080D	Polaroid Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1057 Shutter 1080 Polaroid Instant Camera Back	894.00
1052	3¼" x 4¼" Film Pack Polaroid Land Camera Back, Magnification factor 7.5X	307.00
1053	35mm Camera Back.	260.00
1055	4" x 5" Camera Back Adapter. Magnification factor 10X. Accepts 4" x 5" Cut Film Holders and Polaroid #500 or #545 Camera Back (#500, 545 not supplied by AO)	244.00
1058	Kodak Instant Camera Back and Adapter	395.00
1080	Polaroid Instant Camera Back	395.00
1054A	Field of View Eyepiece.	114.00
1057	Shutter, Cable and Lens Assembly. Magnification factors 2.8X and 5X.	385.00

AO TV ADAPTERS



Catalog Number	Description	Price
1056	Deluxe TV Adapter Outfit with Pointer	$ 447.00
1056T	Basic TV Adapter Tube Unit	56.00

AO MICROSCOPE VIDEO SYSTEMS



1909



1912



1908



1910A

1905A, consisting of

1905	B&W Camera	
1906	10' Cable for Cat. No. 1905	
1909	9" B&W Video Monitor	625.00

1905B, consisting of

1905	B&W Camera	
1906	10' Cable for Cat. No. 1905	
1912	12" B&W Video Monitor	795.00

1908A, consisting of

1907	10' Cable for Cat. No. 1908	
1908	B&W High Resolution Camera	
1912	12" B&W Video Monitor	3695.00

1908B, consisting of

1908	B&W High Resolution Camera	
1907	10' Cable for Cat. No. 1908	
1909	9" B&W Video Monitor	3865.00

1910A, consisting of

	Color Television Camera	
	Cable for Camera	
	Color Video Monitor	2995.00

AO Scientific Instruments
DIV. WARNER-LAMBERT TECHNOLOGIES
BOX 123, BUFFALO, NY 14240

All prices and terms of sale are subject to change without notice.
Applicable taxes are in addition to prices stated.
The equipment supplied may not agree in all details with our description or illustrations because instruments are subject to modification and improvement.

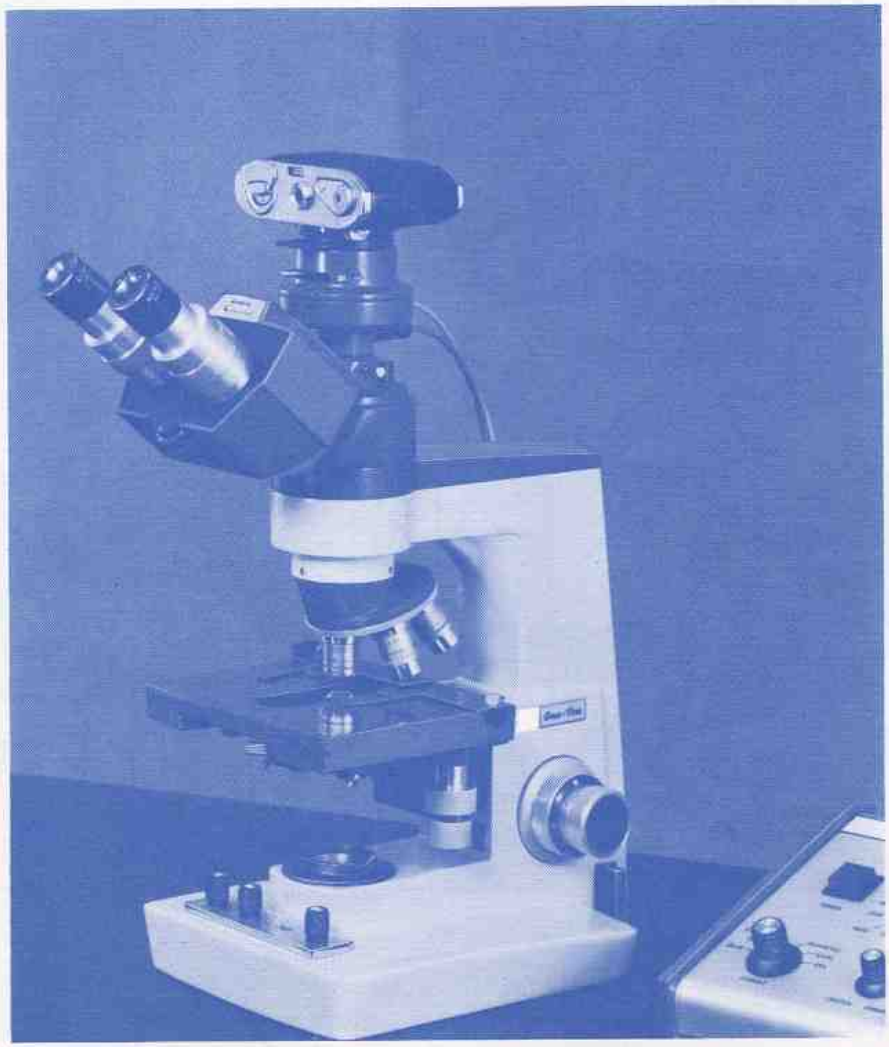
SB110 PL & Acc. 5/83

Printed in U.S.A.

Reichert Price List

EFFECTIVE
July 1, 1985

For Series One-Ten MICROSTAR® Microscopes



We've Changed Our Name from AO to Reichert

Reichert™

Reichert Scientific Instruments
Division of Warner-Lambert Technologies, Inc.
P.O. Box 123, Buffalo, New York 14240 U.S.A.
(716) 891-3000

Easy-to-follow code for Models 110T Trinocular and 110B Binocular MICROSTAR Microscopes equipped with Planachromatic Objectives

ILLUMINATOR	STAND, NOSEPIECE	BODY	STAGE	HYPHEN	PLANACHROMATIC OBJECTIVES, CONDENSER, WIDE FIELD EYEPIECES
 **H** **1130A** In-Base Transformer & Illuminator	**110**  Stand with Quintuple Nosepiece	 **T** **1103** Trinocular  **B** **1102** Binocular	 **U** **1194** Ungraduated Mechanical		**B** 1021 10X Objective 1016 50X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2) **E** 1021 10X Objective 1309 40X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2) **F** 1017 4X Objective 1021 10X Objective 1309 40X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1091 Auxiliary Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2). **J** 1017 4X Objective 1021 10X Objective 1022 20X Objective 1309 40X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1091 Auxiliary Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2) **S*** 1021 10X Objective 1128 40X Objective 1311 100X Objective 1087 N.A. 1.25 Condenser 1092 Condenser Mount 180 10X Wide Field Eyepiece (2)

RECOMMENDED MODELS

PATHOLOGY
- H110BU-F
- H110BU-J
- H110TU-F
- H110TU-J

BACTERIOLOGY
- H110BU-E
- H110TU-E

CYTOLOGY
- H110BU-F
- H110BU-J
- H110TU-F
- H110TU-J

EDUCATION/GEN. LAB.
- H110BU-E
- H110BU-F
- H110BU-J
- H110TU-E
- H110TU-F
- H110TU-J

HEMACYTOMETERS
- H110BU-S
- H110TU-S

HEMATOLOGY
- H110BU-B
- H110BU-E
- H110TU-B
- H110TU-E

*Designed especially for hemacytometer applications.



H110TU-J

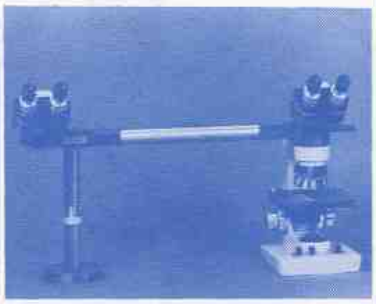


DH110BU-F

Catalog Number	Price
TRINOCULAR AND BINOCULAR MODELS EQUIPPED WITH PLANACHROMATIC OBJECTIVES	
TRINOCULAR	
H110TU-B	$2882.00
H110TU-E	2796.00
H110TU-F	2932.00
H110TU-J	3108.00
H110TU-S	2718.00
BINOCULAR	
H110BU-B	2757.00
H110BU-E	2671.00
H110BU-F	2807.00
H110BU-J	2983.00
H110BU-S	2593.00
***DUAL VIEWING**	
CH110TU-F	4626.00
DH110TU-F	4255.00
CH110BU-F	4501.00
DH110BU-F	4130.00

Microscope cabinets are not included; if desired see #1620.

***Prefix "C" denotes inclusion of #1112B Dual Viewing Outfit. See page 5.**
Prefix "D" denotes inclusion of #1111B Dual Viewing Outfit. See page 5.
See page 5 for Multi-Viewing Models.



CH110BU-F



AXH110BU-J

*Prefix "A" denotes inclusion of #1115B Multi-Viewing Outfit. See page 5.
See brochure SBH110, H120 MV for complete specifications.

Catalog Number	Price
***MULTI-VIEWING**	
AH110TU-F	$8733.00
AH110BU-F	8608.00

Alternate Parts and Accessories

All essential optical surfaces of MICROSTAR Microscopes Series One-Ten as well as alternate parts and accessories are AMERICOTE . . . to decrease internal reflection, increase light transmission and improve contrast.



1028 1017 1021



1022 1309 1016 1311



1165



1041A



1102



1044



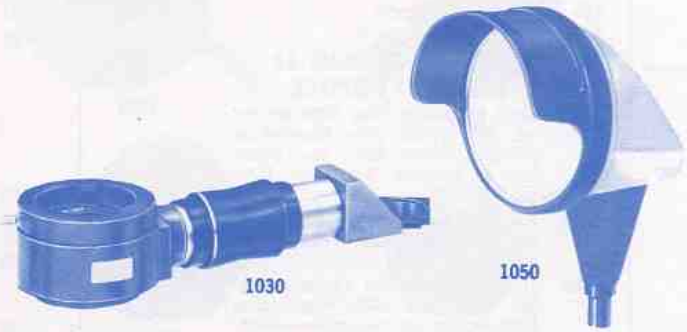
1103

Catalog Number	Description	Price
OBJECTIVES — INFINITY CORRECTED		
1028	2.5X, N.A. 0.07 Planachromatic	$ 180.00
1126	4X, N.A. 0.12 Planachromatic	91.00
1321	10X, N.A. 0.30 Planapochromatic	450.00
1127	10X, N.A. 0.25 Planachromatic	132.00
1026	10X, N.A. 0.25 Achromatic	97.00
1022	20X, N.A. 0.50 Planachromatic	194.00
1323	40X, N.A. 0.80 Planapochromatic	800.00
1309*	40X, N.A. 0.66 Planachromatic	320.00
1128*	40X, N.A. 0.66 Planachromatic	235.00
1866	40X, N.A. 0.55 Planachromatic (for use w/o cover glass)	550.00
1116	45X, N.A. 0.66 Achromatic	120.00
1016	50X, N.A. 0.80 Planachromatic w/ Iris Oil	415.00
1303	63X, N.A. 0.80 Semi Planachromatic	578.00
1079	100X, N.A. 1.25 Achromatic Oil	200.00
1311	100X, N.A. 1.25 Planachromatic Oil	455.00
1014	100X, N.A. 1.25 Planachromatic w/ Iris Oil	495.00
1867	100X (dry), N.A. 0.90 Planachromatic (for use w/o cover)	825.00
	* Specify 1128 rather than 1309 for hemacytometer applications.	
NOSEPIECE		
1165	Quintuple	117.00
BODIES		
1041A	Inclined Monocular "M"	385.00
1102	Binocular "B"	715.00
1102B	Binocular, having both eyetubes focusable. For use with 1111A, 1112, 1115, 1117	726.00
1103	Trinocular "T"	853.00
K2600	Trinocular Body with 80% light to photo, 20% to eye	950.00
1044	Vertical Tube for 1103, K2600	35.00











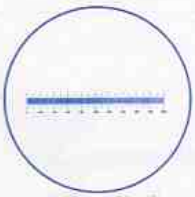
Catalog Number	Description	Price
	DUAL VIEWING AND MULTI-VIEWING	
1111A	Dual Viewing Adapter, Compact	$ 613.00
1111B	Dual Viewing Outfit, Compact. Includes 180 (2), 1102B, 1111	1455.00
1112	Dual Viewing Adapter, On-Side	1021.00
1112B	Dual Viewing Outfit, On-Side, Includes 180 (2), 1102B, 1112	1863.00
1112T	Triple Viewing Outfit. Includes 180 (4), 1102B (2), 1112, 1117	3243.00
1112F	Quad Viewing Outfit. Includes 180 (6), 1102B (3), 1112, 1117 (2)	4622.00
1115	Multi-Viewing Adapter	1937.00
1115B	Multi-Viewing Outfit. Includes 180 (8), 1102B (4), 1115, 1117 (2)	6381.00
1117	Dual Viewing Adapter, Compact, without pointer, for 1115	537.00
634	Replacement Lamp, for Pointer of 1111, 1112, 1115	8.00
K2675	Transformer For 1112, 1111A, 1115 Pointers	80.00
	DRAWING ATTACHMENTS	
1030	Drawing Attachment (6½" tube)	792.00
K2620	Drawing Attachment (10½" tube)	1225.00
	VIEWING SCREEN	
1050	Viewing Screen	380.00
	EYEPIECES — SINGLE	
	WIDE FIELD	
176A	10X AMERICOTE (For models with Achromatic Objectives)	58.00
180	10X AMERICOTE (For models with Planachromatic Objectives)	58.00
184	15X AMERICOTE	75.00
157	20X AMERICOTE	72.00
	HUYGENIAN	
C133	5X AMERICOTE	83.00
C142	10X AMERICOTE	55.00

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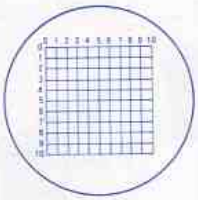
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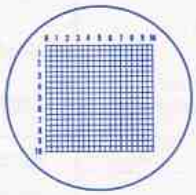
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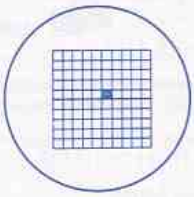
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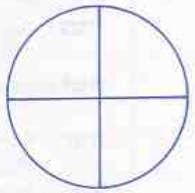
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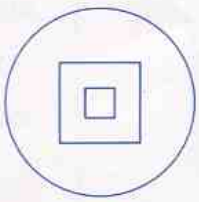
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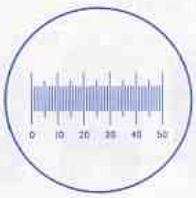
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TYPE 7



481

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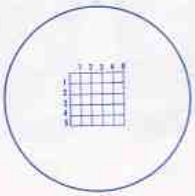
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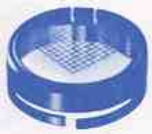


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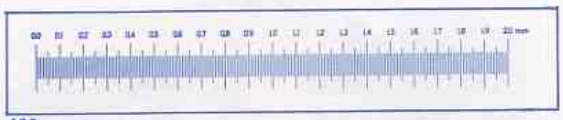
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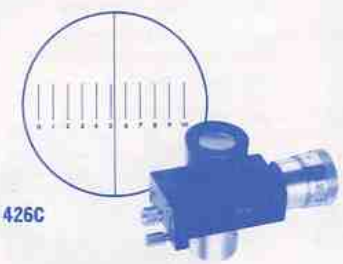
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400



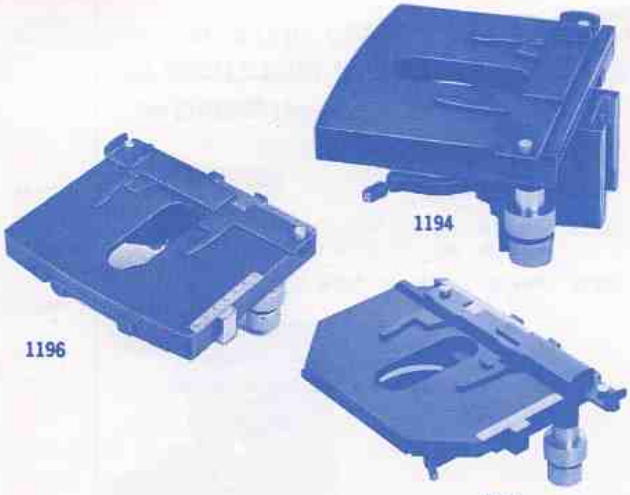
437



426C

Catalog Number	Description	Price
	MEASURING AND COUNTING ACCESSORIES	
	MICROMETER DISCS FOR NO. 180, 473 WIDE FIELD EYEPIECES (21.9mm DIAMETER)	
475	Micrometer Disc, Scale 10mm/100 Divisions. Type 1.	$ 46.00
476	Micrometer Disc, Scale 10mm/200 Divisions. Type 2.	57.00
477	Net Micrometer Disc, 10mm Square/ 100 Squares. Type 3.	51.00
478	Net Micrometer Disc, 10mm Square/ 400 Squares. Type 4.	53.00
479	Whipple Disc. Type 5.	57.00
480	Cross Hair Disc. Type 6.	46.00
481	Miller Disc. Type 7.	46.00
K2628	Bull's Eye Reticle*	90.00
	MICROMETER DISCS FOR NO. 184, 157 WIDE FIELD EYEPIECES (20.0mm DIAMETER)	
1405A	Micrometer Disc, Scale 5mm/50 Units. Type 8.	42.00
1406A	Micrometer Disc, Scale 10mm/100 Units. Type 1.	42.00
1407A	Micrometer Disc, Scale 10mm/200 Units. Type 2.	48.00
1408A	Net Micrometer Disc, 10mm Square/ 100 Squares. Type 3.	48.00
1409A	Net Micrometer Disc, 10mm Square/ 400 Squares. Type 4.	48.00
1410A	Micrometer Disc, Scale 5mm/100 Units. Type 9.	48.00
1421A	Net Micrometer Disc, 5mm Square/ 25 Units. Type 10.	48.00
1427	Cross Hair Disc. Type 6.	42.00
148	Micrometer Disc Mount.	4.00
K2628	Bull's Eye Reticle*	90.00
	MICROMETER DISCS FOR HUYGENIAN EYEPIECES (21.0mm DIAMETER)	
405	Micrometer Disc, Scale 5mm/50 Units. Type 8.	48.00
410	Micrometer Disc, Scale 5mm/100 Units. Type 9.	53.00
416	Whipple Disc. Type 5.	57.00
427	Cross Hair Disc. Type 6.	44.00
	STAGE MICROMETER, MICROMETER EYEPIECE, FOCUSABLE EYEPIECE	
400	Stage Micrometer 2mm Scale Divided into 200 .01mm Units. Mounted on 25mm X 75mm Slide. For Calibration of Eyepiece Micrometer Discs and Fields of View.	74.00
424B	10X Filar Micrometer Eyepiece, English scale, with #429 Eyepiece Tube Adjuster.	415.00
424C	10X Filar Micrometer Eyepiece, English Scale, with #430 Magnification Compensator including spanner wrench.	525.00
426B	10X Filar Micrometer Eyepiece, Metric Scale, with #429 Eyepiece Tube Adapter.	415.00
426C	10X Filar Micrometer Eyepiece, Metric Scale, with #430 Magnification Compensator including spanner wrench.	525.00
437	10X W.F. Eyepiece with Focusable Eyelens. Accepts above 20mm Diameter Eyepiece Discs.	110.00
473	10X W.F. Eyepiece with Focusable Eyelens. Accepts above 21.9mm Diameter Eyepiece Discs.	110.00
K1848	15X W.F. Eyepiece with Focusable Eyelens. Accepts above 20mm Diameter Eyepiece Discs.	140.00

* Supply eyepiece catalog number when ordering K2628.





K2636 Hot Stage (shown installed)



1087



1091



1092



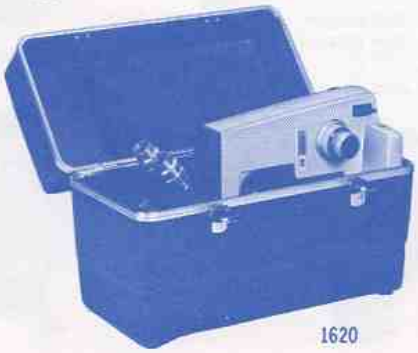
1094A



1096



1201



1620

Catalog Number	Description	Price
STAGES		
1194	Ungraduated Mechanical Stage "U" R.H.	$344.00
1195	Ungraduated Mechanical Stage "U" L.H.	344.00
1196	Graduated Mechanical Stage "G" R.H.	437.00
1197	Graduated Mechanical Stage "G" L.H.	437.00
1198	Simple Stage with Clips	261.00
1700	Graduated Orientation Stage	697.00
1882	Circular, Graduated Rotatable Stage with Clips	880.00
K2571	Thin stage fingers for 1194* (for cytology applications)	95.00
K2572	Thin stage fingers for 1195* (for cytology applications)	95.00
K2636	Hot Stage for use with 1194 Mechanical Stage; range +50° to 350°C. Installation included.	2425.00
K2655	Biotherm Biological warming stage for use with 1194 Mechanical Stage; range 35 to 40°C. Installation included.	825.00
	*Can be substituted for standard stage fingers at no extra charge when purchasing entire stage.	
CONDENSERS AND CONDENSER MOUNTS		
1087	Abbe Condenser, N.A. 1.25 for objectives 4X through 100X with 1091	64.00
1087S	Abbe Condenser, (strain-free) N.A. 1.25 for objectives 4X through 100X with 1091S; for use with 1153B	72.00
1094A	Flip Top Condenser, N.A. 1.25 for objectives 2.5X through 100X	205.00
1201	Achromatic — Aplanatic Condenser, N.A. 90 for objectives 2.5X through 100X with 1091	140.00
1091	Auxiliary Swing-In Condenser "X" for 1087, 1201	37.00
1091S	Auxiliary Swing-In Condenser "X" (strain-free) for 1087, 1201; for use with 1153B	44.00
1092	Condenser Mount for 1087, 1087S, 1099, 1201, 2110	45.00
1096	Darkfield Condenser	321.00
1099	Wide Field Condenser; for use with objectives from 2.5X to 40X inclusive	99.00
2110	Achromatic/Aplanatic Condenser, N.A. 1.30. Recommended for photomicrography	409.00
CABINET		
1620	Deluxe Cabinet	106.00



1152



1153
With Full
Wave Plate
Out

1153
With Full
Wave Plate
In





1130A



1139

Catalog Number	Description	Price
	POLARIZING ACCESSORIES	
1152	Analyzer Turret	$221.00
1153	Polarizer with Full Wave Retardation Plate for use with 1130 Illuminator	221.00
1153B	Polarizer / Analyzer Outfit. Includes 1152, 1153	442.00
	NOTE: Above accessories should be used in conjunction with 1087S condenser.	
	ILLUMINATORS AND MIRROR ASSEMBLY	
1130A	In-Base Transformer and Tungsten Halogen Illuminator "H", 115V, 60Hz for Binocular and Trinocular Models.	339.00
1130E	Same as 1130, but for 220V, 50Hz	383.00
1139	In-Base Illuminator, On-off type	105.00
611	Replacement Lamp 15W, 115V for 1139, 1140	5.00
1120	Replacement Lamp, 20W, 6V, Tungsten Halogen for 1130, 1130E	8.00

AO EXPOSTAR™ AUTOMATIC CAMERA OUTFITS AND ACCESSORIES FOR MODELS H110T MICROSTAR MICROSCOPES

See EXPOSTAR Literature SB1190 for further details.





1053F
EXPOSTAR Automatic Camera Outfit


1052


1054A


1055*

*#1055 is illustrated with cut film, plate holder. See K2754, K2755


1058


1080

Catalog Number	Description	Price
1052F	Polaroid® Camera Outfit consisting of 1052 3¼" x 4¼" Camera Back and Adapter 1054A Field of View Eyepiece 1190 EXPOSTAR® Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	$2259.00
1053F	35mm Camera Outfit consisting of 1053 35mm Camera Back 1054A Field of View Eyepiece 1190 EXPOSTAR Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2204.00
1055F	4" x 5" Camera Back Adapter Outfit consisting of 1054A Field of View Eyepiece 1055 4" x 5" Camera Back Adapter 1190 EXPOSTAR Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2187.00
1058F	Kodak Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1058 Kodak Instant Camera Back and Adapter 1190 EXPOSTAR Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2361.00
1080F	Polaroid Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1080 Polaroid Instant Camera Back 1190 EXPOSTAR Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2361.00
1052	3¼" x 4¼" Film Pack Polaroid Land Camera Back, Magnification factor 7.5X	347.00
1053	35mm Camera Back. Magnification factors 2.8X, 5X.	292.00
1054A	Field of View Focusing Eyepiece.	124.00
1055	4" x 5" Camera Back Adapter. Magnification factor 10X. Accepts 4" x 5" Cut Film Holders and Polaroid #500 or #545 Camera Back See K2754, K2755.	274.00
1058	Kodak Instant Camera Back and Adapter	443.00
1080	Polaroid Instant Camera Back	443.00
1190	EXPOSTAR Control Unit (115-120V 60 Hz).	1183.00
1191	EXPOSTAR Shutter 2.8X and 5X Lens Assembly, Photocell and Cords.	606.00
K2754	Polaroid 4 x 5 Sheet Film Holder for 1055	240.00
K2755	Polaroid 4 x 5 Pack Film Holder for 1055	240.00

PHOTOGRAPHIC FILTERS (34.5mm dia.)

500	Clear Blue Filter	12.00
506	Green Filter	12.00
509	Didymium Filter	19.00
512	Daylight Color Balancing Filter	18.00
513	Tungsten Color Balancing Filter	18.00

AO NON-AUTOMATIC CAMERAS AND ACCESSORIES FOR MODELS H110T MICROSTAR MICROSCOPES

See literature SB1190 for further details.

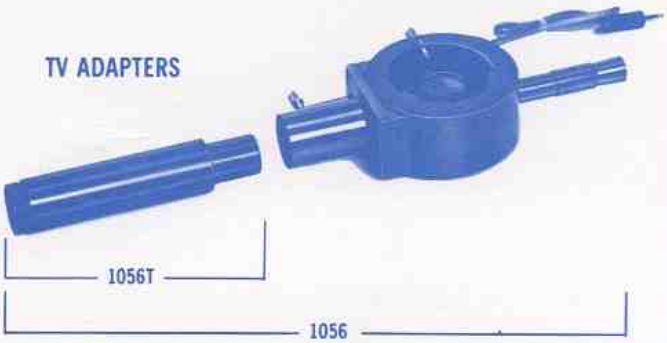




1053D
Non-Automatic
Camera Outfit

Catalog Number	Description	Price
1052D	Polaroid Camera Outfit consisting of 1052 3¼" x 4¼" Camera Back and Adapter 1054A Field of View Eyepiece 1057 Shutter Assembly	$903.00
1053D	35mm Camera Outfit consisting of 1053 35mm Camera Back 1054A Field of View Eyepiece 1057 Shutter Assembly	848.00
1055D	4" x 5" Camera Back Adapter Outfit consisting of 1054A Field of View Eyepiece 1055 4" x 5" Camera Back Adapter 1057 Shutter Assembly	831.00
1058D	Kodak Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1057 Shutter Assembly 1058 Kodak Instant Camera Back and Adapter	1004.00
1080D	Polaroid Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1057 Shutter 1080 Polaroid Instant Camera Back	1004.00
1052	3¼" x 4¼" Film Pack Polaroid Land Camera Back, Magnification factor 7.5X	347.00
1053	35mm Camera Back.	292.00
1055	4" x 5" Camera Back Adapter. Magnification factor 10X. Accepts 4" x 5" Cut Film Holders and Polaroid #500 or #545 Camera Back (#500, 545 not supplied by AO)	274.00
1058	Kodak Instant Camera Back and Adapter	443.00
1080	Polaroid Instant Camera Back	443.00
1054A	Field of View Eyepiece.	124.00
1057	Shutter, Cable and Lens Assembly. Magnification factors 2.8X and 5X.	432.00

TV ADAPTERS



Catalog Number	Description	Price
1056	Deluxe TV Adapter Outfit with Pointer	$506.00
1056T	Basic TV Adapter Tube Unit	66.00
K2675	Video Transformer For 1056, 111A, 1112, 1115	80.00

MICROSCOPE VIDEO SYSTEMS



1914A, consisting of		
1911	Cable for Camera	
1913	Color Video Monitor, 13"	
1914	Color Television Camera	2500.00

We've Changed Our Name from AO to Reichert

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Reichert Scientific Instruments
Division of Warner-Lambert Technologies, Inc.
P.O. Box 123, Buffalo, New York 14240 U.S.A.
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The equipment supplied may not agree in all details with our description or illustrations because instruments are subject to modification and improvement.

SB110 PL & Acc. 7/85

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Reichert Price List

EFFECTIVE
JULY 1, 1985

Photomicrographic and Viewing Accessories For Series One-Ten and One-Twenty MICROSTAR® Microscopes



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Select format . . .

and match it with the exposure system of your choice.



3¼" x 4¼" Polaroid Land Camera Back

Cat. No. 1052

D

F



35mm Camera Back

Cat. No. 1053

D

F



4" x 5" Camera Back Adapter*

Cat. No. 1055

*#1055 is illustrated with cut film, plate holder. Also accepts Polaroid #500, 545 . . . not available thru Reichert.

D

F



Kodak Instant Camera Back

Cat. No. 1058

D

F



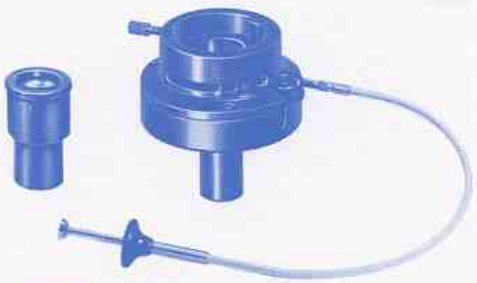
Polaroid Instant Camera Back

Cat. No. 1080

D

F

MANUAL — Catalog Designation D



Includes:

1054A Field of View Eyepiece

1057 Shutter, Cable and Lens Assembly Magnification factors 2.8X and 5X.

AUTOMATIC — Catalog Designation F



EXPOSTAR Photographic Outfit includes:

1054A Field of View Eyepiece

1190 EXPOSTAR Shutter Control Unit

1191 Shutter, Cable, 2.8X and 5X Lens Assembly, Photocell and Cord.

CAMERA OUTFITS AND ACCESSORIES FOR MODELS H110T, H120T MICROSTAR MICROSCOPES

Catalog Number	Description	Price
MANUAL CAMERAS		
1052D	Polaroid Camera Outfit consisting of 1052 3¼" x 4¼" Camera Back and Adapter 1054A Field of View Eyepiece 1057 Shutter Assembly	$903.00
1053D	35mm Camera Outfit consisting of 1053 35mm Camera Back 1054A Field of View Eyepiece 1057 Shutter Assembly	848.00
1055D	4" x 5" Camera Back Adapter Outfit consisting of 1054A Field of Vew Eyepiece 1055 4" x 5" Camera Back Adapter 1057 Shutter Assembly	831.00
1058D	Kodak Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1057 Shutter Assembly 1058 Kodak Instant Camera Back and Adapter	1004.00
1080D	Polaroid Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1057 Shutter Assembly 1080 Polaroid Instant Camera Back and Adapter	1004.00



Model XH110TU-J with 1053 EXPOSTAR Camera Outfit

EXPOSTAR™ AUTOMATIC CAMERA OUTFITS		
1052F	Polaroid Camera Outfit consisting of 1052 3¼" x 4¼" Camera Back and Adapter 1054A Field of View Eyepiece 1190 EXPOSTAR® Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2259.00
1053F	35mm Camera Outfit consisting of 1053 35mm Camera Back 1054A Field of View Eyepiece 1190 EXPOSTAR Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2204.00
1055F	4" x 5" Camera Back Adapter Outfit consisting of 1054A Field of View Eyepiece 1055 4" x 5" Camera Back Adapter 1190 EXPOSTAR Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2187.00
1058F	Kodak Instant Camera Outfit consisting of 1054A Field of View Eyepiece 1058 Kodak Instant Camera Back and Adapter 1190 EXPOSTAR Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2361.00
1080F	Polaroid Instant Camera Back Outfit consisting of 1054A Field of View Eyepiece 1080 Polaroid Instant Camera Back and Adapter 1190 EXPOSTAR Control Unit 1191 EXPOSTAR Shutter and Lens Assembly	2361.00

INDIVIDUAL COMPONENTS

Catalog Number	Description	Price
INDIVIDUAL COMPONENTS		
1052	3¼" x 4¼" Film Pack Polaroid Land Camera Back. Magnification factor 7.5X	$347.00
1053	35mm Camera Back. Magnification factors 2.8X, 5X.	292.00
1054A	Field of View Focusing Eyepiece.	124.00
1055	4" x 5" Camera Back Adapter. Magnification factor 10X.	274.00
1057	Manual Shutter, Cable and Lens Assembly. Magnification factors 2.8X and 5X.	432.00
1058	Kodak Instant Camera Back and Adapter.	443.00
1080	Polaroid Instant Camera Back and Adapter.	443.00
1190	EXPOSTAR Control Unit (115 - 120V 60 Hz).	1183.00
1190E	EXPOSTAR Control Unit (220V, 50 Hz).	1293.00
1191	EXPOSTAR Shutter 2.8X and 5X Lens Assembly, Photocell and Cords.	606.00
512	Daylight Color Balancing Filter	18.00
513	Tungsten Color Balancing Filter	18.00



1030



578



1050

Catalog Number	Description	Price
	DRAWING ATTACHMENT	
1030	Drawing Attachment	$792.00
578	Fluorescence Illuminator with Link and Pedestal 115V, 60Hz	154.00
	VIEWING SCREEN	
1050	Viewing Screen	380.00

All prices and terms of sale are subject to change without notice.
Applicable taxes are in addition to prices stated.
The equipment supplied may not agree in all details with our description or illustrations because instruments are subject to modification and improvement.

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