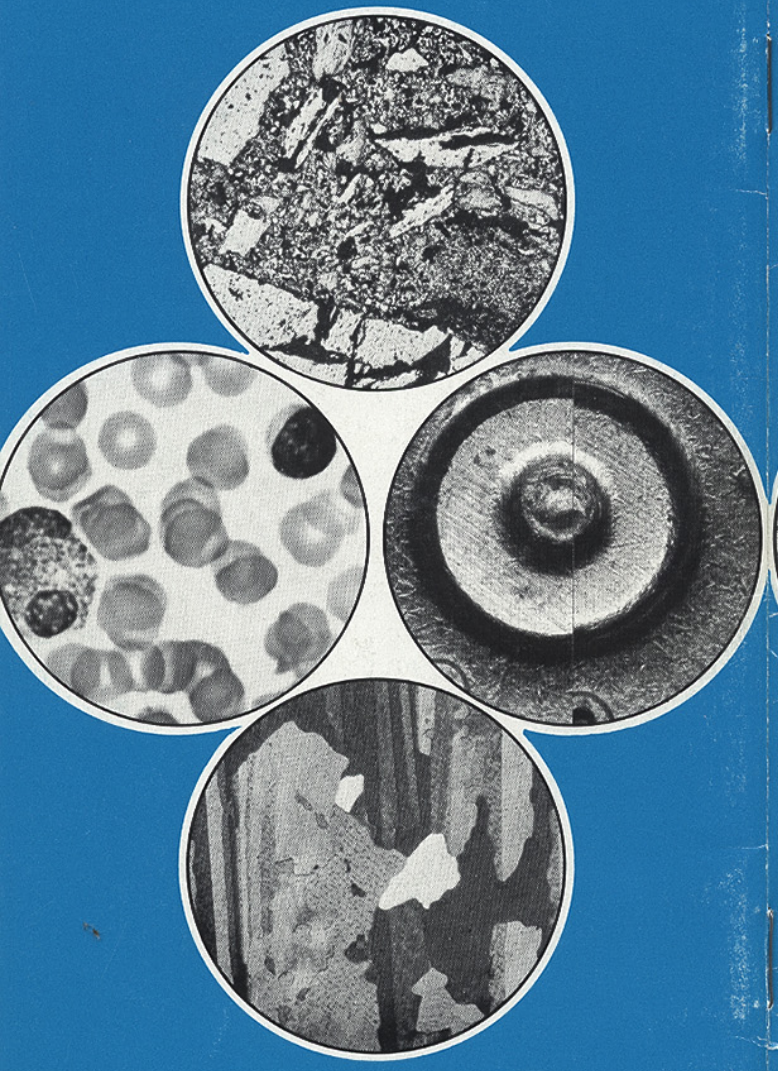
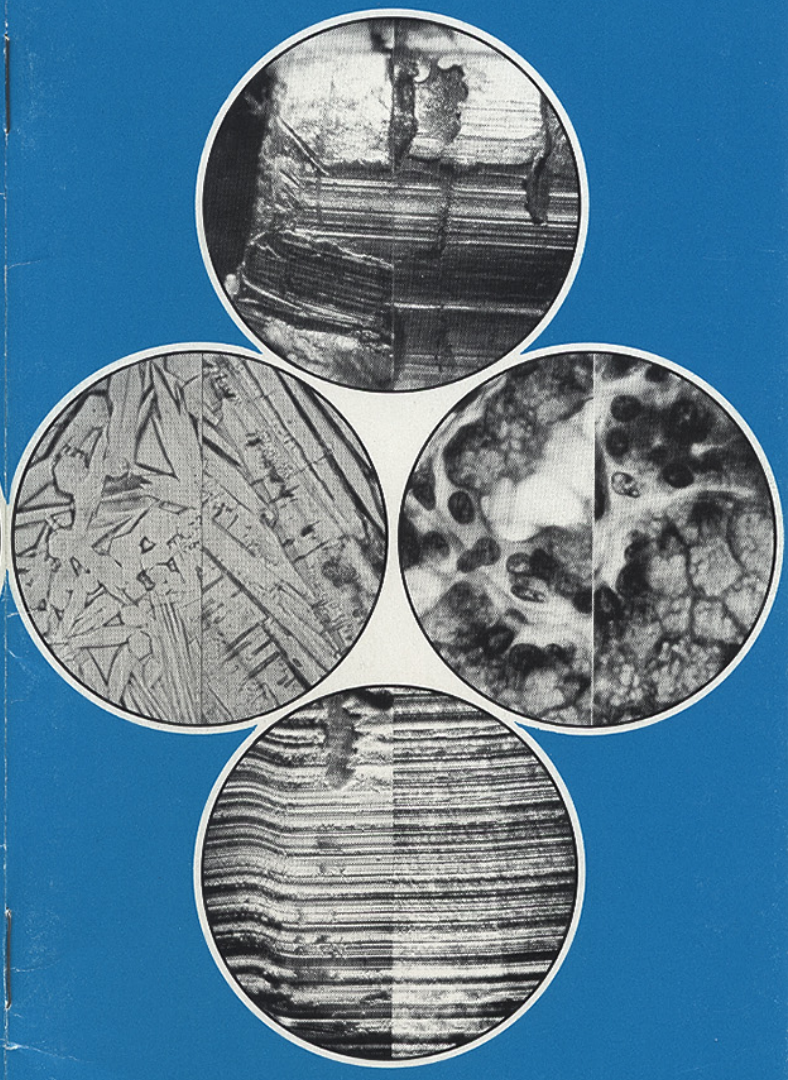
AO Reichert™

AO Reichert Scientific Instruments
Division of Warner-Lambert Technologies, Inc.
P.O. Box 123, BUFFALO, NEW YORK 14240 U.S.A.
(716) 891-3000

PRODUCT REVIEW

FORENSIC MICROSCOPES with Related Accessories





SS21 1/84

PRINTED IN U.S.A.

AO Reichert™
Scientific Instruments
The world's leading manufacturer of microscopes

This catalog presents the major AO Reichert forensic microscope product lines in a condensed format.

Whatever your field of interest, the high precision and quality of every microscope we make is backed by almost 150 years of experience in crafting fine optical instruments.

For complete information on specific microscopes, check off the related listing on the return postcard at the back of this catalog. Descriptive brochures with comprehensive listings of available accessories will be sent promptly.

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UNIVERSAL FORENSIC MICROSCOPE

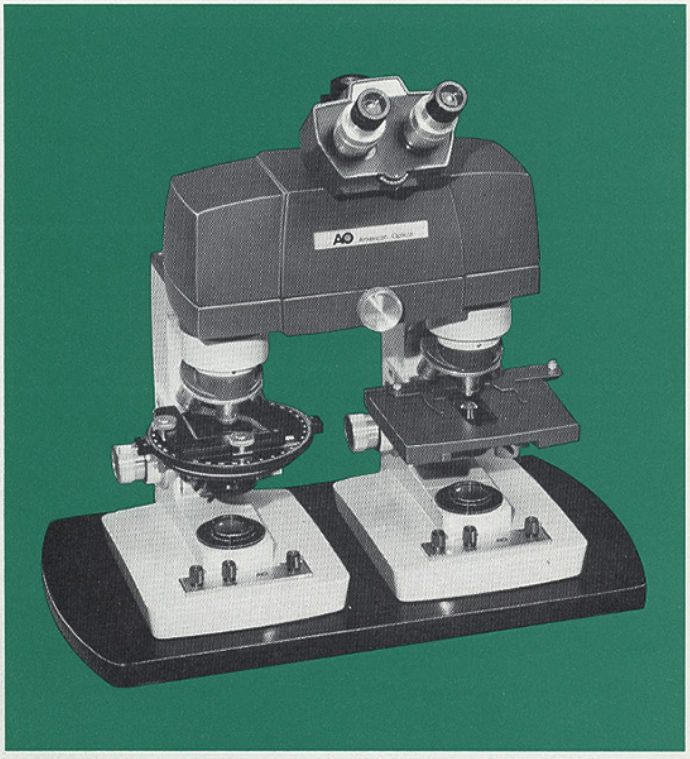
PRICE RANGE: $13,000-$18,000



Stand	Adjustable with Base
Body	Trinocular
Eyepieces	5X Huygenian, 10X or 15X Wide Field
Eyetubes	Converging, Left Eyetube Focusable. Thumbwheel IPD Adjustment
Objectives	Focal Lengths: 145mm, 80mm, 48mm, 32mm
Stage Accessories	Document Stage Plates, Multi-purpose Mounting Discs, Vertical Shell Holders, Bullet Manipulators With 8 Bullet Holders
Comparison Bridge	Moveable Vertical Dividing Line
Illumination	Universal Incandescent Illuminators, Built-in Reflectors or Flexible 24" Double Branch Fiber Optic Light Guides, Adjustable 150W Tungsten Halogen Lamp, 50% Neutral Density Filters, Jackknife Bracket Supports for Light Guides
Accessories	Dual View, Video Systems, Photomicrography

SERIES 110, 120 DUO STAR MICROSCOPES

PRICE RANGE: $10,500-$12,600



Stands 110, or 120

Body Trinocular, with Swing-out Prism, on Comparison Bridge

Eyepieces 10X Wide Field

Eyetubes Converging, One Eyetube Focusable. Thumbwheel IPD Adjustment

Nosepieces Quintuple, Focusing

Objectives Planachromatic: 4X, 10X, 20X, 40X, 100X. All Parfocal, Parcentered

Stages Graduated Rotatable and choice of LH or RH Ungraduated Mechanical

Substage Rack-and-Pinion Focusable N.A. 1.25 Abbe Condenser and Iris Diaphragm.

Illumination

110

In-Base 20W Tungsten Halogen Plug-in Lamp with Variable Intensity Control. Field Diaphragm and Neutral Density Filter, 10% Transmission.

120

In-Base 100W Tungsten Halogen Lamp and Variable Power Supply. Includes full complement of filters.

POLSTAR® MICROSCOPES

PRICE RANGE: $3200-$4100



Bodies Trinocular
Binocular
Monocular
All w/Flip-In Analyzer, Flip-In Focusable Bertrand Lens for Conoscopic Viewing

Eyepieces 10X Wide Field

Eyetubes Converging, with one Eyetube Focusable. Thumbwheel IPD Adjustment

Nosepiece Quadruple, Focusing with Compensator Slot

Objectives Choice of Planachromatic: 2.5X, 4X, 10X, 20X, or
Achromatic: 10X, 40X
All Strain-Free, Parfocal, and Parcentered

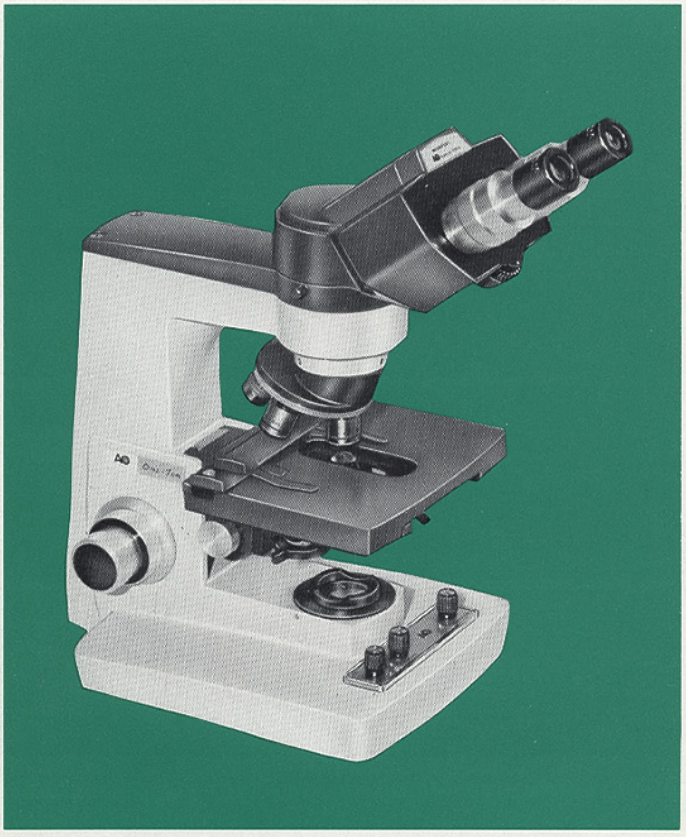
Stage Centerable Graduated Rotatable. Optional Mechanical Attachment

Substage Rack-and-Pinion Focusable with Centerable 1.25 Abbe Condenser, Iris Diaphragm, Auxiliary Condenser and Rotatable Graduated Polarizer

Illumination In-Base 20W Tungsten Halogen Plug-in Lamp with Variable Intensity Control, Field Diaphragm and Neutral Density Filter, 10% Transmission

SERIES 110

PRICE RANGE: $2500-$3000



Bodies Trinocular w/Swing-Out Prism
Binocular

Eyepieces 10X WF

Eyetubes Converging, One Eyetube Focusable
Thumbwheel IPD Adjustment

Nosepiece Quintuple, Focusing

Objectives Planachromatic: 2.5X, 4X, 10X, 20X, 40X
50X, 63X (Semi Plan), 100X
All Parfocal, Parcentered

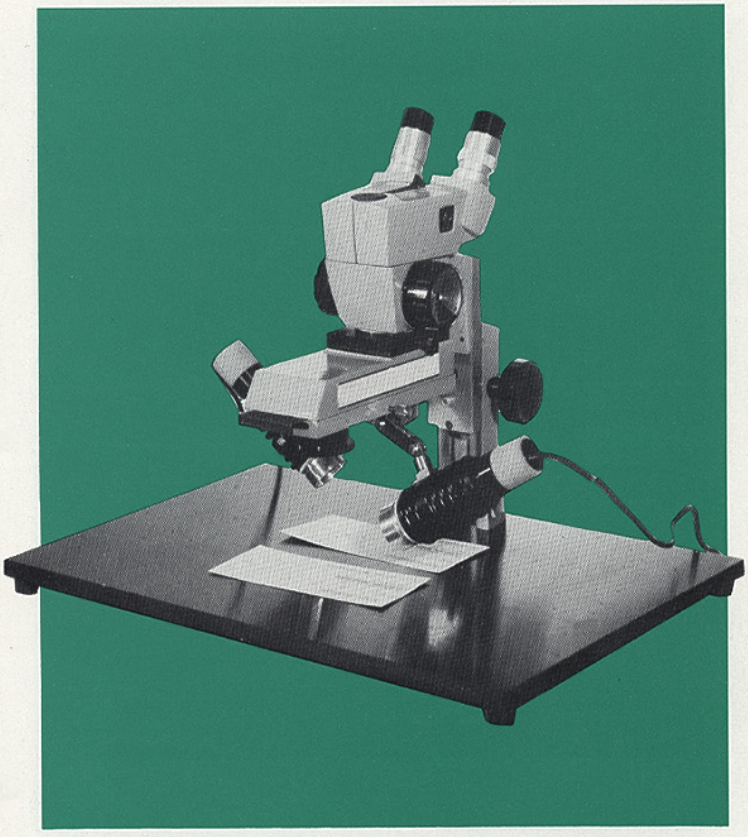
Stages Three fixed types: Graduated
Mechanical; Ungraduated Mechanical,
Orientation

Substage Rack and Pinion Focusable N.A. 1.25
Abbe Condenser and Iris Diaphragm

Illumination In-Base 20W Tungsten Halogen Plug-In
Lamp w/Variable Intensity Control, Field
Diaphragm and Neutral Density Filter
(10% Transmission)

DOCUMENT COMPARISON MICROSCOPE

PRICE RANGE: $3200-$3300



Body Binocular, Cycloptic Stereoscopic 5-Step
Magni-Changer: 7X, 10X, 15X, 20X, 25X

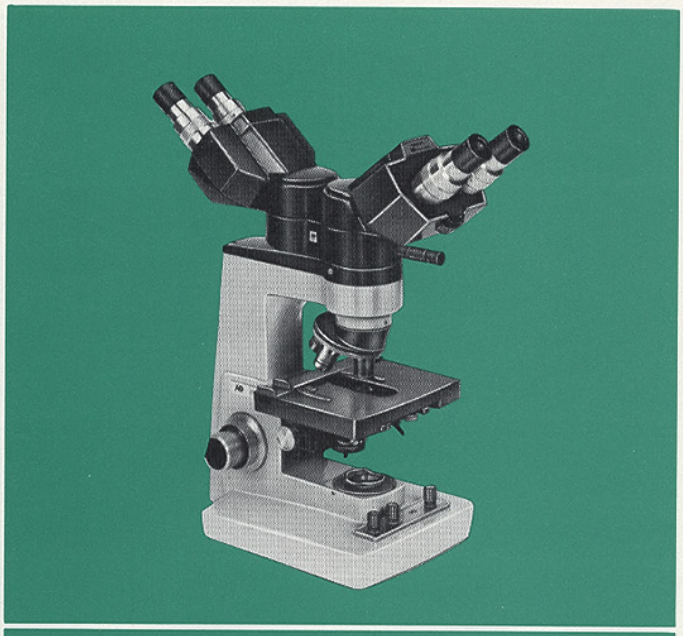
Eyepieces 10X, 15X, 20X Wide Field

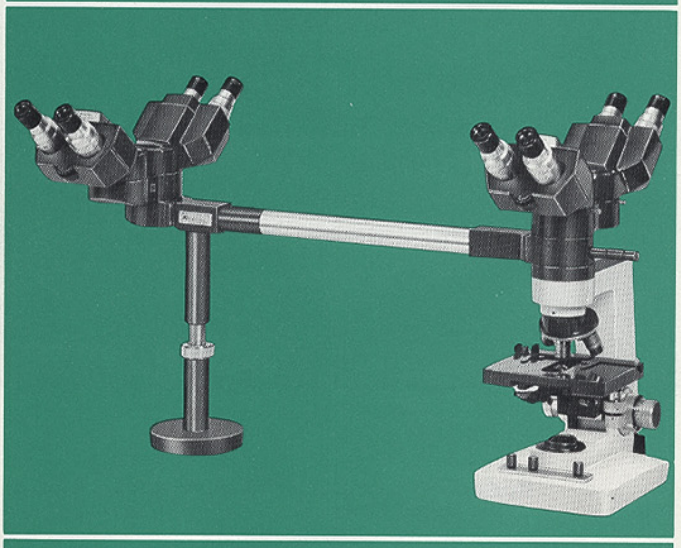
Eyetubes Left Eyetube Focusable

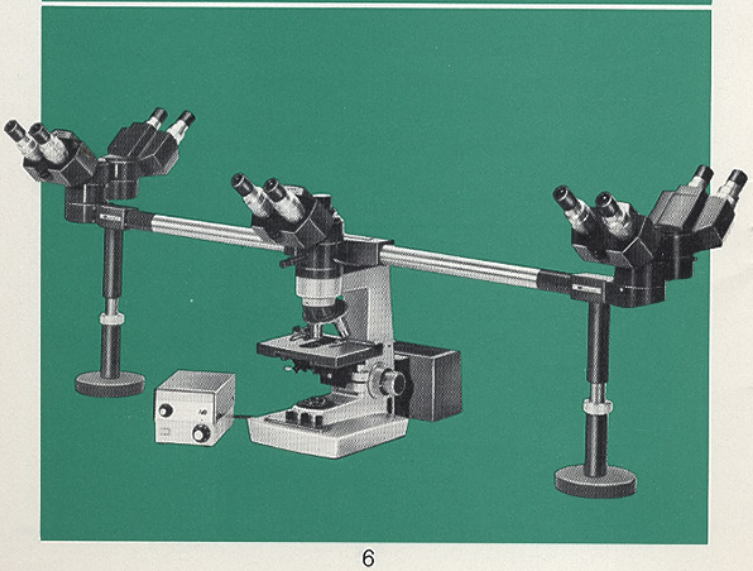
Resultant Magnification 10X to 40X

Stands 17" x 12" Phenolic Resin Baseboard
or
Series 52 Table Stand, Manual Adjustments
for Vertical Pillar and Horizontal Arm

Illumination Tungsten 2.75am 6.5V Illuminators,
Adjustable Transformer, Blue and Ground
Glass Filters
or
Fluorescent Illuminators, With or Without
Transformers







SERIES 110/120
DUAL AND MULTI-VIEWING

PRICE RANGE: $4000-$10,200

Bodies Trinocular, with Swing-out Prism Binocular

Eyepieces 10X Wide Field

Eyetubes Converging with Thumbwheel IPD Adjustment

Nosepiece Quintuple. Focusing

Objectives Planachromatic: 4X, 10X, 20X, 40X, 100X All Parfocal, Parcentered

Stages Graduated Mechanical (Series 120) Ungraduated Mechanical (Series 110)

Substage Rack-and-Pinion Focusable N.A. 1.25 Abbe Condenser and Iris Diaphragm (Series 110)

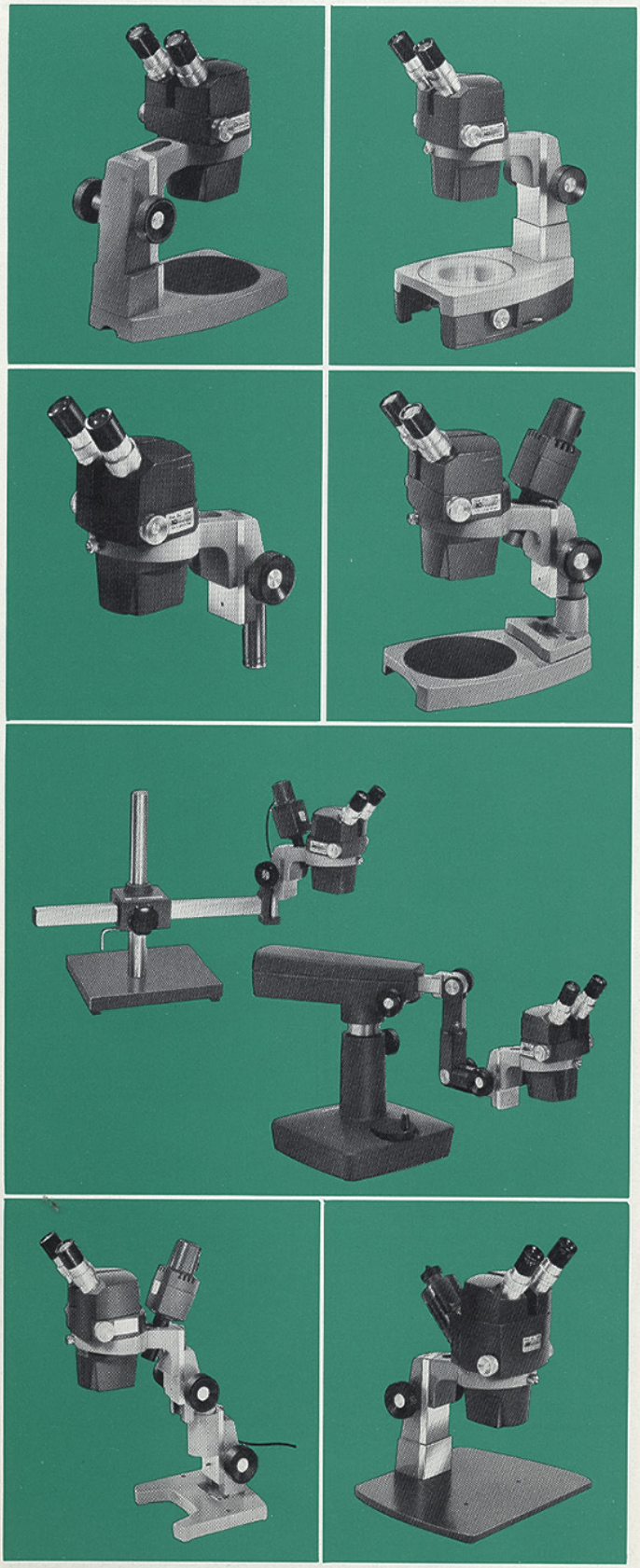
OR

Flip-top Condenser and Iris Diaphragm (Series 120)

Illumination In-Base 20W Tungsten Halogen w/Variable Intensity Control (Series 110)
In-Base 100W Tungsten Halogen and Variable Power Supply (Series 120)

Observation Components Dual and Multi-Viewing Outfits for two to five observers (up to 14 observers on special order basis). Includes illuminated pointer system, necessary binocular bodies (both eyetubes focusable) and 10X Wide Field eyepieces

Separate Dual and Multi-Viewing Outfits are also available to retrofit existing microscopes.



STEREOSTAR®/ZOOM MICROSCOPES

PRICE RANGE $550-$2600

Power Bodies

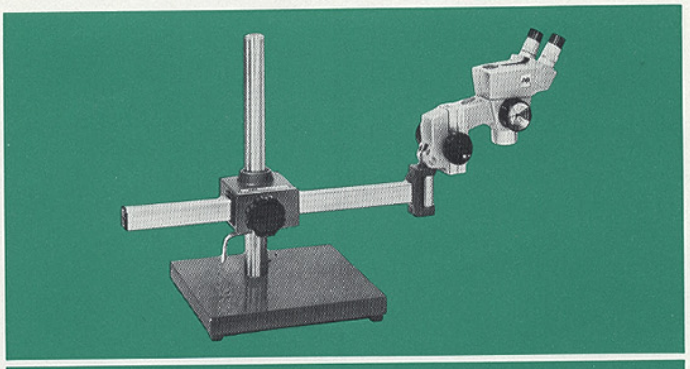
B	.7-3X
C	.7-4.2X
D	Fixed
T	1-6X
TX	1-6X with Coaxial Illuminator

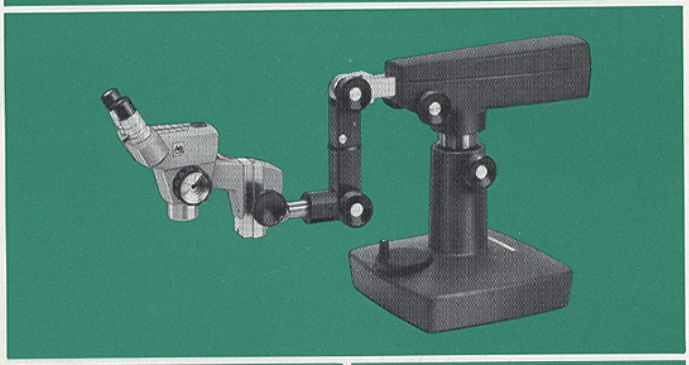
Resultant Magnification 2.3X - 300X

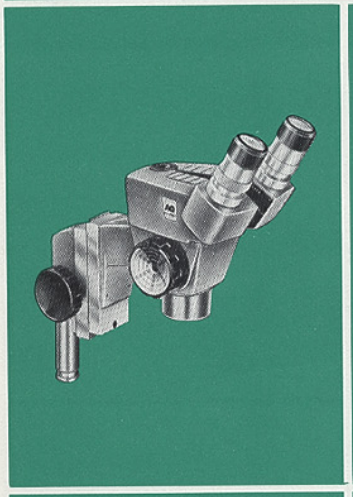
Eyepieces Gear Linked with Left Eyetube Focusable

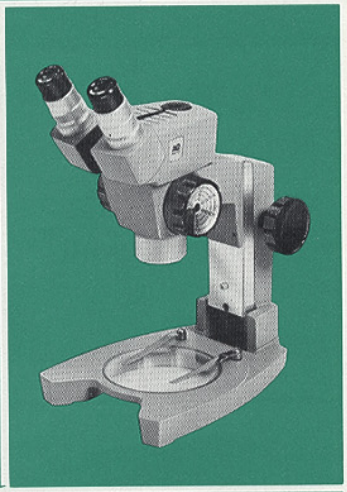
Stands Wide variety (8+ types) available for countless applications... readily adaptable to machine tools, jigs and fixtures

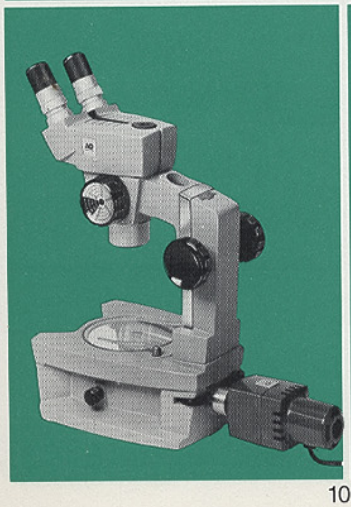
Illuminators An extensive choice of illuminators is available to meet demands of different types of specimens. They include High Intensity Sources for Incident and Transmitted Light Applications

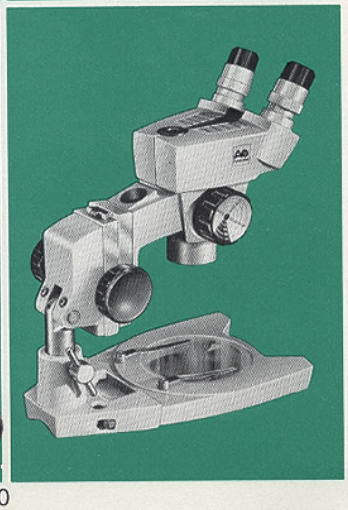












CYCLOPTIC® STEREOSCOPIC MICROSCOPES

PRICE RANGE: $600-$1800

- **Reversible and inclined body**
- **Long working distance**
- **Large field of view**
- **Wide range of magnifications**
- **Erected and unreversed stereoscopic image**
- **Top quality optics...low reflection coated**
- **Adjustable for interpupillary and eye-refraction differences**
- **Rigid, well balanced stands**

Bodies M 5-Step Magni-Changer: 7X, 10X, 15X, 20X, 25X
F Fixed Magnification: 15X with 10X Wide Field Eyepieces

Resultant Magnifications 1.4X - 100X

Eyepieces 10X, 15X, 20X Wide Field

Eyetubes Left Eyetube Focusable

Stands Wide variety (8+ types) available for industrial and biological applications. Readily adaptable to machine tools, jigs and fixtures

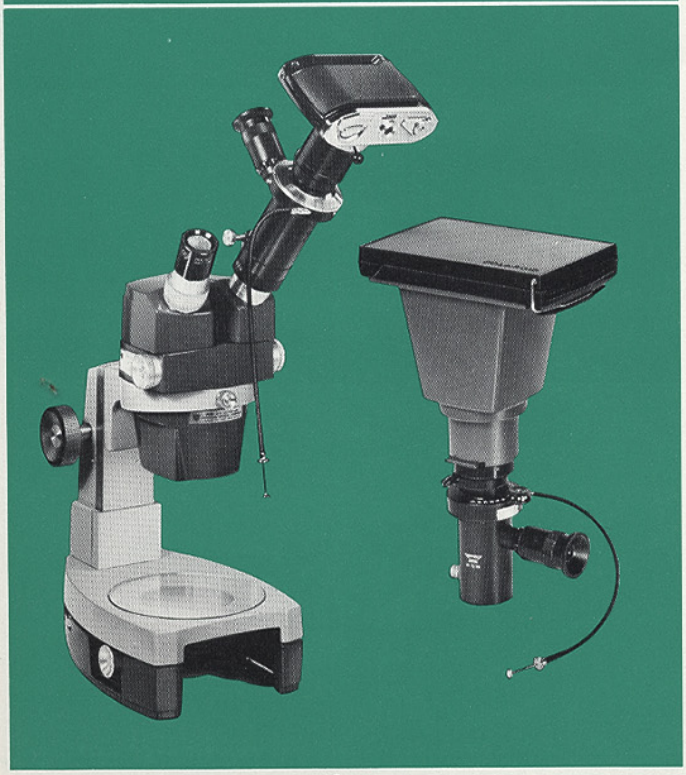
Illuminators A broad selection of Illuminators is available to meet demands of different types of specimens. They include High Intensity Sources for Incident and Transmitted Light Applications

PHOTOMICROGRAPHIC CAMERA SYSTEMS

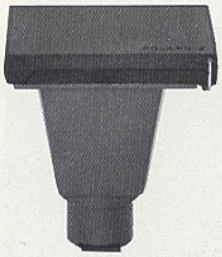
FOR SERIES 110, 120 MICROSTAR Microscopes, STEREOSTAR ZOOM Microscopes and CYCLOPTIC Stereoscopic Microscopes

PRICE RANGE: $750-$2000





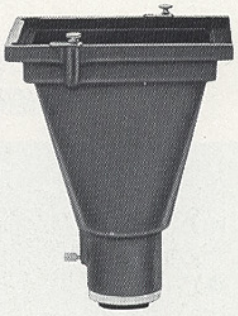
Cameras:



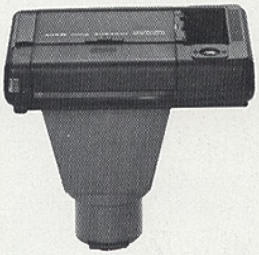
3¼" x 4¼" Polaroid® Land Camera Back



35mm Camera



4" x 5" Camera Back Adapter



Kodak Instant Camera Back



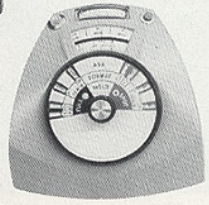
Polaroid Instant Camera Back

Shutter Modes:

EXPOSTAR® Fully Automatic Shutter Control –

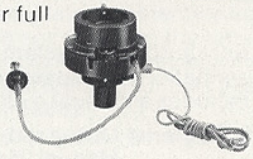
This top-of-the-line equipment eliminates usual trial and error method of exposure by automatically integrating light intensity and film reciprocity with time.

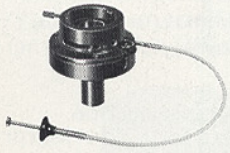




PHOTOSTAR® Semi-Automatic Shutter Control –

Solid State Meter is precalibrated and gives direct exposure readings for full and partial field specimen areas.





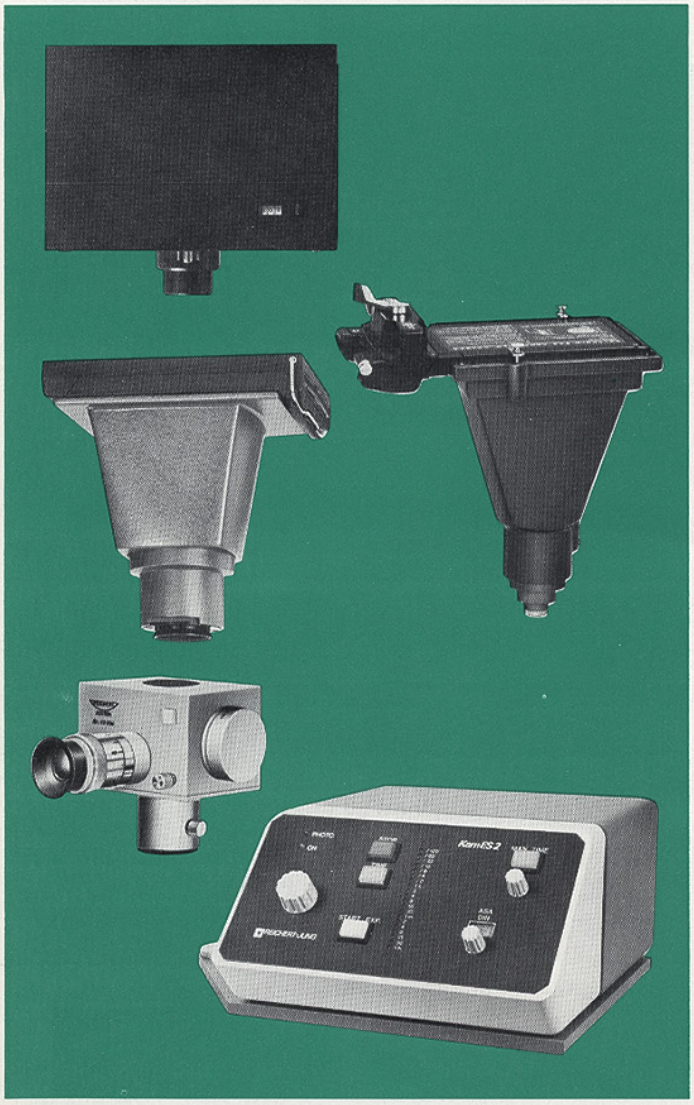
Manual Shutter Assembly –

Inexpensive, compact 8-speed shutter and lens assembly.

AO Photomicrographic Equipment is available as complete Camera Outfits, as well as individual components to retrofit existing microscopes.

Kam ES 2
ELECTRONIC CAMERA SYSTEM

PRICE RANGE: $4000-$5000



A fully automatic system that simultaneously integrates illumination, film speed and format for correct exposures. It includes a manual override control.

Cameras Motorized Automatic Miniature Camera, Manual 35mm Camera, 3¼" x 4¼"

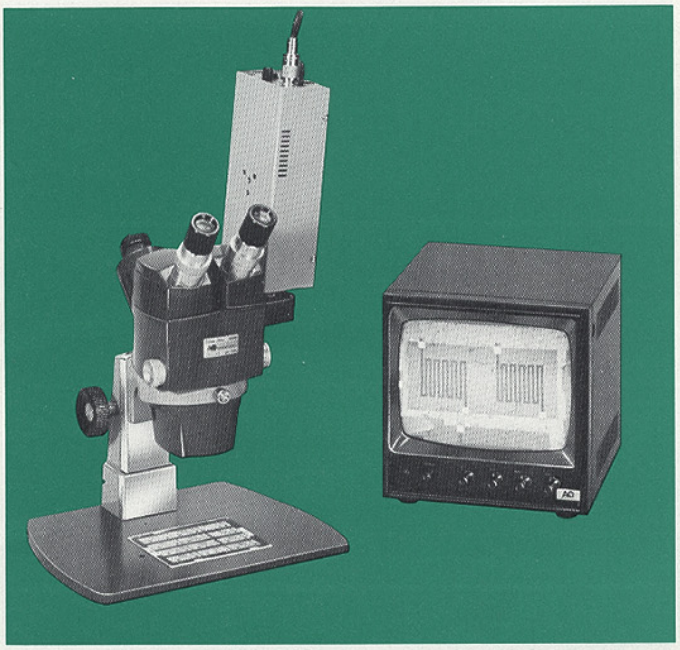
Adapter 4" x 5" Film Back

Electronic Camera System Reflex Housing, Focusing Telescope, Electronically Controlled Swing-out Mirror, Shutter, Connecting Cable

Control Unit Push-button Control, Timer, Line Cable

MICROSCOPE VIDEO SYSTEMS

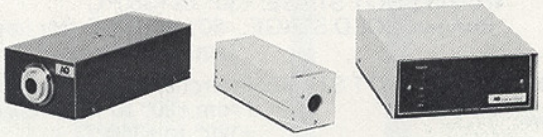
PRICE RANGE: $700-$1900



A wide range of Video Equipment is offered, suitable for both biological and industrial applications. Specimen images can be transmitted to a single monitor or many monitors on the same CCTV hook-up for observation by one or simultaneous viewing by an unlimited number of people.

B&W Cameras - Compact, Light Weight

Two Standard "C" Mounts are available: For assembly lines and routine inspections; High Resolution for teaching specialized lab techniques and for critical inspections.



B&W Monitors - 9" and 12"

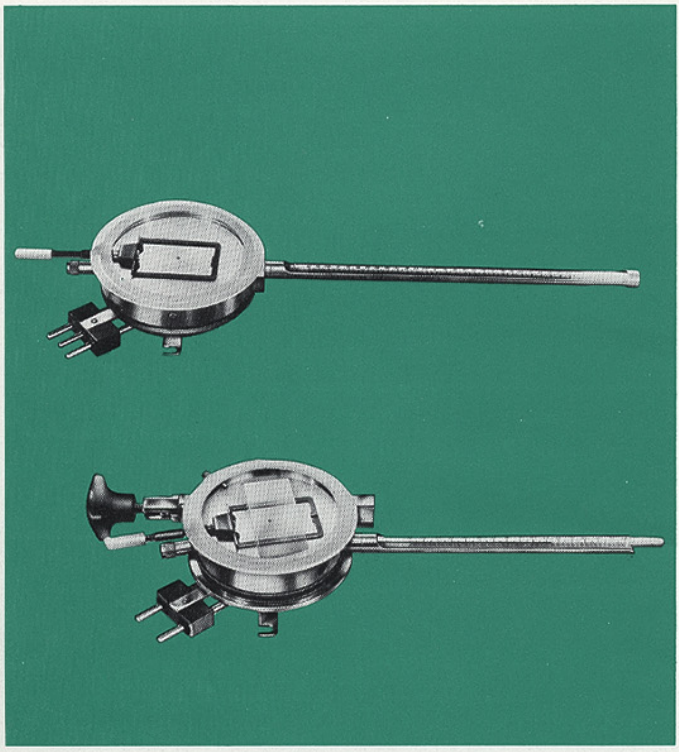
Images are enhanced not only optically but electronically - allowing system to be adjusted according to the detail under study. There is excellent video viewing even with microscope modes which are light limited, such as phase contrast, darkfield or stereo microscopy.

TV Adapter Outfits are available for both AO bright field and stereoscopic microscopes.



MICRO HOT AND COLD STAGES

PRICE RANGE: $2200-$2300



Working Ranges HOT STAGE: +30° to +350° C
COLD STAGE: -50° to +80° C (for use with Liquid CO_2)

Thermometer HOT STAGE: Interchangeable, Gauged From +20° to +230° C and +120° to +350° C
COLD STAGE: Interchangeable, Gauged From -60° to +80° C