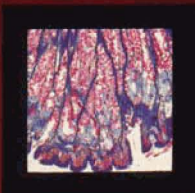


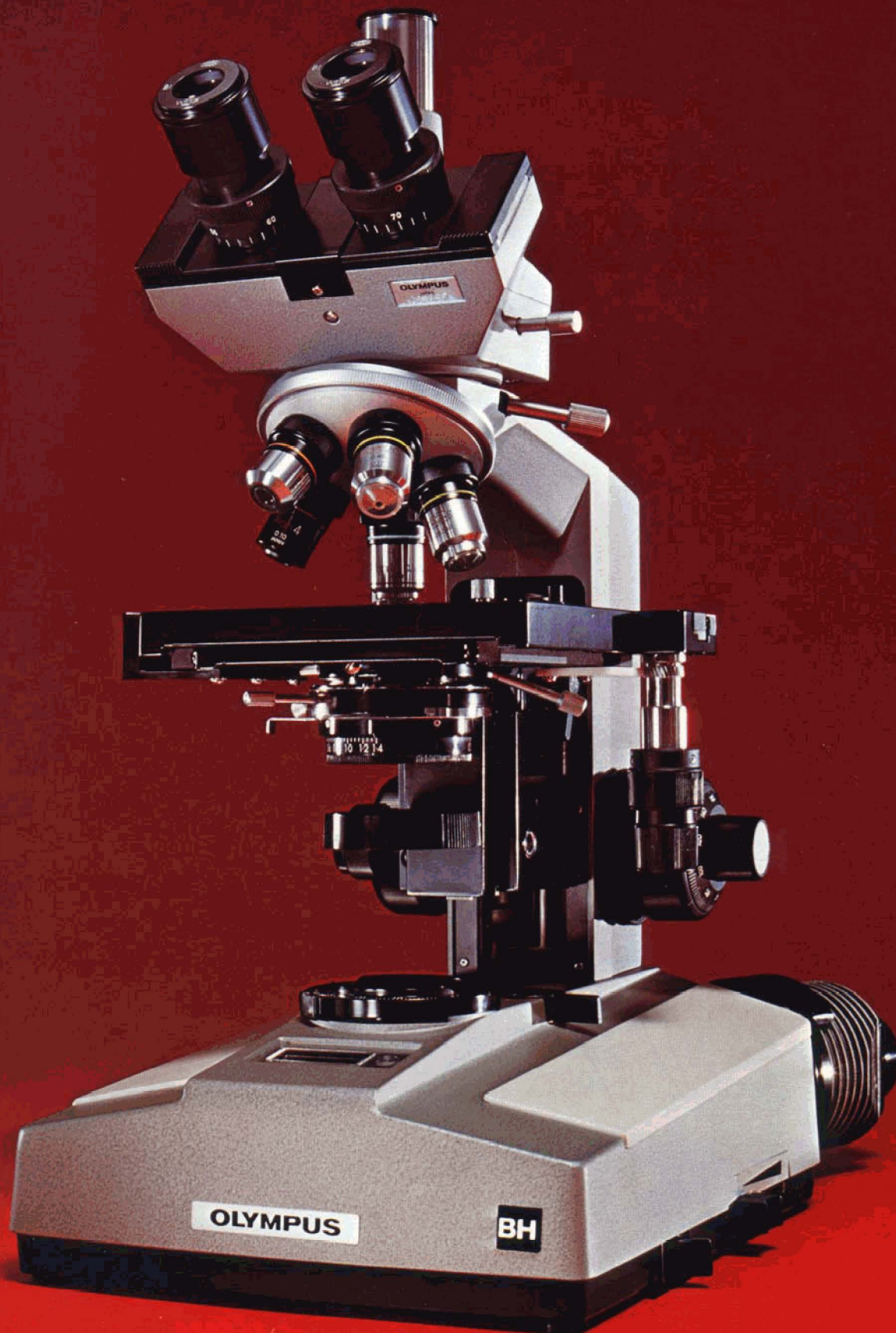
OLYMPUS



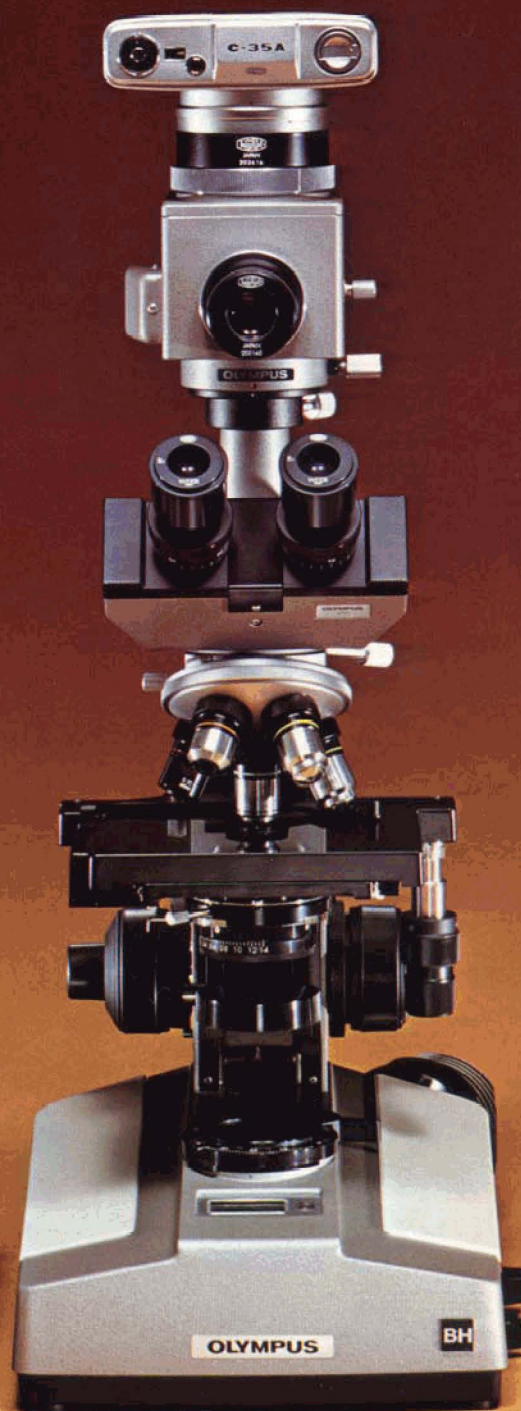
SERIES

BH

System Microscope



BH



Olympus System Microscope Series BH

In response to numerous demands from the scientific and industrial communities, OLYMPUS, a leading manufacturer of quality microscopes and other precision instruments, takes great pride in introducing the new System Microscope Series BH.

Development of the Series BH microscopes has been accomplished by the joint efforts of industrial designers and the experienced OLYMPUS optical and mechanical engineering staff, with particular emphasis on advanced design, excellent durability and unsurpassed performance, and profiting from the innovative technology OLYMPUS has applied in the manufacture of the Universal Research Microscope Model VANOX.

The Series BH offers a choice of three basic stands, Models BHA, BHB and BHC. The Model BHA features an interchangeable nosepiece, an interchangeable 30 W low voltage light source and a high/low magnification selector, and the Model BHB features an interchangeable 30 W low voltage light source and a high/low magnification selector, while the Model BHC has a fixed 15 W low voltage light source and no high/low magnification selector.



■ CHARACTERISTIC FEATURES

1. Outstanding Interchangeability of System Components

A wide range of principal components such as microscope stands, observation tubes, objectives and eyepieces, stages, condensers and other accessories for various microscopic methods makes the Series BH one of the most versatile system microscopes available.

A broad variety of modular, building-block systems provides an ideal way to select the microscopic and photomicrographic combinations most suitable for your requirements, to keep your budget at a realistic figure, and to further expand the capabilities of the microscope by adding reasonably priced accessories tailored to specific purposes.

2. Excellent Performance and Durability

The unsurpassed performance of the Series BH is based on many innovations such as coarse and fine adjustments on a common guideway throughout the entire focusing range of 40 mm, easy-to-operate Koehler type illumination with a transformer built in the base, a field of view more than twice as large as the one with a standard microscope, etc.

Every part of the Series BH components and accessories is designed with emphasis on durability; for instance, smooth running, wear resistant ball guides are employed in the focusing and stage operation mechanisms, and the light source built in the base incorporates a thyristor circuit for stabilization of the power supply.

3. Versatile Camera System

The System Camera Model PM-10-A with automatic film advance facilitates your photomicrographic work, solving difficult color temperature adjustment encountered in photomicrography. A unique color temperature metering and regulating device (CTR) balances the color temperature of the film with the color temperature of the light source. A regulation device for ASA speeds, incorporated in the control unit, permits fine adjustment of ASA film speeds in a 4 increment range. This modular system permits rapid interchange of 35 mm, 3 1/4" x 4 1/4" and 4" x 5" size films.

4. High Quality Optics

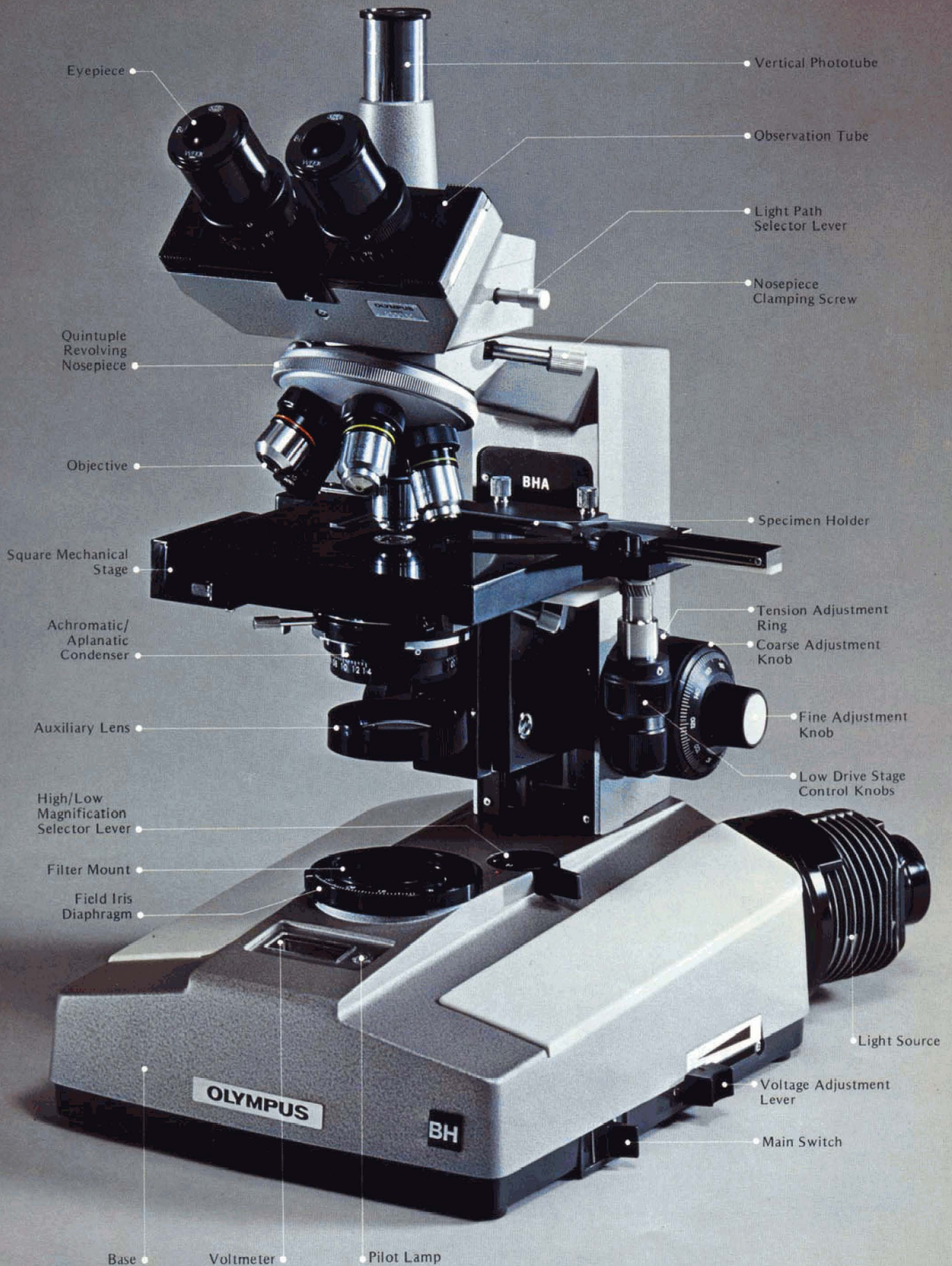
The essential parts of any microscope are its optical elements, a major part of which are the objectives. A choice of Achromats, Fluorites, Apochromats and Plan Apochromats is available.

The eyepieces as well as the objectives, available with the Series BH, standard or optional, cover a wide area of specialized uses for observation and photomicrography. Among the eyepieces designed to further magnify the primary image from the objective, the Photo Eyepieces FK are exclusively computed for photomicrographic application.

5. Modern Functional Design

A "square-line" silhouette characterizes the external appearance of the Series BH. This "square-line" design not only provides excellent stability but also permits rigid attachment of accessories without tools. Arm rests cover the base for comfortable operation. Rigidly constructed for long hard work.

■ VARIOUS COMPONENTS OF THE MODEL BHA



Excellent Performance

Observation Tube
Revolving Nosepiece
Stage

BH

The Series BH surpasses conventional microscopes in its exceptionally functional design, as mentioned below on the Model BHA.

■ OBSERVATION TUBE

- A trinocular tube (inclination 45°) is standard for the Model BHA, for observation and photomicrography. The maximum field number is 21. The tube is rotatable through 360° , with clamping screw, permitting fatigue-free observation of an exceptionally large field of view.
- A unique coating process of the prisms in the observation tube reduces light loss to a negligible amount, thus increasing light transmission by more than twice as much as with conventional observation tubes.
- Interpupillary distance adjustment from 53mm to 72mm. A diopter adjustment ring is provided on both eyepiece tubes to maintain objective parfocality at different interpupillary distances.
- A light path selector lever directs either 100% of the light to the observation tube, or 80% to the phototube and 20% to the observation tube.
- A circular dovetail mount permits interchange of other observation tubes with ease. A binocular tube and a super widefield observation tube are available optionally.

■ REVOLVING NOSEPIECE

- Quintuple revolving nosepiece on ball races with dust-proof carrier. Smooth rotation maintains parfocality of all five objectives. The click stop is positive in action, so that each objective comes to a common center when rotated into working position.

- A dovetail slide mount of the microscope stand Model BHA-F permits removal of the quintuple nosepiece which facilitates interchange of the standard objective set with

optional objectives or vice versa, according to various microscopic applications, without removal of the objectives from the nosepiece.

- Objectives for different methods of microscopic observation can easily be mounted on the extra nosepiece in accordance with your specific requirements. These objectives include plan apochromatic, phase contrast, metallurgical, and differential interference contrast objectives.

■ STAGE

- The standard stage is a large, graduated, square mechanical stage, 142mm x 140mm, on dovetail stage bracket, with clamping lever and large coaxial low drive controls on the right hand side.
- The traversing area is 52mm x 76mm, with low positioned, coaxial control knobs. Traversing movements on ball guides, with verniers reading to 0.1mm.

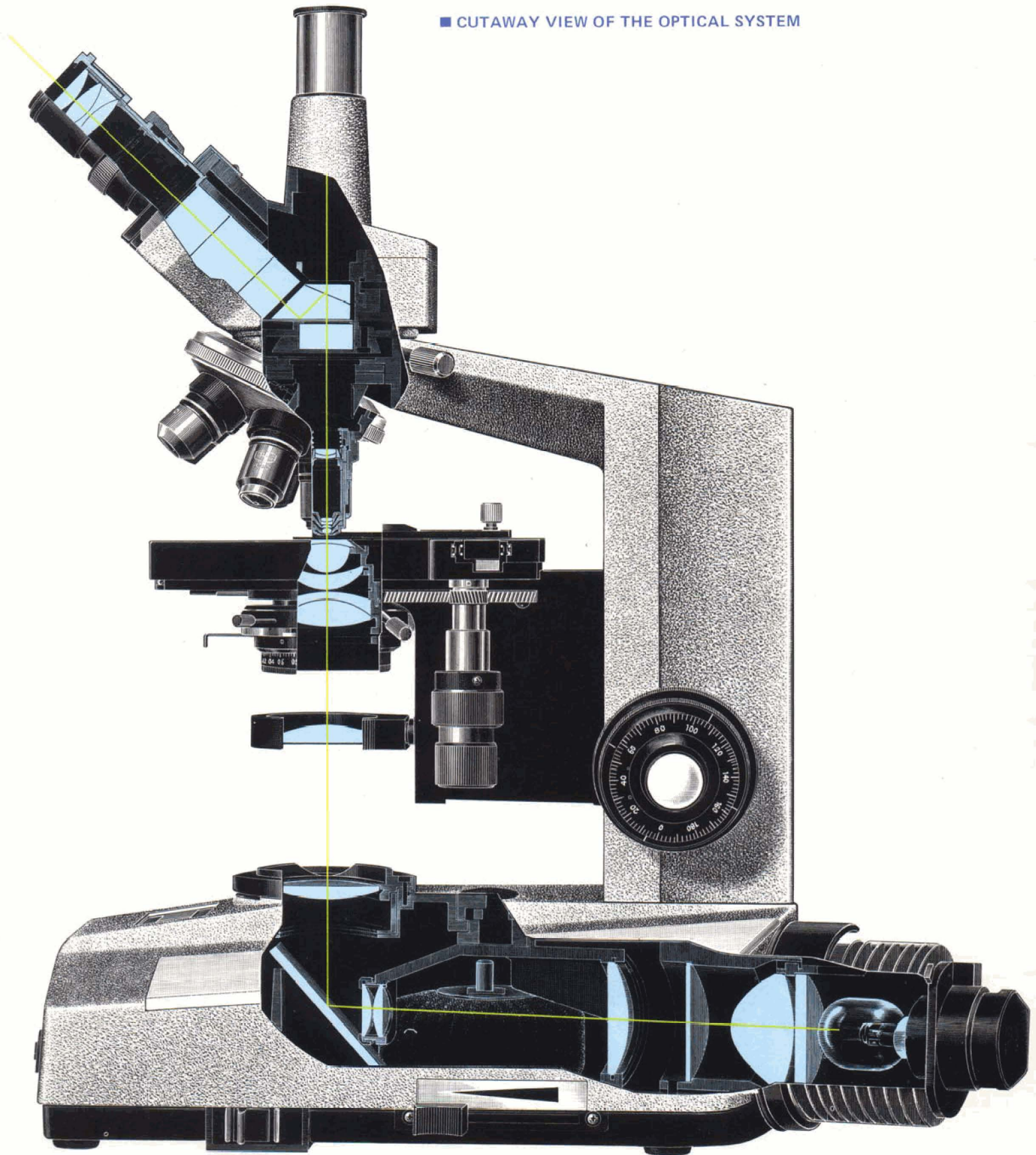
The mechanical stage incorporates 20 steel balls and 8 steel guide wires for smooth cross movements of the top stage plate. These balls and guide wires are hardened for wear resistance and durability. The minimum friction of the ball bearings assures troublefree operation throughout the life time of the stage.

- Large specimen holder, capable of simultaneous use of two 26mm x 76mm specimen slides, is removable to obtain a large unobstructed stage surface.

- The dovetail stage bracket permits easy attachment or removal of the stage. The horizontal dovetail mount facilitates interchange of optional stages in accordance with various observation methods.

Excellent Performance

■ CUTAWAY VIEW OF THE OPTICAL SYSTEM



■ FOCUSING ADJUSTMENTS

- The dual coarse and fine focusing knobs are coaxial and designed to share a common guide-way to give a smooth, even motion throughout the whole range of 40mm.
- The coarse adjustment knobs are 56mm in diameter for easy operation.
- The fine focusing adjustment is graduated in minimum increments of 2μ and incorporates special reduction gears for smooth operation and lifetime reliability.
- The automatic pre-focusing lever is provided to prevent possible contact between specimen and objective as well as to simplify coarse focusing. The lever is locked after coarse focus has been accomplished. This prevents further upward travel of the stage and automatically provides a limiting stop if the stage is lowered and then raised again. The automatic pre-focusing lever does not restrict fine focusing.
- A tension adjustment ring is provided next to the right hand coarse adjustment knob. With this device the tension of the coarse adjustment is freely adjustable for either heavy or light movement depending on operator preference.

■ CONDENSERS

- A ring mount with clamping screw and centering device accepts interchangeable condensers, standard or optional. Rack and pinion height adjustment, with condenser height displacement up to 32mm.
- The standard condensers include the achromatic/aplanatic condenser N.A. 1.40, the Abbe condenser N.A. 1.25, and the super widefield condenser N.A. 0.95, depending on the model of your choice, for optimum illumination of the specimen from low power 4X to oil immersion 100X objectives. Furthermore, the achromatic/aplanatic condenser is corrected for chromatic aberration, spherical aberration and curvature of field, and is provided with a graduated aperture iris diaphragm, decenterable for oblique illumination. It is recommended for work with high quality apochromats and plan apochromats.
- Either one of the condensers, above, is easily replaceable with other condensers such as darkfield, phase contrast, etc.

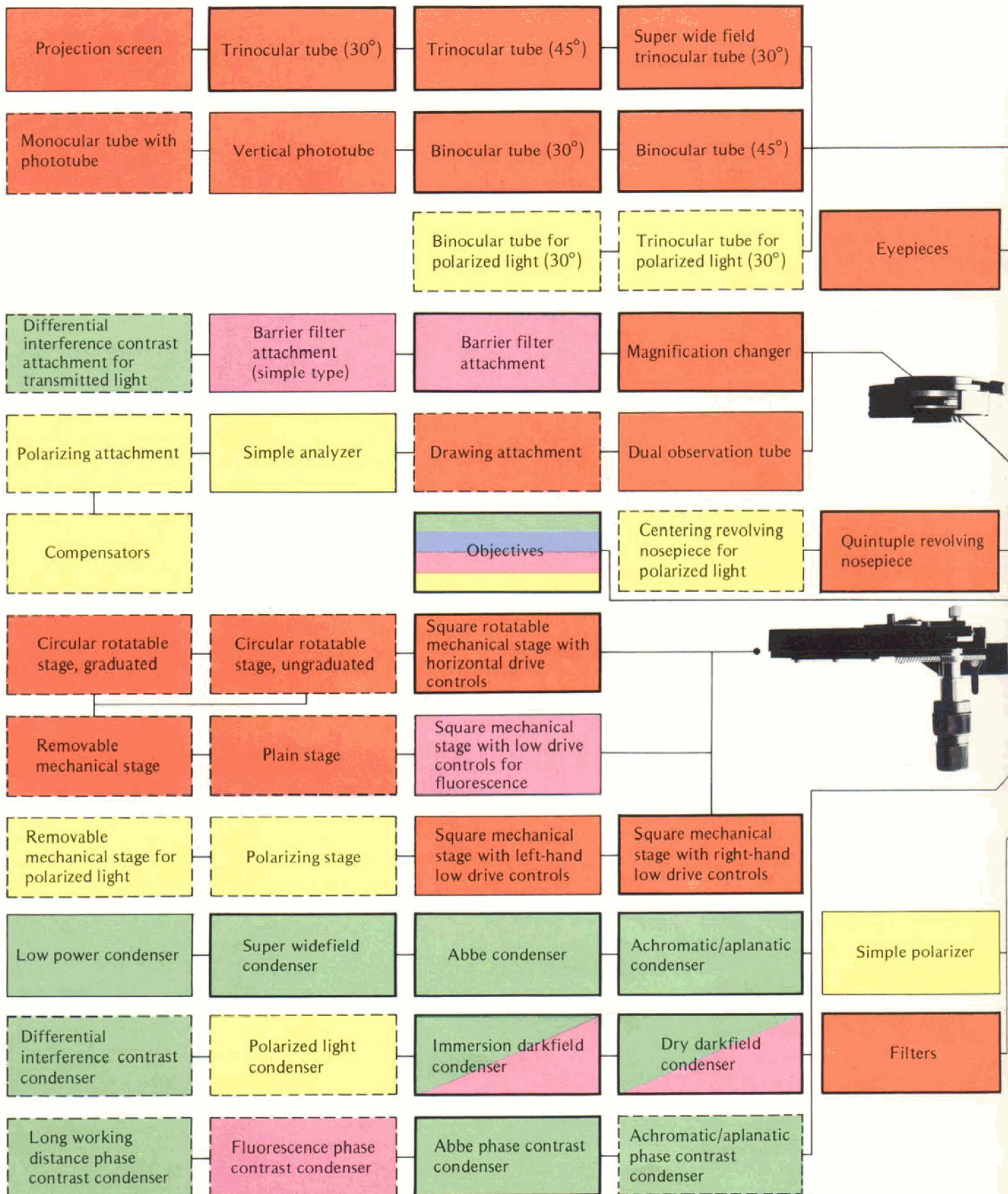
Focusing Mechanisms

The fine adjustment mechanism operates a focusing pinion common to fine and coarse adjustment motion via a four-stage gear reduction system. This unique design permits fine focusing over the entire range of the coarse focusing movement and is practically free from backlash. The coarse adjustment mechanism works directly on the focusing pinion, which moves the rack attached to the stage mounting block, by passing the reduction gears. Again, positive backlash-free control is assured.

■ BASE

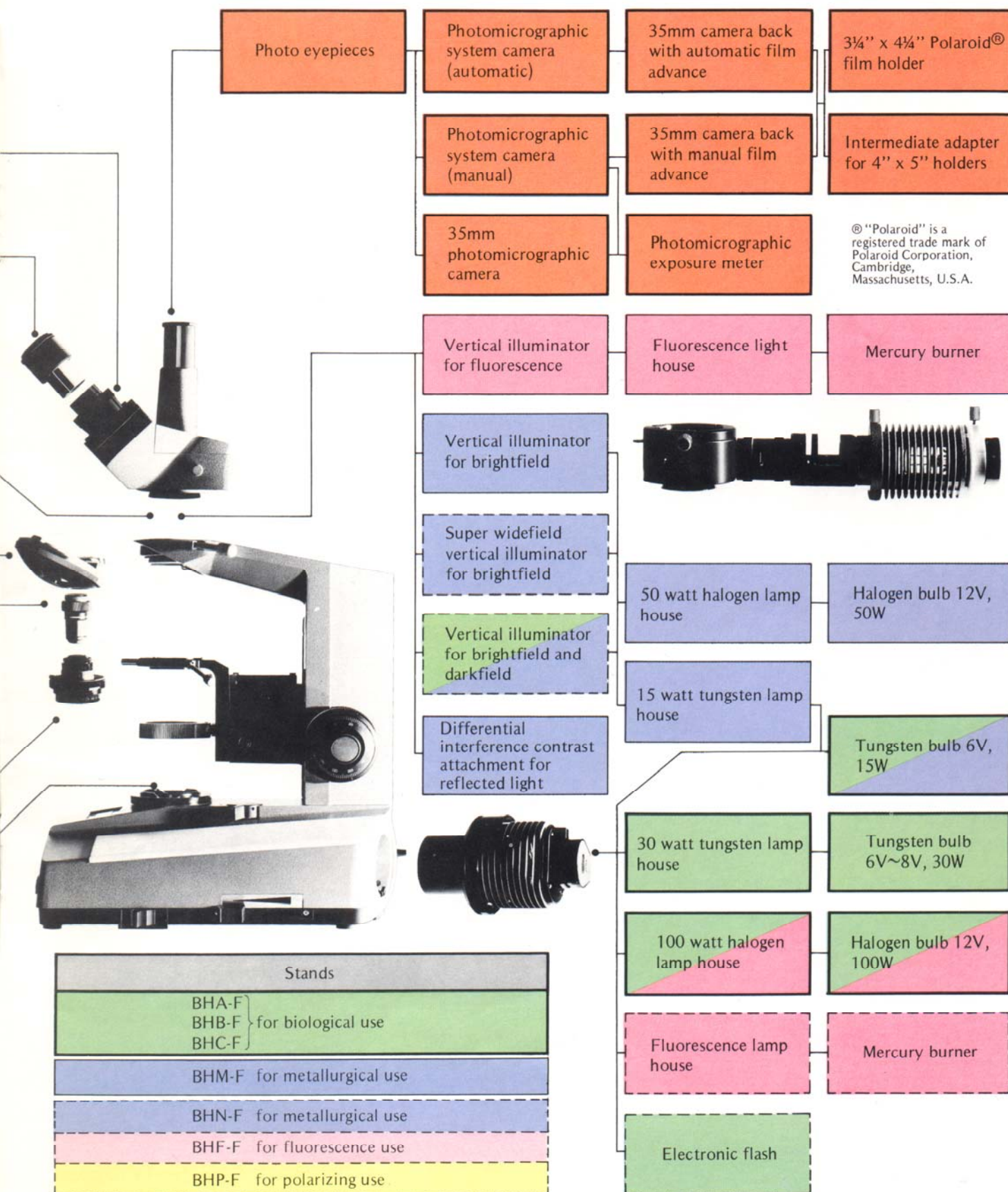
- The dust-proof square base incorporates a high/low magnification selector system and a low voltage transformer. The "on-off" switch, voltmeter and sliding control lever for continuously variable light intensity are built in the base for effortless operation.
- The high/low magnification selector lever enables Koehler type illumination throughout the whole range of objective powers, from 4X to 100X, without manipulation of the auxiliary lens or interchange of condensers.
- The in-base illuminator serves to direct light of the appropriate quality and intensity, emitted from a pre-centered tungsten bulb, towards the microscopic object to ensure even illumination of the field. This in turn results in photomicrographic negatives of optimum contrast, brilliance and uniformity.
- The built-in transformer, variable from 0 V to 10 V, incorporates a thyristor circuit in its rheostat for smooth fine adjustment of light intensity.
- The standard light source incorporates a 30 watt pre-centered tungsten filament bulb, provided with a socket for positive contact, eliminating the problems of defective contact and over-heating. Interchangeable with optional light sources such as high intensity halogen bulbs, mercury burners and electronic flash bulbs.

System Chart of Interchangeable Components



= Available on order
 = In preparation
 = Under development

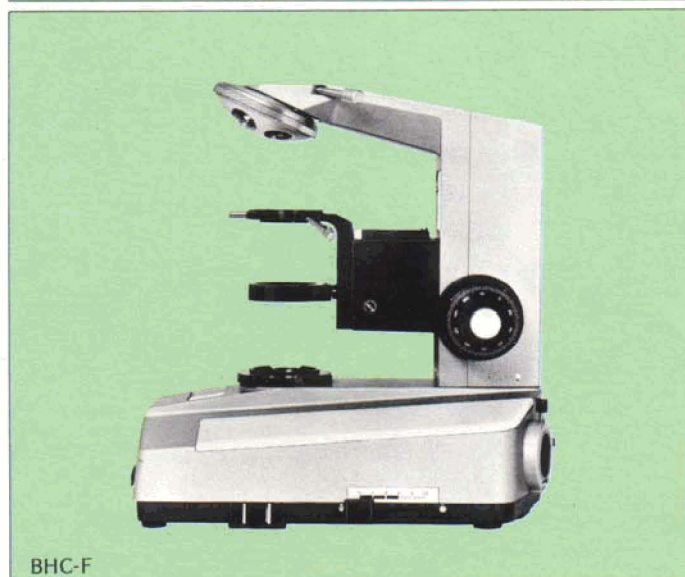
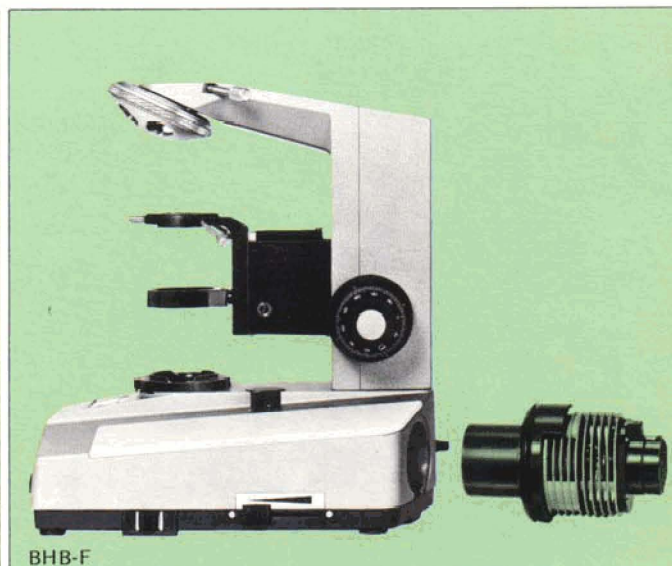
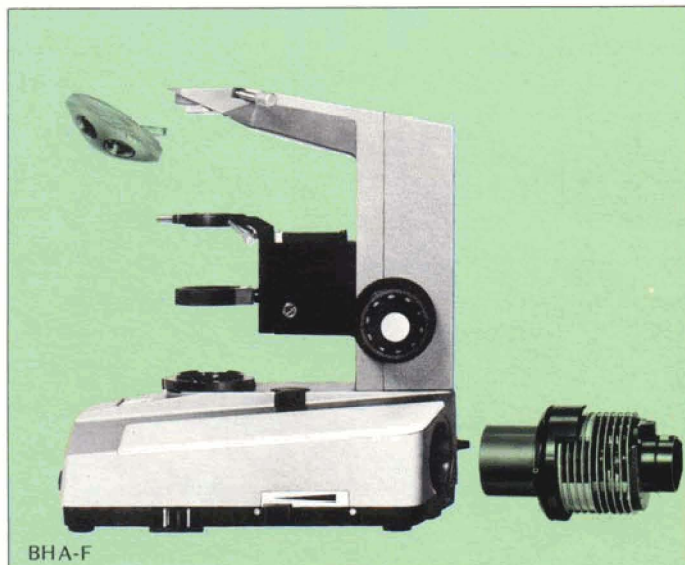
= For general microscopy
 = For biological microscopy
 = For metallurgical microscopy
 = For fluorescence microscopy
 = For polarizing microscopy



Technical Descriptions

■ MICROSCOPE STANDS

Extremely sturdy make, functional design, ripple tone finish, acid resistant. The differences between these three stands are the interchangeability of nosepiece and/or light source with the Models BHA and BHB, respectively.



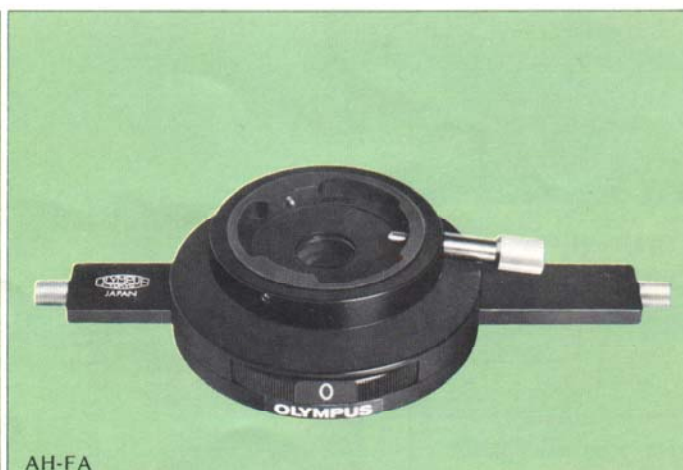
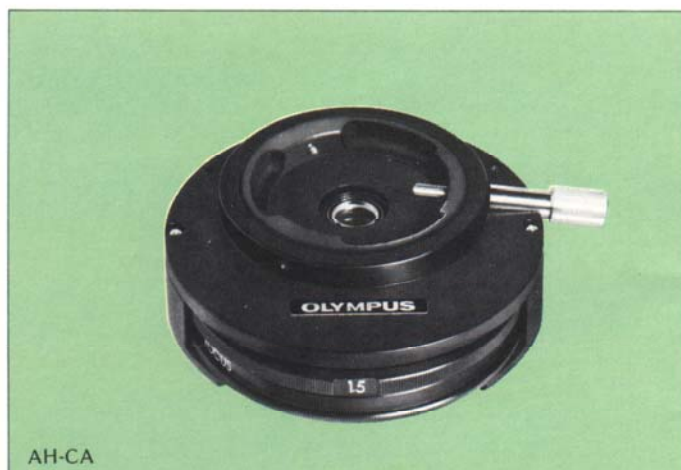
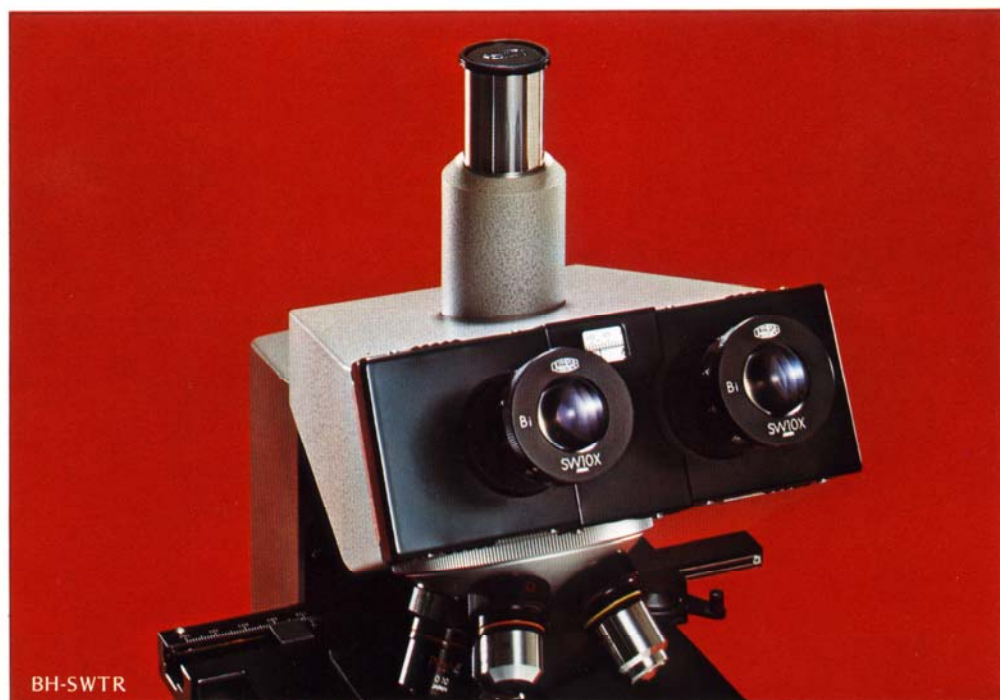
■ LIGHT SOURCES

The light sources available with the stands Models BHA-F and BHB-F are interchangeable.



Models	BHA-F	BHB-F	BHC-F
Observation tube mount	Circular dovetail, permitting tube rotation through 360°.		
Revolving nosepiece	Large, quintuple nosepiece, removable.	Large, quintuple nosepiece, not removable.	
Stage mount	Horizontal sliding dovetail.		
Coarse and fine adjustment	<ul style="list-style-type: none">· Coaxial adjustment knobs.· Coarse adjustment with rack-and-pinion; fine adjustment with special reduction gear, graduated in increments of 2μ.· Focusing range for both coarse and fine adjustments 40mm, on ball guides.· Automatic pre-focusing lever.· Tension adjustment ring for coarse adjustment.		
Condenser mount	<ul style="list-style-type: none">· Condenser height adjustment on rack-and-pinion, range 32mm.· Condenser interchangeable in ring mount.· Centering device.· Auxiliary lens removable.		
Filter mount	45mm diameter filters and a polarizer can be mounted on the light exit on the base. An analyzer can be inserted below the observation tube.		
Illuminating system	<ul style="list-style-type: none">· In-base illuminator, with high/low magnification selector.		<ul style="list-style-type: none">· In-base illuminator without magnification selector.
	<ul style="list-style-type: none">· Objective powers variable from 1.3X to 100X with interchange of condensers.· Maximum field number 29.		
Light source	30 watt pre-centered tungsten filament bulb, interchangeable with various light sources.		15 watt pre-centered tungsten bulb, cordless, not interchangeable.
Transformer built into base	<ul style="list-style-type: none">· Incorporates a thyristor circuit for fine voltage adjustment.		
	<ul style="list-style-type: none">· Low voltage for illuminator variable from 0V to 10V.		<ul style="list-style-type: none">· Low voltage variable from 0V to 8V.
Dimensions	300mm (height) x 215mm (width) x 280mm (length)		
Weights	5.6 kg	5.9 kg	5.7 kg
Light sources	100 watt halogen lamp house Model BH-LSH	30 watt tungsten lamp house Model BH-LH	
Centeration	Centerable	Pre-centered	
Collector	Aspherical lens		
	Focus adjustable	Pre-focused	
Filters	Various filters available		Frosted filter built-in
Bulbs	JC12V 100 watt halogen bulb	30 watt pre-centered tungsten filament bulb LS30	15 watt pre-centered tungsten filament bulb LS15
Microscope stands	BHA-F, BHB-F		BHC-F

Technical Descriptions



■OBSERVATION TUBES

The observation tubes are designed to match the streamlined appearance of the microscope stands for ease of operation, reliable performance and outstanding durability. The binocular and trinocular tubes are available in 30° or 45° inclination, standard or optional.

A 30°-inclined super widefield tube is also available to scan a flat field of view 260% larger than the standard WF widefield eyepieces. This is very convenient in biological research as well as routine work, for it will increase the efficiency and speed of microscopic work without undesirable eyestrain.

Models	SW trinocular tube (30°) BH-SWTR*	Trinocular tube (45°) BH-TR45	Trinocular tube (30°) BH-TR30	Binocular tube (45°) BH-BI45	Binocular tube (30°) BH-BI30	(Vertical phototube BH-PT)**
Maximum field number***	29	21				
Diopter adjustment	Adjustable diopter setting on SW eyepieces	Both observation eyepiece tubes equipped with variable diopter adjustment, compensating for tube length variations.				—
Convergent angle	0° (parallel optical axes in binocular tubes)					—
Interpupillary distance adjustment	56–74mm, graduated	53–72mm, graduated				—
Light path selection	Two position selector lever; to direct 100% of the light to observation tube or 20% to observation tube and 80% to the phototube.			—	—	—
Attachment	Circular dovetail					
Rotation	Rotatable through 360°, on circular dovetail.					
Intermediate adapters	Attachable					

Remarks: * Regular size eyepieces can be used in conjunction with an eyepiece adapter, provided.
** A vertical phototube is in preparation.
*** The field number is used in the calculation of the visual field diameter:

$$\text{Diameter in mm} = \frac{\text{Field number of eyepiece}}{\text{Power of objective in use}}$$

■INTERMEDIATE ADAPTERS

• Magnification Changer Model AH-CA

The Model AH-CA incorporates 1X, 1.25X, 1.5X and PH (phase contrast) positions to permit magnification changes without change of objectives or eyepieces, as well as easy, accurate alignment of light annulus and phase annulus. Magnifications of 1X, 1.25X and 1.5X are provided on a rotating turret. Centering telescope built in "PH" position, focusable.

• Barrier Filter Attachment Model AH-FA

UV barrier filter attachment, mounted between nosepiece and observation tube, with revolving turret containing five apertures, permanently mounted UV barrier filters L-410 and AFC on slide, and Y-495, O-515, O-530 and R-610 built in turret.

Technical Descriptions

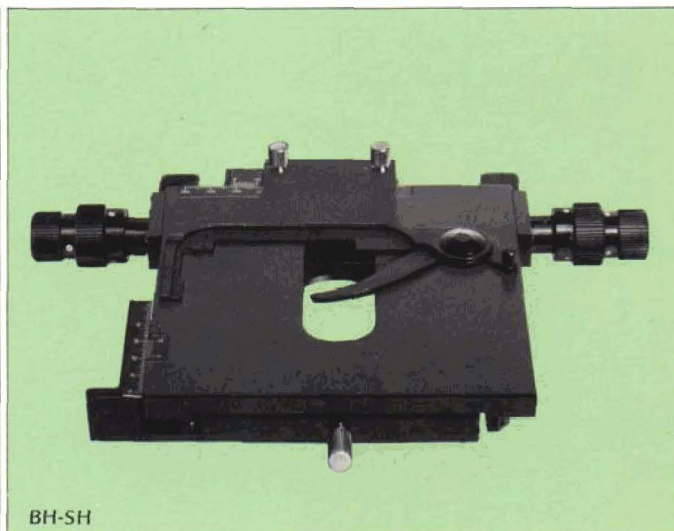
MECHANICAL STAGES

The mechanical stages available with the Series BH include a large square rotatable stage and three non-rotatable square stages. The non-rotatable stages are provided with low drive coaxial controls on ball guides and rack-and-pinion, while the rotatable mechanical stage has horizontal coaxial drive

controls on ball guides and rack-and-pinion for north-south movement; and dovetail guide and leadscrew for east-west movement, rotatable through 360°, convenient for trimming or framing for photomicrography or oblique illumination and differential interference contrast observation



BH-SV



BH-SH

CONDENSERS

The condenser mount is a ring mount equipped with a centering device and rack-and-pinion height adjustment for the interchangeable condensers tabulated on opposite page. The condensers are designed to slip into the ring mount and

are locked with a clamping knob. They permit rapid interchange for different modes of microscopy, e.g. bright-field, darkfield, immersion or dry, super widefield, phase contrast, from low to high power objectives.



BH-AAC



BH-CD



BH-SWC



BH-PC



BH-DCW



BH-DCD

Models	Square rotatable mechanical stage with horizontal drive controls BH-SH	Square mechanical stage with right-hand low drive controls BH-SV	(Square mechanical stage with left-hand low drive controls BH-SVL*)	(Square mechanical stage with low drive controls for fluorescence BH-SVF**)
Size	135 x 134mm	142 x 140mm		
Traversing area	44 x 76mm, with verniers reading to 0.1mm	52 x 76mm, with verniers reading to 0.1mm.		
Drive controls	North-south movement on ball guides and rack-and-pinion; East-west movement on dovetail guide way, leadscrew	North-south and east-west movements on ball guides, and rack-and-pinion.		
Specimen holder	Removable to obtain large unobstructed surface.			
Rotation	Rotatable	Non-rotatable		
Dovetail mounting	Horizontal sliding dovetail mount			

Remarks: * In preparation.

** In preparation. With exclusive longitudinal grooves to reduce oil contact of specimen slides with stage surface.

Models	Achromatic/aplanatic condenser BH-AAC	Abbe condenser BH-CD	Super widefield condenser BH-SWC	Abbe type phase contrast condenser BH-PC	Immersion darkfield condenser BH-DCW	Dry darkfield condenser BH-DCD	(Low power condenser BH-ULC*)
Type	Achromatic/aplanatic type	Abbe type			Cardioid type		Single lens
Lens assembly	5 elements in 3 groups	2 elements in 2 groups			2 elements in 1 group	1 element	
N.A.	1.40	1.25	0.95	1.25	1.40–1.20 (oil)	0.92–0.80 (dry)	0.1
Objective power	4X–100X (SW: 10X–100X)	4X–100X	SW: 4X–100X	4X–100X (PC: 10X–100X)	10X–100X	10X–40X	1.3X–2X
Aperture iris diaphragm	Numerical aperture scale	Scale for iris diaphragm diameter			—	—	—
Focal length	12mm	13mm	17.5mm	13mm	7.8mm	12mm	37mm
Condenser mount	Ring mount						
Others	Oblique illumination			Centerable annular aperture			

Remarks: *The low power condenser is in preparation.

Photomicrographic Camera Systems

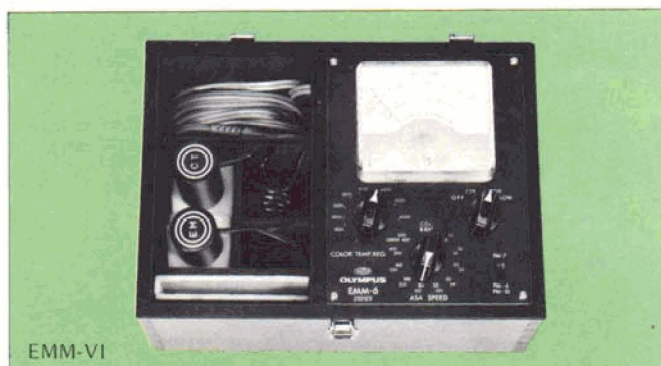
The PM-10 System Camera combines the features and advantages of many separate conventional attachment cameras, ranging from 35 mm camera back to 4" x 5" film holders. The Model PM-10 consists of two basic units—a fully automatic version Model PM-10-A and a popular manual version Model PM-10-M.

The modular design concept of the system camera permits easy interchangeability of many accessories. When these modular accessories are attached to the automatic or manual photomicrographic bodies in accordance with your requirements, sharply focused pictures on standard 35 mm film, 3¼" x 4¼" Polaroid film or 4" x 5" size film can easily be obtained. The data imprinting 35 mm camera back can, be easily attached on the exposure body. Once in place, the back enables the user to imprint information such as numbers, symbols, etc., on the film.

The Model PM-10-M and the Attachment Camera Model PM-6 incorporate a light measuring port to accept the exposure and color temperature probes of the Exposure Meter Model EMM-VI.



PM-10-35A



EMM-VI



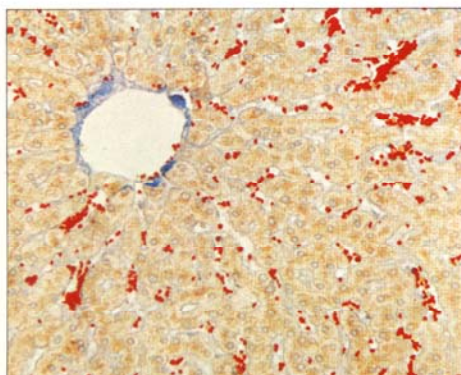
PM-10-35L2A



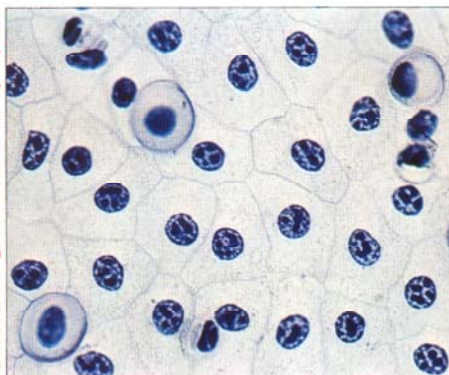
PM-10-35M



PM-6



Pig liver



Epithelial cell of a newt



Pit vessel of Japanese cedar

Models	PM-10-35A	PM-10-35M	PM-6
Components	<ul style="list-style-type: none">Automatic exposure body PM-PBAAdapter for 35mm camera back with automatic film advance PM-D35A35mm camera back with automatic film advance C-35AControl unit for fully automatic 35mm camera back PM-CBAOthers: Focusing telescope, Focusing magnifier, Eyepiece adapters, Filters.	<ul style="list-style-type: none">Manual exposure body PM-PBMAdapter for 35mm camera back with manual film advance PM-D3535mm camera back with manual film advance C-35Others: Focusing telescope, Focusing magnifier, Eyepiece adapters, Filters.	<ul style="list-style-type: none">35mm attachment camera, comprising manual exposure body
35mm camera back	Automatic film advance with built-in motor.	Manual film advance.	
	Information imprinting device, self-setting frame counter, rewinding knob, film size 24mm x 36mm.		
Light path selection	3-position light path selector knob for observation, observation-and-photography, and exposure measurement.		
Exposure & color temperature controls	<ul style="list-style-type: none">The control unit is a console type with switches for automatic exposure, time exposure and flash synchronization; ASA film speed selector dial for different films from ASA 6 to ASA 3200; ASA fine regulation dial, and zero-resetting color temperature meter. Fine adjustment of ASA film speed 0.75, 0.85, 1, 1.2, 1.5.Automatic compensation for reciprocity failure.	<ul style="list-style-type: none">The manual exposure body is provided with a light measuring port to accept the exposure meter Model EMM-VI which facilitates the determination of correct exposure time and color temperature.The exposure meter Model EMM-VI with direct reading scales for 35mm exposure measurements (High: 1/250–1/2 sec. Low: 1/2–32 sec.); for large formats (High: 1/30–4 sec.) Low: 4–128 sec.) Color temperature meter for light balancing.	
Shutter times	Automatic exposure range 32 min. to 1/100 sec. Push button for automatic shutter release, to eliminate shutter vibration.	B and 1 sec. to 1/250 sec. with integrated mechanical shutter in vibration proof rubber mount.	
Large format attachments	Polariod 3¼" x 4¼", 4" x 5" sheet film holders, film pack holder.		Not available.

Optical Characteristics

In keeping with the varied requirements of the users, Olympus makes available objectives of high resolution from 1.3X to 100X magnifications. They include Achromats, Plan Achromats, Fluorites, Apochromats, Plan Apochromats and Super Widefield Plan Achromats. Especially, the Plan Apochromats are capable of producing a flat image to the edge of the field, with excellent resolution, free of field curvature. Chromatic aberration is corrected for three colors, aplanatically aberration for two colors. The highest class suitable for histological use.

All eyepieces are computed to match the objectives for full chromatic and distortion correction. They are Compensating, Flat Field High-Eyepoint, Super Widefield, Photo Eyepieces, etc.

■ EYEPIECES

Type	Initial Magnification	Field Number
Compensating	BiK5X	21
	K20X	7.5
	BiK20X	7.5
Widefield	WF 10X	18
	WF 10X Micro (with micrometer 10/100mm)	18
	WF 15X	12
	BiWF 10X	18
	BiWF 15X	12
High Eyepoint Widefield	H.E.P. WF 10X	18
	H.E.P. BiWF 10X	18
Super Widefield	BiSW 7X	29
	BiSW 10X	26.5
Photo	FK 2.5X, FK 3.3X	
	FK 5X, FK 6.7X	

■ OBJECTIVES

Type		Initial Magnification	Numerical Aperture	Free Working Distance
Achromats		4X	0.10	19.87 mm
		10X	0.25	5.40
		20X	0.40	1.58
		40X	0.65	0.39
		60X	0.80	0.26
		100X (oil)	1.30	0.11
		S-40X (spring)	0.65	0.39
		S-60X (spring)	0.80	0.26
		S-100X (spring, oil)	1.30	0.11
		I-100X (iris diaphragm)	1.30	0.11
	No cover Ach 40X (for use without cover glass)	0.65	0.71	
Fluorities (Semi apochromats)		FL S-40X (spring)	0.75	0.49
		FL S-60X	(in preparation)	
		FL S-100X (spring, oil)	1.30	0.10
		No cover FL 40X (for use without cover glass)	0.75	0.53
Phase Contrast	Achromats	10X	0.25	5.78
		20X	0.40	1.60
		S-40X (spring)	0.65	0.39
		S-100X (spring, oil)	1.30	0.11
	Fluorites (Semi apochromats)	FL S-40X (spring)	0.75	0.49
		FL S-100X (spring, oil)	1.30	0.11
Apochromats		Apo 40X (spring, dry, correcting collar)	0.80	0.23
		Apo 40X (spring, oil, iris diaphragm)	1.00	0.19
Plan Achromats		Plan 1.3X	0.03	19.92
		Plan 2X	0.05	18.29
	Super Widefield	Plan 4X	0.10	5.50
		Plan 10X	0.25	7.18
		Plan 20X (spring)	0.40	0.78
		Plan 40X (spring)	0.65	0.22
		SW Plan 100X (spring, oil)	1.25	0.08
		Plan 100X (spring, oil)	1.25	0.14
Plan Apochromats		Plan Apo 4X	0.16	4.35
		Plan Apo 10X (spring)	0.32	0.16
		Plan Apo 20X (spring)	0.65	0.14
		Plan Apo 40X	(in preparation)	
		Plan Apo 100X	(in preparation)	

Combinations of Various Components

BH

Components \ Models		BHA				BHB				BHC	
Microscope stand	BHA-F	●	●	●	●	■	■	■	■	■	■
	BHB-F	■	■	■	■	●	●	●	●	■	■
	BHC-F	■	■	■	■	■	■	■	■	●	●
Quintuple revolving nosepiece	BH-RE	●	●	●	●	■	■	■	■	■	■
30 watt tungsten lamp house	BH-LH	●	●	●	●	●	●	●	●	■	■
Tungsten bulb 6V, 30W	LS30	●	●	●	●	●	●	●	●	■	■
Tungsten bulb 6V, 15W	LS15	■	■	■	■	■	■	■	■	●	●
Binocular tube (45°)	BH-BI45	■	●	■	■	■	●	■	●	■	●
Trinocular tube (45°)	BH-TR45	●	■	●	■	●	■	●	■	●	■
Mechanical stage	BH-SV	●	●	●	●	●	●	●	●	●	●
Abbe condenser	BH-CD	■	■	●	●	●	●	●	●	●	●
Ach/Apla. condenser	BH-AAC	●	●	■	■	■	■	■	■	■	■
Objectives	Achromat 4X	■	■	●	●	■	■	●	●	●	●
	Achromat 10X	■	■	●	●	■	■	●	●	●	●
	Achromat S-40X (spring)	■	■	●	●	■	■	●	●	●	●
	Achromat S-100X (spring, oil)	■	■	●	●	■	■	●	●	●	●
	Plan Achromat 4X	●	●	■	■	●	●	■	■	■	■
	Plan Achromat 10X	●	●	■	■	●	●	■	■	■	■
	Plan Achromat 20X (spring)	●	●	■	■	■	■	■	■	■	■
	Plan Achromat 40X (spring)	●	●	■	■	●	●	■	■	■	■
	Plan Achromat 100X (spring, oil)	●	●	■	■	●	●	■	■	■	■
Eyepieces, H.E.P. BiWF10X, paired		●	●	●	●	●	●	●	●	●	●
Photo eyepiece FK5X		●	■	●	■	●	■	●	■	●	■
Filter (45C)		●	●	●	●	●	●	●	●	●	●
Spare bulbs and fuses, 2 pieces each		●	●	●	●	●	●	●	●	●	●
Immersion oil and vinyl dust cover		●	●	●	●	●	●	●	●	●	●

OLYMPUS



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