# OLYMPUS

# POLARIZING MICROSCOPES

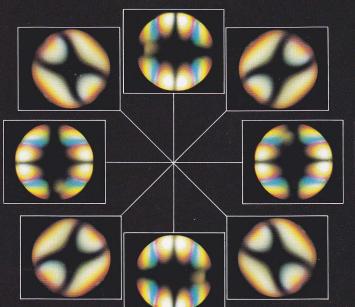


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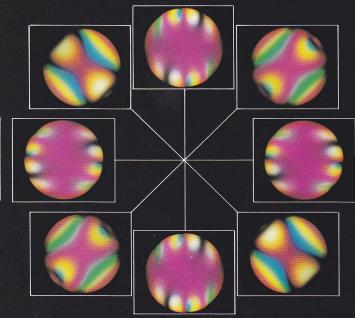
Polarizing microscopes are essential for research on materials with birefringent properties. The importance of polarizing microscopy, which has been employed widely in mineralogy and petrology, is continually expanding due to increasing applications in the fields of chemistry, pharmacology and research on artificial fibers. Together with a new series of long barrel (LB) objectives formulated for biological microscopy, Olympus has designed a range of strain-free long barrel objectives for the polarizing microscope which share the outstanding features of the biological LB objectives, such as high resolution, excellent image contrast, flatness, etc. Olympus has integrated these new polarizing LB objectives

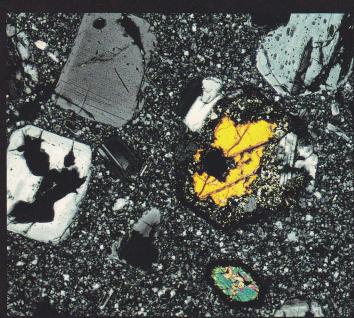
with the Model VANOX (AH), the microscope that represents the pinnacle of Olympus microscope design, and with the highly sophisticated new Model BHS microscope. These new integrated polarizing system microscopes are now available as the Models AHP and BHSP. Additionally, the Model CHA-P microscope, utilizing conventional strain-free objectives, is available as a highly economical polarizing microscope for educational use. Based on over 60 years of experience in microscope design and manufacture, Olympus is confident that these newest Olympus polarizing microscopes fulfill the demand for a diverse range of superior quality.

### Conoscopic figures observed with a cleavage-flake of muscovite



## Same as left, but with a tint plate inserted





Andesite PO D Plan 10x, NFK 3.3x.



Vitamin C PO D Plan 20x, NFK 3.3x.



K 10×/20

Olympus has a variety of photomicrography attachments available for high quality documentation. The state-of-the-art, fully automatic Model PM-10AD, in which a microprocessor has been integrated for automatic precision exposure, and the Model PM-10M manual photography attachments accommodate not only 35mm film but also  $3^1/_4" \times 4^1/_4"$  Polaroid and  $4" \times 5"$  sheet film. For microscopists using only 35mm film, the manual Model PM-6 is an attractive economical option.











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#### **AHP/BHSP Standard Outfits**

			AHP		BHSP			
	BHSP-F AH-BI Trinocular, 30° inclined BH2-BI30 Binocular, 30° inclined BH2-TR30 Trinocular, 30° inclined BH2-TR30 Trinocular, 30° inclined AH-PA-LB With Analyzer and Bertrand Lens BH2-PA With Analyzer and Bertrand Lens AH-PRE Quadruple, Centerable BH-PRE Quadruple, Centerable BH-PRE Graduated, Centerable BH2-SRP Graduated, Centerable AH-FMP Graduated AH-FMP Graduated AH-POC N.A. 0.9-0.25 with Polarizer BH2-POC N.A. 0.9-0.25 with Polarizer AH-TP-530-2 Tint Plate AH-TP-147-2 1/4 Wavelength Retardation Plate AH-CTP-3 Berek Compensator AH-LSH-3 With Lamp Centering Device BHS-LSH Pre-centered JC12V100W-HAL Halogen Lamp X3 JC12V100W-HAL-L Halogen Lamp X3 UYCP AH-SG PO D Ach 4X/0.10, 10X/0.25, 20X/0.40, 40X/0.65, 100X/1.30 PO D Plan 4X/0.10, 10X/0.25, 20X/0.40, 40X/0.65, 100X/1.25 NK 5X F.N. 21 Cross NK 5X F.N. 21 With Cross Line	751	753	651	653	751	753	
Migrosopa Stand	AHB-F-3		0	0				
Microscope Stariu	BHSP-F				0	0	0	0
	AH-BI	Trinocular, 30° inclined	0	0				
Observation Tube	BH2-BI30	Binocular, 30° inclined			0	0		
	BH2-TR30	Trinocular, 30° inclined					0	0
Polarizing Inter-	AH-PA-LB	With Analyzer and Bertrand Lens	0	0				
mediate Attachment	BH2-PA	With Analyzer and Bertrand Lens			0	0	0	0
Revolving	AH-PRE	Quadruple, Centerable	0	0				0
Nosepiece	BH-PRE	Quadruple, Centerable			0	0	0	0
Polarizing Intermediate Attachment Revolving Nosepiece Circular Rotatable Stage Attachable Mechanical Stage Polarizing Condenser  Compensator Plates Lamp House Bulb Power Cord Centering Frosted Glass Strain-free Objectives	AH-SRP	Graduated, Centerable	0	0				
	BH2-SRP	Graduated, Centerable			0	0	0	0
	AH-FMP	Graduated	0	0				
Observation Tube  Polarizing Intermediate Attachment Revolving Nosepiece Circular Rotatable Stage Attachable Mechanical Stage Polarizing Condenser  Compensator Plates Lamp House Bulb Power Cord Centering Frosted Glass Strain-free Objectives  Eyepieces	AH-POC	N.A. 0.9-0.25 with Polarizer	0	0				
Condenser	BH2-POC	N.A. 0.9-0.25 with Polarizer			0	0	0	0
	AH-TP-530-2	Tint Plate	0	0	0	0	0	0
Compensator Plates	AH-TP-147-2	1/4 Wavelength Retardation Plate	0	0	0	0	0	0
	AH-CTP-3	Berek Compensator	0	0				
Loma House	AH-LSH-3	With Lamp Centering Device	0	0				
Lamp House	BHS-LSH	Pre-centered			0	0	0	0
Dulb	JC12V100W-HAL	Halogen Lamp X2	0	0				
Bulb	JC12V100W-HAL	-L Halogen Lamp X2			0	0	0	0
Power Cord	UYCP		0	0	0	0	0	0
	AH-SG		0	0				
	PO D Ach		0		0		0	
	PO D Plan			0		0		0
Eyepieces	NK 5X	F.N. 21	0	0				
	Cross NK 5X	F.N. 21 With Cross Line	0	0				
	WHK 10X	F.N. 20	0	0	0	0	0	0
	Cross WHK 10X	F.N. 20 With Cross Line	0	0	0	0	0	0
	Micro WHK 10X	F.N. 20 With Cross Line and Micrometer	0	0	0	0	0	0
Photo Eyepiece	NFK 3.3X		0	0			0	0
	NFK 5X			0				

#### **CHA-P Standard Outfits**

Module					*:	
	051	651	i			
Microscope Stand*1	CHAP-F		0	0		
Observation Tube	СН-РМО	Monocular, 45° inclined	0		*2	
Observation Tube	BH-PBI	Binocular, 30° inclined		0		
Polarizing Intermediate Attachment	AH-PA-2	With Analyzer and Bertrand Lens	0	0		
Polarizing Condenser	BH-POC	N.A. 0.9-0.25 with Polarizer	0	0		
Compensator Plates*2	AH-TP-530-2	Tint Plate	0	0		
Compensator Plates	AH-TP-147-2	1/4 Wavelength Retardation Plate	0	0		
Lamp Socket	CH-LSH-B		0	0	1	
Bulb	6V10W-HAL	Halogen Lamp X2	0	0		
Strain-free Objectives	PO Ach	4X/0.10, 10X/0.25, 40X/0.65,	0	0		
Eyepieces	AH-WF 10X			0		
Lyepieces	AH-Micro WF 10X	With Cross Line and Micrometer	0	0	1	

\*1The microscope stand, circular rotatable stage and revolving nosepiece are a single unit.
\*2Berek compensator AH-CTP-3 is available as option.

An unwavering will to remain at the forefront of scientific discovery, and an uncompromising commitment to quality have made the name of Olympus a synonym for high performance and reliability all over the world. From cameras and microcassette recorders, to microscopes for various applications,

fiberscopes, and facsimiles,
Olympus has kept abreast
of the most advanced technologies
and discoveries, constantly striving
to develop products which meet the new
and more complex needs

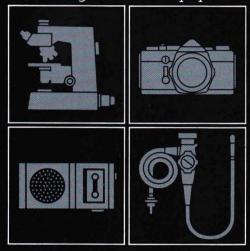
Progress through Precision

of our rapidly changing society.

Precision engineering,
a long experience,
and R&D activities tuned to the requirements
of man in his search for a better life,
have earned Olympus its unparalleled position
in the medical profession, in the photographic industry,
in the laboratory and the classroom,
and in the eyes of all those who benefit
from the functionality, accuracy,

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#### **OLYMPUS**°

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