OLYMPUS INVERTED MICROSCOPES

Models **CKP/CKC**

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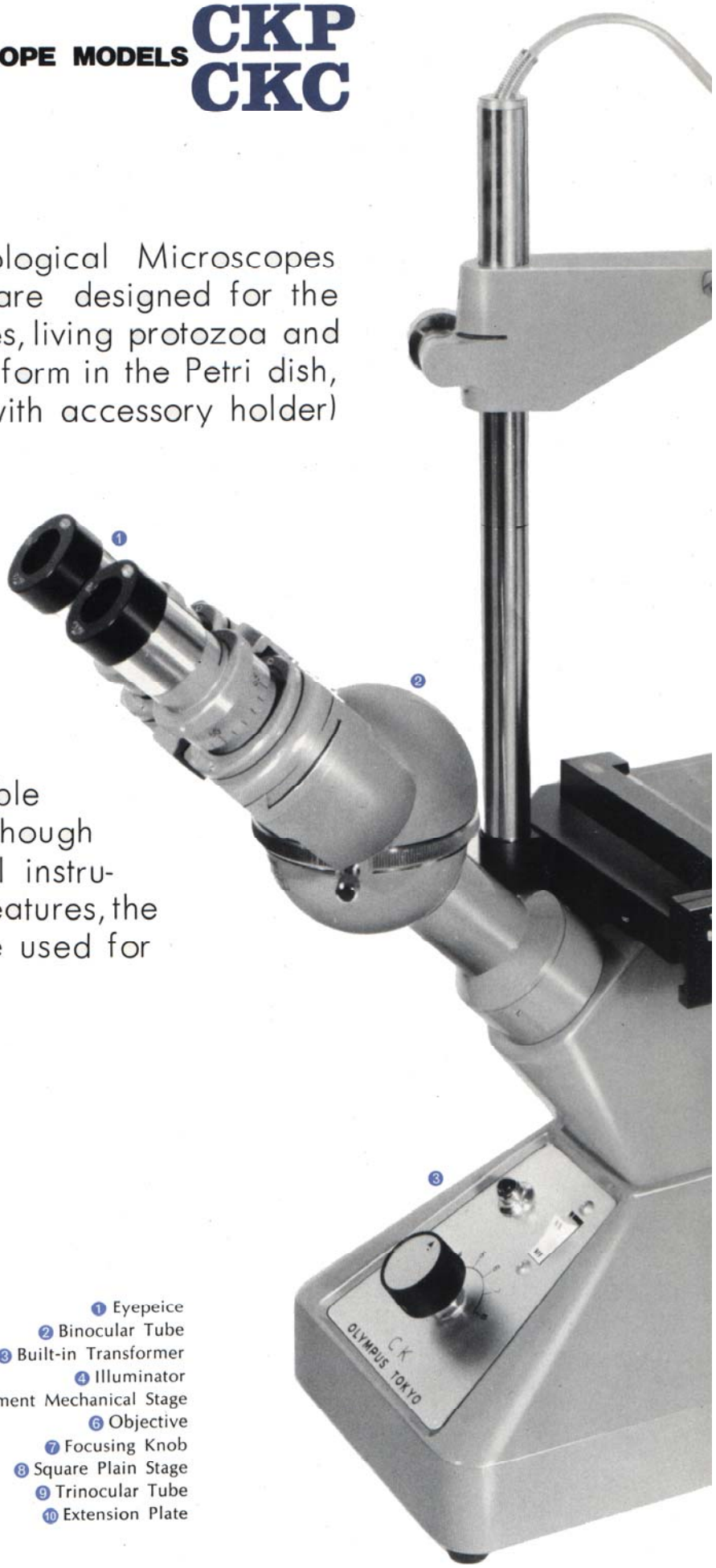
OLYMPUS INVERTED MICROSCOPE MODELS **CKP CKC**

The Olympus Inverted Biological Microscopes Models CKP and CKC are designed for the examination of tissue cultures, living protozoa and similar specimens in natural form in the Petri dish, culture bottle or test tube (with accessory holder) in which they grow.

Not a redesigned metallurgical, chemical or plankton scope, the Olympus Inverted Microscope is a basic tool for the live-culture investigator, embodying compactly all of his basic needs—including comfortable and convenient operation. Though designed as an economical instrument without superfluous features, the inverted microscope can be used for phase contrast microscopy.



1. Eyepeice
2. Binocular Tube
3. Built-in Transformer
4. Illuminator
5. Cross Movement Mechanical Stage
6. Objective
7. Focusing Knob
8. Square Plain Stage
9. Trinocular Tube
10. Extension Plate

STAGES

The Model CKP is supplied with oversize, square plain stage, 180mm×150mm(7.09″×5.91″). Two clamp-on 140mm×70mm(5.51″×2.76″) extension plates are furnished for bottle and microtiter work, and the stage is drilled for stage clips accommodating specimens up to 40mm thick. A removable central insert gives a choice of 30mm or 57mm diameter stage aperture.

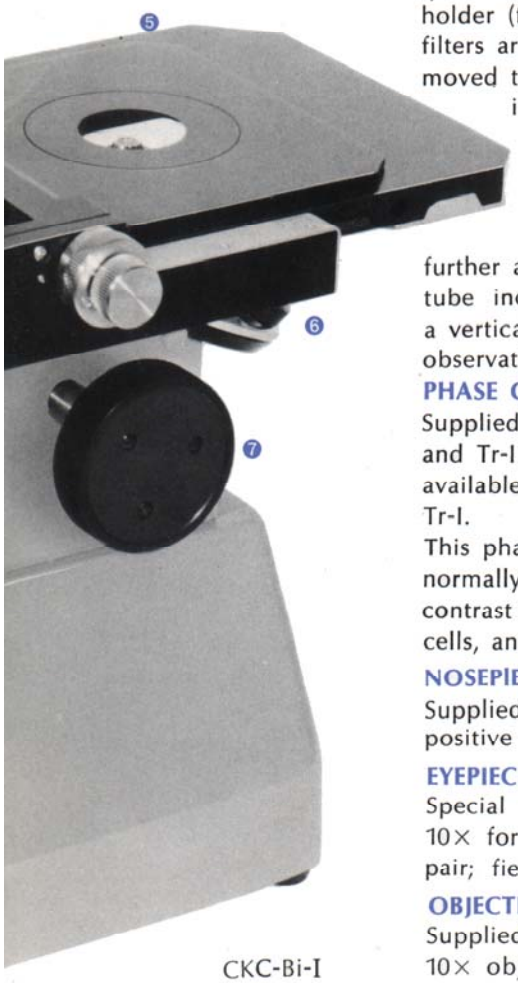
The Model CKC is supplied with a cross-movement mechanical stage, 180mm×140mm(7.09″×5.51″) with an extension plate. The cross-movement stage in both directions is 70mm×56mm. The mechanical movements can be easily removed to make a large plain stage.

FOCUSING

Two large focus control knobs located low down in the "Ready Region" assure comfortable and accurate focusing. The backlash-free rack-and-pinion focusing mechanism has a 15mm range. Tension is instantly adjustable.

ILLUMINATION

Brilliant illumination is provided by a post-mounted high-intensity 12-watt illuminator, powered from a 6-step variable transformer built into the base of the instrument. The lamphouse incorporates a focusable condensing lens with iris diaphragm and a filter holder (for which green, cobalt, and white frosted filters are provided), and the light support may be moved to accommodate any type of culture vessel in a vertical range of 146mm(5.75″).



CKC-Bi-I

OBSERVATION TUBES

The binocular tube is inclined 45° for greater observer comfort; eyepoint position is raised 320mm above the desk surface as a further aid to natural posture, while the trinocular tube includes a 45°-inclined binocular tube and a vertical photo tube for instant transition between observation and photomicrography.

PHASE CONTRAST ATTACHMENT

Supplied as a standard equipment with the CKP-Bi-II and Tr-II, the CKC-Bi-II and Tr-II, while optionally available to the CKP-Bi-I and Tr-I, the CKC-Bi-I and Tr-I.

This phase contrast attachment is designed to impart normally colorless, transparent specimen with enough contrast to permit clear examination of living bacteria, cells, and tissues.

NOSEPIECE

Supplied with triple revolving turret nosepiece with positive click stops.

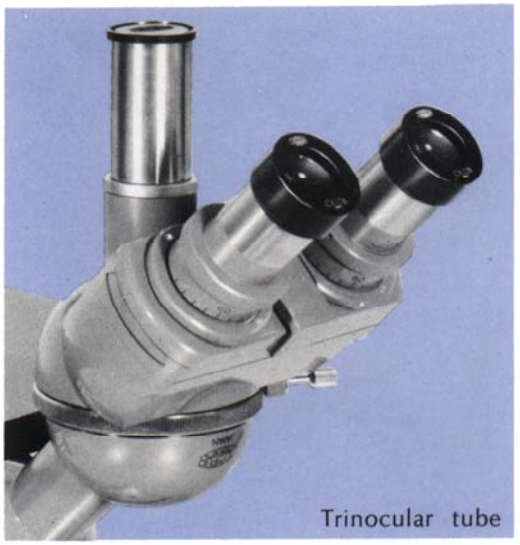
EYEPIECES

Special wide-field, high-eyepoint eyepieces CK-Bi 10× for Models CKP and CKC; matched binocular pair; field number, 17.2.

OBJECTIVES

Supplied with parfocal Olympus Achromat 4× and 10× objectives. An optional accessory available is C20×.

CKP-Tr-I



Trinocular tube

Binocular Tube

STANDARD EQUIPMENT

Model Name			CKP				CKC			
			Bi- I	Bi-II	Tr-I	Tr-II	Bi-I	Bi-II	Tr-I	Tr-II
Main body with revolving nosepiece, built-in transformer and plain stage			●	●	●	●				
Main Body with revolving nosepiece, built-in transformer and cross movement stage							●	●	●	●
Binocular Tube			●	●			●	●		
Trinocular Tube					●	●			●	●
Objectives	Achromat 4×		●	●	●	●	●	●	●	●
	Achromat 10×		●	●	●	●	●	●	●	●
Eyepieces BiCK10×, paired			●	●	●	●	●	●	●	●
Photo Eyepiece FK3.3×					●	●			●	●
Phase Contrast Attachment (CK-PC-II)	Long-focus Phase Contrast Condenser with ring slit mounts for 10× and 20×			●		●		●		●
	Phase Contrast Objective	PC PL10×		●		●		●		●
		PC PL20×		●		●		●		●
	Centering Telescope CT			●		●		●		●
	Wooden Case			●		●		●		●
Stage Extension Plates (paired for CKP; single for CKC)			●	●	●	●	●	●	●	●
Stage Insert Plate			●	●	●	●	●	●	●	●
Stage Clips, paired			●	●	●	●				
Illuminator with pillar			●	●	●	●	●	●	●	●
Spare Bulbs, 6V 2A (2 pcs.)			●	●	●	●	●	●	●	●
Filters	Green, 36×50G-53		●	●	●	●	●	●	●	●
	Cobalt, 36×50C		●	●	●	●	●	●	●	●
	White Frosted, 36×50WF		●	●	●	●	●	●	●	●

OPTIONAL ACCESSORIES

■ Photomicrographic System Camera Model PM-10

The PM-10 is a complete system that can be adapted, according to the choice of equipment, to the level of work. Choice of manual (PM-10-M) or automatic unit (PM-10-A) : 35mm film, 3¼″ × 4¼″ Polaroid® film, 4″ × 5″ sheet film may be used.

■ 35mm Photomicrographic Camera Model PM-6

Produces sharp and clear pictures on 35mm film. Simultaneous photography and viewing. Shock-proof shutter. Shutter speeds B and 1 sec. to 1/250 sec., X-synchronization. The built-in focusing eyepiece has a +2 to −8 diopter adjustment range.

■ Phase Contrast Attachment Model CK-PC-2

■ Photomicrographic Exposuremeter Model EMM-7

Facilitates the determination of correct exposure time and color temperature for light balancing in conjunction with the Models PM-10-M and PM-6. Provided 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.)

■ Photo Eyepieces FK

The photo eyepieces FK are specially designed for photomicrography with the photomicrographic accessories PM-10, PM-6, etc. The eyepiece powers are 2.5×, 3.3×, 5× and 6.7×.

■ Objective C20X

Designed for exclusive use with the inverted microscopes CKP & CKC for investigation of tissue culture, living protozoa, etc. It features a long working distance 1.6mm, convenient to use with a 1.2mm thick Petri dish or slide glass.

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Printed in Japan M20E-1276