

OLYMPUS®

CK2

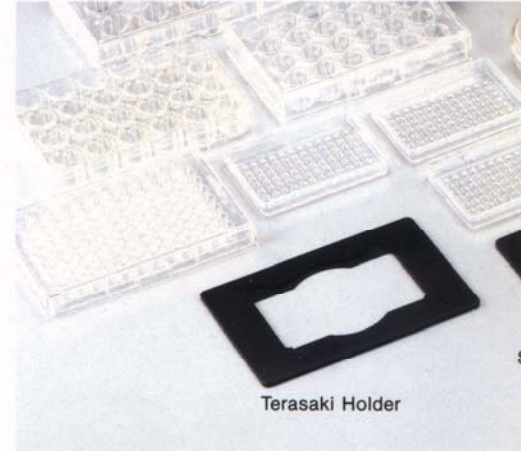
Inverted Microscope



A New, Advanced Concept, the CK2 Series Provide Superb Versatility for Routine and Research Microscopy



Olympus' Superb Optical and Precision Technology Achieves Supreme Functional Design

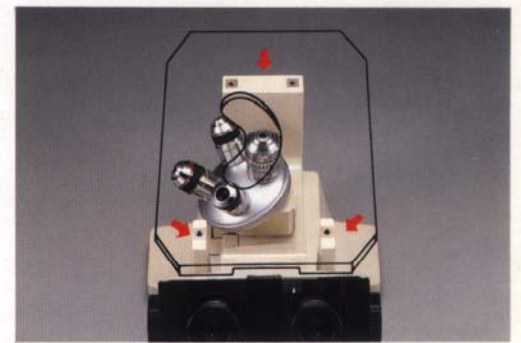


Four objectives can be mounted simultaneously

Simple and Rapid Phase Contrast Observation

Continuous phase contrast observation over a full range of magnifications, from 4X to 40X, is possible now without changing the condenser (W.D. 72mm, N.A. 0.3). Parfocality is maintained despite the change of magnifications, and an easily operated centering mechanism makes alignment of phase annuli and annular diaphragms a simple procedure. Olympus' exclusive phase contrast slider has 4X (detachable) and 10X magnification (used for 20X also) annular diaphragms. An annular diaphragm for 40X magnification can be inserted into the empty slot.

As a result, rapid observation changeover from low to high magnifications is easily performed.



3 point retainers for stage stability



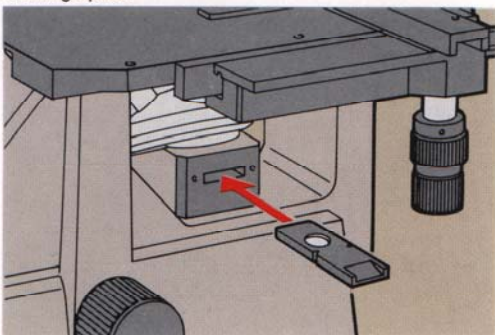
Detachment of condenser provides an ultra-high working space

Large, High Profile Flasks Can Be Mounted

By detaching the condenser, an ultra-high working space (150mm) is obtained above the stage. This enables the researcher to observe specimens in large, high-profile flasks.



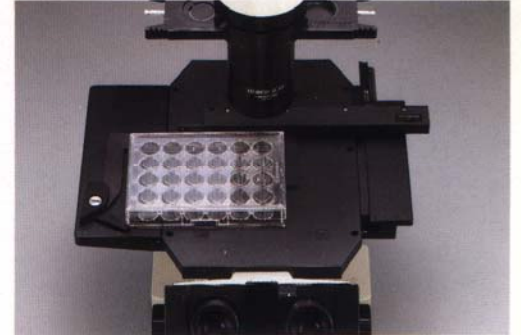
Stage extension plates for large specimens



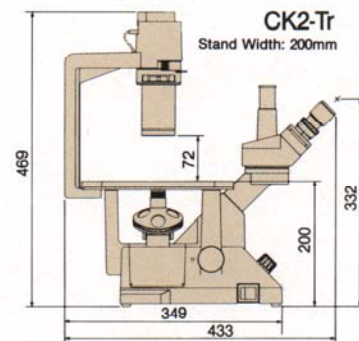
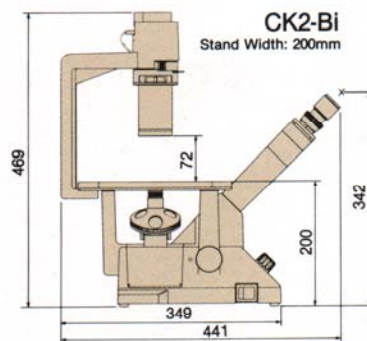
Analyzer can be inserted below nosepiece

Polarized Light Observation with an Optional Accessory

Observation in polarized light is possible by simply attaching the polarizer to the long working distance condenser (standard). The analyzer slides into a slot located below the nosepiece.



CK2-MVR provides large scanning area



Objectives

		N.A.	W.D. (mm)
Brightfield Objectives	D Ach 4X	0.10	18.20
	D Ach 10X	0.25	7.20
	LWD CD Ach 20X	0.40	5.40
Phase Contrast Objectives	PC S Plan 4X PL	0.13	15.50
	PC D Ach 10X PL	0.25	7.00
	LWD CD Ach 20X PL	0.40	5.40
	LWD CD Plan 40X PL	0.60	2.00
	ULWD CD Plan 40X PL	0.50	7.40

Specifications

Microscope Stand	Focus adjustment by vertical movement of the nosepiece (stage is fixed), provided with tension adjustment mechanism. Focusing adjustment range is 8mm.
Revolving Nosepiece	Quadruple, fixed.
Plain Stage	160mm x 240mm. accommodates 35mm dia. Petri dish holder, stage clips and stage extension plates (70mm x 180mm)
Attachable Mechanical Stage	Scanning area: 120mm x 78mm, accommodates two types of culture vessel holders
Illumination System	6V20W halogen bulb with heat absorbing filter. Filter holder accepts 45mm dia. filters up to 11.5mm thickness. Phase contrast slider can be inserted. Aperture iris diaphragm is provided
Condenser	Ultra-long-working distance condenser (N.A. 0.3, W.D. 72mm), detachable
Phase Contrast Slider	Annular diaphragms for 4X and 10X/20X are built-in. Additional diaphragm for 40X can also be set
Binocular Observation Tube (CK2-Bi)	Fixed, inclined 45°. Interpupillary distance adjustment range 53mm—72mm. Diopter adjustment helicoid on left sleeve
Trinocular Observation Tube (CK2-Tr)	Detachable, inclined 45°. Interpupillary distance adjustment range 53mm—72mm. Diopter adjustment helicoid on both sleeves
Eyeiece	CWHK 10X. F.N. 18

Standard Outfit

Module		CK2-Bi				CK2-Tr			
		Plane Stage		Mechanical Stage		Plane Stage		Mechanical Stage	
		CK2-BIP-1	CK2-BIP-2	CK2-BIC-1	CK2-BIC-2	CK2-TRP-1	CK2-TRP-2	CK2-TRC-1	CK2-TRC-2
Microscope Stand	CK2-BI-F	●	●	●	●				
	CK2-TR-F					●	●	●	●
Trinocular Tube	BH-TR45-W					●	●	●	●
Mechanical Stage	CK2-MVR			●	●			●	●
Stage Extension Plate	CK2-SS	● x 2	● x 2	● x 1	● x 1	● x 2	● x 2	● x 1	● x 1
Objective	D Ach 4X	●		●		●		●	
	D Ach 10X	●		●		●		●	
	LWD CD Ach 20X					●		●	
	PC S Plan 4 x PL		●		●		●		●
	PCD Ach 10X PL		●		●		●		●
	LWD CD Ach 20X PL		●		●		●		●
	LWD CD Plan 40X PL						●		●
Eyeiece	CWHK 10X (x 2)	●	●	●	●	●	●	●	●
Photo Eyeiece	NFK5X LD					●	●	●	●
Phase Contrast Slider	CK2-SL		●		●			●	●
Annular Diaphragm for 40X	CK2-RS40							●	●
Centering Telescope	CT-5				●		●		●
Halogen Lamp Socket	LS20HM	●	●	●	●	●	●	●	●
Halogen Bulb	6V•20WHAL (x 2)	●	●	●	●	●	●	●	●
Filter Set	PM-FIL-7					●	●	●	●
Power Cord	UYCP	●	●	●	●	●	●	●	●



Slide Glass Holder
35mm dia. Petri Dish Holder

Large, Sturdy Stage

High maneuverability, wide flexibility, rock-solid stability, and rapid observation are the basic features of the sophisticated, easy-to-use stage. The standard plain stage (160mm x 240mm) allows the attachment of two stage extension plates (70mm x 180mm) and of the CK2-MVR attachable mechanical stage, which has an extensive scanning area (78mm x 120mm).

As a result, thorough observation of 24-hole and 96 hole micro test plates can be carried out easily and quickly. Moreover, by using the optional Terasaki holder and the 54mm dia. and 40mm dia. Petri dish holders, attaching and detaching the samples is a simple matter, rapidly accomplished.

A 35mm dia. Petri dish holder is included as standard equipment.

Wide Variety of Filters Are Provided

Light filters can be used with CK2 microscopes. The unique filter holder accepts 45mm diameter filters up to 11.5mm thickness, at the same time.

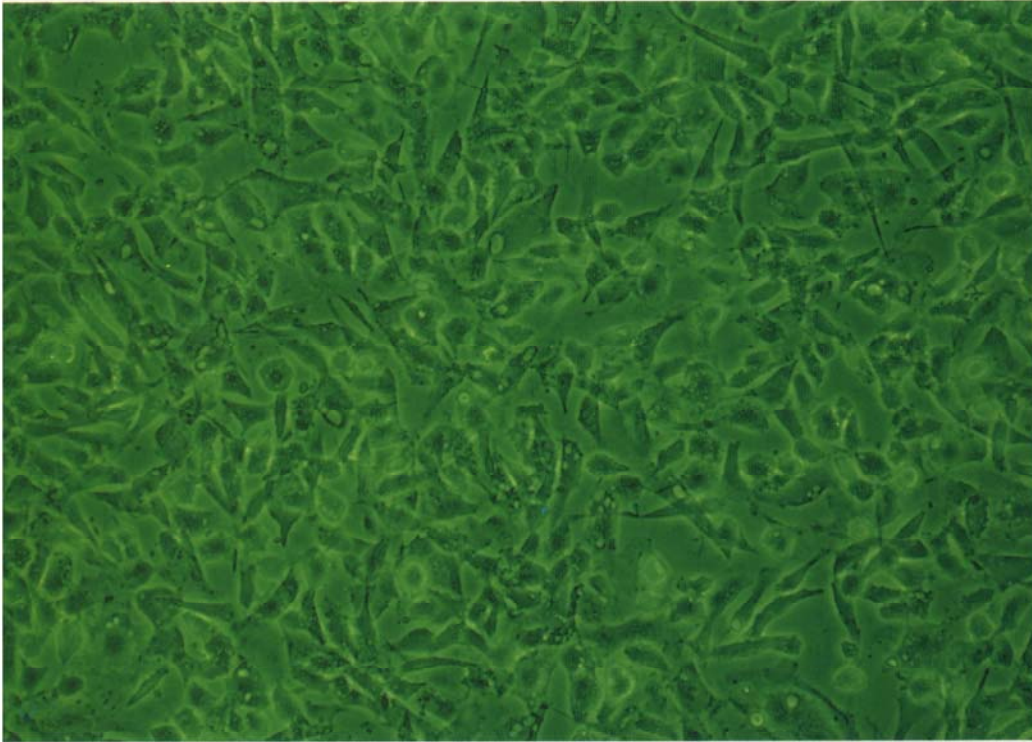
Widefield observation with WHK eyepieces

Optional WHK 10X (F.N. 20) eyepieces are available in addition to the standard CWHK 10X (F.N. 18) eyepieces. The combined use of the WHK 10X with 4X objective provides wider actual field of view. This facilitates observation of a micro test plate and a blood counting plate. Also optionally available are the WHK 15X (F.N. 12) eyepieces.

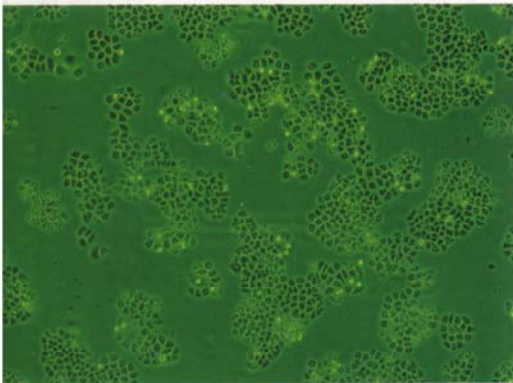
The highly advanced Olympus CK2 Series inverted microscopes provide convenience, versatility, and a rapid operational capability both for brightfield and phase contrast observation.

The CK2 Series are the only routine and research microscopes with a single condenser system which can handle a 4X to 40X magnification range without modifications.

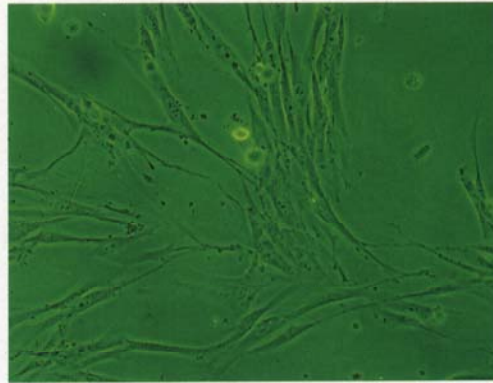
The compact CK2 Series offer superb, newly developed LB Series, long working distance objectives for superior, high contrast images. A wide array of design features and a flexible choice of accessories make the CK2 Series ideally suited for tissue culture microscopy.



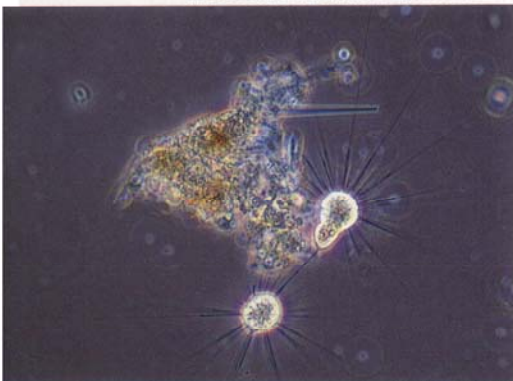
Vascular epithelial cell, D Ach 10X PL, NFK 3.3X LD



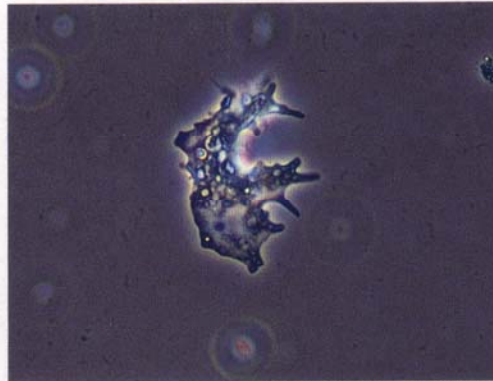
HeLa cell, S Plan 4X PL, NFK 5X LD



Fibroblast, LWD CD Ach 20X PL, NFK 5X LD



Division of actinophrys, D Ach 10X PL, NFK 5X LD



Amoeba, D Ach 10X PL, NFK 5X LD

Olympus Superior Optics Provide Brilliant, High Contrast Images

A large choice of newly developed LB Series long working distance objectives provide needle-sharp images from low to high magnification. And a 6V 20W halogen lamp combined with Olympus' special heat reduction system, enables observation of brighter microscope images with minimal or no damage to tissue culture cells.

Convenient Binocular and Trinocular Tubes Designed with Exceptional Durability and Operability

The CK2 body is designed with a low center of gravity for higher stability and to facilitate the use of a large stage. The stage is firmly anchored to the body with three retainers, ensuring high quality, vibration-free, photomicrography. The revolving nosepiece is dust-proof and water repellent. And each operating part is ergonomically designed for easy and fatigue-free operation.

CK2-Bi Binocular Type

The CK2-Bi is designed with the observation tubes inclined at a 45 degree angle for easy viewing. The eyepoint is 340mm, and the interpupillary distance is adjustable from 53mm to 72mm. Diopter adjustment is also possible.

CK2-Tr Trinocular Type

Increased versatility is provided by the trinocular tube model which permits the attachment of photomicrographic equipment. The 45 degree inclined observation tube is detachable, and allows use of attachments such as the magnification changer and the drawing attachment. Diopter adjustment can be performed for both eyes, and constant tube length is maintained even when the interpupillary distance is varied.



Variety of Accessories for CK2-Tr

PM-10AK Automatic Exposure Photomicrographic System

The new, simple and economical PM-10AK is easy to use and has automatic exposure capability with automatic film advance (35mm), as well as exposure adjustment and manual exposure capability. Large format photography is also possible with this system.

BH2-CA Magnification Changer

This precision unit has a three-step magnification capability of 1X, 1.25X, and 1.5X. The phase contrast annuli can be aligned with the built-in Bertrand lens.



BH2-DA Drawing Attachment

Accurate sketching of a magnified specimen image viewed through the microscope makes this attachment a very desirable accessory.



PM-10AK Standard Outfits

Module		PM-10AK			
		1	2	L1	L2
Automatic Exposure Body with Connecting Cord	PM-PBK	○	○	○	○
Automatic Exposure Control Unit	PM-CBK	○	○	○	○
Power Cord	UYCP	○	○	○	○
Adapter for 35mm Camera Back with Automatic Film Advance	PM-D35A	○			
Adapter for 35mm Camera Back with Manual Film Advance	PM-D35		○		
35mm Camera Back with Automatic Film Advance	C-35AD-4	○			
35mm Camera Back with Manual Film Advance	C-35DA-2		○		
Adapter for Large Format Film Back	PM-DL-W			○	○
4" x 5" Intermediate Adapter	PM-C4 x 5-W			○	
3-1/4" x 4-1/4" Polaroid Back	PM-CP-W				○
Adapter for NFK Photo Eyepiece	PM-ADF	○	○	○	○
Focusing Telescope	PM-VS	○	○	○	○
Focusing Magnifier	FT-36	○	○	○	○
Filter	45G-533	○	○	○	○

"Polaroid" is a trademark registered by the Polaroid Corporation, Cambridge, Mass. U.S.A.

Specifications are subject to change without notice.



Photographic,
Medical,
Microscopic,
Industrial & Business Equipment

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