

# *Binocular Model Providing Greater Versatility.*

## Binocular Microscope Model **42-500**

*Specially designed for technical schools and colleges with medical technology curriculum.*

Special features include:

### **DIN Wide Field Eyepieces**

Our WHE10 $\times$  and WHE15 $\times$  wide field eyepieces provide a large field of view, allowing you to easily meet a wide range of observation requirements. The standard WHE10 $\times$  high eyepoint eyepiece has a field of view 18mm diameter and built-in tamper-proof eyeguards reduce glare from overhead lights.



### **Binocular Head**

The standard binocular head offers the ideal 45° inclination angle for maximum comfort and rotatable a full 360°. Exclusive dual diopter adjustments enable the operator to adjust for eye refraction differences. Microscopes with single diopter adjustments are parfocal only at one interpupillary distance setting. With the Biolux-12 binocular microscope, the eyetube separation is adjustable from 54 to 74mm to conform with individual interpupillary distances. Moreover, a special Kyowa coating process reduces light loss, delivering clear, bright images.



### **Bright, Variable Illuminator**

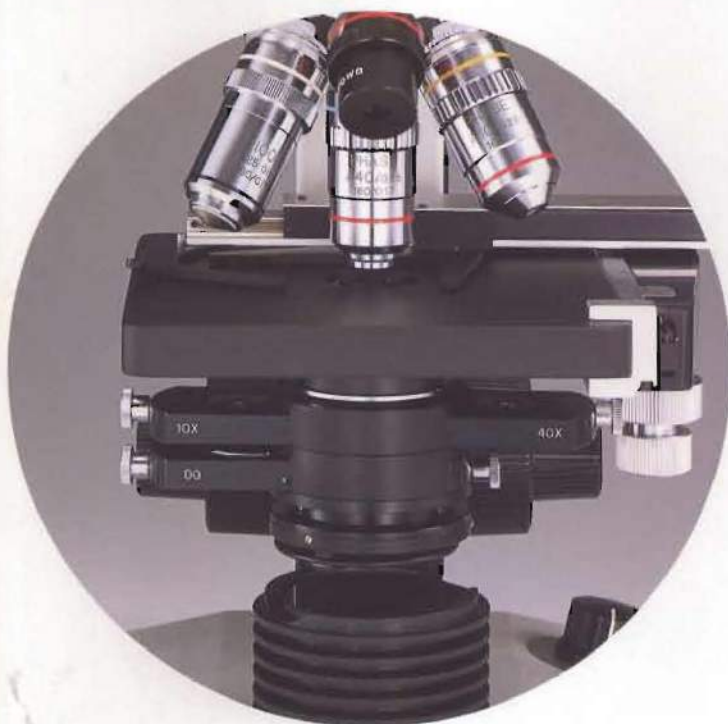
The high efficiency tungsten illuminator has a built-in dimming control and on-off power switch. Bulb life is prolonged since the brightness is reduced prior to turning the power off. The 42-500 features an energy efficient 20-watt reflector bulb.



### **Graduated Mechanical Stage**

Attachable mechanical stage provides a travel range of 75mm  $\times$  30mm X and Y directions respectively. Graduations are provided and the vernier will read to 0.1mm for an accurate relocation of specimen areas. Standard right hand control knobs. (The left hand control is also available.)

The double slider unit with condenser system which enables brightfield, darkground and phase contrast observation by a simple change-over procedure.



Kyowa who are the originators of the slider phase contrast system is so simple to use since it requires no setting up or centering of the phase annuli and furthermore reduces the cost due to simplicity in design make it must in teaching laboratories where the lecturer save time in not having to correct the microscopes which students may have incorrectly done so.



#### **SPH-TC-B2 Simple Slider Phase Contrast Attachment**

This simple, low cost attachments of standard phase objectives 10 $\times$  and 40 $\times$ , individual phase annuli and darkground, and Abbe condenser. This attachment offers in one system, brightfield, darkground, phase contrast which just proves that three into one can go. For phase contrast microscopy, Kyowa offers the PH Ach Series of TC objectives. (green filter not included)

Note: Abbe condenser is not compatible with current style Biolux-12.



#### **NHS Photo-Monocular Head**

In order to facilitate full and accurate viewing in combination with a photomicrographic system and TV system, Kyowa offers the NHS (75% visual and 25% photo), photo tube A and B for simultaneous use of a camera system and C-mount tube for CCTV display.

- ① Photo-monocular head
- ② Photo tube A
- ③ Photo tube B (with adjustable diopter focus)
- ④ C-mount tube

Head comes with a photo tube A as standard.



#### **SPA Simple Polarizing Attachment**

Consisting of a Polarizer and an Analyzer. They are best suited for elementary work with highly birefringent specimens which provided a high contrast in polarized light.

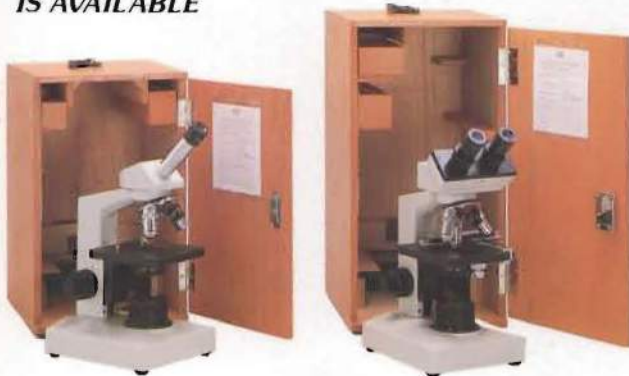


## Standard Specifications & Components:

Components	Specifications	Models	BIOLUX-12				
			41-100	41-200	41-300	41-400	42-500
Microscope Stands	<ul style="list-style-type: none"> <li>Coaxial coarse and fine focusing knobs, coarse and fine adjustment range 15mm with slip clutch system. Fine motion is 0.43mm per rotation.</li> <li>Stage movement: upward 1.2mm &amp; downward 14mm (when 1.2mm slide glass is used) moves on ball-bearing race.</li> <li>Plain stage 120×130mm</li> </ul>	48mm $\phi$ plano-concave mirror to the plain base	•		•		
		20W tungsten illuminator with on-off switch control		•		•	
		20W tungsten illuminator with variable intensity control					•
Nosepieces	Triple revolving nosepiece		•	•			
	Quadruple revolving nosepiece				•	•	•
Heads	Monocular, 45° inclined, 360° rotatable		•	•	•	•	
	Binocular, 45° inclined, 360° rotatable, interpupillary distance range 54-74mm, dual diopter adjustments						•
Stages	Stage clips on plain stage (1 pair)		•	•	•	•	
	Attachable mechanical stage with coaxial low drive controls on the right, traversing area 75-30mm						•
Condensers	0.65 N.A. condenser with a five-aperture disc diaphragm		•	•			
	Abbe type (2 lens), precentered, N.A. 1.25 with iris diaphragm and filter holder for 32.8mm filter				•	•	•
Filter	32.8mm $\phi$ daylight blue filter			•		•	
Bulbs	20W tungsten bulb (3 pcs.)			•		•	
	20W tungsten bulb with reflector (3 pcs.)						•
Mirror	Plano-concave mirror (48mm $\phi$ ) with fork		•		•		
Objectives	D Achromat 4× N.A. 0.10 W.D. 9.0mm		•	•	•	•	•
	D Achromat 10× 0.25 5.3		•	•	•	•	•
	D Achromat 40× (spring) 0.65 0.5		•	•	•	•	•
	D Achromat 100× (spring, oil) 1.25 0.1				•	•	•
Eyepieces	D Eyepiece 10×, F.N. 17.4 widefield		•	•	•	•	
	D Eyepiece 10×, F.N. 18, widefield, high eyepoint (1 pair)						•

All BIOLUX-12 models include dust cover and models with 100× objective also include 8cc immersion oil (PCB free).

### OPTIONAL WOOD CARRYING CASE IS AVAILABLE



A lightweight, sturdy wood carrying case is available to protect your scope when not in use or when transporting it.

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