PHOTOGRAPHIC RESEARCH MICROSCOPE, TYL

This TYL Trinocular type Microscopcecan be equipped with any type of camera and you can so easily obtain microphotographic observation by moving downward the lever below the prismatic head. Once attached the camera to the device, no special focusing procedure is required owing to our originally developed superior optical system.

Specifications

(1) Model TYL-D-C

- Tube: 170mm long, 45° inclined binocular tube with
interpupillary adjustment : 55mm-77mm and
dioptric compensation device = ±3mm in the
left tube, combined with photographic tube
with outfit device for microphotography
camera, 360° rotatable and interchangeable
with inclined monocular tube (YDL series)
head.Stage: Fixedlarge rectangular stage125×142mm, built
- Stage : Fixediarge rectangular stage125×142mm, built in cross movement mechanical stage with coaxial handle in horizontal position, scanning range of 31-75mm graduated in 0.1mm with vernier.
- Focusing : Coaxial coarse and fine adjustment, stroke = 2mm, sensitivity = 0.005mm with the safet stopper.
- Condenser : Two top lenses and brightfield, Abbe type substage condenser, numerical aperture 1.25 with iris diaphragm and filter holder, focused by rack and pinion motion.
- Nosepieces : Revolving Triple/Quadruple/Quintuple noscepiece with ball bearing device, with click stops.
- Illuminator : Transmitted illuminator system built in the base controlled by means of the intensity regulator, voltage 110V-240V, 25 watt or low voltage with transformer
- Accessories : A blue filter for condenser, a vinyl dust cover, a tube of oil for 100X Obj. a spare bulb for illuminator and wooden cabinet with lock and key.

(2) Model TYL- -ED

- Focusing adj : Separate knobs Light source : Electric illuminator
- The others are the same as TYL- \Box -ED-C (3) Model TVI

(3) Model TYL-

- Focusing adj : Separate knobs
- Light source : Mirror illuminator The others are the same as TYL--ED-C

Optical Combination

Model	Paired Huygenian Eyepieces	Achromatic Dry/Oil Objectives	Magnifications	Nose-pieces	CAT. NO.
TYL-1-ED-C TYL-1-ED TYL-1	B5x, BWF10x, B15x	10x(N.A.0.25), 40x(N.A.0.65) 100x(N.A.1.25)Oil	50x-1,500x	Triple	NO-YT101 NO-YT102 NO-YT103
TYL-2-ED-C TYL-2-ED TYL-2	B5x, BWF10x, B15x	4x(N.A.0.10), 10x(N.A.0.25), 40x(N.A.0.65), 100x(N.A.1.25)Oil	20x-1,500x	Quadruple	NO-YT111 NO-YT112 NO-YT113
TYL-3-ED-C TYL-3-ED TYL-3	B5x, BWF10x, B15x, B20x	4x(N.A.0.10), 10x(N.A.0.25), 20x(N.A.0.65), 40x(N.A.0.65), 100x(N.A.1.25)Oil	20x-2,000x	Quintuple	NO-YT121 NO-YT122 NO-YT123

* Available to supply above series of Microscope with K20x cycpieces, Triple and Quintuple revolving nosepieces, Abbe N.A.1.40 condenser, on request.

YASHIMA OPTICAL CO., TOKYO JAPAN.





MICROS

Model TYL-2-ED-C

TOKYO

RESEARCH BINOCULAR

RESEARCH BINOCULAR MICROSCOPE, BYL Specifications

(1) Model BYL-D-ED-C

(1) MOUG	
Tube	: 170mm long, 45° inclined binocular tube with
	interpupillary adjustment : 55mm-77mm and
	dioptric compensation device = ± 3 mm in the left tube, 360° rotatable interchangeable with inclined trinocular tube (TYL series) head.
Stage	: Fixed large rectangular stage 125×142 mm, built in cross movement mechanical stage with coaxial handle in horizontal position, scanning range of $31-75$ mm graduated in 0.1mm with vernier.
Focusing	: Coaxial coarse and fine adjustment, stroke =
	2mm, sensitivity = 0.005mm with the safety stopper.
Condenser	: Two top lenses and bright field, Abbe type
	substage condenser, numerical aperture 1.25
	with iris diaphragm and filter holder, focused
	by rack and pinion motion.
Nosepieces	: Revolving Triple/Quadruple/Quintupe nosepi-
	ece with ball bearing device, with click stops.
Illuminator	: Transmitted illuminator system built in the
	base controlled by means of the intensity regu-
	lator, voltage 110V-240V, 25 watt, or low
A	voltage with transformer.
Accessories	: A blue filter for condenser, a vinyl dust cover,
	a tube of oil for 100x Obj. a spare bulb for illuminator and wooden cabinet with lock and
	key.
(2) Model BY	
Focusing adj	: Separate knobs
Light source	: Electric illuminator
The others ar	e same as BYL-□-ED-C
(3) Model BY	YL-
Focusing adj	: Separate knobs
Light source	: Mirror illuminator
The others are	e same as BYL-□-ED-C



BY

Model BYL-1-C

Optical Combination

Model	Paired Huygenian Eyepieces	Achromatic Dry/Oil Objectives	Magnifications	Nose-pieces	CAT. NO.
BYL-1-ED-C		10x(N.A.0.25), 40x(N.A.0.65) 100x(N.A.1.25)Oil	50x-1,500x	Triple	NO-B 101
BYL-1-ED	B5x, BWF10x, B15x				NO-B 102
BYL-1	B5x, BWF10x, B15x				NO-B 103
BYL-1-C	1				NO-B 104
BYL-2-ED-C		4x(N.A.0.10), 10x(N.A.0.25), 40x(N.A.0.65), 100x(N.A.1.25)Oil	20x - 1,500x	Quadruple	NO-B 111
BYL-2-ED					NO-B 112
BYL-2	B5x, BWF10x, B15x				NO-B 113
BYL-2-C					NO-B 114
BYL-3-ED-C		4-(NLA 0.10) 10-(NLA 0.95)			NO-B 121
BYL-3-ED	B5x, BWF10x, B15x	4x(N.A.0.10), 10x(N.A.0.25), 20x(N.A.0.65), 40(N.A.0.65),	20x - 2,000x	Quintuple	NO-B 122
BYL-3	B20x				NO-B 123
BYL-3-C		100x(N.A.1.25)Oil			NO-B 124

Net weight : approx. 5.2kg Gross weight : approx. 10.5kg

* Available to supply above series of Microscope with K20x eyepieces, Triple and

Quintuple revolving nosepieces, Abbe N.A.1.40 condenser, on request. .

YASHIMA OPTICAL CO., TOKYO JAPAN.

YashimA Tokyo

RESEARCH BINOCULAR

L-TYPE RESEARCH MICROSCOPE, YDL Specifications

(1) Model YDL-D-C

(1) Model I	DL-	·□-ED-C
Tube	:	170mm long, 45° inclined monocular tube, 360°
		rotatable, acceptable any standard eyepieces
		for the tube diameter 23.2mm, and interchange-
		able the head with trinocular (TYL series) or
		binocular (BYL series) tube head.
Stage	2.1	Fixed large rectangular stage 125×142mm,
		built in cross movement mechanical stage with
		coaxial handle in horizontal position, scanning
		range of 31-75mm graduated in 0.1mm with
		vernier.
Focusing	:	Coaxial coarse and fine adjustment, stroke =
U		2mm, sensitivity = 0.005mm with the safety
		stopper.
Condenser		Two top lens and bright field. Abbe type sub-
		stage condenser, numerical aperture 1.25 with
		iris diaphragm and filter holder focused by rack
		and pinion motion.
Nosepieces		Revolving Triple/Quadruple/Quintuple nosepi-
		ece with ball bearing device, with click stops.
Illuminator	:	Transmitted illuminator system built in the
		base controlled by the means of the intensity
		regulator, voltage 110-240V AC 25 watt, or
		low voltage with transformer.
Accessories	:	A blue filter for condenser, a vinyl dust cover,
		a tube of oil for 100X obj. a spare bulb for
		illuminator and wooden cabinet with lock and
		key.
(2) Model Y	DL-	-ED
Focusing adj	:	Separate knobs
Light source	:	Electric illuminator
The others a	re sa	me as YDL-□-ED-C
(3) Model Y	DL-	
Focusing adj	:	Separate knobs
T ·		



YDL

Model YDL-2-ED

Optical Combination

Light source : Mirror illuminator The others are same as YDL-□-ED-C

Model	Paired Huygenian Eyepieces	Achromatic Dry/Oil Objectives	Magnifications	Nose-pieces	CAT. NO.
YDL-1-ED-C YDL-1-ED YDL-1	B5x, BWF10x, B15x	10x(N.A.0.25), 40x(N.A.0.65) 100x(N.A.1.25) Oil	50x - 1,500x	Triple	NO-D 101 NO-D 102 NO-D 103
YDL-2-ED-C YDL-2-ED YDL-2	B5x, BWF10x, B15x	4x(N.A.0.10), 10x(N.A.0.25), 40x(N.A.0.65), 100x(N.A.1.25) Oil	20x-1,500x	Quadruple	NO-D 111 NO-D 112 NO-D 113
YDL-3-ED-C YDL-3-ED YDL-3	B5x, BWF10x, B15x, B20x	4x(N.A.0.10), 10x(N.A.0.25), 20x(N.A.0.65), 40x(N.A.0.65), 100x(N.A.1.25)Oil	20x-2,000x	Quintuple	NO-D 121 NO-D 122 NO-D 123

Net weight: appro. 3.7kg Gross weight: approx. 9.9kg

*Available to supply above series of microscope with K20x eyepieces, Triple and Quintuple revolving nosepieces, Abbe N.A.1.30 condenser, on request.

YASHIMA OPTICAL CO., TOKYO JAPAN.



SCHOOL MICROSCOPE

SCHOOL MICROSCOPE, YLL

Specifications

Tube	: 45° inclined mónocular tube, 360° rotatable. acceptable any standard eyepieces
Stage	: Fixed large rectangular stage 95x 120mm, with disc diaphragm and N.A. 0.65 built in
	condenser.
Focusing	: Coarse focusing adjustmentby rack and pinion system with safety stopper, stroke = 20mm/m
Condenser	: Medium aperture, N.A. 0.65 condenser in stage.
Illuminator	: 48mm in diameter, plane-concave mirror,
Accessories	: A blue filter for condenser, a vinyl dust cover and wooden cabinet with lock and key,

Optical Combination

Model	Eyepieces	Objectives	Magnifications	Nosepieces	CAT-NO
YLL-1	H10x, H15x	10x, 40x	100x - 600x	Double	NO-L-101
YLL-2	H10x, H15x	4x, 10x, 40x	40x - 600x	Triple	NO-L-102

Net weight : approx. 3.1kg

Gross weight : approx. 6.8kg

SCHOOL MICROSCOPE, YKL

Specifications

Tube	: 45° inclined monocular tube, 360° rotatable,
	acceptable any standard eyepieces fixed large
	rectangular stage 125×120mm, N.A. 0.65-N.A.
	1.25 built in condenser.
Focusing	: Coarse and fine adjustmest by rack and pinion system.
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Condenser	: Model YKL-1
	N.A. 0.65 in plain stage
	Model YKL-2
	N.A. 0.95 with iris diaphragm
	Model YKL-3
	N.A.1.25 ABBE with iris diaphragm and
	filter holder
	Model YKL-4
	N.A. 1.25 ABBE with iris diaphragm and
	filter holder, mechanical stage
	Illuminator : Mirror illuminator

Optical Combination

Model	Eyepieces	Objectives	Magnifications	Nosepieces	CAT-NO
YKL-1	W10x,H15x	4x, 10x, 40x	40x - 600x	Triple	NO-K101
YKL-2	H5x,W10x,H15x	4x, 10x, 60x	20x - 900x	Triple	NO-K102
YKL-3	H5x,W10x,H15x	10x, 40x, 100x(oil)	50x - 1500x	Triple	NO-K103
YKL-4	H5x,W10x,H15x	4x, 10x, 40x, 100x(oil)	20x - 1500x	Quadruple	NO-K104

Net weight : approx. 3.5kg

Gross weight : approx. 7kg



Model-YLL



Model-YKL

YASHIMA OPTICAL CO., TOKYO JAPAN.