



Microscopes

product datasheet

ML2000 Biological Microscopes

A rugged design with true Koehler illumination and high quality optics, suitable for day-to-day use in the laboratory or classroom. The options below are combined into fourteen standard configurations to suit a wide range of applications and budgets.

VIEWING HEADS

Available with standard binocular heads or trinocular heads for photomicrography, 30° inclined eyetubes with adjustable diopter settings and interpupillary distance, 360° rotatable.

EYEPIECES

Paired DIN KHW10x, FN 20.

OBJECTIVE CHANGER

Smooth-operating, ball bearing mounted, quadruple nosepiece.

OBJECTIVES

S. Flat Achromats, SM Planachromats, Planachromats, or Phase Contrast.

STAGE

Attached mechanical stage: 120mm x 140mm surface with 75mm (X) by 40mm (Y) movement, graduated with vernier readings to 0.1 mm, drop-down right or left-handed controls.

Flat-top stage: 171mm x 140mm surface with 80mm (X) by 52mm (Y) movement, graduated with vernier readings to 0.1 mm, detachable specimen guide, drop-down right or left-handed controls.

CONDENSERS

Standard models have either an Achromatic NA 1.25 condenser with iris diaphragm and filter tray for brightfield work, simple NA 1.25 slider phase condenser, or an NA 1.25 Zernike phase condenser with filter tray and independently centerable annuli for phase contrast. Cardioid-type NA 1.25 darkfield condenser for high power (100x objective only) darkfield work is optional.

ILLUMINATOR

Built-in, 6V 30W, variable-intensity Koehler illumination for apertures up to 1.25.



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Meiji ML2000 Ordering Information							
Model	Head	Eyepieces	Objectives	Mech. Stages	Condensers	Illumination	
ML2000	Bino.	KHW10X FN 20	S.Flat 4x, 10x, S40x, S100x oil	Attached	Achromatic NA 1.25 with blue filter	Koehler 6V 30W halogen	
ML2100	Trino.						
ML2200	Bino.						
ML2300	Trino.						
ML2400	Bino.		SM.Plan 4x,10x, S40x, S100x oil	Flat-top			
ML2500	Trino.						
ML2600	Bino.						
ML2700	Trino.						
ML2855*	Bino.		Achromat Phase 10X, S20X, S40X, S100X oil	Attached			Zernike type phase condenser, NA 1.25 with green filter
ML2955*	Trino.						
ML2870*	Bino.						
ML2970*	Trino.						

* Centering telescope is included.

Components and Accessories for ML2000 Series

Viewing Heads	
Part Number	Description
MA602	Inclined Binocular Head
MA603	Inclined Trinocular Head
MA657	Binocular Head Erect Image
MA655	Trinocular Head Erect Image
MA403	Inclined Monocular Head
Eyepieces	
MA406	DIN HWF10X eyepiece, FN 18 (each)
MA407	DIN KHW10X compensating eyepiece, FN 20 (each)
MA408	DIN HWF15X eyepiece, FN 9 (each)
MA409	DIN HWF20X eyepiece, FN 9 (each)
Achromat Objectives	
MA482	4X / NA 0.10 DIN S.Flat Achromat objective, WD 20.0mm
MA483	10X / NA 0.25 DIN S.Flat Achromat objective, WD 6.6mm
MA484	20X / NA 0.40 DIN S.Flat Achromat objective, WD 3.1mm
MA485	40XS / NA 0.65 DIN S.Flat Achromat objective, spring loaded, WD 0.4mm
MA486	60XS / NA 0.85 DIN S.Flat Achromat objective, spring loaded, WD 0.2mm
MA487	100XS / NA 1.25 DIN S.Flat Achromat objective, spring loaded, oil, WD 0.13mm
SM Semi Planachromat Objectives	
MA611	4X / NA 0.10 SM Semi Planachromat objective, WD 19.83mm
MA612	5X / NA 0.12 SM Semi Planachromat objective, WD 19.83mm
MA613	10X / NA 0.25 SM Semi Planachromat objective, WD 6.23mm
MA614	20XS / NA 0.40 SM Semi Planachromat objective, spring loaded, WD 3.13mm
MA615	40XS / NA 0.65 SM Semi Planachromat objective, spring loaded, WD 0.43mm
MA616	60XS / NA 0.80 SM Semi Planachromat objective, spring loaded, WD 0.23mm
MA617	100XS / NA 1.25 SM Semi Planachromat objective, spring loaded, oil, WD 0.12mm
BF Semi Planachromat Objectives	
MA690	4X / NA 0.10 BF Semi Planachromat objective, WD 19.83mm
MA691	10X / NA 0.25 BF Semi Planachromat objective, WD 6.23mm
MA692	20X / NA 0.40 BF Semi Planachromat objective, WD 6.1mm
MA693	40XS / NA 0.65 BF Semi Planachromat objective, spring loaded, WD 0.43mm
MA694	50XS / NA 0.95 BF Semi Planachromat objective, spring loaded, WD 0.25mm
MA696	100XS / NA 1.25 BF Semi Planachromat objective, spring loaded, oil, WD 0.15mm
MA811	50X / NA 0.95 BF Semi Planachromat objective, oil with iris, WD 0.24mm
MA813	100X / NA 1.25 BF Semi Planachromat objective, oil with iris, WD 0.15mm
Planachromat Objectives	
MA432	2.5X / NA 0.08 Planachromat objective
MA622	4X / NA 0.10 Planachromat objective
MA623	10X / NA 0.25 Planachromat objective
MA625	40XS / NA 0.65 Planachromat objective, spring loaded
MA627	100X / NA 1.25 Planachromat objective, spring loaded, oil

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Zernike BF Semi Plan Phase Objectives and Components (Set PH-A)	
MA695	10X / NA 0.25 BF Plan Phase objective for use with Zernike-type Condenser
MA697	20X / NA 0.40 BF Plan Phase objective for use with Zernike-type Condenser
MA698	40X / NA 0.65 BF Plan Phase objective for use with Zernike-type Condenser
MA699	100X / NA 1.25 BF Plan Phase objective for use with Zernike-type Condenser
MA715	Zernike-type Condenser with centerable phase annuli, 10x, 20x, 40x and 100x with iris
MA457/1	Extended centering screws for MA715 (each)
MA458	Phase Centering Telescope
MA759	Green Interference Filter, 546nm, 29.8mm diameter
Zernike Achromat Phase Objectives and Components (Set PH-B)	
MA448	10X / NA 0.25 Achromat Phase objective for use with Zernike-type Condenser
MA449	20X / NA 0.40 Achromat Phase objective for use with Zernike-type Condenser
MA450	40X / NA 0.65 Achromat Phase objective for use with Zernike-type Condenser
MA451	100X / NA 1.25 Achromat Phase objective for use with Zernike-type Condenser
MA715	Zernike-type Condenser with centerable phase annuli, 10x, 20x, 40x and 100x with iris
MA457/1	Extended centering screws for MA715 (each)
MA458	Phase Centering Telescope
MA290/05	Green Filter, 29.8mm diameter
Zernike Achromat Phase Objectives and Components (Set PD-A)	
MA448	10X / NA 0.25 Achromat Phase objective for use with Zernike-type Condenser
MA449	20X / NA 0.40 Achromat Phase objective for use with Zernike-type Condenser
MA450	40X / NA 0.65 Achromat Phase objective for use with Zernike-type Condenser
MA715	Zernike-type Condenser with centerable phase annuli, 10x, 20x, 40x and 100x with iris
MA457/1	Extended centering screws for MA715 or MA716 (each)
MA458	Phase Centering Telescope
MA290/05	Green Filter, 29.8mm diameter
Darkfield-Oil Immersion Objectives and Condensers	
MA811	BF Semi Planachromat S50X, NA 0.95, oil with iris diaphragm
MA813	100X, NA 1.25 BF Semi Planachromat objective with iris WD 0.15mm
MA430	DIN S.Plan objective 100X, NA 1.25, oil with iris
MA274	Darkfield condenser, 1.2 -1.33 NA, for use with 50x or 100x with iris ONLY
Darkfield-Oil Immersion Objectives with Dry Condenser System	
MA617/672	SM Plan objective 100X, NA 1.25 with funnel stop
MA661/674	Achromatic sub-stage condenser NA 1.25 with dry darkfield stop
Darkfield Accessories	
MA672	Funnel stop for MA617 SM Plan 100X
MA278/05	Darkfield filter (central stop) for use with filter tray, 29.8mm diameter
MA674	Darkfield stop to fit MA661 Achromatic NA 1.25 condenser
Condensers	
MA661	Achromatic sub-stage condenser 1.25 NA w/ iris and 30mm filter tray
MA661/674	Achromatic sub-stage condenser 1.25 NA w/ dry darkfield stop
MA715	Zernike-type Condenser with centerable phase annuli, 10x, 20x, 40x and 100x with iris
MA716	Zernike-type Condenser with centerable phase annuli, 10x, 20x, 40x and 100x with iris and darkfield stop
MA457/1	Extended centering screws for MA715 or MA716 (each)

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Polarizers	
MA608	Polarizer set for ML2000 (fits over 44mm lamphouse analyzer to fit viewing head)
MA608/05	Polarizer set for ML5400, ML5500, ML5850, ML5950 (50 watt version) (fits over 37mm lamphouse analyzer to fit viewing head)
MA608/10	Polarizer set for ML5000, ML5100, ML5200, ML5300, ML5800, ML5900 (30 watt version) (fits over 44mm lamphouse analyzer to fit viewing head)
Filters	
MA196	ND2 neutral density filter, 29.8mm diameter
MA197	ND8 neutral density filter, 29.8mm diameter
MA289/05	Blue filter, clear, 29.8mm diameter
MA290/05	Green filter, clear, 29.8mm diameter
MA759	Green Interference Filter, 546nm, 29.8mm diameter
MA291	Polarizing Filter, 546nm, 29.8mm diameter
Stages	
MA676	Attachable clinical specimen holder for MA596R and MA596L
MA595R	Right Handed Graduated mechanical stage, 30mm X 70mm, drop down controls for RM and ML2000, ML2100, ML2200, ML2300, ML2800 and ML2900
MA595L	Left Handed Graduated mechanical stage, 30mm X 70mm, drop down controls for RM and ML2000, ML2100, ML2200, ML2300, ML2800 and ML2900
MA596R	Right Handed Flat top stage, 78mm X 52mm, drop down controls for ML2400, ML2500, ML2700, ML2850, ML2950 and ML5000
MA596L	Left Handed Flat top stage, 78mm X 52mm, drop down controls for ML2400, ML2500, ML2700, ML2850, ML2950 and ML5000
Eyepiece Micrometers	
MA284	Cross-line reticle, 21mm diameter
MA255	10mm divided into 100 units, 21mm diameter
MA256	5mm divided into 100 units, 21mm diameter
MA283/05	10mm square divided into 100 parts, 1mm square, 21mm diameter
MA540	Cross-line reticle with 0.1mm graduations, 21mm diameter
MA254/05	Walter & Beckett reticle, 21mm diameter
Stage Micrometers	
MA285	1mm divided into 100 units, 0.01mm
MA286	0.04" divided into 40 units, 0.001"
Miscellaneous	
MA200	Eyeshields for MA407 eyepieces (each)
MA275/05	Spare bulb 12V 50W halogen
MA326	Spare bulb 6V 30W halogen
MA327	Fuse 3A
MA609/05	Carrying case for ML2000 and ML5000 series
MA700	Immersion Oil, 15cc vial
MA701	Dust Cover fits ML2000 and ML5000 series