

# BIOLOGICAL MICROSCOPE



# BIOLOGICAL MICROSCOPE

Digital Biological Microscope is an optical microscope that is primarily designed to observe cells, tissues as well as other biological specimens. Magnification range anywhere from 10x – 1,000x or more by attaching multiple objective lenses.

Used in University, Medical, Laboratory, Research, Pharmaceutical.

## MSC21 BIOLOGICAL MICROSCOPE

The integration of structure design to save space.

Valid mould proof design.

It can be used under the high temperature and high humidity environment.



## SPECIFICATIONS

Model	MSC21-01	MSC21-02	MSC21-03	MSC21-04
Viewing Head				
Sliding Trinocular Head Inclined at 45°	Yes		No	
Compensation Free Trinocular Head inclined at 30°	No		Yes	No
10° LCD	No			Yes
Seidentopf Binocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	-	-	-	-
Seidentopf Trinocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	-	-	-	-
Sliding binocular head at 45°, 360° rotatable	-	-	-	-
Sliding trinocular head at 45°, 360° rotatable	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
Siedentopf binocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	-	-
Siedentopf trinocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Nosepiece				
Ball Beating Quadruple Nosepiece	Yes			
Backward Quadruple Nosepiece	-	-	-	-
Quintuple Nosepiece	-	-	-	-
Quadruple Nosepiece	-	-	-	-
Toward quadruple nosepiece, center adjustable	-	-	-	-

Quadruple nosepiece	-	-	-	-
Backward quadruple nosepiece	-	-	-	-
Backward quintuple nosepiece	-	-	-	-
Eyepiece				
WF10X/ 18mm	Yes			
WF10x/18	-	-	-	-
P16 x/11	-	-	-	-
Extra wide filed eyepiece EW10x/20 with diopter adjustment	-	-	-	-
Eyepiece WF10 x/ 18 with scale of crosshair	-	-	-	-
Eyepiece WF 10 x/18	-	-	-	-
WF 10 x / 18	-	-	-	-
P16 x/ 11	-	-	-	-
WF10 x/ 20	-	-	-	-
WF15 x/ 16	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Objective				
Achromatic 4X, 10X, 40X(S) 100X(S,O)	Yes		No	Yes
Plan Achromatic 4X, 10X, 40X(S) 100X(S,O)	No		Yes	Optional
Achromatic Objective 4x, 10x, 40x, 100x	-	-	-	-
Infinite plan Achromatic Objective 4x, 10x, 40x, 100x	-	-	-	-
Infinite Plan Achromatic Phase Objective 10x,20x,40x,100x	-	-	-	-
Oil Darkfield Objective with Iris Diaphragm 100x(NA0.36-1.25)	-	-	-	-
Strain free achromatic objective 4x , 10x , 40x	-	-	-	-
Achromatic objective 4x, 10x, 40x,100x	-	-	-	-
Plan achromatic objective 4x, 10x , 40x ,100x	-	-	-	-
Infinite plan achromatic objective 20x, 60x	-	-	-	-
Infinite plan achromatic objective 4x, 10x, 40x, 100x	-	-	-	-
Stage				
Double Layer Mechanical Stage 135x140mm	Yes			
Double Layers Mechanical Stage 140x140 mm, Moving range 75x50 mm	-	-	-	-
Double layers mechanical stage:132x142 mm, moving range:75x40 mm	-	-	-	-
Rectangular 230x150 mm stage, moving range:78x54 mm, using low positioned X/Y coaxial control knob	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Condenser				
ABBE NA1.25 condenser with Iris Diaphragm & filter, rack&pinion adjustable	Yes			
Abbe NA1.20 with Iris Diaphragm & Fliter	-	-	-	-
Swing Condenser N.A.0.9/0.25	-	-	-	-
Turret Phase Contrast Condenser	-	-	-	-
Dark Field Condenser (Dry)	-	-	-	-
Dark Field Condenser (Oil)	-	-	-	-
Abbe condenser with Iris diaphragm & filter	-	-	-	-

Abbe condenser NA1.25 with aperture diaphragm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Illumination				
Build-in Illumination, Halogen lamp 6 V / 20 W, Power supply 90-230 V	Yes			
LED 3W, Brightness Adjustable	-	-	-	-
Halogen Lamp 6 V/20 W, Brightness Adjustable	-	-	-	-
S-LED Powerful Illumination	-	-	-	-
6 V / 20 W halogen lamp, brightness adjustable	-	-	-	-
S-LED Illumination, brightness adjustable	-	-	-	-
12 V/ 20 W Halogen lamp, brightness adjustable	-	-	-	-
Kohler illumination	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Power Supply				
AC110/220 V +10 % , 50/60 Hz	Yes			
AC 110~220 V, 50/60 HZ	-	-	-	-
AC 110-220 V , 50/60 HZ	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
110~220 V, 50/60 Hz	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Package				
Cartoon with foam	Yes			
Package Size				
250x360x460 mm	Yes			
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
327x273x425 mm	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
323x264x440 mm (BMM-1000), 380x260x510 mm (BMM-2000)	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Gross Weight				
8 kg	Yes			
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
7.5kg	-	-	-	-

MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
6.5 kg (BMM-1000), 10 kg (BMM-2000)	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Infinite Optical System	-	-	-	-
Finite Optical System	-	-	-	-
NA	-	-	-	-
Optional	-	-	-	-
Compensation Free Binocular Head, Inclined at 30°, Interpupillary Distance 48-75 mm	-	-	-	-
Camera System				
Valid Pixel 1280x1024 (1.3M Pixel)	-	-	-	-
Valid Pixel 1600x1200 (2.0M Pixel)	-	-	-	-
Valid Pixel 2048x1036 (3.0M Pixel)	-	-	-	-
Valid Pixel 2052x1944(5.0 M Pixel)	-	-	-	-
Output Mode USB 2.0	-	-	-	-
Operation System WINDOWS7/8 2000 / XP/VISTA	-	-	-	-
Software Scopelimage 9.0	-	-	-	-
Range of Viewing Field >90%(BMB-117M ); 18 mm(BMB-300M)	-	-	-	-
Focusing				
Coaxial Coarse & Fine Adjustment System, Range 24 mm, Fine Division 0.004 mm	-	-	-	-
Coaxial Coarse & Fine Adjustment System, Range 20 mm	-	-	-	-
Coaxial coarse & fine adjustment, range 28 mm, fine division 0.002 mm	-	-	-	-
Coaxial coarse & fine adjustment , fine division 0.002 mm, coarse stroke 37.7 mm per rotation, fine stroke 0.2 mm per rotation, moving range 20 mm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Accessories				
Phase Contrast Kit	-	-	-	-
Dark-Field Attachment	-	-	-	-
Polarization Attachment	-	-	-	-
Photo attachment, video attachment	-	-	-	-
Dark field condenser	-	-	-	-
Polarization set, phase contrast kit	-	-	-	-
Analyzer				
Rotatable analyzer with gradation 0°- 90°	-	-	-	-
Bertrand Lens				
Bertrand lens, sliding in/ out of optical path	-	-	-	-
Optical Compensator				
$\lambda$ slip(first class red)	-	-	-	-
$\frac{1}{4}$ $\lambda$ slip	-	-	-	-
Quartz wedge	-	-	-	-
Revolving Round Stage				

Diameter $\Phi$ 160 mm, graduated in 1° increments, Minimum resolution 6' when using vernier scale	-	-	-	-
Polarizer				
Sliding in/out of optical path, located on the top of collector	-	-	-	-
Fluorescent Straight Illumination	-	-	-	-
Protection Screen	-	-	-	-
Power	-	-	-	-
Connecting Wire	-	-	-	-
Fluorescent Free Objective	-	-	-	-
Immersion Oil	-	-	-	-
Optical System				
Infinite optical system	-	-	-	-
Achromatic Objectives	-	-	-	-

Model	MSC21-05	MSC21-06	MSC21-07	MSC21-08
Viewing Head				
Sliding Trinocular Head Inclined at 45°	-	-	-	-
Compensation Free Trinocular Head inclined at 30°	-	-	-	-
10° LCD	-	-	-	-
Seidentopf Binocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	Standard Outfit	NA		
Seidentopf Trinocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	NA	Optional	NA	
Sliding binocular head at 45°, 360° rotatable	-	-	-	-
Sliding trinocular head at 45°, 360° rotatable	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
Siedentopf binocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	-	-
Siedentopf trinocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Nosepiece				
Ball Beating Quadruple Nosepiece	-	-	-	-
Backward Quadruple Nosepiece	-	-	-	-
Quintuple Nosepiece	-	-	-	-
Quadruple Nosepiece	-	-	-	-
Toward quadruple nosepiece, center adjustable	-	-	-	-
Quadruple nosepiece	-	-	-	-
Backward quadruple nosepiece	-	-	-	-
Backward quintuple nosepiece	-	-	-	-
Eyepiece				
WF10X/ 18mm	-	-	-	-
WF10x/18	-	-	-	-
P16 x/11	-	-	-	-
Extra wide filed eyepiece EW10x/20 with diopter adjustment	-	-	-	-

Eyepiece WF10 x/ 18 with scale of crosshair	-	-	-	-
Eyepiece WF 10 x/18	-	-	-	-
WF 10 x / 18	-	-	-	-
P16 x/ 11	-	-	-	-
WF10 x/ 20	-	-	-	-
WF15 x/ 16	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Objective				
Achromatic 4X, 10X, 40X(S) 100X(S,O)	-	-	-	-
Plan Achromatic 4X, 10X, 40X(S) 100X(S,O)	-	-	-	-
Achromatic Objective 4x, 10x, 40x, 100x	-	-	-	-
Infinite plan Achromatic Objective 4x, 10x, 40x, 100x	-	-	-	-
Infinite Plan Achromatic Phase Objective 10x,20x,40x,100x	-	-	-	-
Oil Darkfield Objective with Iris Diaphragm 100x(NA0.36-1.25)	-	-	-	-
Strain free achromatic objective 4x , 10x , 40x	-	-	-	-
Achromatic objective 4x, 10x, 40x,100x	-	-	-	-
Plan achromatic objective 4x, 10x , 40x ,100x	-	-	-	-
Infinite plan achromatic objective 20x, 60x	-	-	-	-
Infinite plan achromatic objective 4x, 10x, 40x, 100x	-	-	-	-
Stage				
Double Layer Mechanical Stage 135x140mm	-	-	-	-
Double Layers Mechanical Stage 140x140 mm, Moving range 75x50 mm	-	-	-	-
Double layers mechanical stage:132x142 mm, moving range:75x40 mm	-	-	-	-
Rectangular 230x150 mm stage, moving range:78x54 mm, using low positioned X/Y coaxial control knob	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Condenser				
ABBE NA1.25 condenser with Iris Diaphragm &filter, rack&pinion adjustable	-	-	-	-
Abbe NA1.20 with Iris Diaphragm & Fliter	-	-	-	-
Swing Condenser N.A.0.9/0.25	-	-	-	-
Turret Phase Contrast Condenser	-	-	-	-
Dark Field Condenser (Dry)	-	-	-	-
Dark Field Condenser (Oil)	-	-	-	-
Abbe condenser with Iris diaphragm & filter	-	-	-	-
Abbe condenser NA1.25 with aperture diaphragm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Illumination				

Build-in Illumination, Halogen lamp 6 V / 20 W, Power supply 90-230 V	-	-	-	-
LED 3W, Brightness Adjustable	-	-	-	-
Halogen Lamp 6 V/20 W, Brightness Adjustable	-	-	-	-
S-LED Powerful Illumination	-	-	-	-
6 V / 20 W halogen lamp, brightness adjustable	-	-	-	-
S-LED Illumination, brightness adjustable	-	-	-	-
12 V/ 20 W Halogen lamp, brightness adjustable	-	-	-	-
Kohler illumination	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Power Supply				
AC110/220 V +10 % , 50/60 Hz	-	-	-	-
AC 110~220 V, 50/60 HZ	-	-	-	-
AC 110-220 V , 50/60 HZ	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
110~220 V, 50/60 Hz	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Package				
Cartoon with foam	-	-	-	-
Package Size				
250x360x460 mm	-	-	-	-
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
327x273x425 mm	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
323x264x440 mm (BMM-1000), 380x260x510 mm (BMM-2000)	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Gross Weight				
8 kg	-	-	-	-
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
7.5kg	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
6.5 kg (BMM-1000), 10 kg (BMM-2000)	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-



MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Infinite Optical System	NA		Standard Outfit	
Finite Optical System	Standard Outfit		NA	
NA	Focusing System: Coaxial Coarse and Fine Adjustment, Fine Division 0.002 mm, Moving Range 25 mm		Illumination: 6 V /20 W Halogen Lamp, Brightness Adjustable	
Optional	Power Supply: AC 110~220 V, 50/60 HZ			
Compensation Free Binocular Head, Inclined at 30°, Interpupillary Distance 48-75 mm	-	-	-	-
Camera System				
Valid Pixel 1280x1024 (1.3M Pixel)	-	-	-	-
Valid Pixel 1600x1200 (2.0M Pixel)	-	-	-	-
Valid Pixel 2048x1036 (3.0M Pixel)	-	-	-	-
Valid Pixel 2052x1944(5.0 M Pixel)	-	-	-	-
Output Mode USB 2.0	-	-	-	-
Operation System WINDOWS7/8 2000 / XP/VISTA	-	-	-	-
Software Scopelimage 9.0	-	-	-	-
Range of Viewing Field >90%(BMB-117M ); 18 mm(BMB-300M)	-	-	-	-
Focusing				
Coaxial Coarse & Fine Adjustment System, Range 24 mm, Fine Division 0.004 mm	-	-	-	-
Coaxial Coarse & Fine Adjustment System, Range 20 mm	-	-	-	-
Coaxial coarse & fine adjustment, range 28 mm, fine division 0.002 mm	-	-	-	-
Coaxial coarse & fine adjustment , fine division 0.002 mm, coarse stroke 37.7 mm per rotation, fine stroke 0.2 mm per rotation, moving range 20 mm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Accessories				
Phase Contrast Kit	-	-	-	-
Dark-Field Attachment	-	-	-	-
Polarization Attachment	-	-	-	-
Photo attachment, video attachment	-	-	-	-
Dark field condenser	-	-	-	-
Polarization set, phase contrast kit	-	-	-	-
Analyzer				
Rotatable analyzer with gradation 0°- 90°	-	-	-	-
Bertrand Lens				
Bertrand lens, sliding in/ out of optical path	-	-	-	-
Optical Compensator				
$\lambda$ slip(first class red)	-	-	-	-
$\frac{1}{4}$ $\lambda$ slip	-	-	-	-
Quartz wedge	-	-	-	-
Revolving Round Stage				

Diameter $\Phi$ 160 mm, graduated in 1° increments, Minimum resolution 6' when using vernier scale	-	-	-	-
Polarizer				
Sliding in/out of optical path, located on the top of collector	-	-	-	-
Fluorescent Straight Illumination	-	-	-	-
Protection Screen	-	-	-	-
Power	-	-	-	-
Connecting Wire	-	-	-	-
Fluorescent Free Objective	-	-	-	-
Immersion Oil	-	-	-	-
Optical System				
Infinite optical system	-	-	-	-
Achromatic Objectives	-	-	-	-

Model	MSC21-09	MSC21-10	MSC21-11	MSC21-12
Viewing Head				
Sliding Trinocular Head Inclined at 45°	-	-	-	-
Compensation Free Trinocular Head inclined at 30°	-	-	-	-
10° LCD	-	-	-	-
Seidentopf Binocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	-	-	-	-
Seidentopf Trinocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	-	-	-	-
Sliding binocular head at 45°, 360° rotatable	-	-	Standard Outfit	NA
Sliding trinocular head at 45°, 360° rotatable	-	-	NA	Standard Outfit
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
Siedentopf binocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	-	-
Siedentopf trinocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Nosepiece				
Ball Beating Quadruple Nosepiece	-	-	-	-
Backward Quadruple Nosepiece	Standard Outfit	NA	-	-
Quintuple Nosepiece	NA	Optional	-	-
Quadruple Nosepiece	NA	Standard Outfit	-	-
Toward quadruple nosepiece, center adjustable	-	-	Standard Outfit	
Quadruple nosepiece	-	-	-	-
Backward quadruple nosepiece	-	-	-	-
Backward quintuple nosepiece	-	-	-	-
Eyepiece				
WF10X/ 18mm	-	-	-	-

WF10x/18	Standard Outfit		-	-
P16 x/11	Optional	NA	-	-
Extra wide filed eyepiece EW10x/20 with diopter adjustment	NA	Optional	-	-
Eyepiece WF10 x/ 18 with scale of crosshair	-	-	Standard Outfit	
Eyepiece WF 10 x/18	-	-	Standard Outfit	
WF 10 x / 18	-	-	-	-
P16 x/ 11	-	-	-	-
WF10 x/ 20	-	-	-	-
WF15 x/ 16	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Objective				
Achromatic 4X, 10X, 40X(S) 100X(S,O)	-	-	-	-
Plan Achromatic 4X, 10X, 40X(S) 100X(S,O)	-	-	-	-
Achromatic Objective 4x, 10x, 40x, 100x	Standard Outfit	Optional	-	-
Infinite plan Achromatic Objective 4x, 10x, 40x, 100x	Optional	Standard Outfit	-	-
Infinite Plan Achromatic Phase Objective 10x,20x,40x,100x	NA	Optional	-	-
Oil Darkfield Objective with Iris Diaphragm 100x(NA0.36-1.25)	NA	Optional	-	-
Strain free achromatic objective 4x , 10x , 40x	-	-	Standard Outfit	
Achromatic objective 4x, 10x, 40x,100x	-	-	-	-
Plan achromatic objective 4x, 10x , 40x ,100x	-	-	-	-
Infinite plan achromatic objective 20x, 60x	-	-	-	-
Infinite plan achromatic objective 4x, 10x, 40x, 100x	-	-	-	-
Stage				
Double Layer Mechanical Stage 135x140mm	-	-	-	-
Double Layers Mechanical Stage 140x140 mm, Moving range 75x50 mm	Standard Outfit		-	-
Double layers mechanical stage:132x142 mm, moving range:75x40 mm	-	-	-	-
Rectangular 230x150 mm stage, moving range:78x54 mm, using low positioned X/Y coaxial control knob	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Condenser				
ABBE NA1.25 condenser with Iris Diaphragm &filter, rack&pinion adjustable	-	-	-	-
Abbe NA1.20 with Iris Diaphragm & Fliter	Standard Outfit	NA	-	-
Swing Condenser N.A.0.9/0.25	NA	Standard Outfit	-	-
Turret Phase Contrast Condenser	NA	Optional	-	-
Dark Field Condenser (Dry)	NA	Optional	-	-
Dark Field Condenser (Oil)	NA	Optional	-	-
Abbe condenser with Iris diaphragm & filter	-	-	Standard Outfit	

Abbe condenser NA1.25 with aperture diaphragm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Illumination				
Build-in Illumination, Halogen lamp 6 V / 20 W, Power supply 90-230 V	-	-	-	-
LED 3W, Brightness Adjustable	Standard Outfit	NA	-	-
Halogen Lamp 6 V/20 W, Brightness Adjustable	Optional	NA	-	-
S-LED Powerful Illumination	NA	Standard Outfit	-	-
6 V / 20 W halogen lamp, brightness adjustable	-	-	Standard Outfit	
S-LED Illumination, brightness adjustable	-	-	-	-
12 V/ 20 W Halogen lamp, brightness adjustable	-	-	-	-
Kohler illumination	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Power Supply				
AC110/220 V +10 % , 50/60 Hz	-	-	-	-
AC 110~220 V, 50/60 HZ	Standard Outfit		-	-
AC 110-220 V , 50/60 HZ	-	-	Standard Outfit	
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
110~220 V, 50/60 Hz	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Package				
Cartoon with foam	-	-	-	-
Package Size				
250x360x460 mm	-	-	-	-
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
327x273x425 mm	-	-	Standard Outfit	
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
323x264x440 mm (BMM-1000), 380x260x510 mm (BMM-2000)	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Gross Weight				
8 kg	-	-	-	-

MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
7.5kg	-	-	Standard Outfit	
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
6.5 kg (BMM-1000), 10 kg (BMM-2000)	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Infinite Optical System	-	-	-	-
Finite Optical System	-	-	-	-
NA	-	-	-	-
Optional	-	-	-	-
Compensation Free Binocular Head, Inclined at 30°, Interpupillary Distance 48-75 mm	Standard Outfit		-	-
Camera System				
Valid Pixel 1280x1024 (1.3M Pixel)	Standard Outfit	NA	-	-
Valid Pixel 1600x1200 (2.0M Pixel)	Optional	NA	-	-
Valid Pixel 2048x1036 (3.0M Pixel)	NA	Standard Outfit	-	-
Valid Pixel 2052x1944(5.0 M Pixel)	NA	Optional	-	-
Output Mode USB 2.0	Standard Outfit		-	-
Operation System WINDOWS7/8 2000 / XP/VISTA	Standard Outfit		-	-
Software ScopelImage 9.0	Standard Outfit		-	-
Range of Viewing Field >90%(BMB-117M ); 18 mm(BMB-300M)	Standard Outfit		-	-
Focusing				
Coaxial Coarse & Fine Adjustment System, Range 24 mm, Fine Division 0.004 mm	Standard Outfit	NA	-	-
Coaxial Coarse & Fine Adjustment System, Range 20 mm	NA	Standard Outfit	-	-
Coaxial coarse & fine adjustment, range 28 mm, fine division 0.002 mm	-	-	Standard Outfit	
Coaxial coarse & fine adjustment , fine division 0.002 mm, coarse stroke 37.7 mm per rotation, fine stroke 0.2 mm per rotation, moving range 20 mm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Accessories				
Phase Contrast Kit	Optional		-	-
Dark-Field Attachment	Optional		-	-
Polarization Attachment	Optional		-	-
Photo attachment, video attachment	-	-	-	-
Dark field condenser	-	-	-	-
Polarization set, phase contrast kit	-	-	-	-
Analyzer				
Rotatable analyzer with gradation 0°- 90°	-	-	Standard Outfit	

Bertrand Lens				
Bertrand lens, sliding in/ out of optical path	-	-	Standard Outfit	
Optical Compensator				
$\lambda$ slip(first class red)	-	-	Standard Outfit	
$\frac{1}{4} \lambda$ slip	-	-	Standard Outfit	
Quartz wedge	-	-	Standard Outfit	
Revolving Round Stage				
Diameter $\Phi$ 160 mm, graduated in 1° increments, Minimum resolution 6' when using vernier scale	-	-	Standard Outfit	
Polarizer				
Sliding in/out of optical path, located on the top of collector	-	-	Standard Outfit	
Fluorescent Straight Illumination	-	-	-	-
Protection Screen	-	-	-	-
Power	-	-	-	-
Connecting Wire	-	-	-	-
Fluorescent Free Objective	-	-	-	-
Immersion Oil	-	-	-	-
Optical System				
Infinite optical system	-	-	-	-
Achromatic Objectives	-	-	-	-

Model	MSC21-13	MSC21-14	MSC21-19	MSC21-20
Viewing Head				
Sliding Trinocular Head Inclined at 45°	-	-	-	-
Compensation Free Trinocular Head inclined at 30°	-	-	-	-
10° LCD	-	-	-	-
Seidentopf Binocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	-	-	-	-
Seidentopf Trinocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	-	-	-	-
Sliding binocular head at 45°, 360° rotatable	-	-	-	-
Sliding trinocular head at 45°, 360° rotatable	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
Siedentopf binocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	Standard Outfit	
Siedentopf trinocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	Optional	
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Nosepiece				
Ball Beating Quadruple Nosepiece	-	-	-	-
Backward Quadruple Nosepiece	-	-	-	-
Quintuple Nosepiece	-	-	-	-
Quadruple Nosepiece	-	-	-	-
Toward quadruple nosepiece, center adjustable	-	-	-	-

Quadruple nosepiece	-	-	Standard Outfit	NA
Backward quadruple nosepiece	-	-	NA	Standard Outfit
Backward quintuple nosepiece	-	-	NA	Optional
Eyepiece				
WF10X/ 18mm	-	-	-	-
WF10x/18	-	-	-	-
P16 x/11	-	-	-	-
Extra wide filed eyepiece EW10x/20 with diopter adjustment	-	-	-	-
Eyepiece WF10 x/ 18 with scale of crosshair	-	-	-	-
Eyepiece WF 10 x/18	-	-	-	-
WF 10 x / 18	-	-	Standard Outfit	NA
P16 x/ 11	-	-	Optional	NA
WF10 x/ 20	-	-	NA	Standard Outfit
WF15 x/ 16	-	-	NA	Optional
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Objective				
Achromatic 4X, 10X, 40X(S) 100X(S,O)	-	-	-	-
Plan Achromatic 4X, 10X, 40X(S) 100X(S,O)	-	-	-	-
Achromatic Objective 4x, 10x, 40x, 100x	-	-	-	-
Infinite plan Achromatic Objective 4x, 10x, 40x, 100x	-	-	-	-
Infinite Plan Achromatic Phase Objective 10x,20x,40x,100x	-	-	-	-
Oil Darkfield Objective with Iris Diaphragm 100x(NA0.36-1.25)	-	-	-	-
Strain free achromatic objective 4x , 10x , 40x	-	-	-	-
Achromatic objective 4x, 10x, 40x,100x	-	-	Standard Outfit	NA
Plan achromatic objective 4x, 10x , 40x ,100x	-	-	Optional	NA
Infinite plan achromatic objective 20x, 60x	-	-	NA	Optional
Infinite plan achromatic objective 4x, 10x, 40x, 100x	-	-	Optional	Standard Outfit
Stage				
Double Layer Mechanical Stage 135x140mm	-	-	-	-
Double Layers Mechanical Stage 140x140 mm, Moving range 75x50 mm	-	-	-	-
Double layers mechanical stage:132x142 mm, moving range:75x40 mm	-	-	Standard Outfit	NA
Rectangular 230x150 mm stage, moving range:78x54 mm, using low positioned X/Y coaxial control knob	-	-	NA	Standard Outfit
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Condenser				

ABBE NA1.25 condenser with Iris Diaphragm & filter, rack&pinion adjustable	-	-	-	-
Abbe NA1.20 with Iris Diaphragm & Fliter	-	-	-	-
Swing Condenser N.A.0.9/0.25	-	-	-	-
Turret Phase Contrast Condenser	-	-	-	-
Dark Field Condenser (Dry)	-	-	-	-
Dark Field Condenser (Oil)	-	-	-	-
Abbe condenser with Iris diaphragm & filter	-	-	-	-
Abbe condenser NA1.25 with aperture diaphragm	-	-	Standard Outfit	
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Illumination				
Build-in Illumination, Halogen lamp 6 V / 20 W, Power supply 90-230 V	-	-	-	-
LED 3W, Brightness Adjustable	-	-	-	-
Halogen Lamp 6 V/20 W, Brightness Adjustable	-	-	-	-
S-LED Powerful Illumination	-	-	-	-
6 V / 20 W halogen lamp, brightness adjustable	-	-	-	-
S-LED Illumination, brightness adjustable	-	-	Standard Outfit	
12 V/ 20 W Halogen lamp, brightness adjustable	-	-	Optional	
Kohler illumination	-	-	Optional	
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Power Supply				
AC110/220 V +10 % , 50/60 Hz	-	-	-	-
AC 110~220 V, 50/60 HZ	-	-	-	-
AC 110-220 V , 50/60 HZ	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
110~220 V, 50/60 Hz	-	-	Standard Outfit	
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Package				
Cartoon with foam	-	-	-	-
Package Size				
250x360x460 mm	-	-	-	-
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
327x273x425 mm	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
323x264x440 mm (BMM-1000), 380x260x510 mm (BMM-2000)	-	-	Standard Outfit	



MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Gross Weight				
8 kg	-	-	-	-
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
7.5kg	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
6.5 kg (BMM-1000), 10 kg (BMM-2000)	-	-	Standard Outfit	
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Infinite Optical System	-	-	-	-
Finite Optical System	-	-	-	-
NA	-	-	-	-
Optional	-	-	-	-
Compensation Free Binocular Head, Inclined at 30°, Interpupillary Distance 48-75 mm	-	-	-	-
Camera System				
Valid Pixel 1280x1024 (1.3M Pixel)	-	-	-	-
Valid Pixel 1600x1200 (2.0M Pixel)	-	-	-	-
Valid Pixel 2048x1036 (3.0M Pixel)	-	-	-	-
Valid Pixel 2052x1944(5.0 M Pixel)	-	-	-	-
Output Mode USB 2.0	-	-	-	-
Operation System WINDOWS7/8 2000 / XP/VISTA	-	-	-	-
Software ScopelImage 9.0	-	-	-	-
Range of Viewing Field >90%(BMB-117M ); 18 mm(BMB-300M)	-	-	-	-
Focusing				
Coaxial Coarse & Fine Adjustment System, Range 24 mm, Fine Division 0.004 mm	-	-	-	-
Coaxial Coarse & Fine Adjustment System, Range 20 mm	-	-	-	-
Coaxial coarse & fine adjustment, range 28 mm, fine division 0.002 mm	-	-	-	-
Coaxial coarse & fine adjustment , fine division 0.002 mm, coarse stroke 37.7 mm per rotation, fine stroke 0.2 mm per rotation, moving range 20 mm	-	-	Standard Outfit	
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Accessories				
Phase Contrast Kit	-	-	-	-
Dark-Field Attachment	-	-	-	-
Polarization Attachment	-	-	-	-
Photo attachment, video attachment	-	-	Optional	

Dark field condenser	-	-	Optional	NA
Polarization set, phase contrast kit	-	-	NA	Optional
Analyzer				
Rotatable analyzer with gradation 0°- 90°	-	-	-	-
Bertrand Lens				
Bertrand lens, sliding in/ out of optical path	-	-	-	-
Optical Compensator				
$\lambda$ slip(first class red)	-	-	-	-
$\frac{1}{4} \lambda$ slip	-	-	-	-
Quartz wedge	-	-	-	-
Revolving Round Stage				
Diameter $\Phi$ 160 mm, graduated in 1° increments, Minimum resolution 6' when using vernier scale	-	-	-	-
Polarizer				
Sliding in/out of optical path, located on the top of collector	-	-	-	-
Fluorescent Straight Illumination	B(Blue), G(Green) exciting light filter system O ordinary light system 100 W HBO super high-pressured spherical mercury lamp		-	-
Protection Screen	Screen to resist the UV		-	-
Power	AC input 220 V		-	-
Connecting Wire	With 2 connectors		-	-
Fluorescent Free Objective	10X, 20X, 40X (S), 100X (S, Oil)		-	-
Immersion Oil	Fluorescent free oil		-	-
Optical System				
Infinite optical system	-	-	NA	Standard Outfit
Achromatic Objectives	-	-	-	-

Model	MSC21-21	MSC21-22	MSC21-23	MSC21-24
Viewing Head				
Sliding Trinocular Head Inclined at 45°	-	-	-	-
Compensation Free Trinocular Head inclined at 30°	-	-	-	-
10° LCD	-	-	-	-
Seidentopf Binocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	-	-	-	-
Seidentopf Trinocular Viewing Head Inclined at 30°, Interpupillary 47-78mm	-	-	-	-
Sliding binocular head at 45°, 360° rotatable	-	-	-	-
Sliding trinocular head at 45°, 360° rotatable	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
Siedentopf binocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	-	-
Siedentopf trinocular viewing head, inclined at 30°, 360° rotatable, Interpupillary 48~75 mm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-

Nosepiece					
Ball Beating Quadruple Nosepiece	-	-	-	-	-
Backward Quadruple Nosepiece	-	-	-	-	-
Quintuple Nosepiece	-	-	-	-	-
Quadruple Nosepiece	-	-	-	-	-
Toward quadruple nosepiece, center adjustable	-	-	-	-	-
Quadruple nosepiece	-	-	-	-	-
Backward quadruple nosepiece	-	-	-	-	-
Backward quintuple nosepiece	-	-	-	-	-
Eyepiece					
WF10X/ 18mm	-	-	-	-	-
WF10x/18	-	-	-	-	-
P16 x/11	-	-	-	-	-
Extra wide filed eyepiece EW10x/20 with diopter adjustment	-	-	-	-	-
Eyepiece WF10 x/ 18 with scale of crosshair	-	-	-	-	-
Eyepiece WF 10 x/18	-	-	-	-	-
WF 10 x / 18	-	-	-	-	-
P16 x/ 11	-	-	-	-	-
WF10 x/ 20	-	-	-	-	-
WF15 x/ 16	-	-	-	-	-
MSC21-21	-	-	-	-	-
MSC21-22	-	-	-	-	-
MSC21-23	-	-	-	-	-
MSC21-24	-	-	-	-	-
Objective					
Achromatic 4X, 10X, 40X(S) 100X(S,O)	-	-	-	-	-
Plan Achromatic 4X, 10X, 40X(S) 100X(S,O)	-	-	-	-	-
Achromatic Objective 4x, 10x, 40x, 100x	-	-	-	-	-
Infinite plan Achromatic Objective 4x, 10x, 40x, 100x	-	-	-	-	-
Infinite Plan Achromatic Phase Objective 10x,20x,40x,100x	-	-	-	-	-
Oil Darkfield Objective with Iris Diaphragm 100x(NA0.36-1.25)	-	-	-	-	-
Strain free achromatic objective 4x , 10x , 40x	-	-	-	-	-
Achromatic objective 4x, 10x, 40x,100x	-	-	-	-	-
Plan achromatic objective 4x, 10x , 40x ,100x	-	-	-	-	-
Infinite plan achromatic objective 20x, 60x	-	-	-	-	-
Infinite plan achromatic objective 4x, 10x, 40x, 100x	-	-	-	-	-
Stage					
Double Layer Mechanical Stage 135x140mm	-	-	-	-	-
Double Layers Mechanical Stage 140x140 mm, Moving range 75x50 mm	-	-	-	-	-
Double layers mechanical stage:132x142 mm, moving range:75x40 mm	-	-	-	-	-
Rectangular 230x150 mm stage, moving range:78x54 mm, using low positioned X/Y coaxial control knob	-	-	-	-	-
MSC21-21	-	-	-	-	-
MSC21-22	-	-	-	-	-
MSC21-23	-	-	-	-	-
MSC21-24	-	-	-	-	-
Condenser					
ABBE NA1.25 condenser with Iris Diaphragm &filter, rack&pinion adjustable	-	-	-	-	-

Abbe NA1.20 with Iris Diaphragm & Fliter	-	-	-	-
Swing Condenser N.A.0.9/0.25	-	-	-	-
Turret Phase Contrast Condenser	-	-	-	-
Dark Field Condenser (Dry)	-	-	-	-
Dark Field Condenser (Oil)	-	-	-	-
Abbe condenser with Iris diaphragm & filter	-	-	-	-
Abbe condenser NA1.25 with aperture diaphragm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
<b>Illumination</b>				
Build-in Illumination, Halogen lamp 6 V / 20 W, Power supply 90-230 V	-	-	-	-
LED 3W, Brightness Adjustable	-	-	-	-
Halogen Lamp 6 V/20 W, Brightness Adjustable	-	-	-	-
S-LED Powerful Illumination	-	-	-	-
6 V / 20 W halogen lamp, brightness adjustable	-	-	-	-
S-LED Illumination, brightness adjustable	-	-	-	-
12 V/ 20 W Halogen lamp, brightness adjustable	-	-	-	-
Kohler illumination	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
<b>Power Supply</b>				
AC110/220 V +10 % , 50/60 Hz	-	-	-	-
AC 110~220 V, 50/60 HZ	-	-	-	-
AC 110-220 V , 50/60 HZ	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
110~220 V, 50/60 Hz	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
<b>Package</b>				
Cartoon with foam	-	-	-	-
<b>Package Size</b>				
250x360x460 mm	-	-	-	-
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
327x273x425 mm	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
323x264x440 mm (BMM-1000), 380x260x510 mm (BMM-2000)	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-

MSC21-24	-	-	-	-
Gross Weight				
8 kg	-	-	-	-
MSC21-09	-	-	-	-
MSC21-10	-	-	-	-
7.5kg	-	-	-	-
MSC21-13	-	-	-	-
MSC21-14	-	-	-	-
6.5 kg (BMM-1000), 10 kg (BMM-2000)	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Infinite Optical System	-	-	-	-
Finite Optical System	-	-	-	-
NA	-	-	-	-
Optional	-	-	-	-
Compensation Free Binocular Head, Inclined at 30°, Interpupillary Distance 48-75 mm	-	-	-	-
Camera System				
Valid Pixel 1280x1024 (1.3M Pixel)	-	-	-	-
Valid Pixel 1600x1200 (2.0M Pixel)	-	-	-	-
Valid Pixel 2048x1036 (3.0M Pixel)	-	-	-	-
Valid Pixel 2052x1944(5.0 M Pixel)	-	-	-	-
Output Mode USB 2.0	-	-	-	-
Operation System WINDOWS7/8 2000 / XP/VISTA	-	-	-	-
Software ScopelImage 9.0	-	-	-	-
Range of Viewing Field >90%(BMB-117M ); 18 mm(BMB-300M)	-	-	-	-
Focusing				
Coaxial Coarse & Fine Adjustment System, Range 24 mm, Fine Division 0.004 mm	-	-	-	-
Coaxial Coarse & Fine Adjustment System, Range 20 mm	-	-	-	-
Coaxial coarse & fine adjustment, range 28 mm, fine division 0.002 mm	-	-	-	-
Coaxial coarse & fine adjustment , fine division 0.002 mm, coarse stroke 37.7 mm per rotation, fine stroke 0.2 mm per rotation, moving range 20 mm	-	-	-	-
MSC21-21	-	-	-	-
MSC21-22	-	-	-	-
MSC21-23	-	-	-	-
MSC21-24	-	-	-	-
Accessories				
Phase Contrast Kit	-	-	-	-
Dark-Field Attachment	-	-	-	-
Polarization Attachment	-	-	-	-
Photo attachment, video attachment	-	-	-	-
Dark field condenser	-	-	-	-
Polarization set, phase contrast kit	-	-	-	-
Analyzer				
Rotatable analyzer with gradation 0°- 90°	-	-	-	-
Bertrand Lens				
Bertrand lens, sliding in/ out of optical path	-	-	-	-

Optical Compensator				
λ slip(first class red)	-	-	-	-
¼ λ slip	-	-	-	-
Quartz wedge	-	-	-	-
Revolving Round Stage				
Diameter Φ 160 mm, graduated in 1° increments, Minimum resolution 6' when using vernier scale	-	-	-	-
Polarizer				
Sliding in/out of optical path, located on the top of collector	-	-	-	-
Fluorescent Straight Illumination	-	-	-	-
Protection Screen	-	-	-	-
Power	-	-	-	-
Connecting Wire	-	-	-	-
Fluorescent Free Objective	-	-	-	-
Immersion Oil	-	-	-	-
Optical System				
Infinite optical system	-	-	-	-
Achromatic Objectives	4X, 10X, 40X (Spring) ,100X (Spring, Oil)			



MSC21-01



MSC21-02



MSC21-03



MSC21-04



MSC21-05



MSC21-06



MSC21-07



MSC21-08



MSC21-09



MSC21-10



MSC21-11



MSC21-12



MSC21-13



MSC21-14



MSC21-19



MSC21-20



Product Image Coming Soon

MSC21-21



MSC21-22



MSC21-23



MSC21-24

## MSC21 BIOLOGICAL MICROSCOPE

- Excellent optical function with infinite optical system.
- Innovative stand structure and sharp image display.
- Convenient operation and special design for viewing incubating cell tissue.
- Valid mould proof design.
- It can be used under the high temperature and high humidity environment.



### SPECIFICATIONS

Model	MSC21-15	MSC21-16	MSC21-17	MSC21-18
Optical System				
Infinite optical system	Standard Outfit	-	-	-
Viewing Head				
Trinocular head inclined at 30°, interpupillary distance 48-75 mm	Standard Outfit	-	-	-
Eyepiece				
High-point, extra wide field eyepiece EW10 x/ 22	Standard Outfit	-	-	-
LWD infinite plan objective				
4x/0.1, WD 17.3 mm;	Standard Outfit	-	-	-
10x/ 0.25, WD 10 mm;	Optional	-	-	-
20x/ 0.4, WD 5.1 mm;	Optional	-	-	-
40x/ 0.6, WD 2.1mm	Standard Outfit	-	-	-
Infinite plan phase objective				

PH10x/ 0.25, WD 10 mm;	Standard Outfit	-	-	-
PH20x/ 0.4, WD 5.1 mm;	Standard Outfit	-	-	-
PH40x/ 0.65, WD 2.1 mm	Optional	-	-	-
Nosepiece				
Quintuple nosepiece	Standard Outfit	-	-	-
Condenser				
ELWD condenser NA 0.3, LWD 72 mm (without condenser 150 mm)	Standard Outfit	-	-	-
Centering				
Centering telescope (Φ 30 mm)	Optional	-	-	-
Phase Annulus				
10x-20x, 40x phase annulus plate (fixed)	Standard Outfit	-	-	-
10x-20x, 40x phase annulus plate (adjustable)	Optional	-	-	-
Stage				
Plain stage 160x250 mm	Standard Outfit	-	-	-
Glass insert	Standard Outfit	-	-	-
Attachable mechanical stage, X-Y coaxial control, moving rang120x78 mm	Optional	-	-	-
Auxiliary stages 70x180 mm	Standard Outfit	-	-	-
Terasaki holder	Optional	-	-	-
Φ 35mm petri dish holder	Optional	-	-	-
Φ 54mm slide glass holder	Optional	-	-	-
Φ 90mm petri dish holder	Optional	-	-	-
Focusing				
Coaxial Coarse and Fine Adjustment, Fine Division 0.002 mm, Coarse Stroke 37.7 mm per Rotation, Fine Stroke 0.2 mm per Rotation, Moving Range up 8 mm, down 3 mm	Standard Outfit	-	-	-
Illumination				
Halogen lamp 6 V/ 30 W	Standard Outfit	-	-	-
LED	Optional	-	-	-
Filter				
Blue, green and ground glass, diameter 45 mm	Standard Outfit	-	-	-
Power Supply				
AC 110~220 V, 50/60 HZ	Standard Outfit	-	-	-
Accessories				
Inverted flurescent attahement FL-100, photo attachment, video adapter with C mount	Optional	-	-	-
Package Size				
468x397x665 mm	Standard Outfit	-	-	-
Gross Weight				
15.5 kg	Standard Outfit	-	-	-
Standard Outfit	-	Accessories: Photo attachment	-	-
Optional	-	Package Size	-	-
630x350x620 mm	-	Gross Weight	-	-
Yes	-	-	Package Size	



No	-	-	Power Supply: AC110/220 V ± 10%,50/60 Hz	Optional Accessories: Inverted fluorescent attachment, photo attachment, video adapter with C mount
350x250x508 mm	-	-	Gross Weight	-
468x397x665 mm	-	-	-	Gross Weight



MSC21-15



MSC21-16



MSC21-17



MSC21-18

# ***Centrifugen***

## **Centrifugen**

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