

Data Sheet

UM 210



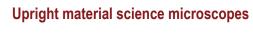
UM 210 DIC

Upright Material Science Microscope



Model	UM 210 DIC
Optical system	CCIS
Total magnification	50x - 100x - 200x - 400x
Eyepiece	WF 10x (ø22mm)
•	PL L 5x/0.12BD WD=26.10mm (for DIC observation)
Plan achromatic objectives	PL L 10x/0.25BD WD=20.20mm (for DIC observation)
long working distance	PL L 20x/0.40BD WD=8.80mm (for DIC observation)
	PL L 40x/0.60BD (Spring) WD=3.98mm
DIC slider	DIC slider for DIC objective 5x-10x-20x
	Trinocular
H d	Inclination of 30°
Head	Interpupillary distance 55mm-75mm
	Diopter adjustable ±5
Nosepiece	Quintuple back ball bearing inner locating
Ctoro	Double layer mechanical with glass insert, overall size 210x140mm
Stage	Coaxial motion 75x50mm
Focusing System	Coaxial coarse/fine focus system, minimum division of fine focusing 2µm
Focusing System	Tensional adjustable with upper stop
D 6 (131) (Illumination with integrated field diaphragm and aperture diaphragm
Reflected illumination	12V 50W halogen lamp with brightness control
	Abbe condenser N.A. 1.25
Transmitted illumination	Collector for illumination with halogen lamp with field diaphragm
	Kohler illumination 12V 30W halogen lamp with brightness control
Polarization	Internal polarizer
Analyzer	360° rotatable analyzer
	Yellow for reflected light
Filter	Blue for reflected light
riilei	Green for reflected light
	Frosted glass filter for reflected light
	Brightfield: Yes
Contrast techniques	Darkfiled: Yes
	DIC: Yes
	POL Contrast: Yes
Power supply	230V ±10% - 50/60Hz -1Ph - 30W
Dimensions	480x360x560mm
Weight	9kg

Model Description UM E-210-01 Eyepiece WF10x (ø18mm) crosshair 0.1mm/Div UM O-210DIC-21 Long working distance objective PL L 50x/0.70 WD=3.68mm UM O-210DIC-22 Long working distance objective PL L 60x/0.75 WD=1.22mm UM O-210DIC-23 Long working distance objective PL L 80x/0.80 (Spring) WD=1.25mm UM O-210DIC-24 Long working distance objective PL L 100x/0.85 WD=0.40mm UM F-210-61 Green filter for transmitted light UM F-210-62 Yellow filter for transmitted light UM CA-210-91 Camera adapter 0.5x UM CA-210-93 Camera adapter 0.5x with dividing 0.1mm/Div	Optional accessories		
Crosshair 0.1mm/Div UM O-210DIC-21 UM O-210DIC-22 UM O-210DIC-22 Long working distance objective PL L 50x/0.70 WD=3.68mm Long working distance objective PL L 60x/0.75 WD=1.22mm Long working distance objective PL L 80x/0.80 (Spring) WD=1.25mm UM O-210DIC-24 Long working distance objective PL L 100x/0.85 WD=0.40mm UM F-210-61 Green filter for transmitted light UM F-210-62 Yellow filter for transmitted light UM CA-210-91 Camera adapter 0.5x LIM CA-210-92 Camera adapter 1x Camera adapter 0.5x	Model	Description	
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UM O-210DIC-22 PL L 60x/0.75 WD=1.22mm Long working distance objective PL L 80x/0.80 (Spring) WD=1.25mm Long working distance objective PL L 100x/0.85 WD=0.40mm UM O-210DIC-24 UM F-210-61 Green filter for transmitted light UM F-210-62 Vellow filter for transmitted light UM CA-210-91 Camera adapter 0.5x UM CA-210-92 Camera adapter 1x Camera adapter 0.5x	UM O-210DIC-21		
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UM CA-210-91 Camera adapter 0.5x UM CA-210-92 Camera adapter 1x LIM CA-210-93 Camera adapter 0.5x	UM F-210-61	Green filter for transmitted light	
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	UM CA-210-92	Camera adapter 1x	
·	UM CA-210-93	Camera adapter 0.5x with dividing 0.1mm/Div	





UM 210 BD

Upright Material Science Microscope



Model	UM 210 BD
Optical system	CCIS
Total magnification	50x - 100x - 200x - 400x
Eyepiece	WF 10x (ø22mm)
	PL L 5x/0.12BD WD=9.70mm
Plan achromatic objectives long working	PL L 10x/0.25BD WD=9.30mm
distance	PL L 20x/0.40BD WD=7.20mm
distarios	PL L 40x/0.60BD WD=3.00mm
	Trinocular
Head	Inclination of 30°
пеац	Interpupillary distance 55mm-75mm
	Diopter adjustable ±5
Nosepiece	Quadruple back ball bearing inner locating
Ctoro	Double layer mechanical with glass insert, overall size 210x140mm
Stage	Coaxial motion 75x50mm
Facusias Custam	Coaxial coarse/fine focus system, minimum division of fine focusing 2µm
Focusing System	Tensional adjustable with upper stop
Deflected illumination	Illumination with aperture diaphragm
Reflected illumination	12V 50W halogen lamp with brightness control
	Abbe condenser N.A. 1.25
Transmitted illumination	Collector for illumination with halogen lamp with field diaphragm
	Kohler illumination 12V 30W halogen lamp with brightness control
Polarization	Internal polarizer
Analyzer	360° rotatable analyzer
	Yellow for reflected light
Filton	Blue for reflected light
Filter	Green for reflected light
	Frosted glass filter for reflected light
Contrast techniques	Brightfield: Yes
	Darkfiled: Yes
	DIC: Not available
	POL Contrast: Yes
Power supply	230V ±10% - 50/60Hz -1Ph - 30W
Dimensions	480x360x560mm
Weight	9kg

Optional accessories		
Model	Description	
UM E-210-01	Eyepiece WF10x (ø18mm) crosshair 0.1mm/Div	
UM O-210BD-21	Long working distance objective PL L 50x/0.70BD WD=2.50mm	
UM O-210BD-22	Long working distance objective PL L 60x/0.70BD WD1.90mm	
UM O-210BD-23	Long working distance objective PL L 80x/0.70BD WD=1.25mm	
UM O-210BD-24	Long working distance objective PL L 100x/0.70BD WD=0.40mm	
UM F-210-61	Green filter for transmitted light	
UM F-210-62	Yellow filter for transmitted light	
UM CA-210-91	Camera adapter 0.5x	
UM CA-210-92	Camera adapter 1x	
UM CA-210-93	Camera adapter 0.5x with dividing 0.1mm/Div	



UM 210

Upright Material Science Microscope

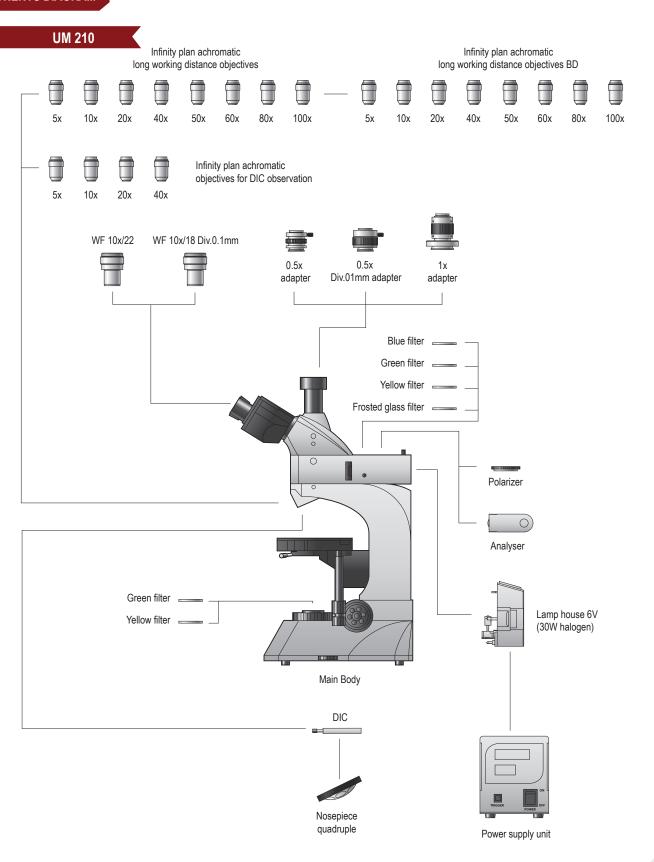


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Optical system	CCIS
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Eyepiece	WF 10x (ø22mm)
• •	PL L 5x/0.12 WD=26.1mm
Plan achromatic objectives	PL L 10x/0.25 WD=20,2mm
long working distance	PL L 40x/0.60 WD=3.98mm
	PL L 60x/0.75 WD=3.18mm
	Trinocular
Head	Inclination of 30°
Head	Interpupillary distance 55mm-75mm
	Diopter adjustable ±5
Nosepiece	Quadruple back ball bearing inner locating
Chann	Double layer mechanical with glass insert, overall size 210x140mm
Stage	Coaxial motion 75x50mm
Focusing Custom	Coaxial coarse/fine focus system, minimum division of fine focusing 2µm
Focusing System	Tensional adjustable with upper stop
Definite day of the	Illumination with field diaphragm and aperture diaphragm
Reflected illumination	6V 30W halogen lamp with brightness control
	Abbe condenser N.A. 1.25
Transmitted illumination	Collector for illumination with halogen lamp with field diaphragm
	Kohler illumination 6V 20W halogen lamp with brightness control
Polarization	Internal polarizer
Analyzer	360° rotatable analyzer
	Yellow for reflected light
Filter	Blue for reflected light
riilei	Green for reflected light
	Frosted glass filter for reflected light
	Brightfield: Yes
Contrast techniques	Darkfiled: Not available
	DIC: Not available
	POL Contrast: Yes
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Optional accessories		
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UM O-210-21	Long working distance objective PL L 20x/0.40 WD=8.80mm	
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UM O-210-23	Long working distance objective PL L 80x/0.80 (Spring) WD=1.25mm	
UM O-210-24	Long working distance objective PL L 100x/0.85 WD=0.40mm	
UM F-210-61	Green filter for transmitted light	
UM F-210-62	Yellow filter for transmitted light	
UM CA-210-91	Camera adapter 0.5x	
UM CA-210-92	Camera adapter 1x	
UM CA-210-93	Camera adapter 0.5x with dividing 0.1mm/Div	



COMPONENTS DIAGRAM





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