

UM 210 DIC

Upright Material Science Microscope



Model	UM 210 DIC
Optical system	CCIS
Total magnification	50x - 100x - 200x - 400x
Eyepiece	WF 10x (ø22mm)
Plan achromatic objectives long working distance	PL L 5x/0.12BD WD=26.10mm (for DIC observation)
	PL L 10x/0.25BD WD=20.20mm (for DIC observation)
	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
Head	Trinocular
	Inclination of 30°
	Interpupillary distance 55mm-75mm
	Diopter adjustable ±5
Nosepiece	Quintuple back ball bearing inner locating
Stage	Double layer mechanical with glass insert, overall size 210x140mm
	Coaxial motion 75x50mm
Focusing System	Coaxial coarse/fine focus system, minimum division of fine focusing 2µm Tensional adjustable with upper stop
Reflected illumination	Illumination with integrated field diaphragm and aperture diaphragm 12V 50W halogen lamp with brightness control
Transmitted illumination	Abbe condenser N.A. 1.25
	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
Filter	Yellow for reflected light
	Blue for reflected light
	Green for reflected light
	Frosted glass filter for reflected light
Contrast techniques	Brightfield: Yes
	Darkfield: Yes
	DIC: Yes
	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-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-210-92	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)
Plan achromatic objectives long working distance	PL L 5x/0.12BD WD=9.70mm
	PL L 10x/0.25BD WD=9.30mm
	PL L 20x/0.40BD WD=7.20mm
	PL L 40x/0.60BD WD=3.00mm
Head	Trinocular
	Inclination of 30°
	Interpupillary distance 55mm-75mm
	Diopter adjustable ±5
Nosepiece	Quadruple back ball bearing inner locating
Stage	Double layer mechanical with glass insert, overall size 210x140mm
	Coaxial motion 75x50mm
Focusing System	Coaxial coarse/fine focus system, minimum division of fine focusing 2μm
	Tensional adjustable with upper stop
Reflected illumination	Illumination with aperture diaphragm
	12V 50W halogen lamp with brightness control
Transmitted illumination	Abbe condenser N.A. 1.25
	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
Filter	Yellow for reflected light
	Blue for reflected light
	Green for reflected light
	Frosted glass filter for reflected light
Contrast techniques	Brightfield: Yes
	Darkfield: 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

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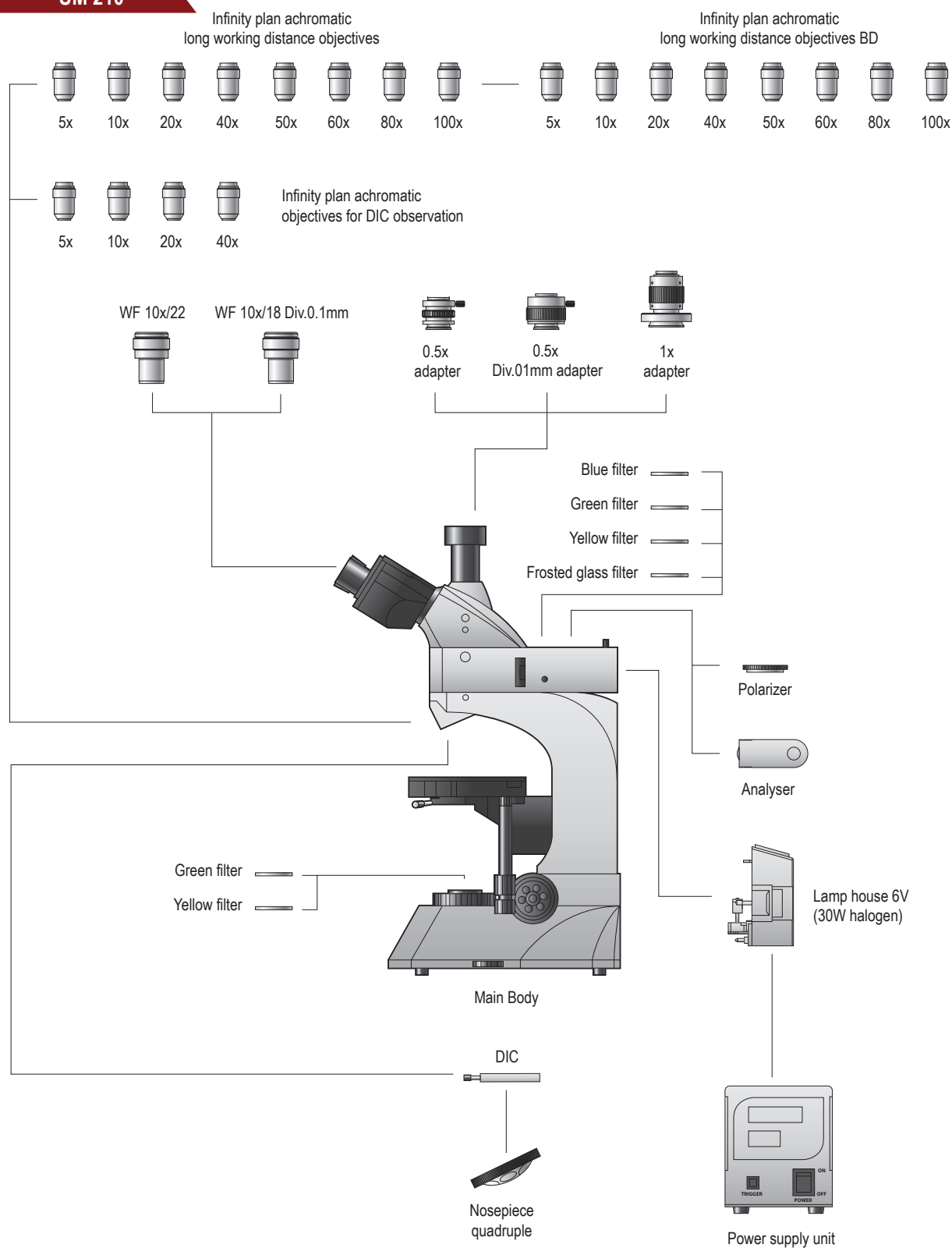
Model	UM 210
Optical system	CCIS
Total magnification	50x - 100x - 400x - 600x
Eyepiece	WF 10x (ø22mm)
Plan achromatic objectives long working distance	PL L 5x/0.12 WD=26.1mm
	PL L 10x/0.25 WD=20.2mm
	PL L 40x/0.60 WD=3.98mm
	PL L 60x/0.75 WD=3.18mm
Head	Trinocular
	Inclination of 30°
	Interpupillary distance 55mm-75mm
	Diopter adjustable ±5
Nosepiece	Quadruple back ball bearing inner locating
Stage	Double layer mechanical with glass insert, overall size 210x140mm
	Coaxial motion 75x50mm
Focusing System	Coaxial coarse/fine focus system, minimum division of fine focusing 2μm
	Tensional adjustable with upper stop
Reflected illumination	Illumination with field diaphragm and aperture diaphragm
	6V 30W halogen lamp with brightness control
Transmitted illumination	Abbe condenser N.A. 1.25
	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
Filter	Yellow for reflected light
	Blue for reflected light
	Green for reflected light
	Frosted glass filter for reflected light
Contrast techniques	Brightfield: Yes
	Darkfield: Not available
	DIC: Not available
	POL Contrast: Yes
Power supply	230V ±10% - 50/60Hz - 1Ph - 30W
Dimensions	480x360x560mm
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Optional accessories

Model	Description
UM E-210-01	Eyepiece WF10x (ø18mm) crosshair 0.1mm/Div
UM O-210-21	Long working distance objective PL L 20x/0.40 WD=8.80mm
UM O-210-22	Long working distance objective PL L 50x/0.70 WD=3.68mm
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

UM 210





DEVCO S.r.l.

Via Marzabotto, 59 20037 Paderno Dugnano (MI)
Tel +39 0283591153 - Fax. +39 0295441300
www.devcosrl.it - e-mail: info@devcosrl.it

www.echo-lab.it