

# SPECIFICATIONS

## PANTHERA TEC MAT SERIES

Model	Panthera TEC MAT BF	Panthera TEC MAT BF-T	Panthera TEC MAT BD	Panthera TEC MAT BD-T
Optical System	Colour Corrected Infinity Optical System (CCIS®)			
Observation Tube	Trinocular head, Siedentopf type			
Interpupillary distance (mm)	48-75			
Trino light split	50/50 fixed			
Inclination	25° inclined, 360° swivelling			
Eyepieces	UC-WF10X/22			
Eyepieces diopter adjustment	+/- 4 dpt			
Nosepiece	Reversed quintuple, Brightfield, coded		Reversed quintuple, Brightfield / Darkfield, coded	
Objective classification	Plan Achromat LD / Plan S-APO		Plan Achromat BD / Plan S-APO BD	
Objectives	Plan Achromat LD 5X/0.13 (WD 20.3mm), Plan Achromat LD 10X/0.25 (WD 17.5mm), Plan Achromat LD 20X/0.40 (WD 8.1mm), Plan S-APO 50X/0.80 (WD 1mm)		Plan Achromat BD 5X/0.13 (WD 17.3mm), Plan Achromat BD 10X/0.25 (WD 16.3mm), Plan Achromat BD 20X/0.40 (WD 7.3mm), Plan S-APO BD 50X/0.80 (WD 1mm)	
Objective mounting thread	W 4/5" x 1/36" (RMS standard)		M32	
Intermediate tube	Compact EpiBF intermediate		Compact EpiBD intermediate with smart segmental ringlight	
Stage	3x2" Mechanical stage or 6x4" Mechanical stage			
Stage size (mm)	180x140mm surface (3"x2") or 300x180mm surface (6"x4")			
Travel range X&Y (mm)	75x50mm movement (3"x2") or 150x100mm movement (6"x4")			
Upper limit stop	Preset; adjustable			
Condenser	-	LED condenser	-	LED condenser
Focus mechanism	Coaxial; tension adjustment			
Minimum fine focus precision (µm)	2			
Z-axis movement (mm)	35			
Illumination type (Incident light from Intermediate)	3W LED		3W LED, smart segmental ringlight	
Illumination type (Transmitted light from stand)	-	0.06W * 39 LEDs (LED condenser)	-	0.06W * 39 LEDs (LED condenser)
Illumination interchangeability	LED color temperature interchangeability			
Illumination features	Motic LightTracer: Light memory, sleep mode, nosepiece LED light intensity and mode indicator			
Connectivity	USB for external power			
Power supply	110-240V (CE)			
Accessories included	power cord, dust cover, allen key, screws for metal extension support			
Dimensions L x W x H (mm)	282x210x450			
Weight (Kg)	10			
Optional Objectives	Plan S-APO 100x/0.90 Brightfield		Plan S-APO BD 100x/0.90 Darkfield	
Optional stage	6"x4" Mechanical stage or 3"x2" Mechanical stage			
Optional Analyzer, polarizer	360° Rotatable analyzer, polarizer slider			
<b>Contrast techniques</b>				
Brightfield	Yes			
Darkfield	-	-	Yes	Yes
Simple Polarization (Incident)	Yes			

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