

# SPECIFICATIONS



MORE THAN MICROSCOPY

	PA53MET	PA53MET-3D	PA53MET-T	PA53MET-BD	PA53MET-BD-3D	PA53MET-BD-T
<b>Optical System</b>	Colour Corrected Infinity Optical System (CCIS®)					
Illumination	Reflected	Reflected	Reflected / Transmitted	Reflected	Reflected	Reflected / Transmitted
<b>Observation Tube</b>	Erect type (F.N 25), 20° inclined					
Binocular (Optional)	Erect type (F.N 25), 20° inclined, Trino Light path selection: 2-step (100:0 / 0:100)					
Trinocular	Erect type (F.N 25), 20° inclined, Trino Light path selection: 2-step (100:0 / 0:100)					
<b>Eyepieces</b>	10X (F.N 25), Diopter adjustable, Reticle optional					
<b>Revolving Nosepiece</b>						
Brightfield	5-position Nosepiece for Brightfield objective lens with DIC slot			/		
Brightfield/ Darkfield	/			5-position Nosepiece for Brightfield, Darkfield objective lens with DIC slot		
<b>Objectives</b>						
Plan S-APO	5X/0.15 W.D 20mm, 10X/0.3 W.D 12mm, 20X/0.45 W.D 3mm, 50X/0.8 W.D 1mm, 100X/0.9 W.D 0.5mm (Optional)			/		
Plan S-APO BD	/			5X/0.15 W.D 20mm , 10X/0.3 W.D 12mm, 20X/0.45 W.D 3mm, 50X/0.8 W.D 1mm, 100X/0.9 W.D 0.5mm (Optional)		
LPlan S-APO (Optional)	20X/0.4 W.D 12mm, 50X/0.55 WD 8mm, 100X/0.8 W.D 3.3mm			/		
LPlan S-APO BD (Optional)	/			20X/0.4 W.D 12mm, 50X/0.55 WD 8mm, 100X/0.8 W.D 3.3mm		
<b>Base unit - Focus</b>	Stroke range: 29.5 mm / Coarse and Fine focusing knob.					
	Coarse: 17.7 mm/revolution / Fine: 0.1 mm/revolution (1 µm scale)					
	Upper limit stopper, Torque adjustment ring					
<b>Base unit - Electronics</b>	Integrated power supply for light adjustment / LED voltage indicator / IL switch and ECO switch					
3D Profile Module	No	Yes	No	No	Yes	No
Mechanism	-	High-resolution 5-phase stepping motor, Long cross-roller guide system	-	-	High-resolution 5-phase stepping motor, Long cross-roller guide system	-
Stroke Distance	-	30 mm	-	-	30 mm	-
Resolution	-	0.01µm	-	-	0.01µm	-
Repeatability	-	0.5µm	-	-	0.5µm	-
Max Speed	-	1.4 mm/sec	-	-	1.4 mm/sec	-
Dimensions	-	240(W) X 157(D) X 202.5 (H) mm	-	-	240(W) X 157(D) X 202.5 (H) mm	-
Weight	-	5 kg	-	-	5 kg	-
Load capacity	-	15 kg	-	-	15 kg	-
<b>Reflected Illumination</b>						
BF	Kohler illumination system / Brightfield, Normaski DIC, simple Polarized			/		
BF/DF	/			Kohler illumination system / Brightfield / Darkfield, Normaski DIC, simple Polarized		
Light source	12V 100W halogen					
<b>Transmitted Illumination</b>	No		Yes	No		Yes
Illumination	-		Kohler illumination system Brightfield / Built-in filters	-		Kohler illumination system Brightfield / Built-in filters
Light Source	-		12V100W halogen	-		12V100W halogen
Lamp	-		12V 100W long-life halogen bulb (Philips 7724)	-		12V 100W long-life halogen bulb (Philips 7724)
Condenser	No		Yes	No		Yes
Abbe	-		N.A 1.20	-		N.A 1.20
Long-working	-		LWCD, N.A 0.65	-		LWCD, N.A 0.65
<b>Stage</b>						
4x4 inch	Size 210(W) X 170(D) mm, Stroke 104(X) X 102(Y) mm, metal plate, glass plate					
Optional	6x6" stage, 6x6" stage, 8" wafer stage, 12" wafer stage					
Dimension	Approx. 246(W) x 572(D) x 514(H)					
Weight	Approx. 19kg					