

Technical Data

Performance Characteristics



	Leica M125	Leica M165 C	Leica M205 C / M205 A
Optical data	12.5:1 manual	16.5:1 manual	20.5:1 manual/motorized with FusionOptics™
Zoom			
Data with standard optics (1× objective/10× eyepieces)			
– Zoom range	8×–100×	7.3×–120×	7.8×–160×
– Resolution	max. 432lp/mm	max. 453lp/mm	max. 525lp/mm
– Working distance	61.5 mm (planapochromat)	61.5mm (planapochromat)	61.5mm (planapochromat)
– Object field	28.8mm–2.3mm	31.5mm–1.92mm	29.5mm–1.44mm
Maximum values (based on optics combination)			
– Magnification	800×	960×	1280×
– Resolution	864lp/mm	906lp/mm	1050lp/mm
– Visible structural width	579nm	551nm	476nm
– Numerical aperture	0.288	0.302	0.35
– Object field	68mm	63mm	59mm
Working distances	135mm (0.5× planachromatic) 112mm (0.8× planachromatic) 67mm (0.63× planapochromat) 61.5mm (1× planapochromat) 30.5mm (1.6× planapochromat) 20.1mm (2× planapochromat)	135mm (0.5× planachromatic) 112mm (0.8× planachromatic) 67mm (0.63× planapochromat) 61.5mm (1× planapochromat) 30.5mm (1.6× planapochromat) 20.1mm (2× planapochromat)	135mm (0.5× planachromatic) 112mm (0.8× planachromatic) 67mm (0.63× planapochromat) 61.5mm (1× planapochromat) 30.5mm (1.6× planapochromat) 20.1mm (2× planapochromat)
Optics Carrier			
100% apochromatic optical system	CMO (Common Main Objective) lead-free	CMO (Common Main Objective) lead-free	CMO (Common Main Objective) lead-free
Coded/motorized function	–	Zoom, iris diaphragm, objective nosepiece (coded only)	Zoom, iris diaphragm, objective nosepiece (coded only)
Specific surface resistivity (housing)	2×10 ¹¹ Ω/mm ² discharge time <2 seconds from 1000V to 100V	2×10 ¹¹ Ω/mm ² discharge time <2 seconds from 1000V to 100V	2×10 ¹¹ Ω/mm ² discharge time <2 seconds from 1000V to 100V
Engageable zoom notches	12 for repetitive tasks	13 for repetitive tasks	14 for repetitive tasks (M205C) Continuously variable control with SmartTouch™ or LAS (M205A)
Double-iris diaphragm for depth of field control	Built-in	Built-in and encoded	Installed and coded (M205 C) / motorized (M205 A)