

# SPECIFICATIONS

|   | M125 C  | M205 C / M205 A   |
|---|---|---|
| Zoom  | 12.5:1 manual coded   | 20.5:1 manual/motorized coded with FusionOptics   |
| Optical data  |   |   |
| <b>Data with standard optics<br/>(1× objective/10× eyepieces)</b> |   |   |
| – Zoom range  | 8×–100×   | 7.8×–160×   |
| – Resolution  | max. 432 lp/mm  | max. 525 lp/mm  |
| – Working distance  | 61.5 mm (planapochromatic)  | 61.5 mm (planapochromatic)  |
| – Object field  | ∅ 28.8 mm–2.3 mm  | ∅ 29.5 mm–1.44 mm   |
| <b>Maximum values<br/>(based on optics combination)</b>           |   |   |
| – Magnification   | 800×  | 1,280×  |
| – Resolution  | 864 lp/mm   | 1,050 lp/mm   |
| – Visible structural width  | 579 nm  | 476 nm  |
| – Numerical aperture  | 0.288   | 0.35  |
| – Object field  | ∅ 68 mm   | ∅ 59 mm   |
| <b>Working distances</b>  |   | 135 mm (0.5× planachromatic)<br>112 mm (0.8× planachromatic)<br>67 mm (0.63× planapochromatic)<br>61.5 mm (1× planapochromatic)<br>30.5 mm (1.6× planapochromatic)<br>20.1 mm (2× planapochromatic) |
| Optics carrier  |   |   |
| 100 % apochromatic optical system                                 | CMO (Common Main Objective) lead-free   |   |
| Coded/motorized function  | Zoom, iris diaphragm, objective nosepiece (coded only)                                | Zoom, iris diaphragm, objective nosepiece (encoded and motorized)   |
| Specific surface resistivity (housing)                            | $2 \times 10^{11} \Omega/\text{mm}^2$ discharge time <2 seconds from 1,000 V to 100 V |   |
| Engageable zoom notches   | 12 for repetitive tasks   | 14 for repetitive tasks (M205 C)<br>continuously variable control with SmartTouch or LAS X (M205 A)   |
| Double-iris diaphragm for depth of field control                  | Built-in and encoded  | Installed and encoded (M205 C) / motorized (M205 A)   |

