Specifications

MICROOPTIX

Fluorescence Microscopes with ICO Infinitive Optics

MX 300 (F) and MX 300 (TF)

General characteristics

Magnification	up to 2000x
Head	— infinitive compensation binocular (MX 300 (F)) or trinocular (MX 300 (TF)) head, — 360° rotatable, 30° inclined, ±5 D, interpupillary distance 55–75 mm
Eyepiece	WF 10x/18 mm widefield
Microscope body	sturdy metallic base 300x300 mm with supportive rubber feet
Nosepiece	quintuple reverse-angle nosepiece
Objectives	plan achromat ICO Infinitive objectives: 4x/0.10, 10x/0.25, 20x/0.40, 40x/0.65 (spring loaded), 100x/1.25 (spring loaded, oil)
Stage	double layer mechanical specimen stage, right handed, 135x140 mm
Abbe condensor	height adjustable, nA 1.25, with integrated iris diaphragm and filter tray
Focusing	— coaxial coarse and fine focus controls — stage focus control (protection of sample) — tension adjustment
Collector	Koehler illumination with lens, field iris diaphragm and centering mechanism.
Light source	LED, 12 V, 3 W, adjustable
Power supply	built-in, 220 V, 50 Hz
Fuses	250 V, 2 A
Temperature, humidity	18–35 °C, less than 85 %
Size, weight	300x300x390 mm, 7 kg
Fluorescence attachment	— for different methods of fluorescence analysis in microscopy — exciting light: 350–550 nm — fluorescence: 420–650 nm — the light-filter system of main body: 2 exciting filters, double direction dichroic mirror, 2 cut-off filters — filter blocks: V (blue), G (green), O (transmitted light) — exciting filters (EX): (V) EX490, (G) EX545 — bidirectional dichroic mirror: DM510, DM580 — cut-off filters (VA): VA530, VA590 — protective screen — HBO 100 W mercury lamp — power supply 220 V, 50 Hz

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