



BRIGHT FIELD BINOCULAR MICROSCOPE



Quality, Management, Environment, Health & Safety Standards



CDSCO MD 5 License



USFDA Listed



European CE



ISO 9001: 2015
IAF



ISO 13485:2016
NABCB/IAF



ISO 45001 : 2018
IAF



7 Electric Safety
Certifications

INTRODUCTION

The **MarkEn** Bright Field Binocular Microscope is designed to provide precision, durability, and ease of use for laboratories, educational institutions, and medical facilities. With advanced optics and ergonomic features, this microscope ensures high-resolution imaging and prolonged operational efficiency. It is equipped with anti-reflection and antifungal coatings to enhance clarity and longevity. The built-in LED illumination system ensures consistent brightness, while its robust design guarantees reliability for years to come.



FEATURES

- **Siedentop Tube:** 30° inclined, 360° rotatable Low coaxial drive.
- **Controls:** with an interpupillary distance of 45-75mm, dioptic adjustment, and incorporated prisms.
- **Eye-pieces:** Ergonomic binocular eyepiece tube (10–15X) with wide FOV (≥ 20 mm), adjustable interpupillary distance, and diopter settings on both eyepieces.
- **Nosepiece:** Quintuple revolving nosepiece, tilted backwards with precision click stops for smooth rotation, ensuring easy stage access and enhanced objective protection.
- **Plan Achromatic Antifungal Objective Lenses:** Ensures clear and distortion-free images.
- **Reflecting Mirror :** Integrated dual-plane mirror for brightfield illumination.
- **Mechanical Stage :** 125mm x 145mm (+/-5mm) with traverse area of 50mm x76mm (+/- 5mm)
- **Microscope Arm :** Ergonomic design for ease of handling and stability.
- **Focusing System :** Coaxial coarse and fine focusing with refocusing function, 13–15 mm Z-axis stroke, 0.2 mm fine gradation, and dual-side knobs for convenient operation.
- **Designed** for minimum 10 years life with assurance of spare parts availability.

ACCESSORIES

- Dust cover
- Lens Cleaning cloth,
- Objective and Eye Piece Containers

TECHNICAL SPECIFICATION	
Make	MarkEn
Observation Tube	Ergonomic binocular eyepiece tube with 10–15X eyepieces, interpupillary distance adjustment 45–75 mm (± 5 mm), and Siedentopf design providing ≥ 20 mm FOV. Equipped with diopter adjustment (± 5) on both eyepieces and dual interlock mechanism for stability.
Body	Aluminium die-cast frame with protective coating ensures long-lasting performance.
Optical System	Infinity-corrected, colour-corrected optical system with upright bright-field design; microscope body supports display and provision of optical information.
Optical Configuration	<ul style="list-style-type: none"> • Eye Pieces: 10x, 15x • Objective Lenses: 10x, 45x • Total Magnification Range: 100x to 675x
Nosepiece	Quintuple revolving nosepiece, tilted backwards with precision click stops for smooth rotation, ensuring easy stage access and enhanced objective protection.
Objective Lens	Plan Achromatic Antifungal Lens.
Plan Achromat Objectives (Anti-Fungal, Parfocal, Interchangeable)	Long working distance Plan Achromat objectives (10x N.A. 0.25, W.D. 6–8.0 mm; 20x N.A. 0.4, W.D. ≥ 3.0 mm; 40x N.A. 0.65, W.D. 0.5–0.7 mm; 100x oil immersion N.A. 1.25, W.D. 0.23 mm), antifungal/mould-resistant coated (certificate provided), supplied with 15 object markers, and safety design to prevent accidental slide-objective contact.
Antifungal & Anti-reflection Coatings	Certified by spectrophotometry report/self-declaration on manufacturer letterhead.
Mechanical Stage	125mm x 145mm (+/-5mm) with traverse area of 50mm x76mm (+/- 5mm).
Magnification	40x
Slide Holders	Dual slide holders with high-quality ball-bearing specimen holder.
Condenser	Abbe condenser with aperture iris diaphragm (N.A. 1.25), vertically movable and centerable, with provision for phase contrast upgrade.
Technology	Advanced system for performance, energy efficiency, long lifespan, and upgrade adaptability.
Illumination	Built-in scientific grade natural white LED (3–5 W) providing uniform field illumination without heat, with a minimum lifespan of 50,000 hours.
Built-In Light Source	Operates on 6V DC from pre-adjusted LED with an in-built power circuit (220V, 50Hz, single-phase).
Stage Controls	Rectangular rackless stage with anti-corrosive coating, 75–80 mm (X) x 30–60 mm (Y) travel, dual slide holders, right-hand X-Y controls, and left-side spring clip holder for smooth operation
Safety Features	Stage upper limit stopper, protective mechanism to minimize wear, adjustable rack to prevent sample/objective damage.

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CERTIFICATION



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