



MICROSCOPES - PATHOLOGICAL AND RESEARCH



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** Microscopes - Pathological and Research 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

- **Versatile Observation Head:** 30° inclined, 360° rotatable binocular head with anti-reflection prism.
- **Controls,** with an interpupillary distance of 50-76mm, dioptic adjustment, and incorporated prisms.
- **Eyepiece:** 10x/23 mm High-eyepoint, ± 5 diopter adjustment; Additional 15x eyepiece
- **Nosepiece:** Revolving 5-position coded nosepiece.
- **Plan Achromatic Antifungal Objective Lenses:** Ensures clear and distortion-free images.
- **Reflecting Mirror :** Integrated dual-plane mirror for brightfield illumination.
- **Stage:** 75 × 30 mm platform with built-in anti-collision protection and torque-set fine focusing for enhanced durability and accurate sample navigation
- **Microscope Arm :** Ergonomic design for ease of handling and stability.
- **Focusing System :** Z-drive focusing range 15 mm or more, with coarse & fine coaxial controls on both sides
- **Multi-User Wireless Access:** Optional Wi-Fi router supports 20+ users for live viewing, capture, and annotation on any mobile or desktop device.
- **Advanced Measurement Tools:** Includes length, contour, area, box, perimeter, gray-value, and profile-line measurements for precise analysis.
- **Designed** for minimum 10 years life with assurance of spare parts availability.

ACCESSORIES

- Dust cover
- Power cord
- Immersion oil
- Optional camera/phase contrast head

| TECHNICAL SPECIFICATION | |
|--|--|
| Make | MarkEn |
| Microscope Type | Pathological binocular, non-hinged type with in-built illumination and light intensity regulator |
| Observation Tube | Binocular, 30° inclined, 360° rotatable; anti-reflection optical coating. |
| Body Construction | Die-cast aluminium body with hexagonal base; precision ball-bearing and wire guide movement |
| Optical System | Parallel/Greenough or Infinity Corrected System |
| Nosepiece | Revolving 5-position coded nosepiece |
| Objective Lens | Plan Achromatic Antifungal Lens. |
| Objectives | Plan-Achromat: 5x/0.12, 10x/0.25, 20x/0.45, 40x/0.65 (Spring), 100x/1.25 Oil |
| Antifungal & Anti-reflection Coatings | Certified by spectrophotometry report/self-declaration on manufacturer letterhead. |
| Stage | 75 × 30 mm mechanical stage with anti-collision mechanism and torque-set fine focusing |
| Anti-collision nosepiece | Revolving 5-position encoded nosepiece with anti-collision mechanism |
| Stage Clips | High-tension clips for firmly holding microscope slides in place. |
| Magnification Range | 6.3x – 55x or higher; coded zoom; distortion-free (≥9:1 ratio) |
| Specimen Holder | Spring-loaded, one-hand operation |
| Condenser | 5-Position turret condenser (Brightfield, Phase, Darkfield) |
| Camera System | Optional/integrated 12 MP CMOS camera (4032 × 3044 px) with 4K/60 fps output through HDMI, LAN, USB 3.0, and Type-C; includes 1/2.3" CMOS sensor (1.85 × 1.85 μm pixel size) with auto image settings, measurement tools, movie recording, and step-less scaling; operates without any adapter |
| Illumination | ≥10 W LED with uniform, transmitted/reflected lighting; ≥60,000-hour life; integrated power unit; auto switch-off after 15 minutes; consistent brightness at all magnifications without manual adjustment, Light Manager for TL & RL, compatible with LED and HAL, HAL illumination compatibility included |
| Software | Grain size analysis, 2D CAD overlay, 2.5D topography; metadata management; tiles panorama; EDF, management, visualization and printing of images and metadata |
| Image Capture & Storage | Snap buttons on both sides of stand for instant image capture; integrated memory card slot for saving images and videos |
| Computer (Optional) | i5/i7, 16GB RAM, 512GB SSD, 1GB GPU, Win-10, direct display on HDMI monitor without PC |
| Wireless control | System supports wireless control via tablet / PC / laptop |
| Optional Upgrades | Camera attachment, Phase Contrast, Fluorescence Head |
| Power Supply | 100–240 V AC, 50–60 Hz |

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