



FLUORESCENT 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
IEC 60335-1 and IEC 60335-2-24, IEC 61010-1,
IEC 61010-2-020 and 61010-2-101, IEC 61326-1,
IEC 61326-2-6.

INTRODUCTION

The MarkEn Fluorescent Microscope is designed to provide precision, durability, and ease of use for laboratories, educational institutions, and medical facilities. With advanced optics and ergonomic features, it 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.



*Product image is for representation purposes only. Actual product may vary.

FEATURES



- **Observation Head:** Ergonomic binocular observation head with 30° inclination, 360° rotation, and adjustable interpupillary distance of 48–75 mm.



- **Wide-Field Eyepieces:** 10× high-eyepoint wide-field eyepieces with ≥22 mm FOV, diopter adjustment, antifungal protection, and integrated pointer.



- **Nosepiece:** Tilted revolving nosepiece with ball-bearing movement, click stops, and dust protection for smooth and reliable operation.



- **Plan Achromatic Antifungal Objective Lenses:** Ensures clear and distortion-free images.



- **Illumination:** Built-in Koehler illumination with transmitted LED/halogen lighting and advanced fluorescence illumination options featuring multiple excitation wavelengths, remote intensity control, and long-life LED technology.



- **Stage:** Ceramic-coated XYZ stage with submicron positioning accuracy, large travel range, dual-slide holder, and motorized/coaxial control for precise specimen handling.



- **Microscope Arm:** Ergonomic design for ease of handling and stability.



- **Focusing System:** Co-axial coarse and fine focusing mechanism with dual-side focus controls for smooth and precise focusing adjustment.



- **Designed** for minimum 10 years life with assurance of spare parts availability.

TECHNICAL SPECIFICATION

Make	MarkEn
Observation Head	Ergonomic binocular observation head 30° inclined, 360° rotatable design
Body Construction	Sturdy, stable base with ergonomic focus controls; epoxy powder-coated metal body, heat-treated and resistant to reagents, solvents, and disinfectants
Frame Construction	Rigid, vibration-free microscope frame
Material Protection	Corrosion-proof, acid-proof, stain-resistant metallic parts
Eyepiece	Paired PL 10×/22 mm high-eyepoint wide-field eyepieces with ≥22 mm field of view, diopter adjustment on both sides, antifungal treatment, and integrated pointer
Nosepiece	Quintuple or sextuple revolving nosepiece with coded/motorized option, ball-bearing mechanism, click stops, ribbed grip, and dust-proof caps
Optical System	Infinity-corrected optical system with ergonomic coaxial coarse and fine focusing
Objective	High-NA Plan Achromatic objectives including 4X, 10X, 20X, 40X, and 100X oil immersion suitable for bright field, phase contrast, DIC, and fluorescence applications
Mechanical Stage	Right-hand ceramic-coated XYZ stage with motorized/coaxial operation, ≤100 nm step accuracy, 200 × 150 mm travel range, 120 × 130 mm stage size, and dual-slide holder
Condenser	Swing-out universal condenser (NA 0.9) or Abbe condenser (NA 1.2) for bright field, dark field, phase contrast, and DIC
Filter Cube System	High-efficiency 480 nm & 535 nm LED illuminators with Blue filter cube comprising 480 nm excitation band-pass filter and 510 nm long-pass emission filter, and Green filter cube comprising 535 nm excitation band-pass filter and 575 nm long-pass emission filter.
Fluorescence System	LED fluorescence illumination system with an average LED life of more than 8,000 hours, or 4–6 position turret fluorescence attachment with narrow bandpass filter sets for DAPI, FITC/GFP, TRITC/Cy3, and optional Cy5 fluorescence imaging
Brightfield Illumination	Built-in Koehler illumination with transmitted LED/halogen light source, providing uniform field illumination, high color reproduction, and LED life of up to 50,000+ hours
Fluorescence Illumination	20 W LED fluorescence illuminator with excitation wavelengths of 385 nm, 475 nm, 550 nm, and 621 nm or 100 W mercury/xenon/metal halide lamp with remote intensity control
Camera	Scientific HD sCMOS/CMOS camera with pixel size ≤6.5 μm, resolution ≥2048 × 2048 pixels (4 MP or higher), ≥5 MP imaging capability, color/mono modes, USB 3.0 connectivity, and image acquisition software
Sensor Cooling	Thermoelectric cooling for reduced thermal noise
Imaging Software	Same-make image acquisition and image enhancement software supporting image stitching, Z-stack imaging, cell counting, and image analysis, with compatibility for major digital imaging software platforms such as Nikon NIS-Elements, Leica LAS X, Zeiss ZEN, Olympus cellSens, and Micro-Manager.
Computer System	i5 processor-based workstation with Windows 10 OS, 8 GB RAM, 1 TB HDD, 18-inch color TFT display, keyboard, mouse, and standard UPS.
Power Supply	220–250V AC, 50 Hz with durable power cord and plug as per Indian standards
Electrical Safety	ON/OFF switch with proper fuse holder
Upgrade Capability	Upgradable to fluorescence and dark field microscopy

ALL-IN-ONE SOLUTION FOR

Cold Chain Solution
Medical Equipment
Blood Bank Equipment

Hospital & Scientific Equipment
Hospital Furniture & Infrastructure
Commercial Refrigeration



25+

Years of Excellence



400+

Product Range



500+

Service center



1000+

Committed Engineers



1,00,000+

Satisfied Users

CERTIFICATION



10 products tested by a
WHO-PQS accredited
laboratory



ISO 14001: IAF



WHO GMP



BIFMA Certified,
BIFMA Level 3



ASTM- Corrosion
Free Products



ISO 2409

EN 13523-26,
ISO 13849-1,
IP 69, IP 65

& MANY OTHER...

OUR ESTEEMED CUSTOMERS



& MANY MORE...



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