

LEICA M320 F12



ABOUT

The **Leica M320 F12** surgical microscope combines advanced optics, LED illumination, and ergonomic design to deliver precise visualization for surgical and dental procedures. Its apochromatic optical system provides crisp, high-resolution images with enhanced depth of field, supporting superior accuracy during intricate operations. With long-lasting LED lighting, integrated imaging capabilities, and a customizable design, the Leica M320 F12 ensures efficiency, durability, and excellent outcomes across various medical applications.

FEATURES

Apochromatic Optics: Offers exceptional clarity and color fidelity with enhanced depth of field for detailed visualization.

LED Illumination: Long-lasting, energy-efficient light source with daylight color temperature and an average lifespan of 60,000 hours.

Integrated HD Camera: Optional built-in high-definition video and photo capture system for documentation and teaching.

Ergonomic Adjustments: Features modules like ErgoWedge and ErgoOptic Dent to support optimal working angles and reduce strain.

Hygienic Design: Smooth, jointless surface with antimicrobial nano-silver coating for easy cleaning and infection control.

Modular Flexibility: Adjustable binoculars, objective lenses, and handles allow customization for various specialties.

Quiet Operation: Precision engineering minimizes vibrations and ensures smooth, stable operation during procedures.



MICROSCOPE

Magnification: Manual APOchromatic 5-step magnification changer 6.4/10/16/25/40×

Stereo Base: 24 mm

Objectives: Fixed focal lengths from f=100 mm up to f=400 mm, Fine focusing lenses with f=200, 250, 300 mm

Eyepiece: 10×21B, 12.5×17B, 8.33×22B, 10×21B with reticule

Reset Functions: Limit switch for light on/off

Light Source: Direct and long-lasting 2-LED illumination with average service life of 60,000 h

UV filter: UV and IR-free LED illumination

Built-in Orange Filter: OG530

Light Intensity Adjustment: Using a drive knob on the optics carrier

SPECIFICATIONS



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OPTICS

Range of Magnification: 1.5x – 40x with 10x eyepieces

Field of View: 5.3 mm to 206 mm with 10x eyepiece

F12 STAND

Max Extension Range: 1775 mm (fully stretched for the inclined version)

Base: 60.8 x 60.8 cm (footprint)

Transportation Height: Min 162.1 cm

Balancing Range: Min 1.1 kg to max 4 kg load on the optics carrier

Brake System: Fine adjustable mechanical brakes for all rotation axes with detachable brake

System Weight: Max load ca. 116 kg

OPTIONAL VIDEO ACCESSORIES

Leica M320 HD video and photo camera: Integrated (optional) HD video camera with 1280×720P video resolution and 3-Megapixel still photo resolution, camera also has playback function for video and photo and thumbnail view, video (MPEG-4) and photo (jpg) storage on SD memory card (system comes with a 4GB SD memory card), video signal available in HDMI and analog (PAL/NTSC selectable), video storage optionally on external recording system, video/photo control through IR remote control and two hard keys on camera body, all camera settings with onscreen menu

Remote Control: IR-remote control for Leica M320 HD Video & Photo Camera

Leica M320 IVA Integrated Video Adapter: Integrated (optional) video adapter for attachment of external c-mount cameras, focal length of optics: f=55 mm