

LEICA M525 OH4



ABOUT

The Leica M525 OH4 offers up to 470 mm working distance, 30% greater depth of focus and light intensity than earlier Leica systems. Its dual 300W xenon sources, BrightCare, and Autolris provide illumination while preventing tissue burns. The six-axis balancing, robotic X/Y movement, and extended overhead reach allows for positioning with minimal floor space.

FEATURES

- **Multi-Mode Pacing:** Supports AAI, AOO, VVI, and OptiChrome Optics: 207–470 mm working distance, 6:1 motorized zoom, and 1.2×–12.8× magnification for sharp, bright, high-contrast images.
- **Dual Xenon Illumination:** two independent 300W xenon arc lamps, with an optional 400W upgrade.
- **BrightCare and Autolris Safety:** lowers light intensity as working distance decreases (by up to 60%) and narrows the illumination field to match the zoom.
- **True Auto-Balance:** single button balances all six axes, and the AC/BC button lets staff re-balance during surgery.
- **Robotic X/Y Movement:** Motorized tilt and inclination controlled by a precision joystick, foot control or mouth switch.
- **Open Architecture Integration:** The DI C500 dual imaging module projects MRI, CT, IGS, and endoscope images into the eyepieces, and the system supports FL800 ICG and FL400 5-ALA fluorescence.



SPECIFICATIONS



DIMENSIONS

Height (Parked Position): 76.6 in (194.5 cm)
Width (Base): 28.3 in (72 cm)
Depth (Base): 28.3 in (72 cm)
Overall Length (Arm Extended): 105.7 in (268.5 cm)
Weight: 705.5 lbs (320 kg), without load

POWER

Power Connection: 1600 VA, 50/60 Hz
Voltage: 100 V, 120 V, 220 V, 240 V (+10%/-15%)
Safety Class: Class 1

OPTICAL DATA

Magnification: 6:1 zoom, motorized
Magnification Range: 1.2× – 12.8× (with 10× eyepiece)
Field of View: 0.65 in – 7.1 in (16.5 mm – 180 mm) (with 10× eyepiece)
Focus: Motorized via multifocal lens, with manual adjustment
Objective: Multifocal lens, 8.1 in – 18.5 in (207 mm – 470 mm) variable working distance
Eyepieces: Widefield 10× and 12.5× for eyeglass wearers, ±5 diopter setting, adjustable eye cup
Binocular Tube: Variable angle 0° – 180° or 30° – 150°

ILLUMINATION

Main Light Source: 300 W xenon arc lamp via fiber optic
Emergency Lamp: 300 W xenon arc lamp on a separate electrical system (optional 400 W xenon)
Illumination Field: Continuously adjustable diameter, Gaussian light distribution, constant color temperature
Autolris: Automatic illumination field diameter synchronized with the zoom, with manual override
BrightCare: Light intensity control synchronized with the working distance

MICROSCOPE CARRIER

Rotation of Optics: 540°
Lateral Tilt: 50° left / 50° right
Inclination Tilt: -30° / +120°
XY Speed: Correlated to the zoom
Balancing: A, B, C and D axes fully automatic, each can also be balanced manually
Brakes: 1 for A/B axis, 1 for C axis

ENVIRONMENTAL CONDITIONS

Operating Temperature: 50°F – 104°F (+10°C – +40°C)
Operating Humidity: 30% – 95% relative humidity
Storage Temperature: -40°F – 158°F (-40°C – +70°C)
Storage Humidity: 10% – 100% relative humidity
Atmospheric Pressure: 500 – 1060 mbar

SPECIFICATIONS



OH4 FLOOR STAND

Type: Floor stand with six electromagnetic brakes

Base: 28.3 in x 28.3 in (720 mm x 720 mm), four 360° rotatable casters of 5.1 in (130 mm), central foot brake

Maximum Reach (Cantilever): 75.8 in (192.5 cm)

Accessory Load: 14.8 – 26.9 lbs (6.7 – 12.2 kg)

Monitor Carrier: 27.6 in (70 cm) flexible arm with 4 axes

Controls: 10-function pistol grips, mouth switch, 12-function foot control, hand switch

Light Source: Dual xenon arc lamps with built-in quick lamp changer

Materials: All solid metal construction with AgProtect antimicrobial coating

ACCESSORIES AND INTEGRATION

Stereo Observer: Leica ULT500 180° stereo observer ports

Beam Splitter: 50% / 50%, 70% / 30%

Video Adapters: Manual, Remote, Zoom (3:1) and NIR Dual Video Adapters, c-mount, with fine focus

Image Injection: Leica DI C500 dual imaging color module

IGS: Open architecture interface for IGS systems

Fluorescence: FL800 (ICG) and FL400 (5-ALA), optional