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zumax

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OMS2360&2380

SURGICAL MICROSCOPE



Excellent Optical Quality

High-quality optical performance with ergonomic, compact design for improved clarity, comfort, durability, and smart functionality.



0° – 190° Variable-Angle Binocular Tube

Inclinable binoculars feature the widest range of any binoculars for user comfort and enhanced ergonomics for surgeons of all heights.



Eye PD Adjusting Knob

Accurate pupillary distance numbers have been marked on the knob; the dentist can conveniently and quickly adjust to any PD.



Wide-Field Eyepieces

With a field of view angle greater than 50°, features: **eyecup height adjustment and diopter adjustment.**



Patented LED Integrated Illumination Module

(Patent No.: ZL 2010 1 0229328.2)

Featuring **high-quality medical-grade LED** light sources, it offers **true-to-life color reproduction** and clear light spots. **Less energy consumption, longer lifespan**, ensuring greater safety and reliability. It's designed to **operate silently**.



LED



ZUMAX PATENTED LED

AntiReflect™ Function

Polarization eliminates glare and restores true detail. This feature can be selectively configured and installed according to user requirements.



VarioDist Large Zoom Objective F = 200 – 450 mm

With a focusing travel of up to 250 mm, it fully covers the entire depth of the oral cavity for comprehensive clinical use. Once the clinician sets the optimal ergonomic working position, the zoom knob allows clear visualization of every detail—without the need to reposition the microscope body. Efficient, convenient, and fast.



FreeMov®

Gravity-Free Balance System



FreeMov® Balance Arm

It balances the weight allowing smooth handling and moving.

Stereo co-observation tubes (optional)

Connect the beam splitter and stereo observation tube and 180 deg inclinable binocular.

Single-Handed Control

The front universal handle serves as a pivot for quick zoom, focus, and image/video capture.



Adjust the fine focus knob



Change the magnification



Adjust the brightness intensity



Take Photo & Video

MagPlus1.5™ Binocular Tube (Optional Upgrade)

Increases 1.5x magnification with a single touch.

	Tubes	MagPlus1.5™ Tubes
MAGNIFICATION FACTOR	0.4x~2.4x	0.4x~3.6x
MAGNIFICATION	1.8x~19.4x	1.8x~29x

OMS2380: Continuous Zoom

OMS2360: Six-Step Optical Zoom

Continuous Zoom	FACTORS	Six-Step Optical Zoom	FACTORS
MAGNIFICATION FACTOR	0.4x~2.4x	MAGNIFICATION FACTOR	0.3x 0.5x 0.8x 1.2x 2.0x
MAGNIFICATION	1.8x~19.4x	MAGNIFICATION	1.4x~24.2x
FIELD OF VIEW (DIAMETERSMM)	123.8~11.6	FIELD OF VIEW (DIAMETERSMM)	151~9.2

Tilting Binocular Tubes

Allowing the microscope body to tilt left or right while maintaining horizontal observation, without changing the clinician's posture.



25° Right Inclination



Vertical Position



25° Left Inclination

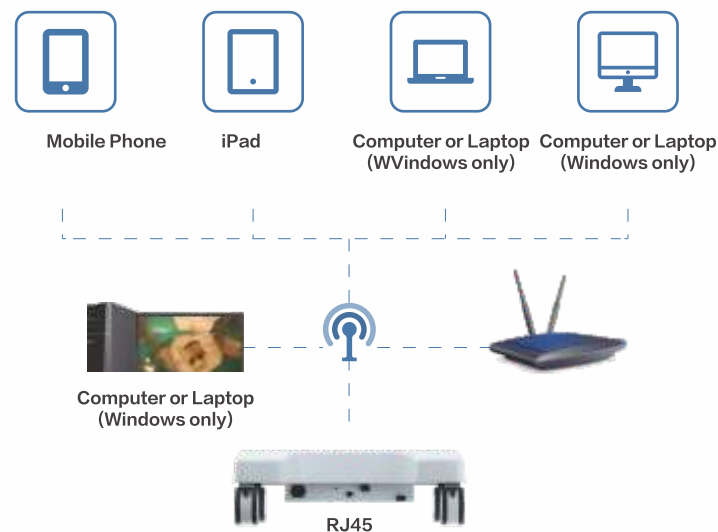
Integrated Imaging

Built-In 4K Ultra HD Imaging System (Optional)

Resolution 3840x2160 with SONY high-end CMOS sensor. Real-time Ultra HD output. Excellent color fidelity, low noise, and high sensitivity. Built-in high-speed storage for dynamic and static images, with measurement, zoom, and comparison functions.

Multi-Platform Connectivity

Compatible with DSLR cameras, digital video cameras, smartphones, tablets, and computers (Windows). Supports Easy360 / Easy360 Plus mobile imaging systems.



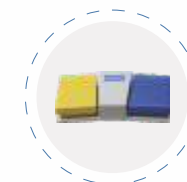
OMS2360/2380



Optional Accessories



Rota 360°
Optical Rotation



Wireless Camera
Foot Pannel



Depth-of-Field
Enhancer
(Variable Aperture)



Binocular Rotation Ring



Binocular Extender



Extender & Beam
Splitter
(20%: 80% or 50%: 50%)



Easy360 Mobile
Phone Adapter



Easy360 Plus Mobile
Phone Adapter



Digital Camera Adapter



Digital Camcorder Adapter
for Nikon/Sony/Canon



Stereo co-observation tubes

CONFIGURATIONS

Basic Configuration

MAGNIFICATION SYSTEM	OMS2380: Continuous Zoom, magnification factor $\gamma = 0.4\times - 2.4\times$; OMS2360: Six-Step Optical Zoom, magnification factor $\gamma = 0.3\times 0.5\times 0.8\times 1.2\times 2\times 3\times$
TUBES	0° ~190° inclinable binocular tube with PD adjusting knob, f=170mm
EYEPIECES	10X / 12.5X wide-field eyepieces, also suitable for eyeglass wearers
OBJECTIVE/FOCUS	VarioDist Objective Lens, variable working distance 200–450mm
OBJECT SURFACE ILLUMINATION (F250)	LED light source > 70,000Lx
SPOT DIAMETER	Φ87 mm at working distance 250 mm
FIELD OF VIEW DIAMETER (F250)	123.8mm~11.6mm
LASER FILTERS	Argon:488–514nm, Diode: 660nm, Diode: 800–830nm, Diode 980nm & NdYag 1064nm
FREEMOV® BALANCING ARM	can adjust torque and damping according to lens load to keep the microscope balanced, Makes operation smooth and comfortable
ARMS	1520mm (first arm 500mm second arm 720mm balancing arm 300mm)
ILLUMINATION SYSTEM	Continuously adjustable brightness, life span not less than 60,000 hours
AUTOMATIC SWITCH	The arm is equipped with an automatic power switch device

Upgraded configuration (optional)

EYEPIECE	10X/ 16X/ 20X
INTEGRATED CAMERA	HDMI output, Full HD 1920 × 1080 iMovCloud™ Image Management (optional)
ADAPTED IMAGING SYSTEM	Adapted to Canon/ Sony/ Nikon camera Adapted to Canon/ Sony/ Nikon camera Rota 360° adapter Easy360/Easy360 Plus mobile phone adapter
BUILT-IN 4K IMAGING	HDMI+DVI dual screen output Ultra HD 4K real-time capture, resolution 3840x2160 Ultra HD 4K3D real-time capture, resolution 3840x2160

