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# OMS3000 Pro

SURGICAL MICROSCOPE

# INNOVATE UNBOUND PERFECTLY UNVEILED

## OPTICS MEETS INTELLIGENCE

### Precision Engineered, Electrically Perfected

The OMS3000 Pro dental microscope is a masterpiece, it integrates advanced technologies such as **intelligent control, data collection, and flexible operation**, achieving precision and visualization in procedures. Intelligent design enhances efficiency and accuracy, providing unparalleled experience for professionals.



# ELECTROMAGNETIC LOCK CONTROL SYSTEM



## 7 Electromagnetic Lock Joints

Two buttons on the handle can unlock different joints, allowing for quick position adjustments.

## Electromagnetic Lock Control System

Press the handle button to quickly unlock the joints. Release the button to lock all joints in place.

## Free Suspension + Balance System

The electromagnetic lock control system maintains the head's free suspension and balance.

The third arm design allows for easy positioning of the surgical area, precisely reaching the working site.



# DIRECT VISION TECHNOLOGY

## SHORTEN TREATMENT TIME, IMPROVE TREATMENT QUALITY

### PENDULUM PRO SYSTEM

The microscope body can swing left and right independently without adjusting the binocular tubes, maintaining a comfortable posture while observing at any swing angle.



#### **Traditional Technology:**

The line of sight cannot bypass obstacles, requiring the use of a mirror for reflection.

#### **Micro Direct Vision Technology:**

Allows the line of sight to bypass obstacles, enabling direct vision of the working field.



# INTELLIGENT HIGH-END CONTROL

## SMART ELECTRIC FINE-TUNING FOR PRECISION DENTISTRY

The features front-back and left-right fine-tuning controls, enabling precise focus on the surgical area. Advanced positioning technology minimizes repeated adjustments, boosting surgical efficiency.



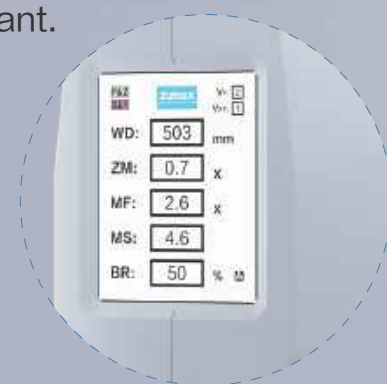
front-back tuning



left-right tuning

## SMARTMON LCD DISPLAY

Displays real-time parameters such as working distance, magnification, total magnification, scale factor, and brightness, facilitating communication between the doctor and assistant.



- A. Auto-Focus
- B. Lighting Switch
- C. Function Handle
- D. Brightness +
- E. Brightness -
- F. Photo/Video
- G. Electromagnetic Lock
- H. Electric fine-tuning
- I. Adjustment of balancing arm switching speed
- J. Short press to record the current focal length position  
Long press to adjust the lens focal length to the previously recorded state



# EXCELLENT OPTICAL SYSTEM

## HIGH-QUALITY OPTICAL COMPONENTS

The core components are designed with high-quality craftsmanship, featuring multi-layer optical coatings for a wide field of view, high contrast, and high resolution.



## WIDE-FIELD EYEPIECES

With a field of view angle greater than 50°.



## LARGE-RANGE OBJECTIVE (F=200-600MM)

Suitable for various dental procedures, with a maximum working distance range of 400mm.



## MOTORIZED CONTINUOUS ZOOM

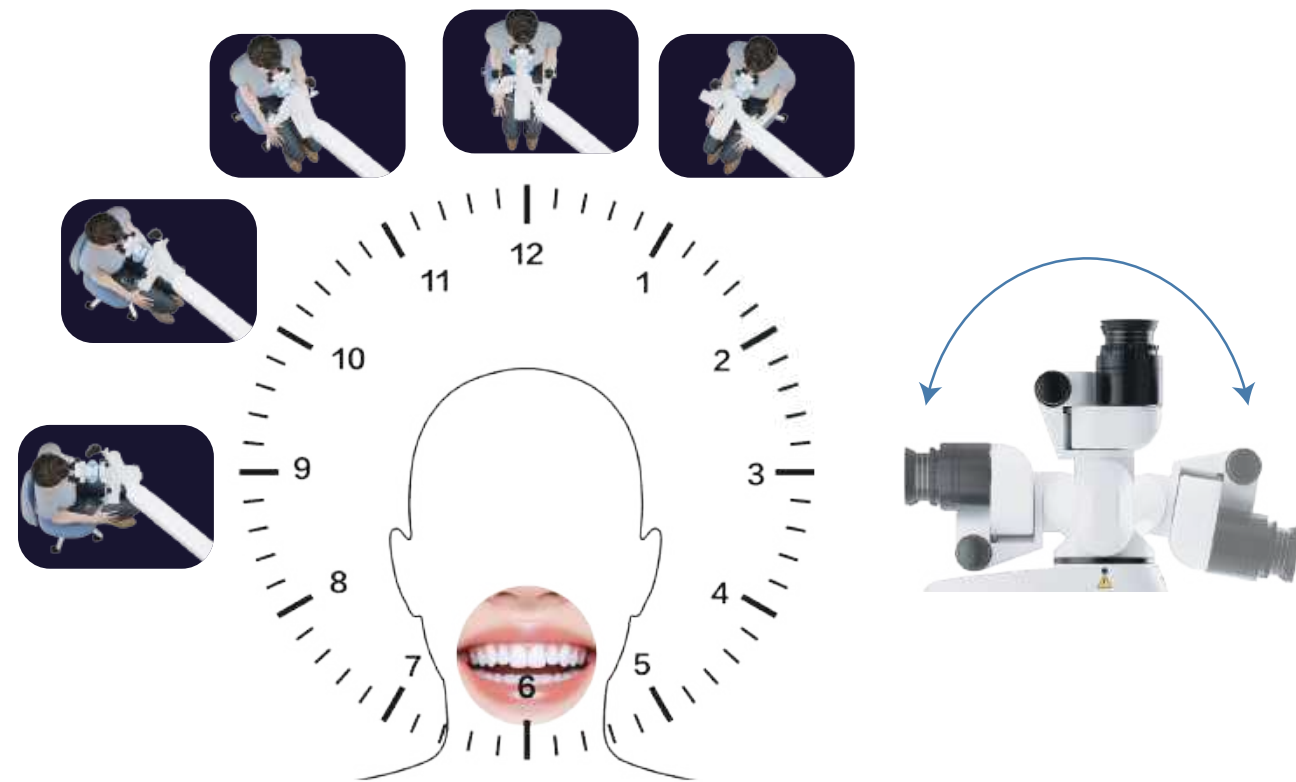
Allows for smooth and precise zoom adjustments, enhancing the efficiency of dental procedures.

MOTORIZED CONTINUOUS ZOOM	Magnifiers 12.5x	MagPlus1.5x
MAGNIFICATION FACTOR	0.4x~2.4x	0.4x~2.4x
MAGNIFICATION	1.3x~18.5x	1.9x~27.7x
FIELD OF VIEW DIAMETERS (MM)	12.1~165.6	8.1~110.4

# PERFECT ERGONOMICS DESIGN

## 0-190° ADJUSTABLE BINOCULAR TUBES

The angle of the binocular tubes can be adjusted according to the dentist's needs, ensuring a comfortable working posture during long procedures.



## FLUODET™ FLUORESCENCE MODULE(OPTIONAL)

For detecting caries and removing excess resin materials.



## FILTERS

**Yellow Filter:** Prevents rapid curing of resin materials.

**Green Filter(Red-Free):** Enhances visibility of small nerves and blood vessels during surgeries.



Normal Filter

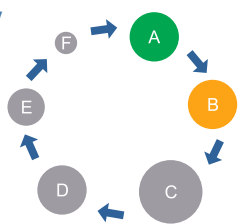


Yellow Filter



Green Filter

A.Green  
B.Yellow  
C.Large  
D.Middle  
E.Small  
F.Micro



## BriPlus™ ADAPTIVE LED LIGHTING SYSTEM

### Integrated True Color TruLED™ Lighting System:

CRI > 90, Illuminance > 100,000 Lux, Color Temperature 5,700K.

### FluoDet™ Fluorescence Module:

Built-in fluorescence system for detecting caries (optional).

### AntiReflect™ Anti-Glare Function:

Polarized light to reduce reflections and reveal true details (optional).

## BiLED™

Compared to Halogen Lamps or Xenon Light Sources, BiLED™ provides:

- Lower energy consumption
- Longer lifespan
- Better durability and reliability



# DIGITAL 4K IMAGING SYSTEM

## **MICRO 4K System:**

Combines optical design and imaging technology to achieve a visual breakthrough. **Integrated 4K Ultra HD Imaging System** with a resolution of 3840x2160, delivering realistic and vivid images

## **Enhanced Doctor-Patient Communication:**

High-quality image transmission promotes trust and improves the success rate of treatments, reducing the need for rework and post-operative complications.



## **More Imaging Solutions**

Easy 360 (Plus) tablet/phone imaging system and other imaging solutions.



# TECHNICAL SPECIFICATION

## Basic Configuration

Magnification System	Continuous Magnification 0.4x~2.4x
	Total Magnification 1.3x~18.5x
Field of View Diameter	12.1mm~165.6mm
Binocular Tube	0~190° inclinable binocular tube, PD adjustment range 55mm~75mm
	12.5X, diopter adjustment range ± 7D
Working Distance	200~600mm
	LED Color Temperature 5700K, CRI>90, Illuminance > 100,000 Lux
BriPlus™ Lighting System	Yellow Filter, Green Filter
	Spot diameter (85mm~215mm)
Control System	Multifunction Handle: locking/unlocking the electromagnetic lock, zoom in/out, Electric focus in/out, Taking photos/videos, Lighting adjustment +/-
	SmartMon LCD Display: Displays real time working distance, Zoom ratio, Magnification, Measurement coefficient, LED brightness
Arms	Arms extension range >1300mm
	First arm length ≥500mm, rotation angle: 360°
	Second arm length ≥800mm, rotation angle: ± 150° , vertical movement ± 300mm
	Third arm length ≥250mm
	The first arm is located above the second arm
Intergrated 4K Imaging System (low latency)	Built-in 4K camera, resolution 3840x2160
	Dual USB 3.0 Image Storage:
	Picture and video recording formats: JPEG, MP4
	HDMI output
	Auto Focus + Voice Control
	Fast response, latency of 40+ms (requires pairing with a high refresh rate monitor)

## Optional Accessories

FluoDet™ Fluorescence Module	For detecting caries and removing excess resin materials.
Intergrated 4K Imaging System (low latency)	Built-in 4K camera, resolution 3840x2160
	Dual USB 3.0 Image Storage:
	Picture and video recording formats: JPEG, MP4
	HDMI+12G-SDI Dual output (HDMI2.0*3+HDMI1.4*1+12G-SDI*1)
	Auto focus Voice control
Cross-Platform App (Windows, macOS, iOS, and Android)	Via wireless WIFI or wired RJ45 connection, microscope video streaming can be transmitted to Windows desktop devices and mobile phones
	Enables digital storage and editing of dynamic & static images
iMovCloud Workstation	Case management, sharing, and review
	Provides efficient imaging solutions for clinicians in clinical, teaching, and research fields

