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OMS2050^{NEW}
SURGICAL MICROSCOPE

PRECISE TREATMENTS BEYOND VISION



With the advancement of dental medicine, the concept of micro-dentistry has gained widespread recognition. The demand for optical quality and precise control in dental procedures continues to grow.

Founded in 2005, Zumax Medical has grown alongside the rapid development of the medical industry. Our core product, the dental surgical microscope, holds approximately 50% of the domestic market share, consistently ranking among China's top-tier brands and earning global recognition from dental professionals.

The **OMS2050 Surgical Microscope** embodies exquisite design, flexibility, precision, rapid positioning, and ergonomic excellence. It stands as one of Zumax's most innovative offerings in dental surgery.

MOVE FREELY PERFORM CONFIDENTLY



The OMS2050 Surgical Microscope, developed through extensive clinical collaboration, is Zumax' s newest oral surgical microscope. Integrating advanced optical, ergonomic, and imaging systems enables seamless operation, reduces treatment time, and enhances procedural accuracy.

Featuring Zumax' s proprietary **“VarioDist” technology** and ergonomic engineering, the microscope simplifies complex procedures, improves efficiency, and supports precise diagnoses for conditions such as tumors and lesions.

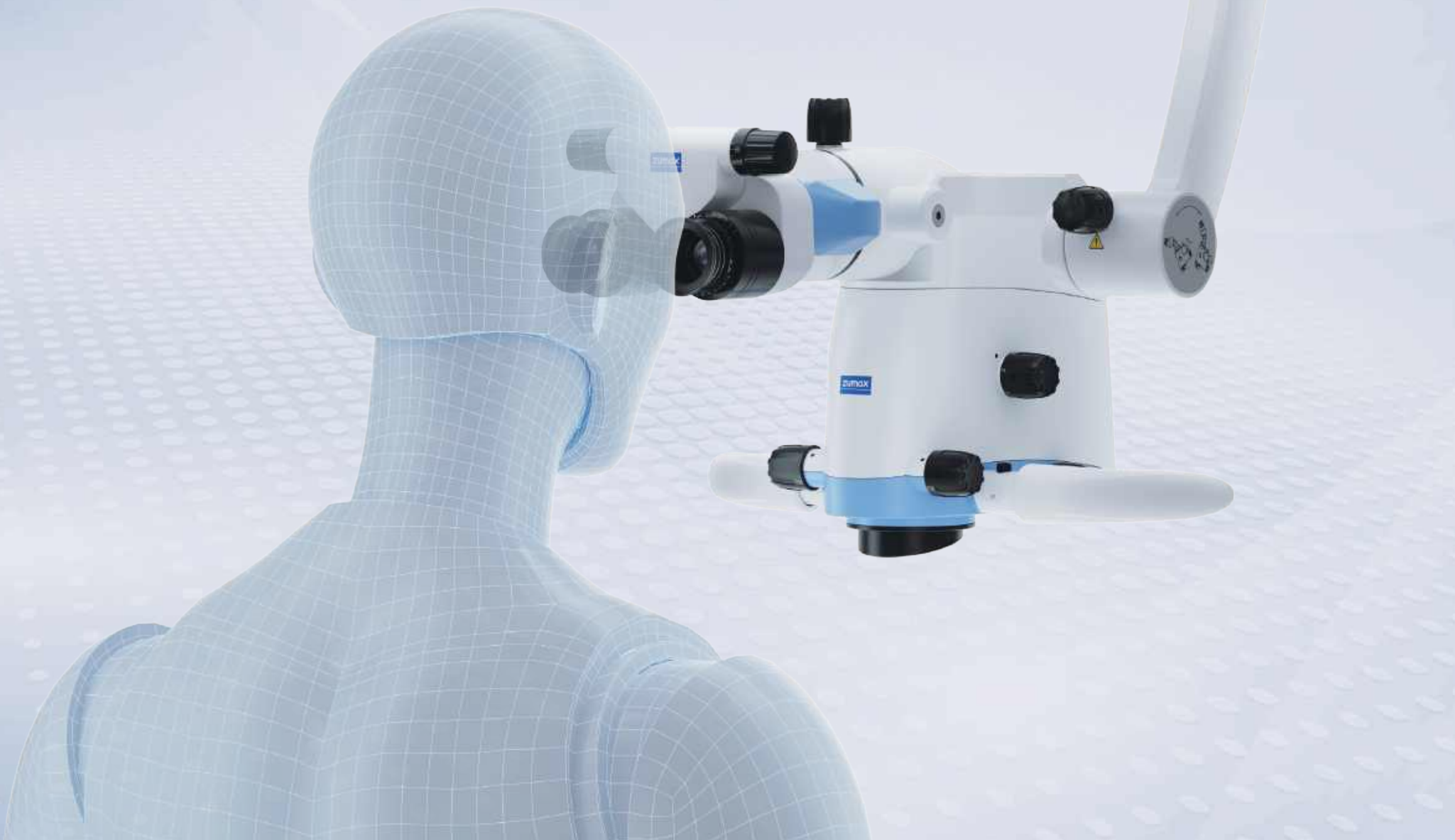
BUILT-IN VARIODIST LONG-RANGE ZOOM OBJECTIVE LENS

Focal length: 200 - 460 mm, covering the entire oral cavity depth.
Smooth zoom adjustments for detailed visualization.

MICRO DIRECT VIEWING TECHNOLOGY

The OMS2050 incorporates cutting-edge **ViewPivot Image Rotating Arm and Pendulum Pro Swing System**, revolutionizing traditional microscopy:

- **ViewPivot:** Rotates vertically while maintaining a centered field of view for effortless operation.
- **Pendulum Pro:** Allows smooth lateral movement without repositioning, ensuring precise observation.
- **90° Optical Extension:** Adjusts angles to optimize ergonomics, reduce eye strain, and expand workspace visibility.



VIEWPIVOT ROTATING ARM

The lens rotates coaxially with the center of the visual field, maintaining a stable horizontal view and improving operational efficiency.



PENDULUM PRO SYSTEM

The microscope body can swing left and right independently without adjusting the binocular tubes.



90° OPTICAL EXTENSION DESIGN

The extended design of the binocular tubes allows for operation in various special diagnostic and treatment scenarios.



EXCELLENT OPTICAL PERFORMANCE

SAFER · MORE EFFECTIVE · RELIABLE



ZOOM CONTINUOUS MAGNIFICATION

Magnification range: 1.8x - 18.8x (0.4x - 2.4x zoom ratio).

Large field of view (119.4 - 12 mm).

MOTORIZED CONTINUOUS ZOOM	Magnifiers 12.5 x
MAGNIFICATION FACTOR	0.4x~2.4x
MAGNIFICATION	1.8x~18.8x
FIELD OF VIEW DIAMETERS (MM)	12~119.4

LOWER LIMIT DEVICE

Prevents over-rotation during zooming, ensuring operational safety.

PREMIUM OPTICAL COMPONENTS

Imported optical glass with multi-layer coatings. High-definition, high-resolution imaging.

ULTRA HD IMAGING RESOLUTION

HD 4K IMAGING SYSTEM

Zumax provides versatile imaging solutions for clinical, educational, and research applications:

- **Ultra HD 4K Imaging Module:** 3840x2160 resolution, real-time output, USB storage.
- **External Imaging Compatibility:** Supports DSLR cameras, smartphones, and iPads via Rota360° and Easy360 interfaces. (optional)



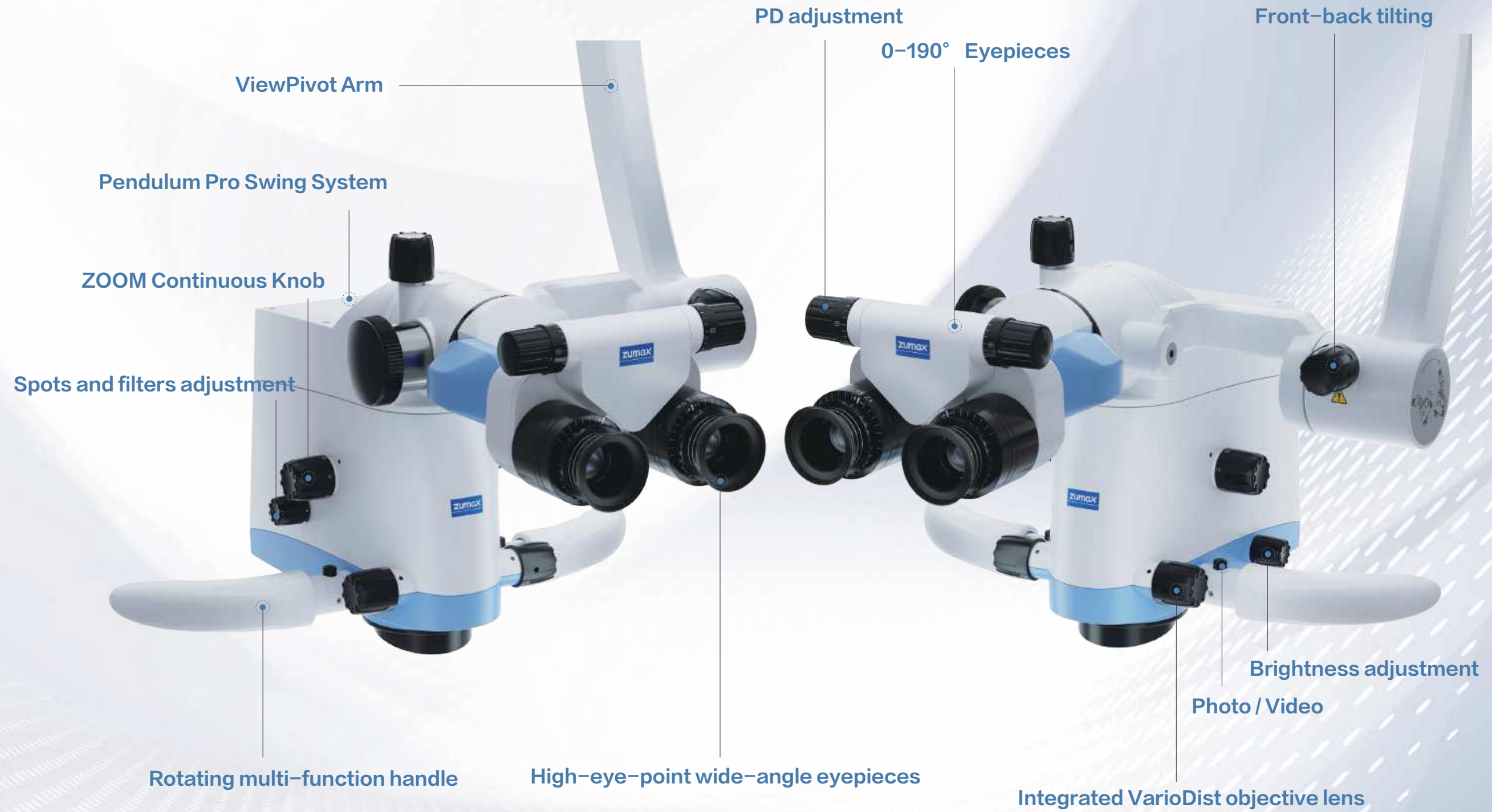
EXTERNAL IMAGING RESOLUTION (OPTIONAL)

Compared to traditional side-mounted beam splitter interfaces, Zumax' s **rear beam splitter interface** for the iPad mini stands out as a groundbreaking innovative design. Integrated with a **90° optical extender** and paired with the new **Type-C imaging interface**, it allows dentists to view the LCD screen of compatible digital devices directly in front of them during procedures, eliminating the need to turn their heads left or right.

(Note: The rear beam splitter interface is **not compatible** with the Ultra HD 4K imaging module.)



KEY FEATURES



TECHNICAL PARAMETER

Optical Parameters

Magnification System	Continuous zoom magnification The maximum magnification:18.8x
Working Distance	Variable Working Distance 200 mm~460 mm
Binocular Tubes	0° -180° Inclinal Binocular Tube
PD Adjustment Range	55mm~75mm
Eyepiece	Magnification 12.5x Diopter Adjustment Range: ± 7 , High Eye Point
Illumination	Integrated true color LED illumination CT5500K CRI90 Yellow and Green filters
Movement	Pendulum Pro angle 22° left and right Front swing angle 45° Movement Rear swing angle 100 Horizontal plane Rotate 350 ° ViewPivot arm
Intergrated 4K Imaging System	90-degree extender / 4k imaging module (Ultra HD 4k System with high resolution 3840x2160, USB Storage)

