

上海方舟探海企业服务有限公司

SHANGHAI ARK-REACH BUSINESS SERVICE CO., LTD.

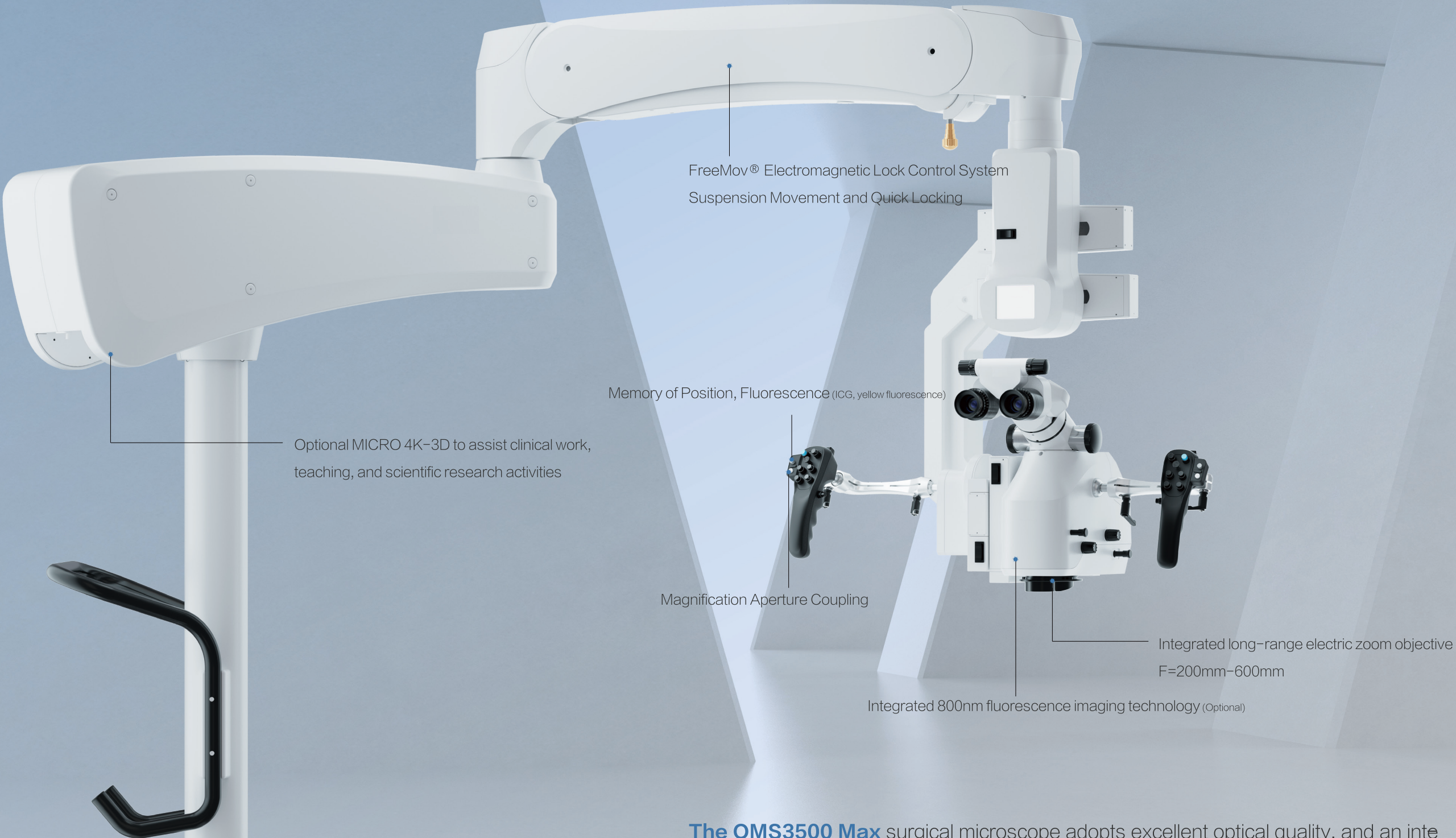
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OMS3500 Max
SURGICAL MICROSCOPE

OMS3500 Max



The **OMS3500 Max** surgical microscope adopts excellent optical quality, and an integrated ergonomic design. It provides a clearer, more comfortable, longer lasting, and smarter experience.



EXCELLENT OPTICAL QUALITY

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



THE VarioDist® LONG-RANGE ELECTRIC ZOOM OBJECTIVE

Long-range electric zoom objective (200–600mm) for spine and spinal cord surgeries requiring more operational space.



OPTION1: MagPlus1.5 x MAGNIFICATION BINOCULAR EYEPIECE

One-touch magnification binocular eyepiece, instant 1.5x increase, and larger initial view for convenience.

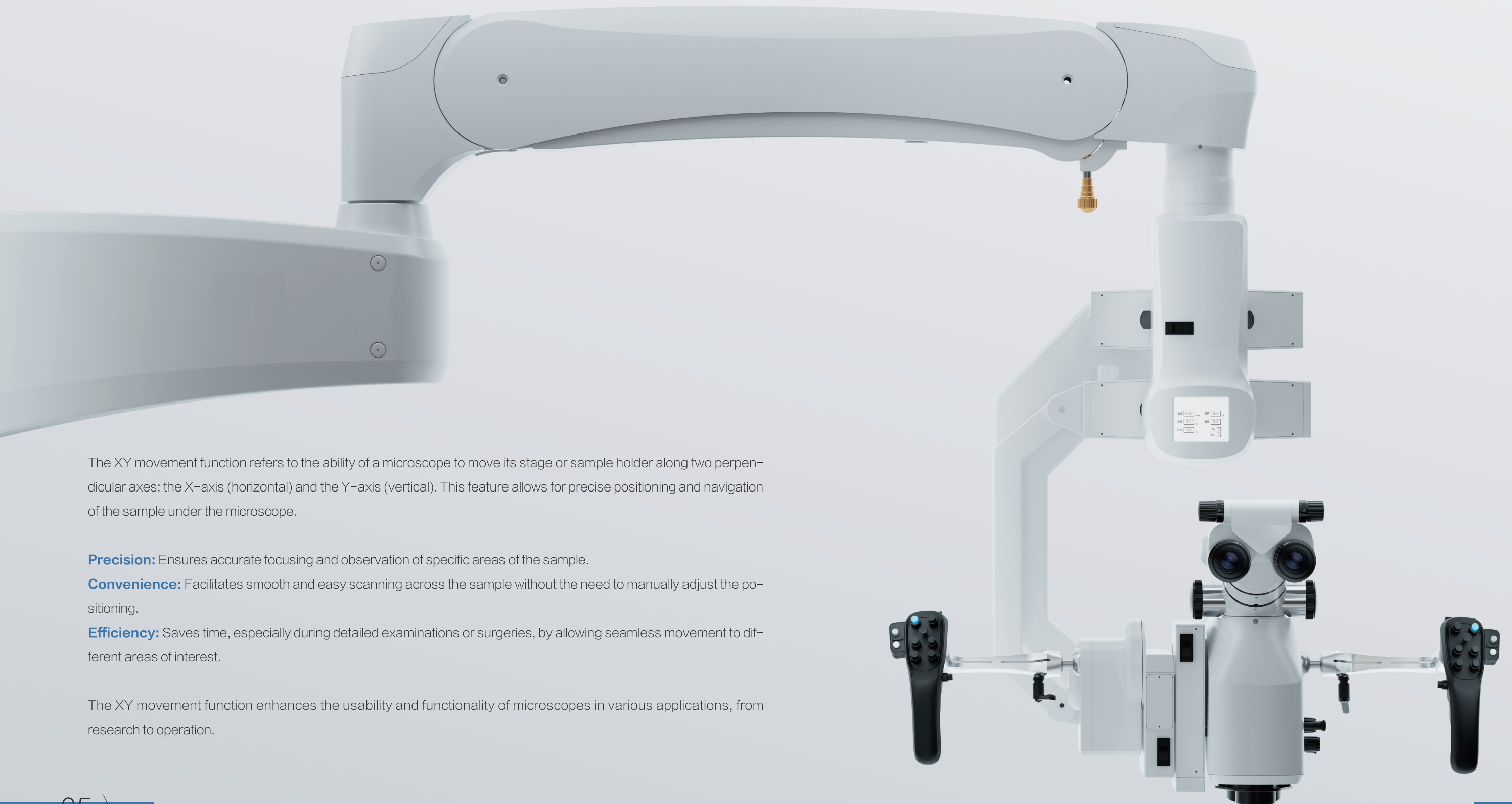
OPTION2: Magnifiers2.5 x

Magnifiers seamlessly integrate with microscopes. Achieving a magnification effect of over 40 times during surgery significantly enhances the precision and safety of the procedure.



	BINOCULAR EYEPIECE	MagPlus1.5™ BINOCULAR EYEPIECE	MAGNIFIERS2.5 X
MAGNIFICATION FACTOR	0.4x~2.4x	0.4x~2.4x	0.4x~2.4x
MAGNIFICATION	1.3x~18.5x	1.9x~27.7x	3.2x~46x
FIELD OF VIEW DIAMETERS(MM)	12.1~165.6	8.1~110.4	4.8~66.2

XY ELECTRIC MOVEMENT



The XY movement function refers to the ability of a microscope to move its stage or sample holder along two perpendicular axes: the X-axis (horizontal) and the Y-axis (vertical). This feature allows for precise positioning and navigation of the sample under the microscope.

Precision: Ensures accurate focusing and observation of specific areas of the sample.

Convenience: Facilitates smooth and easy scanning across the sample without the need to manually adjust the positioning.

Efficiency: Saves time, especially during detailed examinations or surgeries, by allowing seamless movement to different areas of interest.

The XY movement function enhances the usability and functionality of microscopes in various applications, from research to operation.



LIGHTING SYSTEM



BriPlus™ ADAPTIVE LED LIGHTING SYSTEM

Integrated TruLED™ Lighting System:

CRI>90, Illuminance>100000Lux, Color Temperature 5500K

BriPlus™ Enhanced Lighting System:

The brightness of the illumination and the magnification are linked. When the magnification is at its highest, the light spot is smallest, and when the magnification is at its lowest, the light spot is largest.

At maximum magnification, the illumination intensity is automatically increased by 30%, providing more light.

BiLED™ Lighting:

Built-in backup LED light source

AntiReflect™ Anti Reflection Function (Optional)



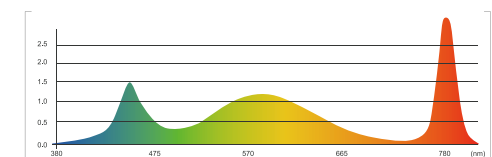
INTEGRATED MULTI-BAND LASER PROTECTION FILTERS (OPTIONAL)

Argon:488~514nm

Diode:660nm

Diode:800~830nm

Diode 980nm
& NdYag 1064nm



SECONDARY LIGHTING (OPTIONAL)

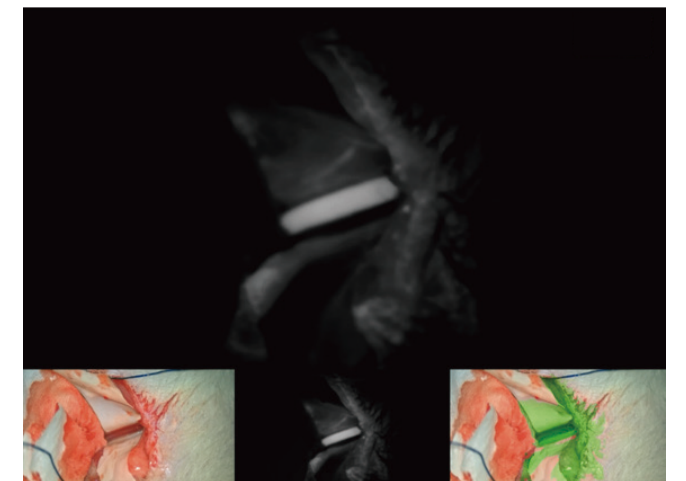
The illuminance is higher than 200,000 Lux at 250mm working distance



INTEGRATED 800NM FLUORESCENCE IMAGING SYSTEM

In vascular surgery, fluorescence imaging technology provides deep insights into the blood flow direction of small vessels. Facing the challenges of microsurgery, fluorescence imaging technology becomes an important tool for surgical decision-making.

800 I C G fluorescence imaging system is highly integrated into microscopic imaging and, in combination with ICG indocyanine green contrast agent, enables real-time observation of blood flow and assessment of vascular patency. This is particularly crucial in aneurysm cerebral vascular bypass and arteriovenous malformation surgeries.



4K3D IMAGING SYSTEM



BUILT-IN ULTRA HD 4K IMAGING SYSTEM

The microscope is equipped with a real-time Ultra HD 4K imaging output system, with an output resolution of up to 3840*2160, and features an autofocus function.

IMOVCLLOUD LMAGES MANAGEMENT (OPTIONAL)

The iMovCloud system has Single version, Intranet version and iCloud version. IMovCloud Single version is an advanced and fully integrated surgical image management system which is based on Windows platform. It is an ideal choice for worldwide dental clinics. Together with microscope to collect videos and images, integrate four major management functions of clinics, doctors, patients and medical records to realize the sorting, analysis and documentation "Intranet version" service, which realize local network viewing, maintenance, management easily, is coming soon "Cloud version" service, which realize cloud viewing, cloud maintenance, cloud management, remote joint inspection and other functions.



MICRO 4K3D (OPTIONAL)

Built-in Dual 4K Ultra HD 3D Imaging System with a resolution up to 3840x2160x2, presenting real depth and structure. The images are realistic, with vivid colors, sharp details, and a strong sense of immersion. During treatments, doctors can output 3D images in real-time using 3D televisions, glasses-free 3D televisions, 3D projectors, VR/AR, and other 3D display devices, supporting clinical work, teaching, research, and patient communication. Especially in teaching, using the 3D mode can help teachers convey real-time depth perception through 3D images to students, shortening the learning curve.

ELECTROMAGNETIC BALANCE ARMS



FREE SUSPENSION + BALANCE SYSTEM

The 6 electromagnetic lock control system allows the lens to achieve free suspension and balance. The balance coefficient of the bracket can be adjusted according to the lens load, providing a weightless operation experience.

OPERATION SYSTEM

MULTIFUNCTIONAL HANDLE, FOOT PEDAL



Multi-functional Handles:

Ergonomic handles can control zoom magnification, fine focus, brightness as well as photo & video recording electronically by touching the buttons, Motorized Zoom. Convenient zoom adjustment continuously motorized in pushing-and-pulling the joystick.



12-Function Wire/Wireless Foot Pedal (Optional):

Which realized the doctor's blind operation of illumination switch, brightness adjustment, zoom magnification, fine focusing and taking still photos and videos without removing the visual field. Free hands when hands on.

FREEMOV[®] ELECTROMAGNETIC SYSTEM

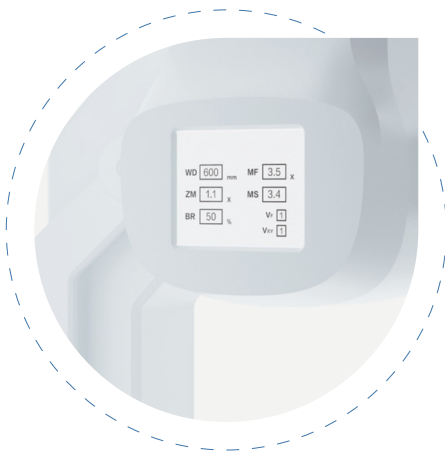


6 Magnetic Brakes

The magnetic brakes provide easy and precise positioning of the microscope. Just press the buttons to release handbrakes and bring the microscope in the location required.



VISUALIZATION OF OPERATIONS



SmartMon LCD Display:

WD: Working Distance ZM: Zoom Factor
MF: Magnification MS: Measurement Factor
BR: Brightness



Working Distance Limit Bolt:

The second arm with working distance limit bolt and memorable working range adjustment for quick adjustment of working distance to position for surgery in different departments.

STEREO ASSISTANT SCOPE (OPTIONAL)



Connect DualFace Bridge and 180 deg inclinable binocular.



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

CONFIGURATIONS

MAGNIFICATION SYSTEM	Electric zoom, magnification range 0.4x-2.4x (1:6)
	Overall magnification 1.3x-18.5x
WORKING DISTANCE	200 mm - 600 mm
BINOCULAR TUBES	0° -190° wide-angle
	Optional MagPlus 1.5 with a 0° -190° adjustable binocular tube
	12.5x wide-angle eyepieces
	Interpupillary distance 55 mm - 75 mm
ILLUMINATION	High brightness at 200 mm working distance, ≥150000 lx, with adjustable LED main light source ≥420000 lx
SPOT DIAMETER	Φ85-215 mm
FIELD OF VIEW DIAMETER	Φ12.1-165.6 mm
CONTROL SYSTEM	FreeMov® electric zoom system
	MFH multifunctional control handle for focus, lighting, and photography
DISPLAY	SmartMon LCD showing current working distance, magnification, LED brightness
BUILT-IN 4K IMAGING	Ultra HD 4K real-time capture, resolution 3840x2160
	USB3.0, HDMI+DVI dual screen output
	One-touch autofocus support
IMOV CLOUD	Cloud workstation system, app support for Windows, macOS, iOS, and Android, remote control and video transmission
LASER LIGHT SOURCE	Optional modules for wavelengths 458-514 nm, 660 nm, 800-830 nm, 980 nm & 1064 nm
800 NM FLUORESCENCE MODULE	Optional, compatible with ICG imaging
LIGHT CIRCLES	Large, medium, small light circles
MAX WEIGHT	14 kg including equipment and accessories
STANDS	Vertical column stand, suspension stand
ARMS	Small arm length ≥850 mm, with rotation ranges large then 300 deg.
	large arm length ≥500 mm, with rotation ranges 360deg.

