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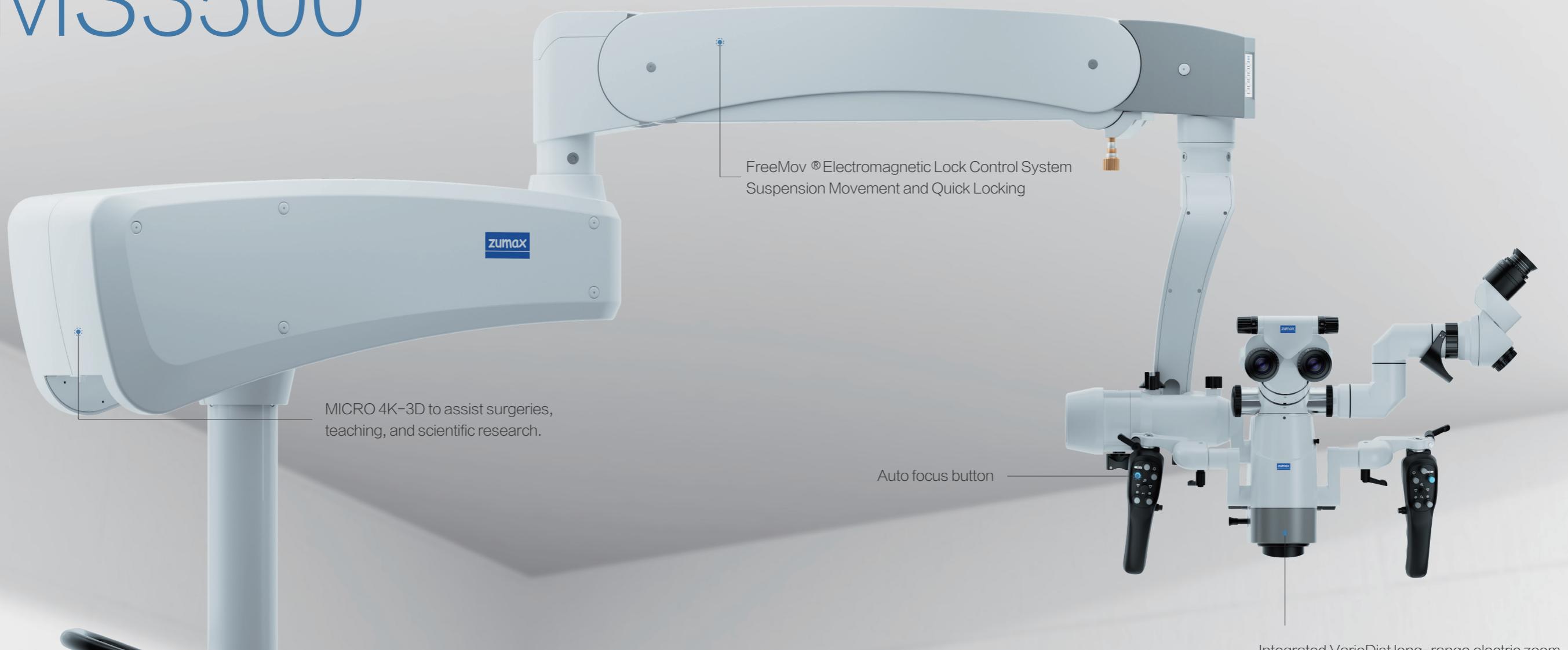
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OMS3500
SURGICAL MICROSCOPE

OMS3500



OMS3500 High-Quality Optics and ergonomic design offering surgeons a clear, precise and comfortable 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 Neuro-Spinal and Orthopedic surgeries requiring more operational space.



Option 1: MagPlus1.5 x Magnification binocular eyepiece

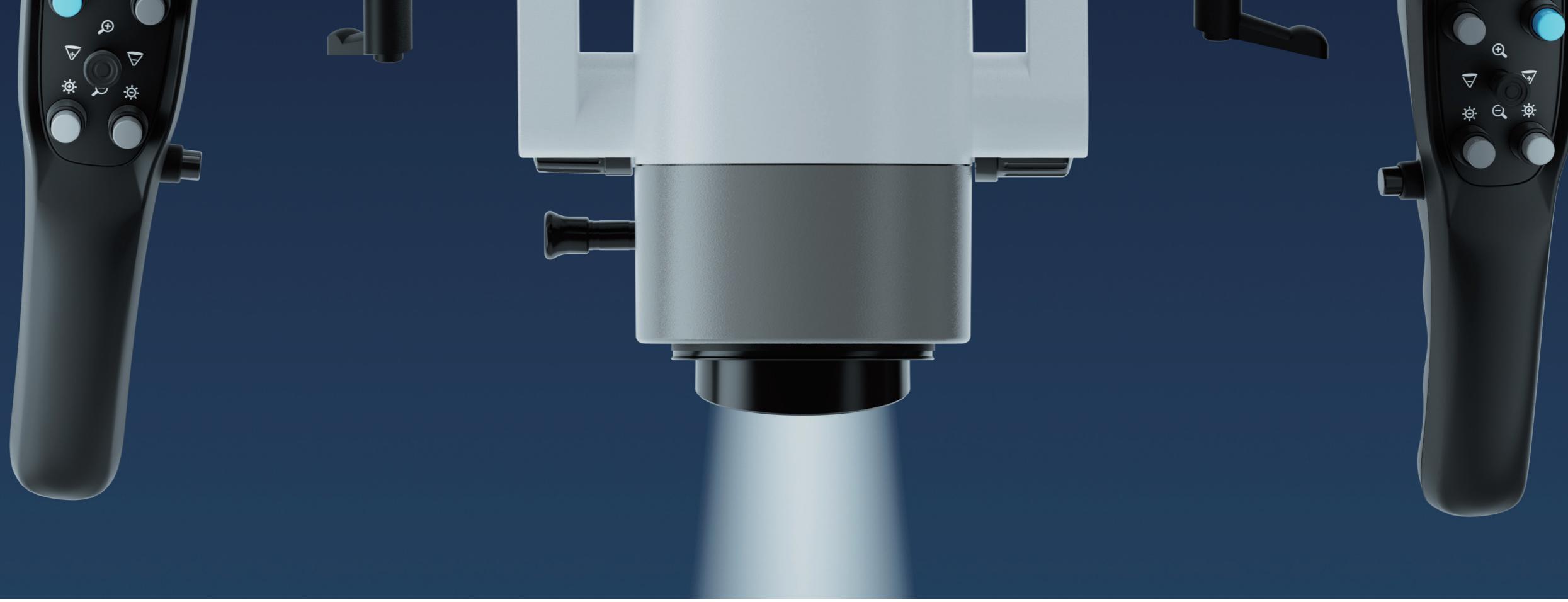
One-Click magnification binocular eyepiece, instant 1.5x increase, and larger initial view for convenience.

Option 2: Magnifiers2.5 x

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



	BINOCLAR EYEPICE	MagPlus1.5™ BINOCLAR EYEPICE	MAGNIFIERS2.5 X
MAGNIFICATION FACTOR	0.4x~2.4x	0.4x~2.4x	0.4x~2.4x
MAGNIFICATION	1.8x~20x	2.7x~29x	3.2x~46x
FIELD OF VIEW DIAMETERS (MM)	124~11.6	82.5~7.7	66.2~4.8



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



Filters

In addition to the two color filter of yellow and green, it is equipped with four pattern lighting range selector to reduce the burden to the eyes of the user.

Yellow filter: Prevents premature curing of composite.

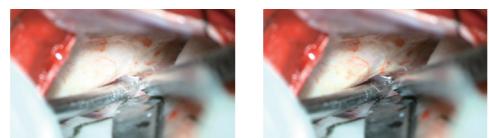
Green filter: Improves detail visibility by enhancing the (Red free) contrast of tissue with a strong blood supply.



Secondary Lighting (optional)

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

Anti Reflect Module



Integrated Laser Filters (optional)

Argon:488~514nm

Diode 980nm

Diode:660nm

& NdYag 1064nm

Diode:800~830nm

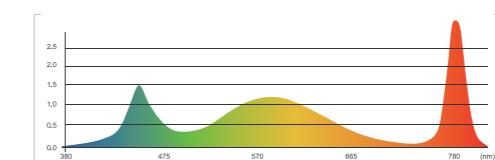


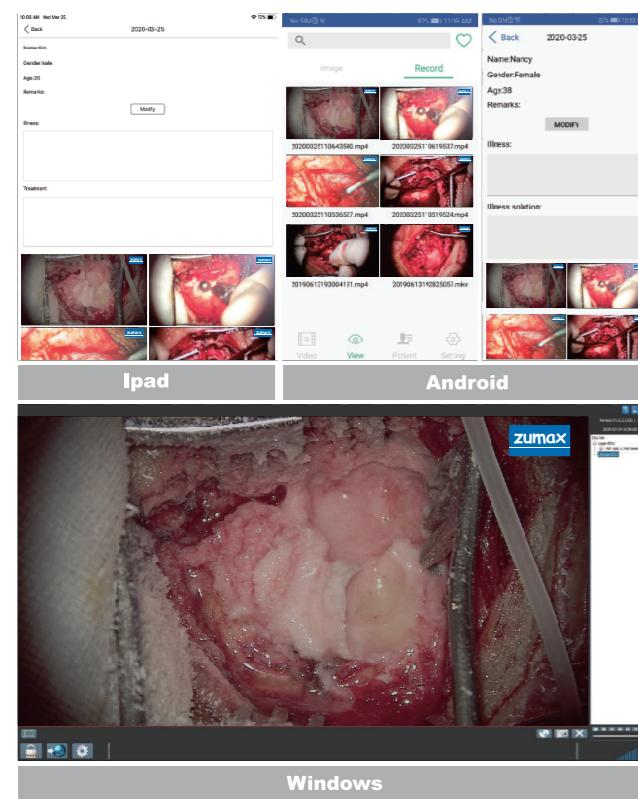
IMAGE OUTPUT & RECORDING

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.

iMovCloud Images 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 Zumax 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 4K-3D (Optional)

Dual Build-in 4K Cameras with Ultra-High-Resolution. Delivering real-time, true-to-life intraoperative images with high color fidelity and sharp boundaries. This enables the surgical team to immersively observe procedures and collaborate efficiently, effectively supporting clinical training and research applications. Recorded 3D video in a SD card, can be viewed on 3D TV, 3D projectors and VR/AR viewers.

OPERATION SYSTEM

■ MULTIFUNCTIONAL HANDGRIP, FOOT PANNEL



Multi-functional Handgrips:

Ergonomic Handgrips can control zoom, focus, brightness as well as photo & video recording electronically by button clicking.



12-Function Wire/Wireless Foot Pannel:

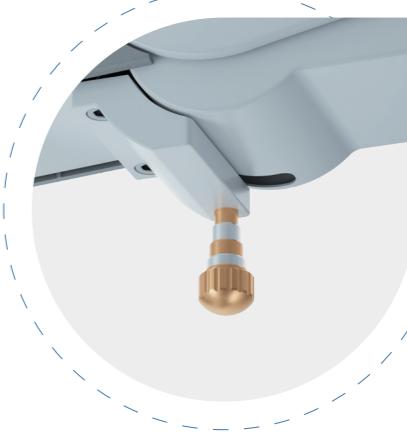
Hands-Free to control zoom, focus, brightness as well as photo & video recording.

■ 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.

■ FREEMOV® ELECTROMAGNETIC SYSTEM



6-Axis Magnetic Brakes:

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

■ 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 FACTOR	0.4x-2.4x
WORKING DISTANCE	Variable focal length objective lens have a working distance variation range of 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
RANGE OF PD ADJUSTMENT	55 mm ~ 75 mm
ILLUMINATION	Maximum illumination not less than 100000 lx when objective lens working distance of 200 mm
ILLUMINATION (WITH OPTIONAL SECONDARY ILLUMINATION MODULE)	The Secondary illumination (optional) reaches at least 150,000 lx at a working distance of 300 mm
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 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-Click Autofocus
BUILT-IN MICRO 4K-3D IMAGING SYSTEM (OPTIONAL)	Built-in dual Ultra HD 4K real-time video output system integrated with a 3D beam splitter prism system Dual USB 3.0 for image/video storage; supports JPEG and MP4 formats. HDMI + DVI dual-port video output Supports 3D stereoscopic video output and 2D video output One-Click Autofocus, Voice control module
IMOV CLOUD (OPTIONAL)	Cloud workstation system, app support for Windows, macOS, iOS, and Android, remote control and video transmission
LASER LIGHT SOURCE (OPTIONAL)	Optional modules for wavelengths 458-514 nm, 660 nm, 800-830 nm, 980 nm & 1064 nm
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° large arm length ≥500 mm, with rotation ranges 360°

