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OMS3200 R2
OMS3200 PRO
DENTAL MICROSCOPE



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zumax

надежный поставщик стоматологического оборудования

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OMS3200 PRO



Motorized Zoom Magnification



FluoDet™ Fluorescent Module

AntiReflect Module



Auto Focus combined with
4K camera (optional')

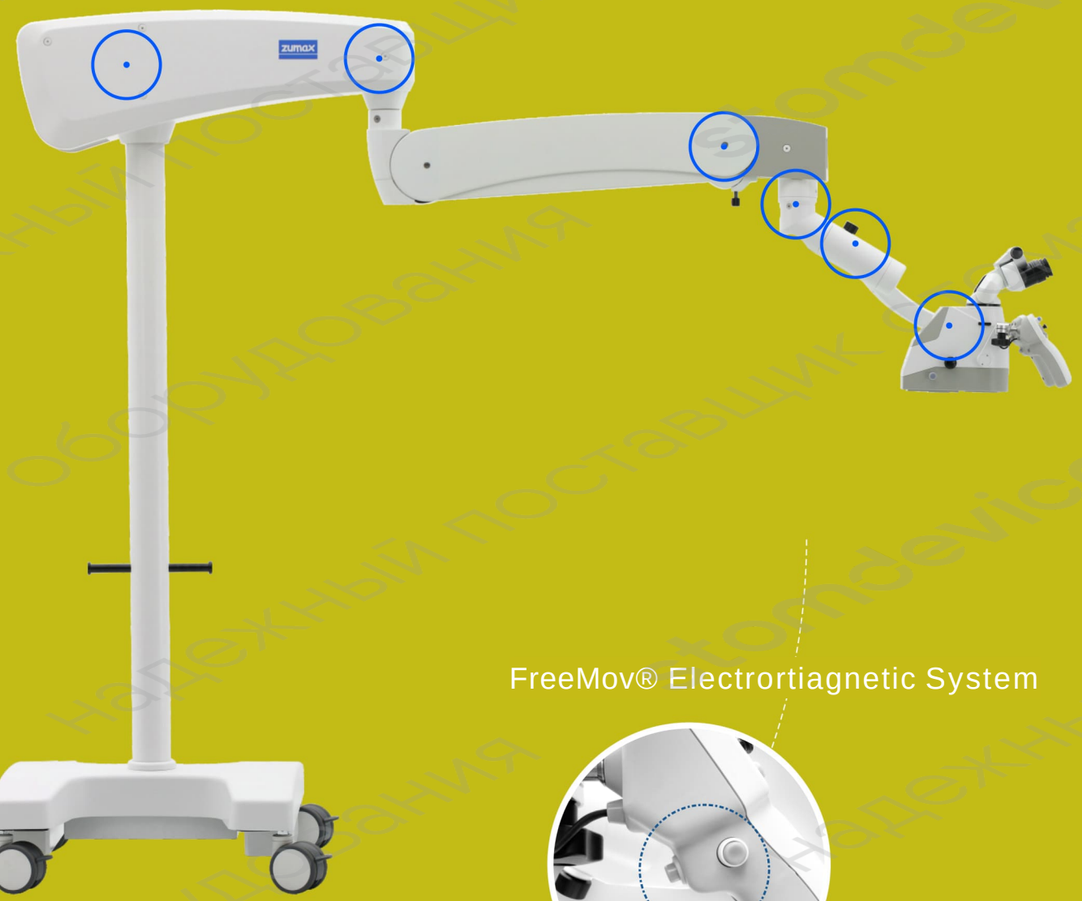




BriPlus™ Illumination System



Twin Switchable LEDs Illumination



FreeMov® Electrortiagnetic System

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MAGNIFICATION & ILLUMINATION

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OPTICAL SYSTEM

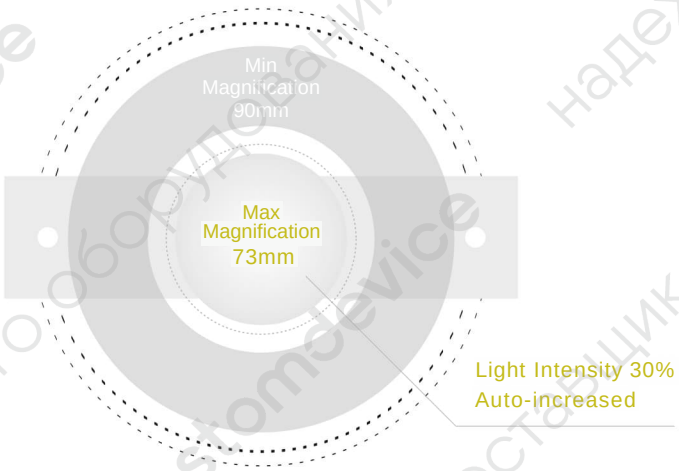
VarioDist Objective Lens

The focal point separation of the pair lines can be adjusted in the range of 200mm to 450mm, allowing for easy focusing during operation.



BriPlus™ Illumination System

30% auto-increased intensity at maximum magnification to get more light for high magnification. When the magnification at the highest, the light spot is the smallest and when the magnification is at the lowest, the light spot is the largest.



At the working distance 250mm

MagPlus 1.5™ 0°-180° inclinable binocular tube with PD knob (optional)

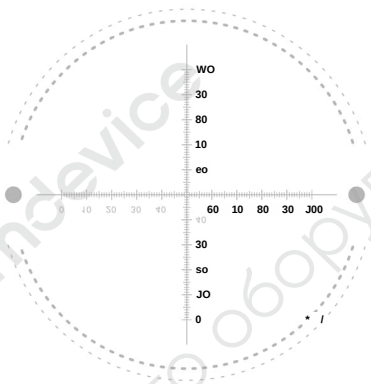
This MagPlus1.5™ increase 50% magnification in the binocular.

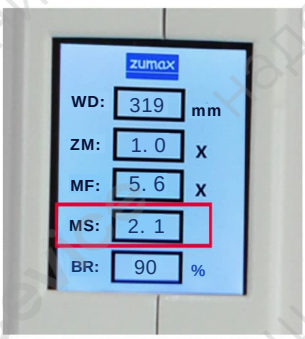


	0-180 deg inclinable binocular tube with PD	MagPlus1.5 180 deg inclinable binocular tube with PD
Magnification Adjustment	0.4x~2.4x	0.4x~2.4x
Magnification	1.8x~20x	2.7x~29x
Diameter of Field-of-view(mm)	124-11.6mm	82.5-7.7mm

12.5x Eyepiece with target reticle(optional)







0.1mm per space

Reticle Space x Measurement Scale=Objective Real Lenght

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LIGHTING SYSTEM

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TruLED™ Illumination



Illumination:>105000 lux, color rendering reproducibility (CRI:92), LEDs present many advantages over Halogen or Xenon sources including lower energy consumption, longer lifetime, improved robustness and durability and reliability.

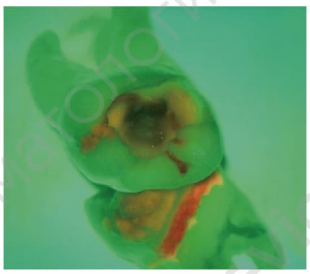
BiLED™ Illumination

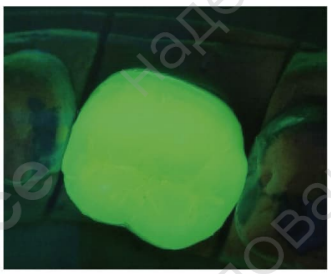


Backup light source for accidentally shutting down of the main LED Illumination.

FluoDet™ Fluorescent Module (optional)



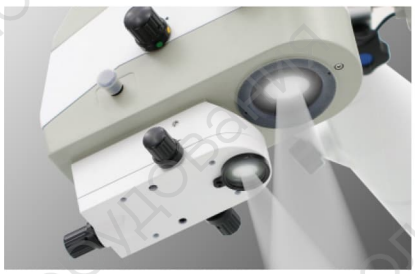


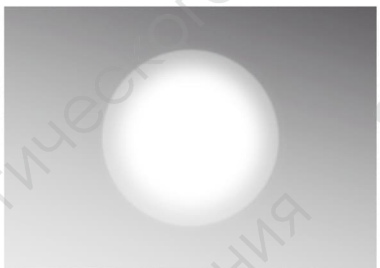


Excluding for the USA, FDA is under the process of registration.

Secondary Lighting (optional)

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



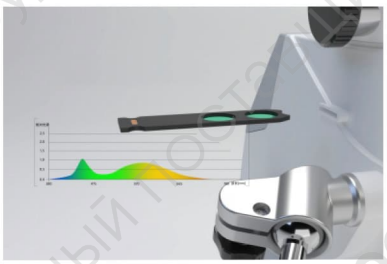


INTEGRATED FILTERS

AntiReflect Module (optional)



Integrated Laser Filters (optional)



Argon:488~514nm
Diode:660nm
Diode:800~830nm

Diode 980nm
& NdYag 1064nm

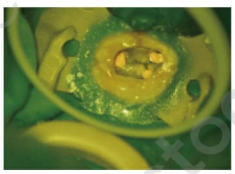
Integrated Yellow & Green Filters, Illumination Filter

In addition to the two color filter of yellow and green, it is equipped with four pattern light range 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.



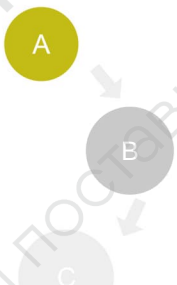
Large spot



Yellow filter



Green filter



A. Anti Reflect Module
B. Large Spot
C. Yellow Filter
D. Green Filter
E. Small Spot
F. Micro Spot

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IMAGE OUTPUT & RECORDING

Integrated 4K Camera with USB disk

Zumax introduces outstanding UHD resolution and superior color performance, fidelity and economical. With outstanding performance, the camera outputs a whopping 3840/2160 resolution from HDMI interface with increased resolution up to 1800 TV lines, and has auto focus function.

iMovCloud™ Image Management (optional)

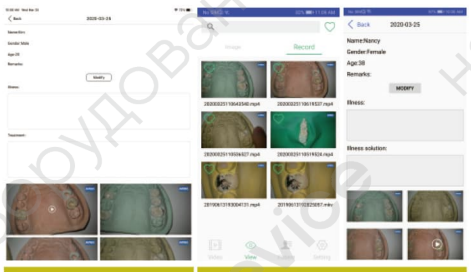
iMovCloud system has Single version, Intranet version and ‘Cloud version.

iMovCloud Single version is an advanced and fully integrated surgical image management system which 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.





Ipad Android



Windows

*"Cloud version" is only available in China at present.

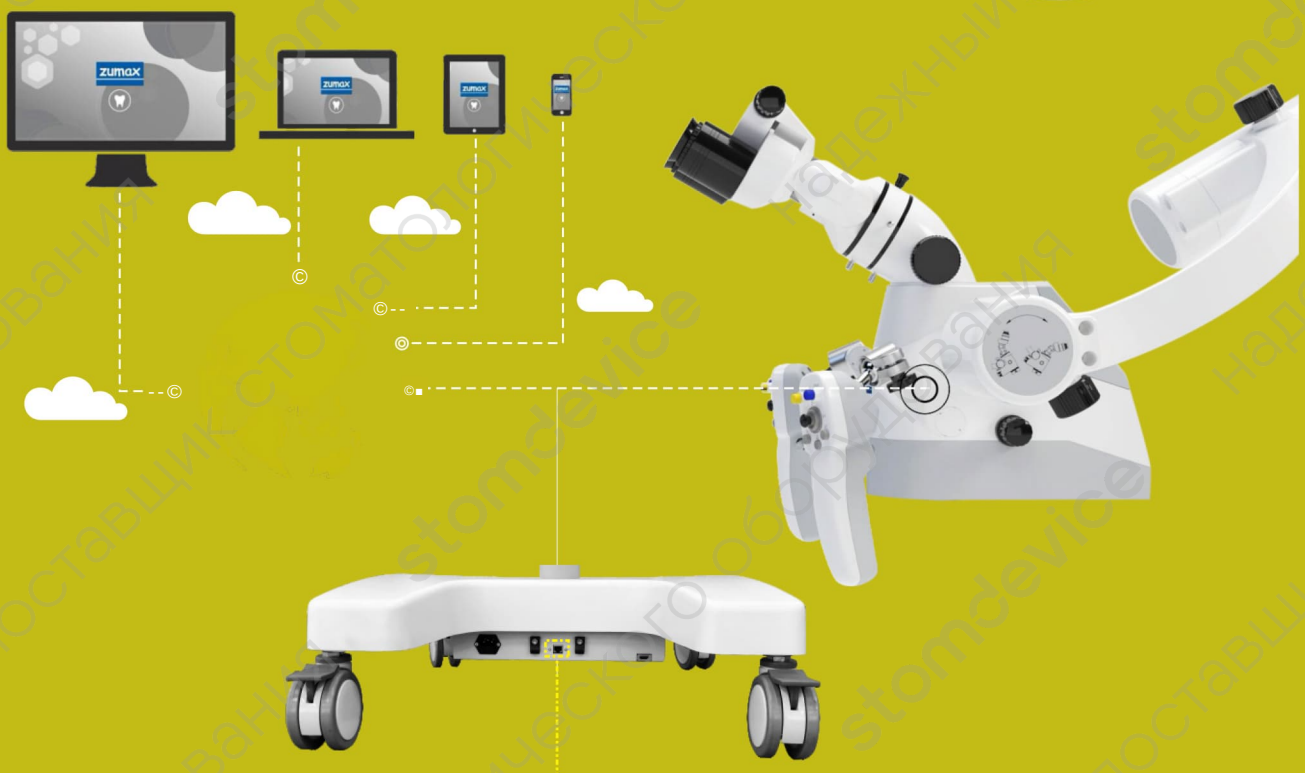
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Recording system as option that has the ability to take a still image or a video and save all data into an internal USB disk. Review photos & video by mouse instantly.



Multiple shooting methods by wireless control set or photo & video Button on both handles.





RJ45

C R O S C O P E

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3D SMART GLASSES:ESPON MOVERIO BT-35E
NOTE: ESPON MOVERIO BT-35E 3D GLASSES ONLY OUTPUT FHD 3D IMAGES





4K-3D System (optional)

Twin 4K Cameras.

- Teaching or presenting in 3D mode which helps teachers teach and students learn through real time depth perception.
- Help patients to understand procedures clearly and better with 3D videos.
- Recorded 3D video in a SD card, can be viewed on 3D TV, 3D projectors and VR/AR viewers.
- Outputting real 3D streaming while the dentists are operating on microscope live.



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DIGITAL VISUALIZATION

Optional digital visualization accessories provide lossless live images or play-back to perform the steps of a procedure to patient's understanding and store the records for reviewing.



Easy360 Plus Mobile Phone Adapter



Rota 360 Digital Camera Adapter
for Nikon/Sony/Canon



Digital Camera Adapter



Digital Camcorder Adapter
for Nikon/Sony/Canon

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Adapter for
CANON / SONY / NIKON SLR
Camera



Adapter for
CANON / SONY / NIKON
Mirrorless Camera



Adapter for
CANON / SONY / NIKON
Camcorder



Adapter for Mobile Phone

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OPERATION SYSTEM



Multi-functional Handles

Ergonomic handles can control zoom magnification, fine focus, brightness as well as photo & video recording electronically by touching the buttons.

Wireless ST® Mini-Footswitch

IPX8 waterproof Mini-footswitch has compact structure, which realized the doctor's blind operation of zoom magnification, fine focusing and taking still photos and videos without removing the visual field. Free hands when hands on.

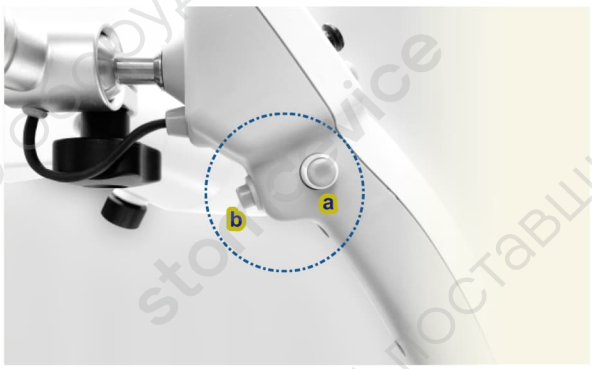
Motorized Zoom

Convenient zoom adjustment continuously motorized in pushing-and-pulling the joystick.

3 & 6 Magnetic Brakes

The magnetic brakes provide an easy and precise posit ion-ing of the microscope. Just press the buttons (a or b) to release handbrakes and bring the microscope in the location required.





FreeMov® Electromagnetic System(A-F)



SmartMon LCD Display



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

Pendulum Function

This function allows the users to remain in an upright viewing position, by changing the direction of the optic pod without changing the direction of the binocular head thereby enhancing user comfort and ergonomics.



Binocular Rotation Ring

+

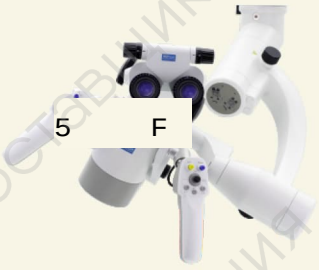


Binocular Extender

or



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



25° Left Inclination



Vertical Position



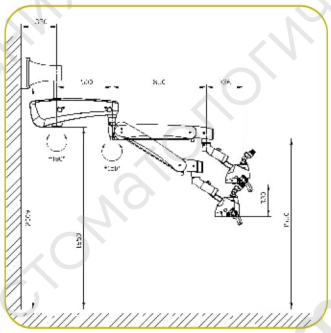
25° Right Inclination

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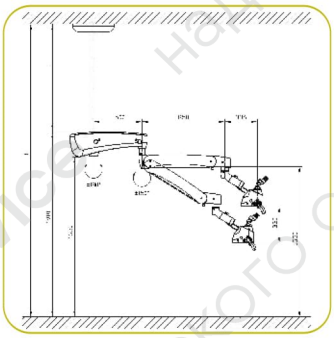
ZOMS3200 PRO/

TECHNICAL CONFIGURATION

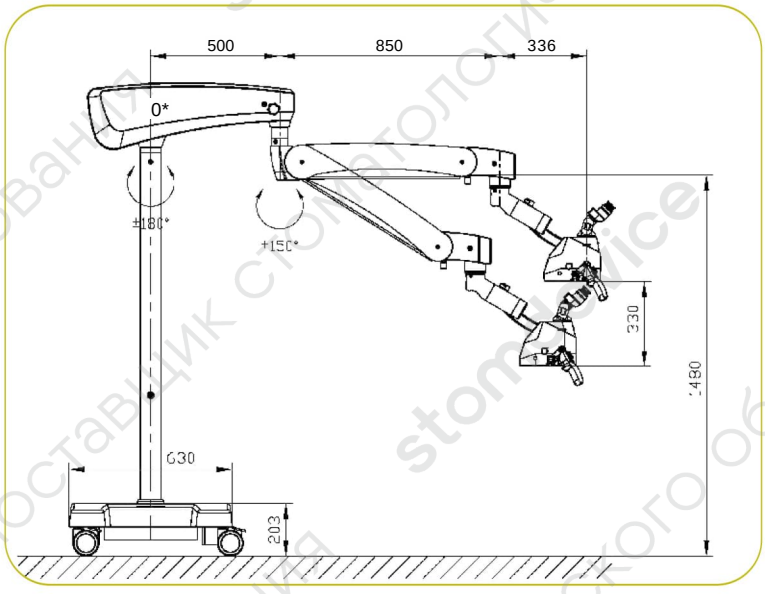
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Wall Mount



Ceiling Mount



Floor Stand



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Basic Configuration

Model	OMS3200 R2	OMS3200 Pro
Magnification System	Motorized Zoom System, with apochromatic 1:6 ratio	
	1.8x-20x with 12.5x eyepieces	
	Magnification factor y=0.4X-2.4X	
	11.6mm-124mm with 12.5x eyepieces	
Tubes	0°-180° inclinable binocular tube with PD adjusting knob, f=170mm	
Eyepieces	12.5x wide-field eyepieces, also suitable for eyeglass wearers	
Objective/Focus	Motorized VarioDist Objective Lens, variable working distance 200-450mm	
Illumination System	BriPlus™ Illumination system, integrated true color LED illumination CT55OOK/CRI 92 >105,000 Lux at working distance 250mm	
	30% auto-increased intensity at maximum magnification, >150,000 Lux	
	Illumination spot between 90mm-73mm at working distance 250mm	
	Twin switchable LEDs, (Optional under the preset without FluoDet™ Fluorescence Module selected)	
	Yellow and Green filters	
Controls	FreeMov® 3-Electromagnetic brakes	FreeMov® 6-Electromagnetic brakes
	Multi-functional handles, below buttons to lock/unlock 3 brakes, Side buttons to lock/unlock 6 brakes, joysticks for motorized zoom +/-, Motorized foucs +/-, 4 buttons for taking photo/video, lighting +/-	
	SmartMon LCD display, displaying current working distance, zoom factor, magnification, measurement factor, LED brightness	
Construction	Floor Stand with "H" shaped base, 632x632mm	

Optional Configuration

Tubes	MagPlus1.5™ 0°-180° inclinable binocular tube with PD adjusting knob, boosts magnification by 50%	
Eyepieces	12.5x wide-field eyepieces with reticle, also suitable for eyeglass wearers	
	10x wide-field eyepieces, also suitable for eyeglass wearers	
Illumination System	Adding a second LED illumination module, intensity at maximum magnification >170,000 ~210,000Lux	
	FluoDet™ Fluorescence Module (Optional under the preset without twin switchable LEDs selected)	
	AntiReflect Module	
Laser Filter	Interchangealbe laser filters: Argon: 488-514nm, Diode: 660nm, Diode: 800-830nm, Diode 980nm & NdYag 1064nm	
Integrated Video System	Integrated 4K 1/1.2" Sony CMOS video camera streaming HDMI to desktop devices and mobiles with Windows PC/Android/iOS via Zumax App, transferred via WIFI or wired RJ45	
	4K/3D, 2 x 1/1.2" Sony CMOS, 1 x 2D HDMI output and 1 x 3D HDMI output	
	iMovCloud™ Image Management (optional)	
Construction	Ceiling Mount, Wall Mount	

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