

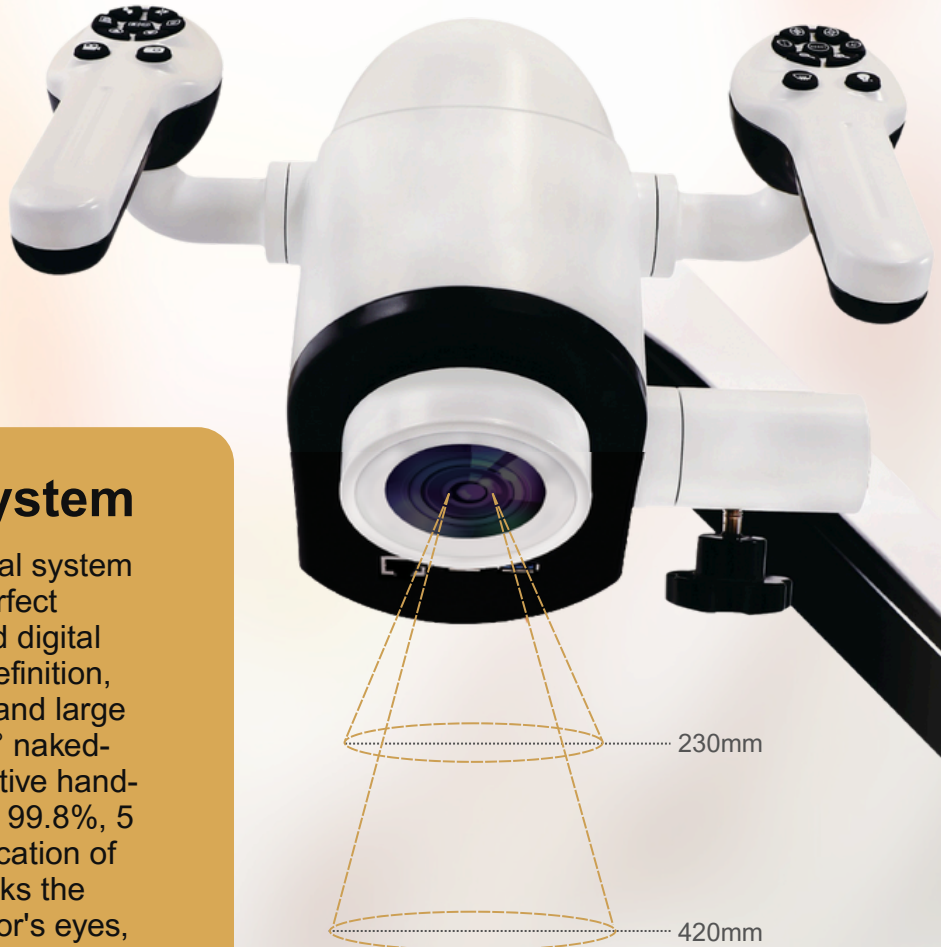
ALLOWING DOCTORS AROUND THE WORLD TO PERFORM SURGERIES SMOOTHLY UNDER SUPERIOR VISION



- ☞ No eyepiece. Simple operation
- ☞ 28x magnification and large depth of field
- ☞ Enhance visual medical and nursing communication



DIGITAL OPERATING MICROSCOPE

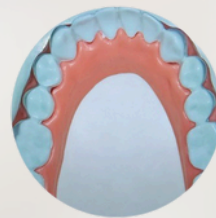


Excellent optical system

The self-developed imaging optical system is adopted, demonstrating the perfect combination of optical design and digital imaging technology. It has high definition, strong three-dimensional sense, and large depth of field. It can achieve 180° naked-eye operation, and the intraoperative hand-eye synchronization rate reaches 99.8%, 5 times Compared with the magnification of the traditional microscope, it breaks the traditional method, frees the doctor's eyes, satisfies the observation of different tooth positions, and improves the doctor's work efficiency.

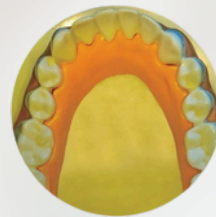
Built-in long-travel zoom objective lens F=230~420mm

A large zoom objective lens suitable for surgery, dentistry, and orthopedics. The focusing range covers the entire depth of the oral cavity. The large working distance achieved by the large zoom makes it easy to adjust the zoom focus.



White light mode

Using imported medical LED light source, high color rendering index, the color is closer to reality, and the illumination spot has good uniformity.



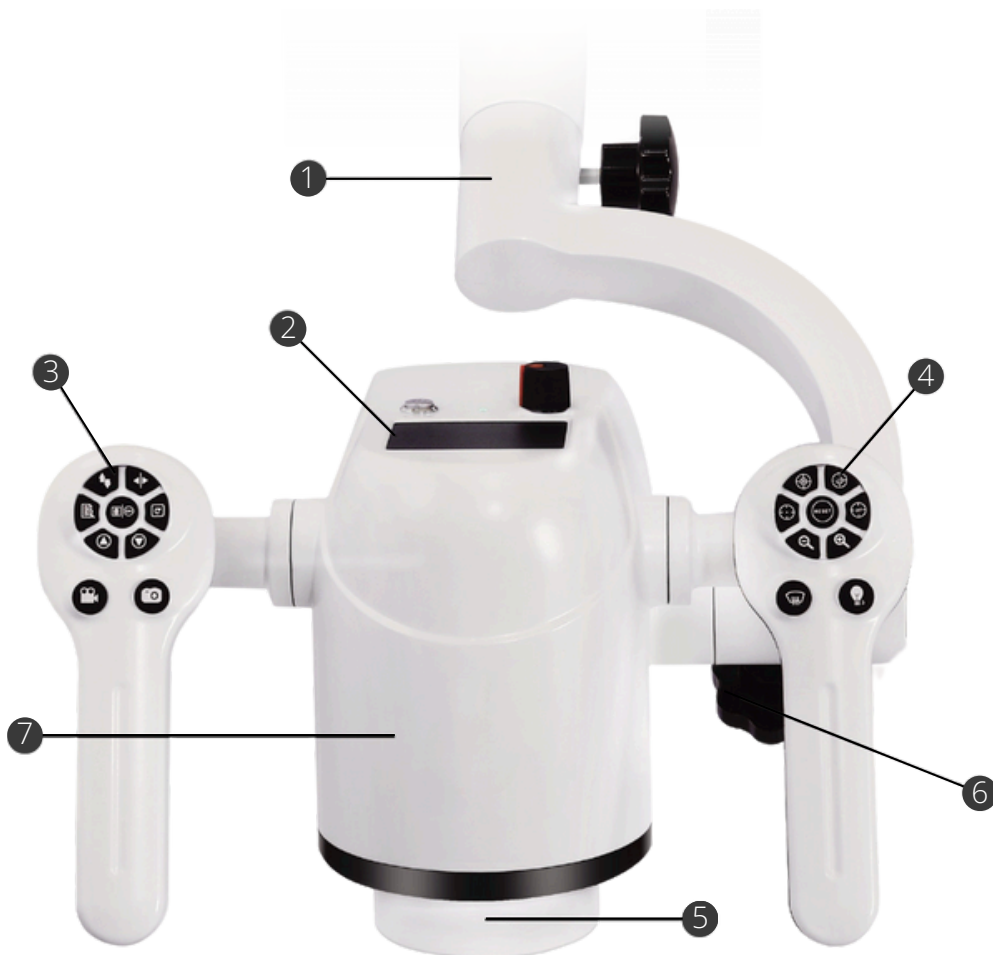
Orange filter mode

Used for filling light-curing resin materials to prevent the resin materials from curing too quickly.



Green filter mode

See the tiny nerves and blood vessels clearly in the surgical blood environment, and improve the contrast of blood vessels and bleeding points under blood flow conditions.



1
Pendulum system

The mirror body tilts 45° left and right. When you observe from different positions, the field of view remains unchanged.



2
Touch display

The fuselage has a built-in touch screen design, and an external mouse can also be connected to set the system's menu function parameters and other focus and focus settings.



3 Left control handle

The main operating functions include flipping the microscope up and down, left and right at four different angles, viewing preview and return keys to meet the needs of treatment from different angles.



4 Right control handle

The main operating functions are manual focus, one-button focus and auto-focus, ZOOM continuous zoom system adjustment, defogging and lighting and other key functions.



5 Large zoom objective

A large zoom objective lens suitable for surgery, dentistry, and orthopedics. The focusing range covers the entire depth of the oral cavity. The large working distance achieved by the large zoom makes it easy to adjust the zoom focus.



6 The mirror body is designed with a large tilt angle in the front and back.

The mirror body can be swung forward at 45° and back at 90°, which can adapt to various special treatment positions and working angles that are difficult to observe.



7 4K imaging module

Collect 4K ultra-high-definition photos and images and output them to a 4K monitor. The exquisite images will make you more comfortable in academic exchanges and doctor-patient communication.

ZOOM continuous zoom

The button located on the right handle can quickly and conveniently continuously change the magnification, the magnification factor is from 1-3x, and the magnification is from 3.6-28 times. The doctor's field of view can be continuously observed under the microscope.



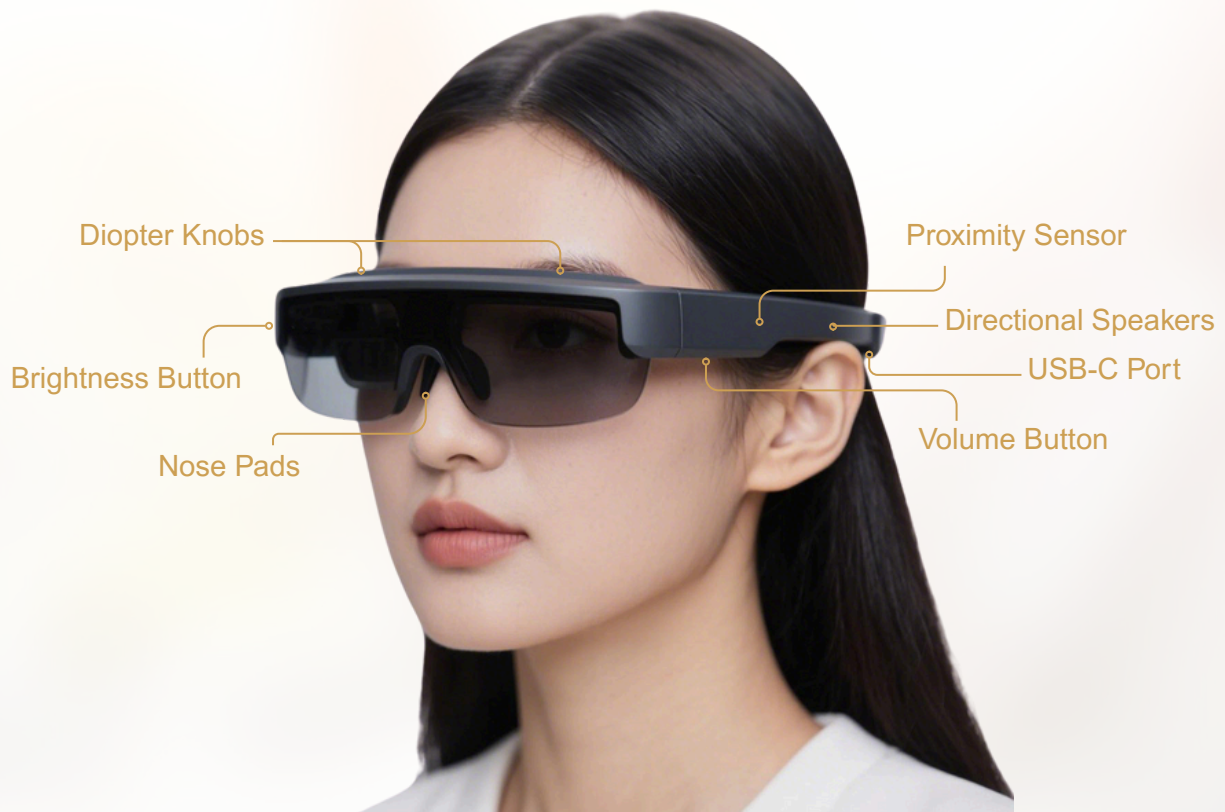
180° wide field of view and large depth of field

- There are no position requirements or eyepieces to constrain the eyes, and communication between surgeons and nurses on the same stage is more accurate.
- Breaking the traditional method, freeing up the doctor's eyes and operating space, allowing for more flexible surgery.
- Ultra-large magnification and ultra-large depth of field bring more refined treatment and reduce surgical trauma.

Turning drumming factor	1x~3x
Overall	3.6x~28x
Magnification and zoom system	Continuous zoom, up to 77 times

XM220 high version

AR Glasses



How to Wear ?

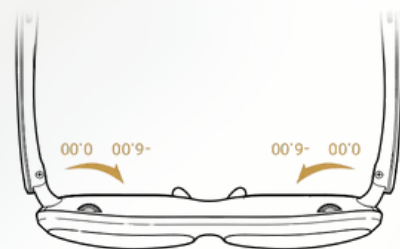
1. Please insert the Type-C data cable from AR Glasses to your microscope
2. Please wear the glasses well and adjust the refractive power to suit your refractive setting.
3. Start experiencing your AR journey.

Myopic Adjustment

Myopic Adjustment

Please follow the steps below:

1. Please open your right eye (close your left eye), adjust the refractive button on the right until the right eye screen is clear.
2. Please open your left eye (close your right eye), adjust the refractive button on the left until the left eye screen is clear.
3. the left until the left eye screen is clear.



Technical Parameters

Digital optical system	<p>180° naked-eye wide field of view, stereoscopic image transmission to obtain a larger field of view, freeing the doctor's eyes and simple operation</p> <p>Zoom method: ZOOM continuous zoom system, manual, automatic and continuously adjustable, one-button auto-focus</p> <p>Total magnification (when the focal length of the large objective lens is f=250mm):</p> <p>Magnification, 3.6X-14X, 3.6X-28X, continuously adjustable, up to 77 times magnification</p> <p>Extra large zoom objective lens system: zoom range WD180-420mm,</p> <p>Zoom factor (drum factor): 1x~3x</p>
Lighting system	<p>Lighting source: Built-in high-reliability medical-grade LED light source, brightness continuously adjustable</p> <p>Minimum illumination of object surface (f=250mm): ≥50,000lx</p> <p>Illumination spot diameter: ≥100mm</p> <p>Lighting color temperature: 5000K-57000K, stepless dimming, realistic colors</p> <p>Color filter: three or more filter modes: Orange, which prevents premature curing of resin materials: Green: Tiny blood vessels and nerves can be seen clearly in the surgical blood environment, white lighting</p>
Bracket system	<p>Maximum swivel arm: 1650mm; Cross arm turning radius: 770mm (360° rotation); Spring arm rotation radius: 600mm, ±100° rotation, Spring arm up and down movement range: ±300mm,</p>
Built-in ultra-high definition video recording camera system	<p>System video resolution: 3840x2160</p> <p>Video frame rate: 60fps@4K</p> <p>Storage media: external USB flash drive</p> <p>Playback function: Video and picture files can be played back instantly through the video recording and photo taking modules</p>
Digital imaging module	<p>Video resolution: 4K, 3840x2160 (18 million pixels)</p> <p>Frame rate: 60fps@1080P (recommended), supports 50fps@4K image storage</p> <p>Control mode; supports mouse, buttons, touch screen</p> <p>Output interface: HDMI</p> <p>Image sensor: CMOSG 4K sensor (x2)</p> <p>*Mirror function: Supported (one-click switching between upper and lower jaws) Suitable</p> <p>Viewing distance: 30cm-60cm</p>
Microscope parameters	<p>Input voltage: 220V 50Hz</p> <p>Maximum power: ≤86W</p> <p>Standby power: ≤1W</p> <p>Working temperature: 0-35°</p> <p>Working humidity: 20%-80%,</p> <p>Storage temperature: -10°C-40°C</p> <p>Storage humidity: 10%-80%</p>



AB MED INC.

Address: 6021 Yonge Street, Unit 319
Toronto, Ontario, Canada M2M 3W2
Email: custserv@abmed.ca
Phone: +1 905-288-8199

