



- Clear vision from every angle
- Continuous Lens System
- Built-in HDMI 4K digital image output system

Viro™

Integrated Optical Rotation System

Clear vision from every angle



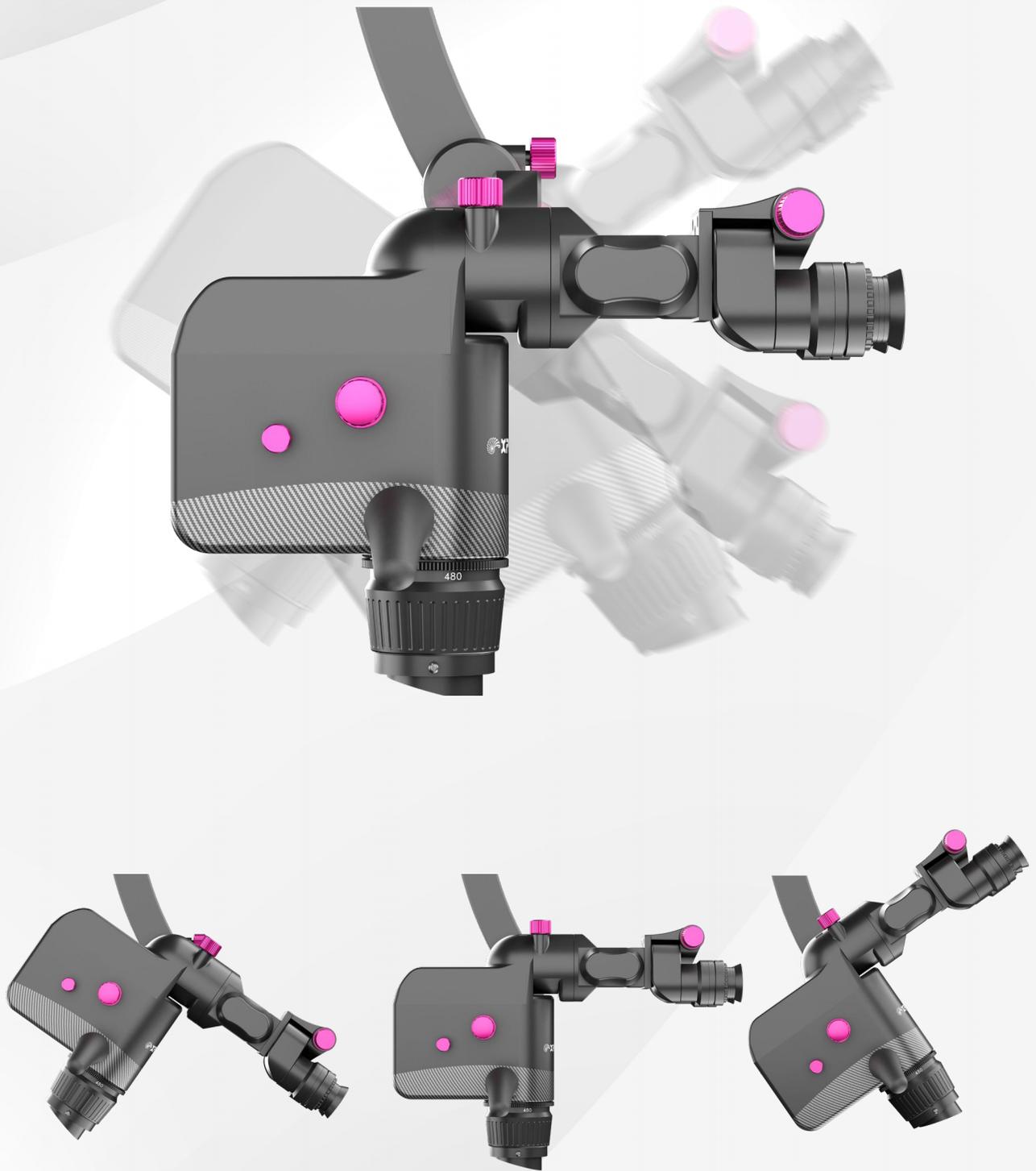
ISO13485

German Lenses



Clear vision from every angle

When the microscope body tilts left or right, the binoculars remain level without the need to readjust the eyepiece angle, maintaining a natural posture at any observation angle



Smooth and precise optical rotation

Viro combines a 90° binocular extender, a pendulum rotation mechanism, and a built-in 4K imaging and recording system into one seamless unit.

Its ergonomic design allows operators to select wider observation angles while maintaining a natural, comfortable posture — improving comfort, reducing fatigue, increasing efficiency, and minimizing occupational strain.

Imaging configuration (built-in)

Built-in high-definition 4K imaging and recording system integrated with the microscope body.

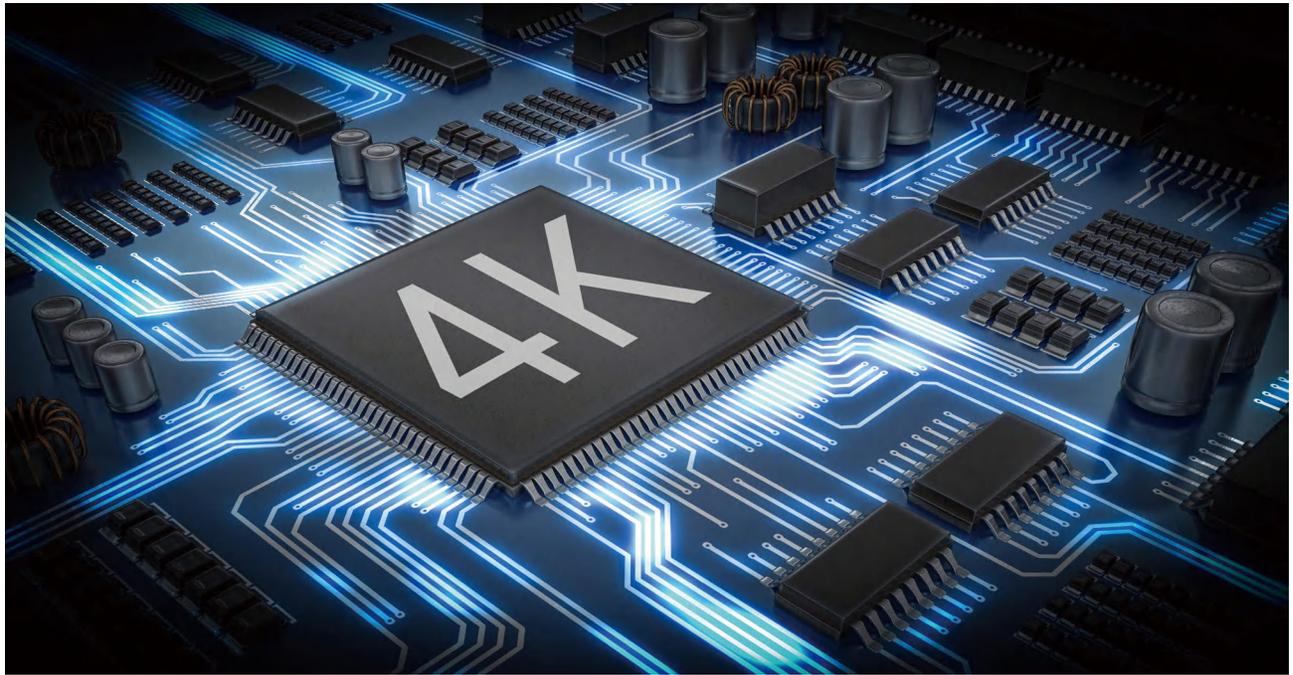
During the treatment, the output or records of high-definition images shown clearly through the connective display, helpful to carry out clinical work, teaching and scientific research and other activities, and communication between dentist and with patients



Four-in-One Integrated 4K Module

Built-in high-definition 4K imaging and recording system integrated with the microscope body.

4K Ultra-HD camera and video module: the resolution is four times that of 1080P, presenting ultra-clear and detailed images. The video can be stored on a high-speed USB drive after capture, with a wireless foot control function for convenient and quick operation.



Built-in Orange Filter + Green Filter



Green Filter

Enables you to see tiny nerves and vessels clearly in the surgical environment, even with blood present.



Orange Filter

Prevents resin material curing interference from curing too quickly.

The Ultimate Optical Experience

German Schott Glass is designed to eliminate colour differences and features a multi-layer optical coating to improve visibility. It clearly restores the details of the operating area, providing better colour fidelity and light sensitivity, and adapts well to both high-brightness and extremely dark shooting environments.



German Lenses

XPEDENT

Continuous Lens System

Turn the magnification adjustment knob to achieve continuous, smooth, and seamless operation. The vision will not be interrupted during the zoom in process. The magnification factor can be continuously adjusted from 0.4X to 2.4X, and the total magnification can range from 3.4X to 21.4X. Continuous magnification allows the doctor to maintain a clear field of vision under the microscope for uninterrupted observation.



290mm Zoom Objective Lens

With an extended working range of 190-480mm, the system accommodates full oral depth coverage, eliminating positional adjustments during procedures. There is no need to move the microscope or change the working position; instead, simply adjust the focus of the objective lens to achieve clear vision, efficiently and quickly.



No External Cables

The entire instrument has cable-free design enhancing ergonomic flexibility. This sleek and aesthetically pleasing microscope integrates perfectly into the clinical environment

Ease of Maintenance

Modular design allows for quick troubleshooting of faulty modules, enabling swift maintenance and repair. Machine troubleshooting and repairs can be completed within 10 minutes.





German-engineered Gas Spring Balance Arm



Viro™ Integrated Optical Rotation System

The spring can actively balance, and the damping double-adjustment balance arm system offers more active balance than traditional single-damping arms, offsetting the influence of gravity. This allows the microscope's main mirror to achieve optimal balance. The microscope's main mirror can hover at any position and can be adjusted smoothly.

Medical-grade LED Illumination

Utilising a top-level medical LED light source with a lifespan of 65,000 hours.

The high colour rendering index is close to natural light, providing more realistic colours and reducing eye fatigue.



Product Components

Horizontal rotation control for the main mirror body

Vertical adjustment on the small arm

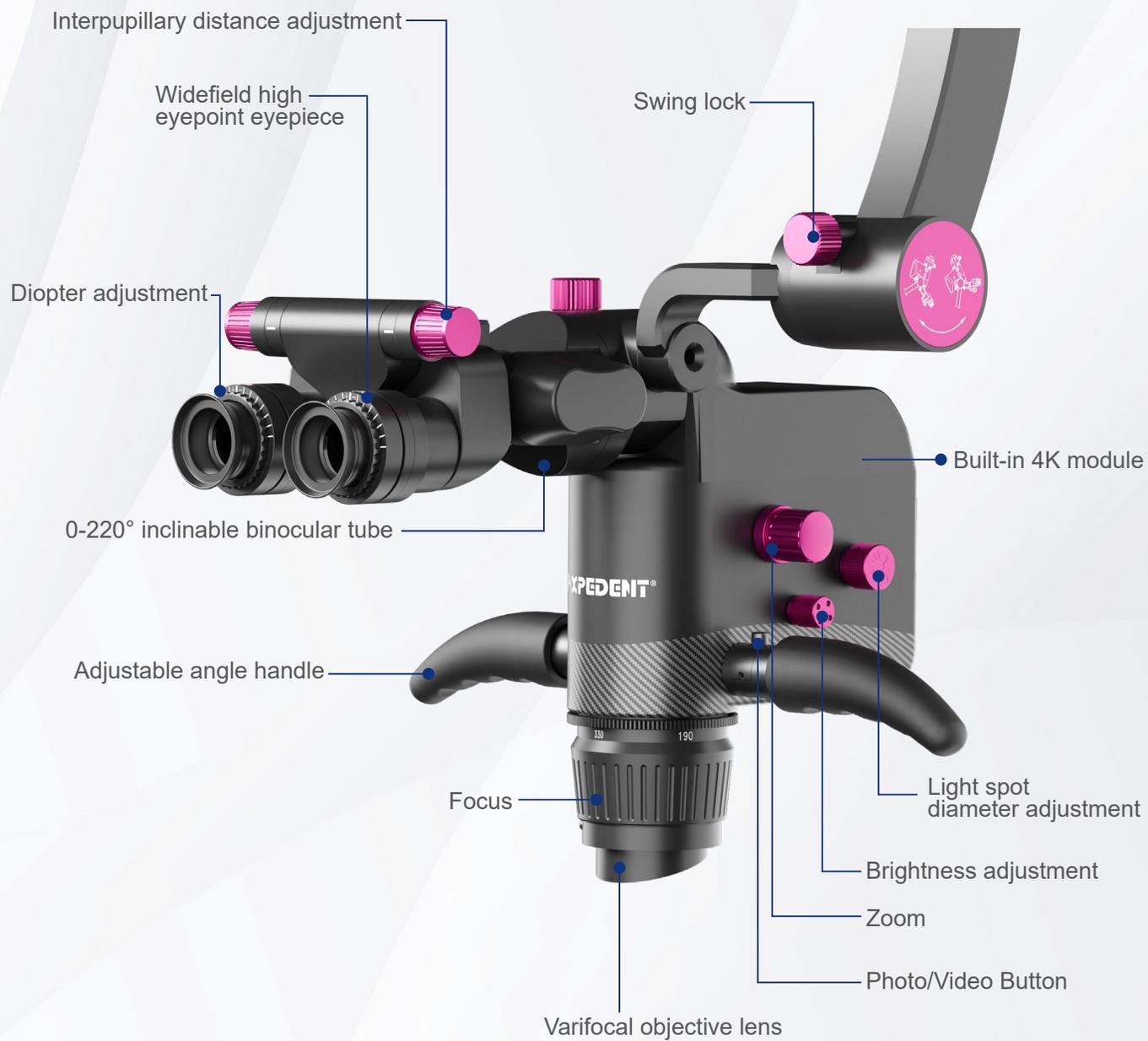
Horizontal rotation control for the small arm

Horizontal rotation control for the large arm



Camera wireless
Bluetooth foot control

Product Components



Basic Configuration

Zoom system	Stepless zoom system; zoom factor: 0.4×–2.4×; total magnification: 3.4×–21.4×
Binocular tube	220° rotatable binocular tube
Eyepiece	12.5× wide-angle eyepiece; diopter adjustment: ±7D; interpupillary distance adjustment range: 51–76 mm
Working distance	Focal length 190–480 mm (optional configuration)
Surface illuminance	100,000 LUX at 250 mm with daylight characteristics for excellent colour rendering
Illumination spot	Spot diameter 160 mm, stepless adjustable
Field of view diameter	Ø133 mm – Ø11.3 mm
Colour filter	Orange, Green
Balance system	Spring active balance + damping dual-adjustment balance arm system
Arm extension	1860 mm
Lighting system	LED illumination; continuously adjustable brightness; service life ≥ 65,000 hours
Auto shut off mechanism	Built-in limit switch in auxiliary arm automatically turns off the light when the arm reaches maximum height
Installation method	Column roller type, “H”-shaped base, ceiling mounted, wall mounted
Integrated video system	4-in-1 module: integrated 4K HD digital code, rotating ring, 30° optical extension, digital camera interface
Recording & storage device	USB storage; supports fast storage for capturing clear images and videos
External imaging solution	Digital camera interface (compatible with Sony, Canon, Nikon); 30° optical extension with integrated stereo beam splitter (2:8 or 5:5); rotating ring; wireless camera foot pedal; built-in power supply and HD cable for digital camera

Option

Microscope Screen



Supports 8/10 - bit colour Resolution

- Maximum: 3840 x 2160 60 Hz
- Recommended: 3840 x 2160 60 Hz

Power Supply

- Power Input: 19 V 2.0 A
- On mode: 36 W typical (factory conditions)
- Standby mode (monitor mode): ≤ 0.5 W
- Off mode: ≤ 0.3 W

Display Size (W x H x D)

With Stand: 622.6 mm x 572.2 mm x 230.0 mm
Without Stand: 622.6 mm x 371.0 mm x 45.8 mm

Mass (Excluding Packaging)

- With Stand: 6.0 kg
- Without Stand: 4.4 kg

Follow up

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