

COXO

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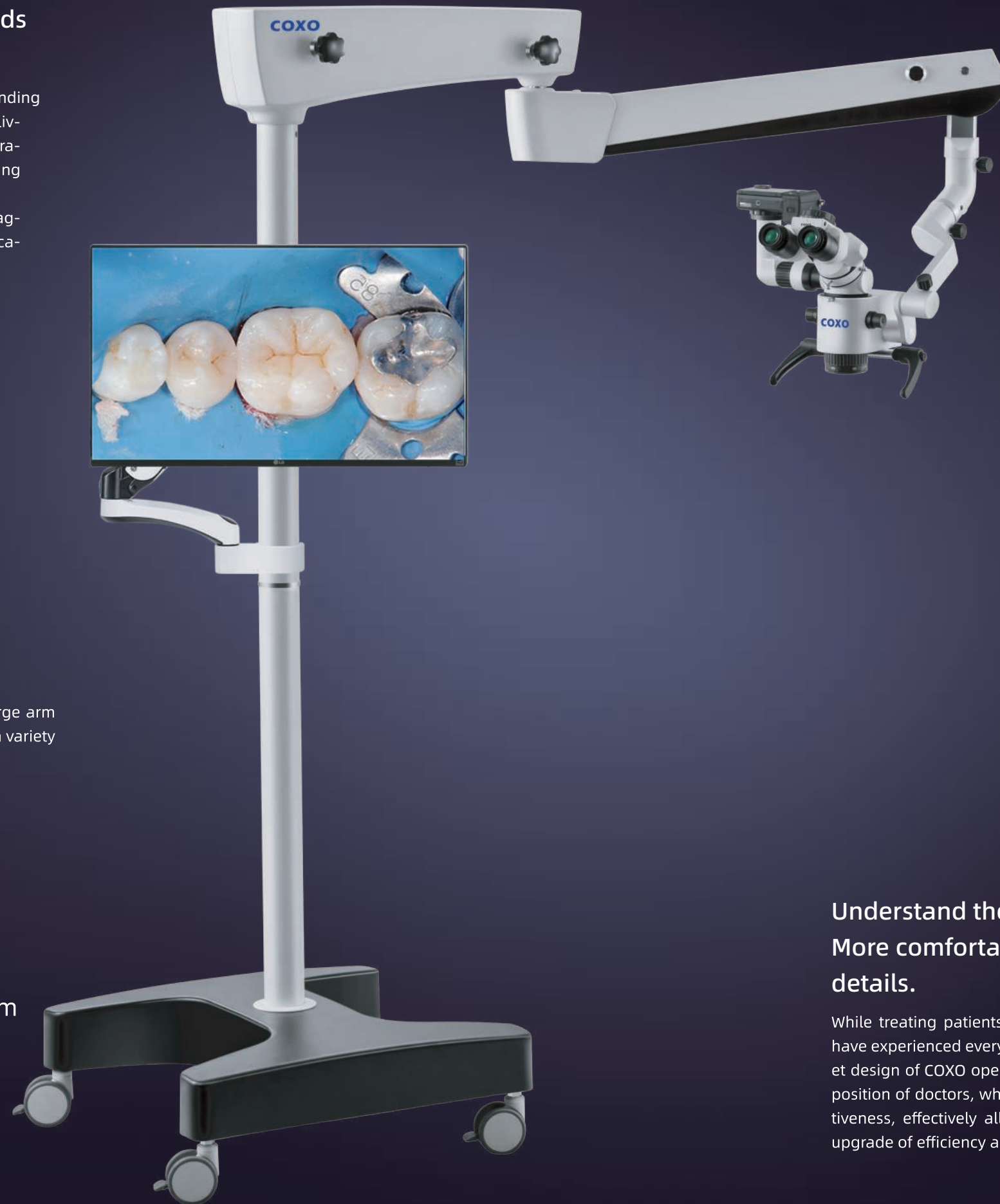
Operation Microscope

C-CLEAR-1

C-CLEAR-1 series Operation Microscope

14 years of deep experience in dentistry.
Have a deep understanding of the needs
of fine dental treatment.

The C-CLEAR-1 Operation microscope combines outstanding optical performance with advanced imaging capabilities, delivering high-definition magnified visualization for precise operation and enhanced surgical accuracy—significantly improving treatment success rates and workflow efficiency. With its integrated imaging system, it enables visualized diagnosis and treatment, facilitating doctor-patient communication, teaching demonstrations, and case sharing.



Apochromatic Optical Design

- German-imported multi-layer coated glass
- Large Zoom objective
- 12.5x high-eye-point wide-angle eyepiece
- Five-level magnification factor

New Lighting Concept

- Higher-quality LED medical light sourceFive types of lighting spot adjustment
- Built-in green and orange filters

Ergonomic Bracket Design

Optimization of mechanical structure swing arm design, large arm span, a wide range of telescopic characteristics to adapt to a variety of angles and placement requirements.

- High quality gas spring imported from Germany
- 0-180 ° variable angle binocular tube
- Pendulum system
- Convenient pupil distance adjustment

External High-definition Imaging system

- Adaptation: Canon and Sony cameras
- Adjustable focus knob
- Optional wireless photo system
- Optional direct power supply for camera

**Understand the industry, better understand you.
More comfortable experience, more considerate
details.**

While treating patients, back pain and soreness are almost a feeling you have experienced every day after working in the past. The humanized bracket design of COXO operation microscope significantly improves the working position of doctors, while enhancing surgical accuracy and treatment effectiveness, effectively alleviating professional fatigue and achieving a dual upgrade of efficiency and comfort.

Superior Optical Performance

High-definition vision, precise operation,- significantly improving the success rate and safety of surgery.



Apochromatic optical system design

- Using German-imported special optical glass (EDGlass) with unique optical properties: lower dispersion, higher transmittance, extremely high transparency, helping to reduce color aberration in images, providing clearer and sharper images.
- Lenses are coated with anti-reflective coatings and multi-layer coating materials viaadvanced E-beam Evaporation processing technology, which reduces light reflection,increases transmittance,and prevents glare.
- During the assembly of microscopes, each lens is subject to strict surface inspection and accuracy testing to ensure the optical performance of the finished product.

High-definition 12.5X wide-angle eyepiece



12.5X wide-angle eyepiece, diopter +7D~-7D. High eye-point wide-angle eyepiece allows a wider field of view, so that the user's eyes do not have to be close to the eyepiece, which is more convenient for the user to operate. The special diopter design is more suitable for the use of glasses wearers.

Five-level magnification factor



The COXO has five-level magnification factor (0.4x, 0.6x, 1x, 1.6x, 2.5x), the total magnification is 1.8x-19.1x to meet your different treatment needs. Low magnification for field localization, Medium magnification for clinical procedures, High magnification for detailed examination.

Large Zoom objective



Working distance: 200-415 mm, a large zoom objective for general dentistry, its working distance is between 200 mm and 415 mm, focusing range completely covers the entire oral depth, to meet a variety of treatment needs.

Multiplier (optional)



Magnification 1.6X, increase magnification by 1.6X. Convenient switch design, turn on the switch will be the current magnification increased by 1.6 times.

New Lighting Concept



LED Illumination System delivers exceptional lighting performance, with adjustable brightness and optional filters to meet diverse clinical needs.

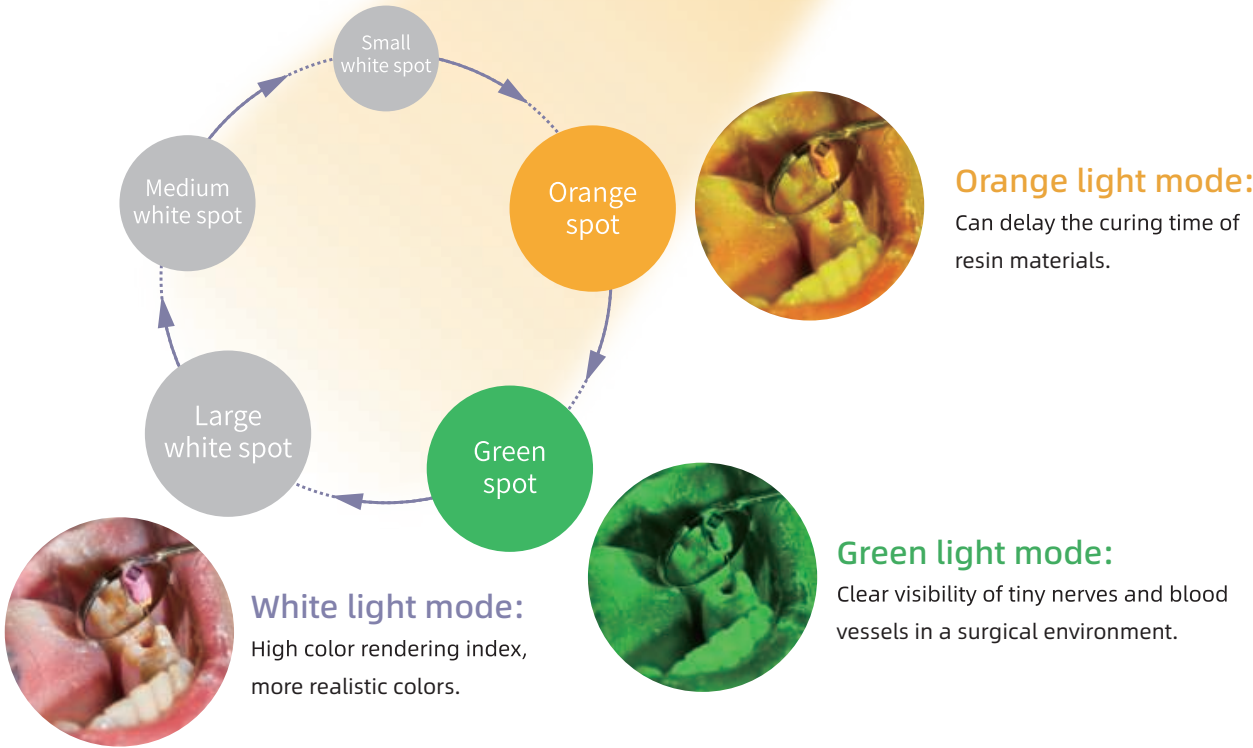
Featuring high-quality medical-grade LED light source, it offers superior color perception and true-color reproduction, ensuring precise visualization of treatment details—especially ideal for small, deep, and narrow cavities.

Integrated true-color LED medical light source with a color rendering index CR>90%, illuminance of 65000lux, Color temperature 5700k.

- Equipped with built-in orange and green filters to meet the needs of different surgical scenes.
- Fast start-up, energy-saving lifespan ≥60000 hours, low heatgeneration, suitable for long-term use.

Five illumination spots are optional

When you choose white medium or small light spots, the more focused illumination of the treatment area allows you to focus more, reducing the interference caused by light reflection in other areas, allowing you to have a more focused treatment experience.



Objective lens protection cover

The large objective lens protection cover can avoid the splashes such as water drops and impurities brought by the treatment entering the large objective lens, so as to avoid the damage of the large objective lens, and is convenient for cleaning.

External High-Definition Imaging System

The C-CLEAR-1 builds a high-definition imaging system through an external digital camera, enabling visualized diagnosis and treatment, and making doctor-patient communication easier.

Three-in-One Beam Splitter



45° extender, pendulum system, splitter Optical integration, split ratio 2:8 or 5:5.

Digital Camera Tube



The digital camera tube links the microscope to a digital camera, capturing the microscope's view via the Three-in-One Beam Splitter port. Its focus adjustment knob enables quick fine-tuning for optimal image clarity.



Compatible with Canon and Sony Cameras



C-CLEAR-1 Imaging System External camera Interface Adaptation, Canon and Sony cameras.

Wireless Camera System



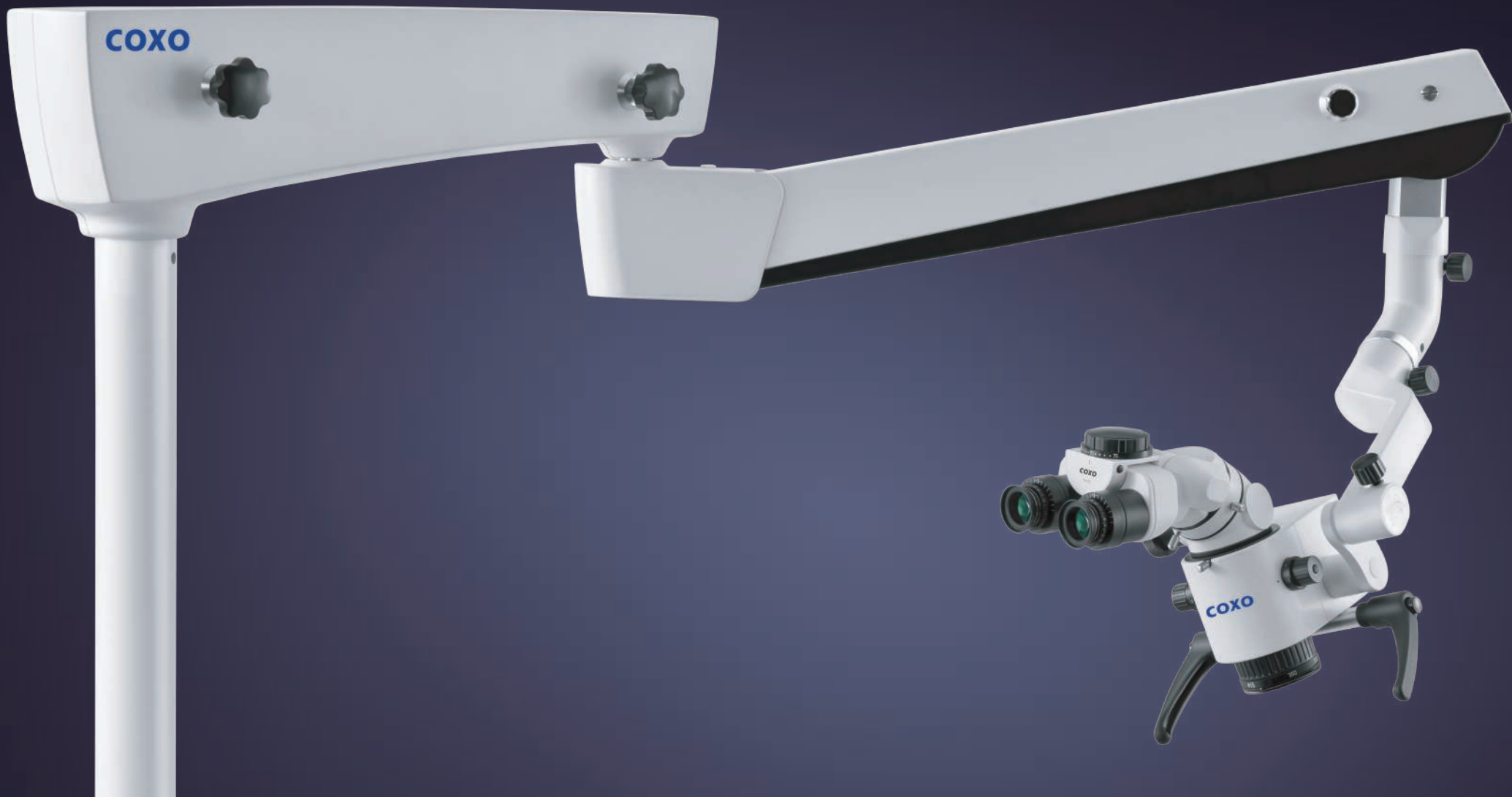
While you are treating a patient, you can use the wireless camera system. The system captures the photos you need at any time, and the wireless footswitch can be used at any time.

Advantages of the External HD Camera System

- The full HD camera system provides very clear details and high-resolution images.
- Photography function.You can take pictures or record videosat any time during treatment.
- Continuous real-time video signal streaming, viewable throughterminal devices.
- Image data can be stored on a USB drive or transmitted to compatible manage-ment devices at any time.
- Full digital HDML output port.
- Foot control switch, allowing you to take high-definition pictures at any time during the process.

Ergonomic Design of the Bracket System

COXO focuses on optimizing the mechanical structure, ergonomic support, help you in the work environment, more convenient and accurate to adjust the microscope to any angle you need, in order to obtain more comfortable working condition.



0°-180° Variable Angle Binocular Tube



The 0-180° adjustable binocular tube enhances your comfort and flexibility while working, providing you with a wider viewing angle.

Pendulum System



The pendulum system keeps the binoculars level when the microscope body tilts left or right, allowing you to maintain a comfortable seated posture during treatment.

Interpupillary distance adjustment



The interpupillary distance adjustment function helps you adjust to a suitable interpupillary distance, with an adjustable range of 55-75mm.

High-quality gas springs from Germany



The key parts of C-CLEAR-1 use German high-quality gas springs. This provides better mechanical effects when moving the microscope cross arm.

The Base



The base holds the microscope in place and is simple and easy to care for.

Silent Casters for medical



The 3-inch silent medical caster allows you to move the microscope more quietly and steadily.

Order code: C-CLEAR-1
Basic Edition



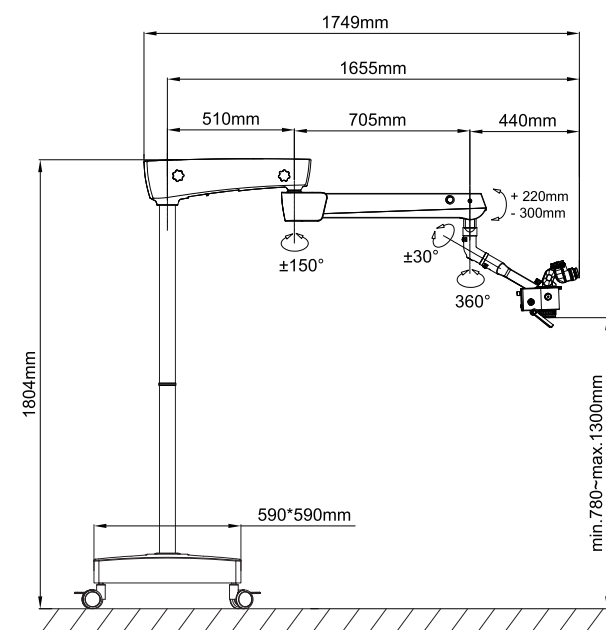
Order code: C-CLEAR-1
Standard Edition



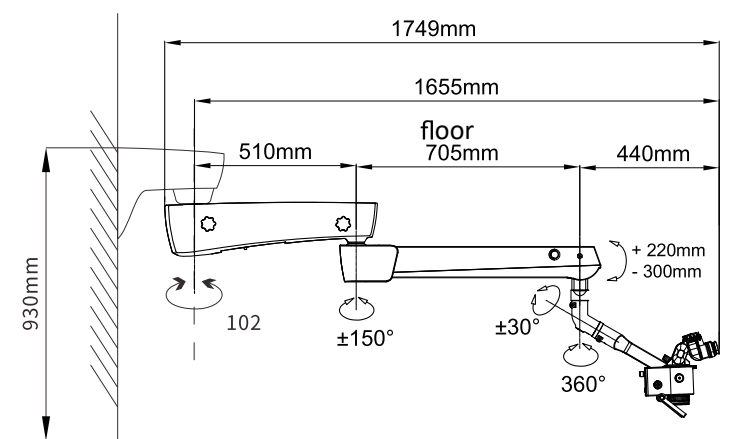
Optional Accessories :

High-quality monitor bracket 	24-inch HD monitor 
Camera Optional Canon, Sony Micro Single Camera 	Direct power supply for camera 
Wireless camera system 	Multiplier 

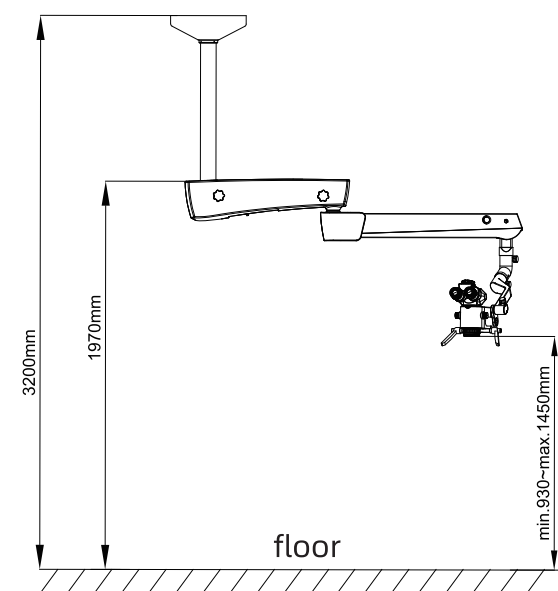
Various Mounting Bracket Diagrams of C-CLEAR-1 Bracket



Floor-standing



Wall-mounted



Ceiling-mounted

Technical Specifications

		Standard Configuration ●	Optional Configuration ○
Order code		SCM600-ST	SCM600-UL
Optical System	Apochromatic Optical System	●	●
Magnification system	Five-step Zoom: Magnification factor: 0.4x、0.6x、1x、1.6x、2.5x	●	●
	Total Magnification:1.8x-19.1x		
Binocular Tube	0°-180° Variable Angle Binocular Tube with interpupillary adjustment mechanism, Interpupillary distance adjustable from 55-75mm	●	●
	High eye point 12.5x Wide-Angle Eyepiece, adjustable eye cup height,dioptr compensation range±7D		
Zoom System	Zoom objective lens with variable working distance of 200-415mm	●	●
Light ingsystem	Integrated true color LED illumination with color temperature 5700K,color rendering index >90%, illuminance 65,000Lux	●	●
	Integrated orange filter, green filter; white spot light modes in three sizes: large, medium, and small		
External HD Imaging System Interface	3-in-1 Beam splitter: 45° extender, pendulum system, integrated beam splitter with a split ratio of 2:8 or 5:5	○	●
	Digital Camera Tube: Knob-style camera focus adjustment	○	●
Bracket system	Imported German Gas Spring		
	Two-stage Locking Mechanism for the Swivel Arm		
	Load Adjustment Mechanism for the Balance Arm		
	Balance Arm Equipped with a Locking Mechanism, Capable of 320° Rotation and avertical Travel Range of 480mm (Up/Down)	●	●
	Maximum Arm Clear Span: 1655mm		
	Integrated Base with 3-inch silent medical casters, base size:590×590mm		
Accessories	Multiplier (1.6X rate with convenient enable switch)	○	○
	Monitor Bracket	○	○
	24-inch HD Monitor	○	○
	27-inch 4K UHD Monitor	○	○
	Camera (Optional Camera Brands: Canon,Sony)	○	○
	Direct Camera Power Supply	○	○
	Wireless camera System	○	○
	Objective Lens Protective Cover	○	●
	Built-in high-definition data cable	○	●