



Insight into details see the unseen

Operating microscope

scm600

Upgraded

SCM600 Full Function Assembly Diagram



Achromatic Optical Design

German-imported multi-layer coated glass
large Zoom objective
12.5x high-eye-point wide-angle eyepiece

New Lighting Concept

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

External High-definition Imaging System

Ergonomic Bracket Design

Superior Optical Performance

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

High-definition 12.5X wide-angle eyepiece

The wide-angle eyepiece provides a larger field of view, making observation easier and facilitating the rapid and accurate design of hyperopia refractive correction.

Five-step magnification (0.4-2.5)

Total magnification range: 1.8x-19.1x
Can meet different treatment needs.

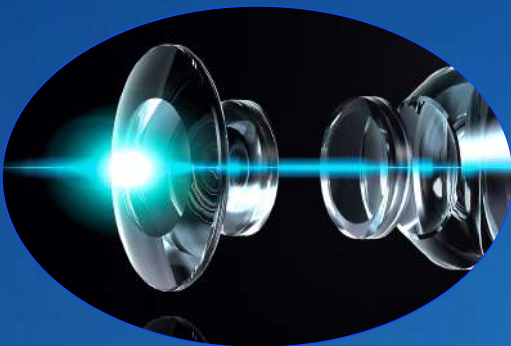
Large zoom travel, working distance 200-415mm

Covers the entire oral depth, suitable for all dental specialties, providing doctors with more flexible clinical applications.



German-imported optical glass, multi-layer coating process for achromatic 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 via advanced 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.



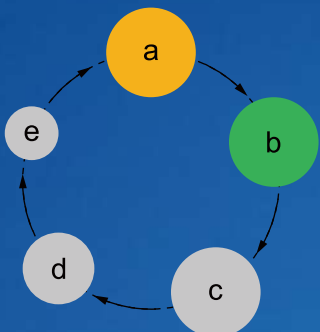
New Lighting Concept

The SOCO high-performance microscope combines excellent optical quality and comfortable operation.

The LED lighting system provides you with superior lighting effects, brightness control, and filter options, meeting your various treatment needs.



Five illumination spots are optional



a. Orange spot
b. Green spot
c. Large white spot
d. White light spot
e. Small white spot

- Integrated true-color LED medical cold light source with a color rendering index $Cr \geq 90\%$, illuminance of 65000lux.
- Fast start-up, energy-saving lifespan ≥ 60000 hours, low heat generation, suitable for long-term use.
- Equipped with built-in orange and green filters to meet the needs of different surgical scenes.



Orange light mode:
Can delay the curing
time of resin materials.



Green light mode:
Clear visibility of tiny
nerves and blood
vessels in a surgical
environment.



White light mode:
High color rendering
index, more realistic
colors.

External High-Definition Imaging System

The SCM600 builds a high-definition imaging system through an external digital camera, enabling visualized diagnosis and treatment, and making doctor-patient communication easier.

Advantages of the External HD Camera System

- a. The full HD camera system provides very clear details and high-resolution images.
- b. Photography function. You can take pictures or record videos at any time during treatment.
- c. Continuous real-time video signal streaming, viewable through terminal devices.
- d. Image data can be stored on a USB drive or transmitted to compatible management devices at any time.
- e. Full digital HDMI output port.
- f. Foot control switch, allowing you to take high-definition pictures at any time during the process.



Three-in-One Beam Splitter



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

Compatible with Canon
and Sony Cameras



SCM600 Imaging System External Camera
Interface Adaptation, Canon and Sony cameras.

Adjustable focal length



SCM600 focal length adjustment knobs can be very convenient to adjust the external. Set the focal length of the device to get the best clarity when shooting clarity.

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 foot switch can be used at any time.

Ergonomic Design of the Bracket System

A more comfortable experience, with more thoughtful details

High-quality gas springs
from Germany

Damping adjustment device
for bracket system

Damping Adjustment Device of the Bracket System:
Adjusting the Six Moving Joints of the Microscope

When you adjust the microscope bracket system to any position,
the microscope bracket system can achieve suspension.

The optimized mechanical structure allows you to conveniently and
accurately rotate the microscope to any angle you need.

0~180° Adjustable Binocular Tube



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

Interpupillary distance adjustment



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

Pendulum System



The SCM600 pendulum system allows
you to maintain a stable observation
position with the binocular tube level while
the microscope body is tilted left and right,
without changing your sitting posture.

High-quality gas springs from Germany

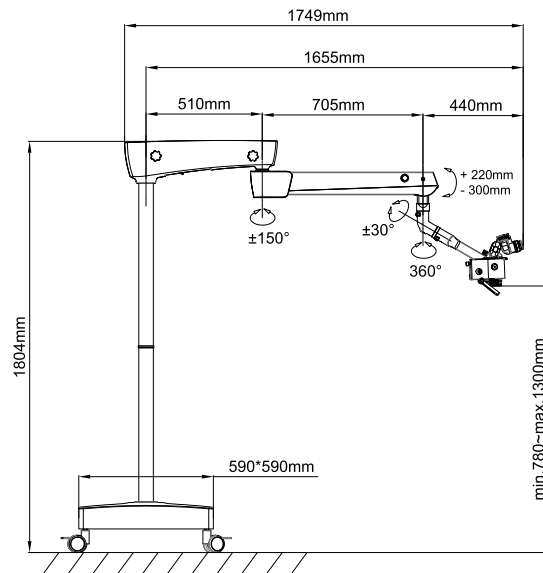


The key parts of SCM600 use German
high-quality gas springs.
This provides better mechanical effects
when moving the microscope a

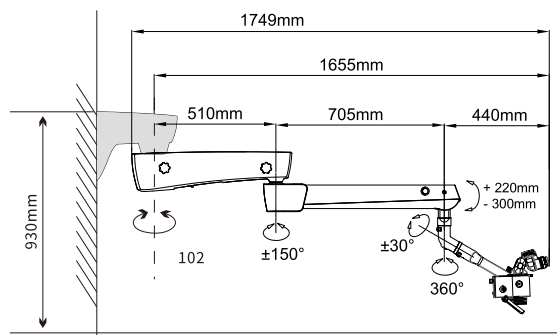
Various Mounting Bracket Diagrams of SCM600 Bracket

The bracket system can be customized with various installation methods. You can choose floor-standing, wall-mounted, or ceiling-mounted options based on the spatial structure and usage scenarios of the clinic. The simplified diagrams for various installation methods are as shown in the figure.

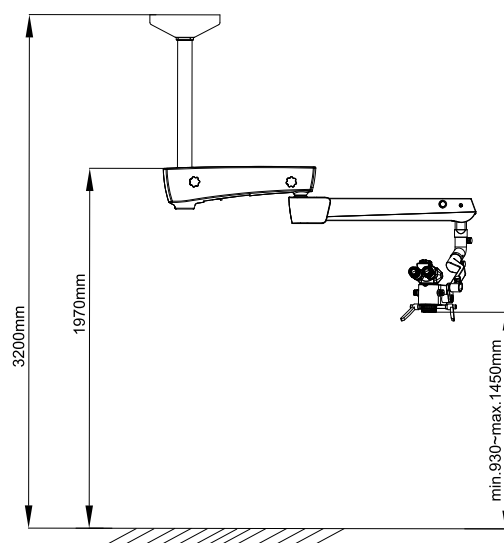
Floor-standing



Wall-mounted



Ceiling-mounted



Standard Edition

Order code:SCM 600-ST








Premium Edition

Oder Code :SCM600-UL



Optional Accessories :

<p>High-quality monitor bracket</p>  <p>Order code: ZJ-XS01</p>	<p>24-inch HD monitor</p>  <p>Order code: P2425H</p>
<p>Camera</p>  <p>Order code: A6400、EOS-800D</p>	<p>Camera direct power supply</p>  <p>Order code: FW50</p>
<p>Wireless photo system</p>	 <p>Order code: WX-01</p>

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 55-75	●	●
	High eye point 12.5x Wide-Angle Eyepiece, adjustable eye cup height, diopter compensation range ±7D		
Zoom System	Zoom objective lens with variable working distance of 200-415mm	●	●
Light ing System	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 Beamsplitter: 45° extender, pendulum system, integrated beamsplitter 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 a Vertical Travel Range of 480mm (Up/Down)		
	Maximum Arm Clear Span: 1655mm		
	Integrated Base with 3-inch silent medical casters, base size: 590×590mm		
Accessories	Monitor Bracket	○	○
	24-inch HD Monitor	○	○
	27-inch 4K UHD Monitor	○	○
	Camera (Optional Camera Brands: Canon, Sony)	○	○
	Direct Camera Power Supply	○	○
	Wireless Photography System	○	○
	Objective Lens Protective Cover	○	●
	Built-in high-definition data cable	○	●



Foshan SOCO Precision Instrument Co.,Ltd.

