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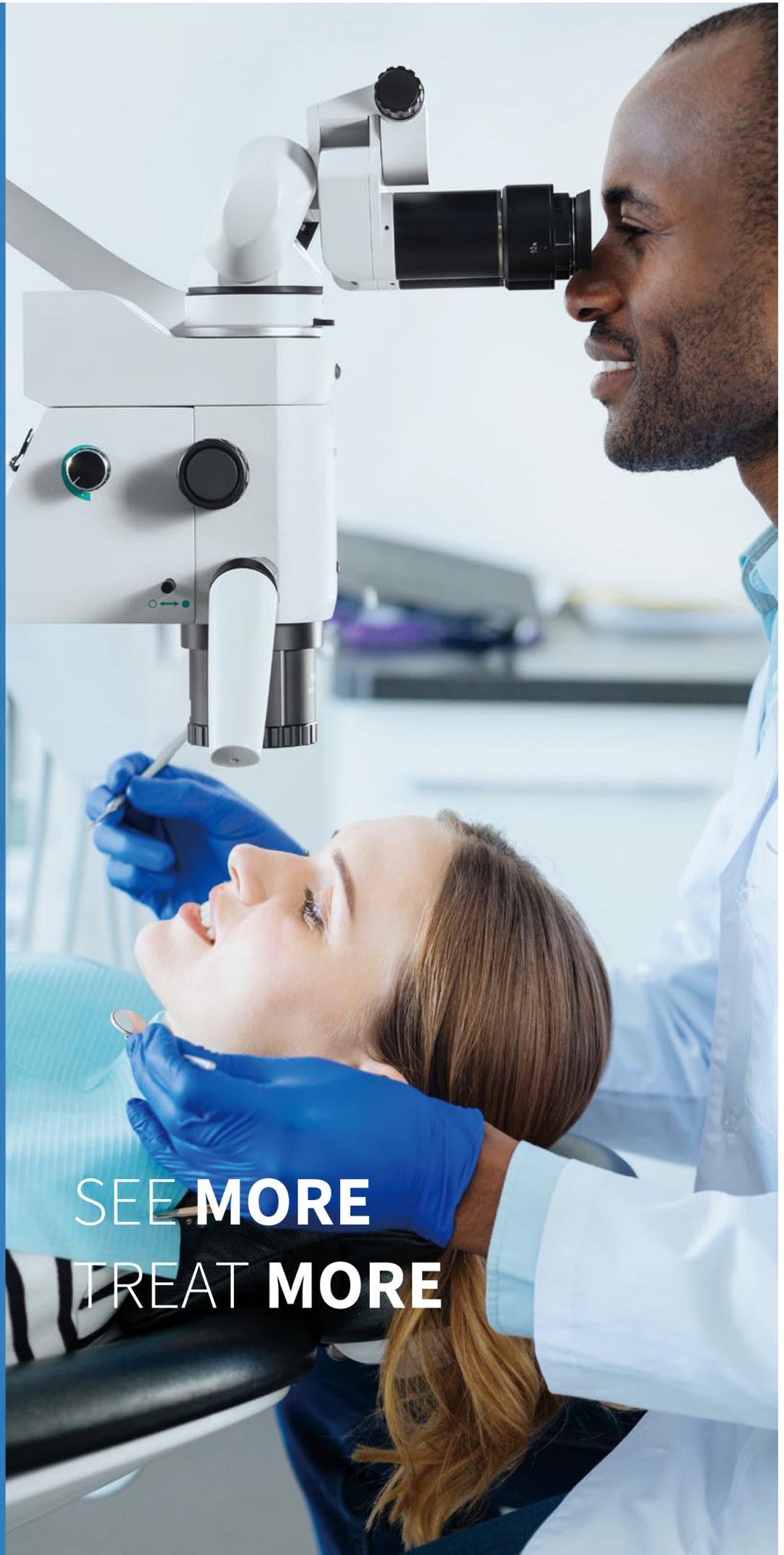
Introduction

SEMORR Medical Tech specializes in designing, manufacturing and promoting dental microscopes with HD imaging systems. Whether your specialty is in endodontics, implantology, or other disciplines in dentistry, SEMORR offers microscope solutions ideal for your practice.

Since founded, SEMORR has been deriving from its core values and stands for benefiting every procedure by helping practitioners to better diagnose and treat patients more predictably.

Semorr range of products are:

Naked Eye 3D
G4-D
TME Training Microscope



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TREAT MORE**

Semorr Surgical Microscope with HD Imaging System

Enjoy a stress-free working space like never before.



Semorr Naked Eye 3D Microscope

Naked eye 3D technology

- Human eye location and tracking system, stereo shock, visual experience

No eyepieces, easy to operate

- Reduce the threshold of microscope use

Super depth of field, zoom in again

- 4 times the traditional depth of field and magnification

Double screen and display operation system & doctor-patient communication modules

- Meet the needs of different scenarios

Adjuvant therapy inverted mirror system

- The image is turned to facilitate the surgeon to treat under the oral mirror reflection and make it easier to use

Compatible with multiple screens

- Support multi-screen configuration scheme, wireless connection

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🔍 Semorr G4-D Microscope

Excellent optics
New mechanical design



Semorr Medical Tech specializes in designing, manufacturing and promoting surgical microscope with HD imaging system in dentistry. Whether you are in endodontics, periodontics, or operative dentistry, Semorr offers microscope solutions ideal for your practice.

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CE FDA

ERGONOMIC DESIGN EASE OF USE, COMFORT



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G4-D Microscope Technical Data

Microscope System	
Eyepieces	10X/22B high eyepoint ocular help receive larger FOV
Binoculars	0~210° Inclunable extended tube
PD adjustable range	55mm-75mm
Diopter Range	±7D
Magnifications	ZOOM magnification
Zoom magnifications	3.6x-23.3x
Objective Lens	180mm-460mm
Diameter of FOV(*)	132mm-9.7mm
Illumination System	
Light source	Built-in high-reliability medical LED light source , with continuously adjustable luminance , life span over 60,000 hours
Minimum illumination intensity (f=250)	≥80000lx
Diameter of illumination spot	≥60mm
Color Filter	Yellow , green
Color temperature	5700K, closer to natural light
Support System	
Bracket type	Suspension type bracket
Big arm	570mm, 360° rotation
Spring arm	850mm, ±100° rotation, vertical displacement ±300mm
Maximum arm spread	1650mm
Base size	516mm*516mm
Surface Material	Protected with antibacterial nano silver ion coating to ensure no cross contamination
Built-in 4K camera system	
Video definition	3840×2160 (4K, switchable to 2.7K, 1440P, 1080P, 960P and 720P)
Video frame rate	30fps@4k
Storage medium	External TF flash disk 128G TF
Screencasting Program	Play back video and picture files online
Shooting support mode	JPG\RAW (image format), MP4 (video)
4k pedal	Control 4K video system shooting
Control mode	Wireless remote control: mobile phone, tablet and other terminals Buttons on handle

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PRODUCT BENEFIT

1 New optical design Extreme visual experience

-Sharpen optical imaging
Effectively reduce beam splitting, color separation, filtering, polarization, and thus reducing glare.

-Improve imaging clarity
The new optimized optical path design enhances the ability to collect light within the working distance, thereby increasing the resolution.

-Enhance color rendition
Medical grade LED light source is used to increase the percentage of luminous flux to its incident luminous flux and improve light transmittance.



2 Built-in 4K camera for higher-quality imaging

Built-in 4K imaging system, based on SONY's high-end image sensor, it supports 4K video recording, which is much clearer than traditional high-definition imaging systems.



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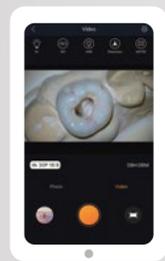
3 Era of IOT, share in real-time

More flexible control modes:

- Mobile phone
- Tablet computer
- Buttons on handle



Bon Image



Use your mobile phone or tablet to take pictures and videos of cases, which is helpful for

- Doctor-patient communication
- Academic communication
- Remote medical treatment



**4 Unobstructed field of view
Less repositioning during surgery**

FOV: 132mm to 9.7mm field of view diameter



**5 Larger operating space,
less microscope movements**

Vario focus objective lens
Range: 180mm-460mm



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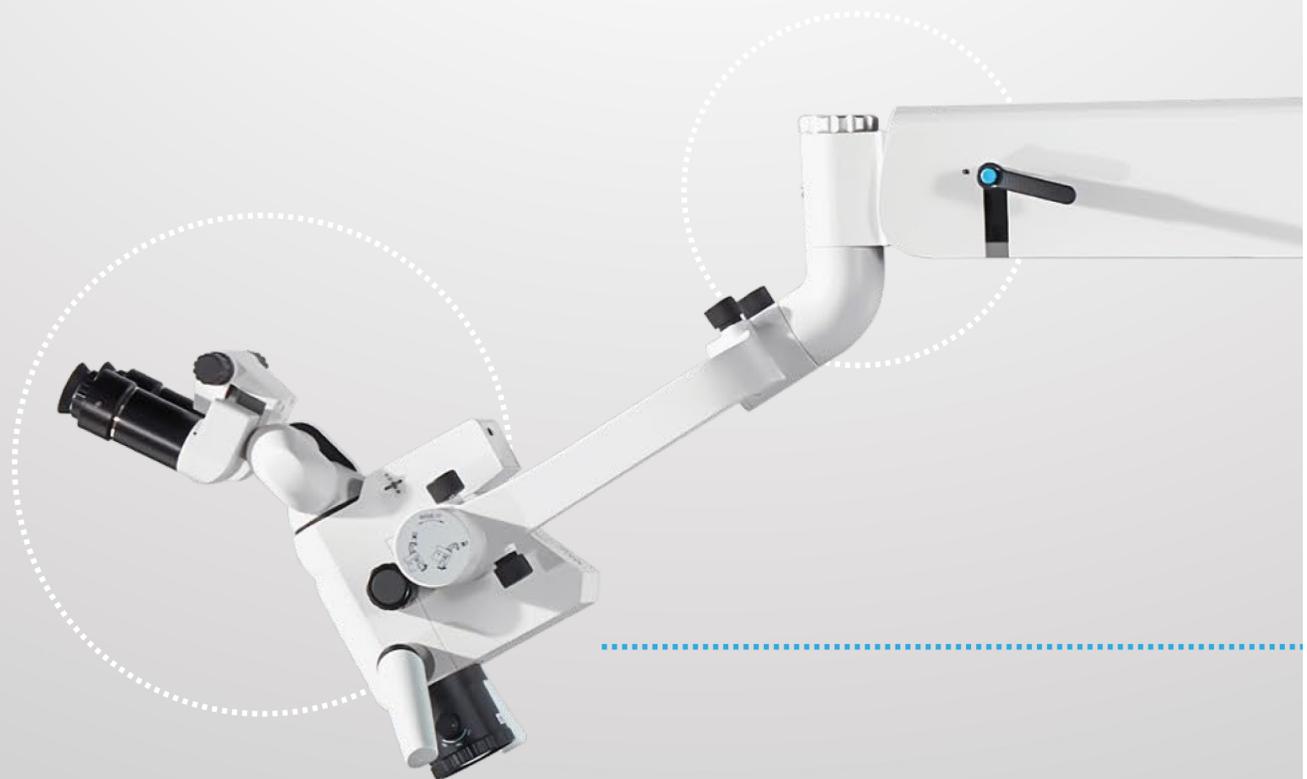
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⑥ One-handed operation Light and smooth

The torque and dampened can be adjusted according to the operating habits to maintain the balance of the microscope.
The angle and position of the microscope head can be adjusted with a light touch.

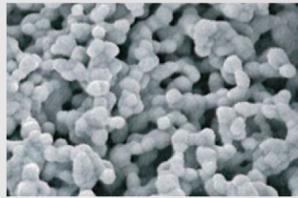
Three dampened balance arm design



FLEXIBLE MECHANISM

7 Safer and cleaner clinic environment

The permanent nano-silver ion coating additionally protects the overall body of the microscope, which can further maintain the cleanliness of the microscope surface, reduce harmful pathogens and reduce the risk of cross-contamination, and adhere to strict disinfection protocols in clinics.



1650mm

8 Suits different clinical settings

- Super long reach **1,650mm**
- More installation options
- Suitable for various clinic sizes
- More operating space for assistants

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G4-D offers the most reliable optical aid support for even the most demanding disciplines:

Endodontics



Oral examination



Aesthetic dentistry



Periodontics



Implantology



Images courtesy of:

¹Dr. Nuno Pinto

²Dr. Ming Xue

³Dr. Hongyuan Wen

⁴Dr. Jianhua Liu

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IMMERSIVE AND VISIBLE

📌 Semorr Naked Eye 3D Microscope

- 3D images without eyepiece, easy to operate
- 57mm depth of field under 20x magnification
- Academic and patient communication schemes with 3D images



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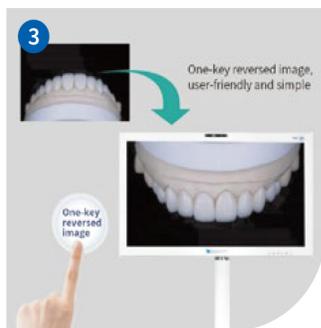
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PRODUCT FEATURES



1 Large vario focus objective lens 180mm-460mm

- 4x depth of field and magnifying power compared to traditional microscopes.

2 Dual-screen dual-display surgery system

- Multiple screens can satisfy clinical, teaching and assistant medical solutions.
- Maintain surgeon's 3D display during operation, while the 2D/3D screens are used for teaching purposes as well as exchange & communication between dentist and assistant.
- Externally connected to glasses-free 3D screen, used for dentist-patient communication.

3 Convenient reverse telescope system

- Optical signal is converted into digital signal and 3D images are reversed to turn mandibular treatment to maxillary treatment and vice versa to suit the operator's most preferred view.

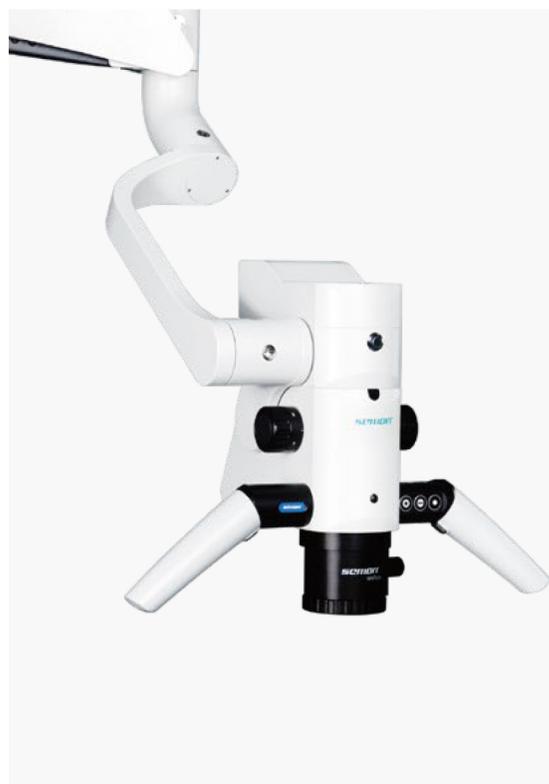
4 Human eye location and tracking technology

- Automatically identifies objects within 3 seconds and tracks images without delaying and joggle, 3840*2160 HD 3D imaging system produces 3D images clearly and naturally.
- Lower requirements for operator's position and posture as optimal 3D images can be acquired adaptively.



For patients

- Give patients a clearer understanding of oral condition, improve dentist-patient communication and increase revenue.
- Minimizes misunderstandings, strengthens dentist's rapport with patients and reduces possible malpractice incidents.
- Ultra large magnification and depth of field allows patient to better comprehend treatment procedures, thereby minimizing post-op complications thus improving the success of the treatment.



For operators

- No change necessary in operation habits, eliminates interpupillary distance adjustment and sitting posture requirements in traditional microscopes and greatly reduces learn curve.
- 4 times magnification and depth of field compared to that of traditional microscopes, higher accuracy and operating precision .
- No requirements for position and constraints of dual objective lens, promoting effective dentist-patient communication.
- Multi-angle adjustment of lens and flexible operation enable easy observation of different tooth positions.
- No long-time observation under eyepiece, lessens strains on operator's eyes and back, reducing chairtime and improving productivity.

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