

Better Dentistry, Better Life

Product
Catalog
2026



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Bondent Group is a platform that provides "integrated services" for the dental profession. From education and training of doctors, introduction of foreign cutting-edge technology, to domestic independent research, development and manufacturing, the company is committed to creating a new and healthy dental-medical ecosystem through seamless integration of physical and virtual presence, thereby, improving the quality of personal and professional lives of dentists around the world.

📌 We have 8 subsidiaries, 15 offices and more than 1000 employees globally. Be tolerant to diversity, tolerance is a virtue. Bondent is an open and resource-converging platform, has won a good reputation in the industry with its business philosophy of "inclusive of all rivers, compatibility and inclusiveness"

Today, Bondent's product portfolio consists of dental equipment: Semor microscope, CBCT & dental unit as well as consumables like UDG endo files, iEZ implants and Dr. Kelier Invisible Aligner.



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.

Bondent Microscope

G4 Pro
G4
DOM3000D
TME
Naked 3D



SEE **MORE**
TREAT **MORE**

DOM 4000E (G4 Pro) Microscope

👉 Designed for demanding treatment



PRECISE, FLEXIBLE, COMFORTABLE, AND

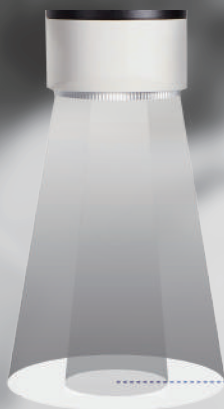
One-hand operation

Large zoom objective, more view of operation field

The WD200-550MM zoom objective lens has a large and variable range of 350mm, which fully meets the needs of different diagnosis and treatment, so that the operator can easily and quickly switch the focal plane during treatment, and simultaneously allowing a clearer view.

Electronic focus

- Electronic focus assists you during surgery for increased efficiency and effectiveness
- Also makes operation easier and more convenient



Spot size continuously adjustable

Spot size can be adjusted as needed to make the treatment more focused and less disturbed.

350mm

AND EFFICIENT



3-part electromagnetic lock-in position

Electromagnetic brake allows precise positioning of microscope, allowing it to stop at any desired position.

Multi-functional control handle

Ergonomic design for easy control of lens positioning, focusing, brightness adjustments, photography and recording functions.

IMAGING

DENTAL UNIT

MICROSCOPE

ENDO

ENDO DEVICES

ACADEMY

BONCARE

PRECISION EL



Ultra-quality optics using German technology during multi-layer coating process.

New optical coating process and apochromatic optical structure



Unobstructed field of view Less repositioning during surgery

FOV: 150mm to 21mm field of view diameter

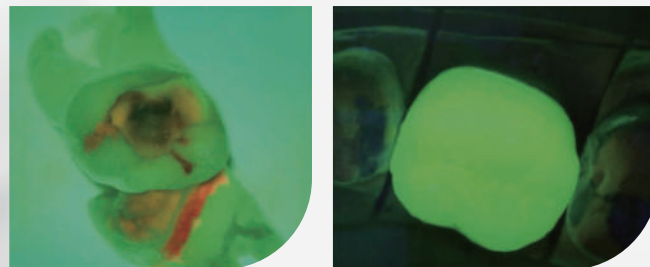


IN VISION, EXCEPTIONAL CLARITY ELEVATING OPTICAL EXCELLENCE



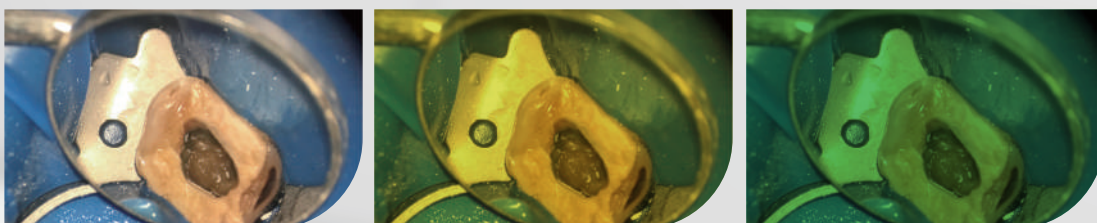
🔍 Caries detection

Help you identify caries margins to allow preservation of as much healthy tooth substance as possible



🔍 Integrated Yellow & Green Filters

- Yellow filter-To prevent the resin material from curing too quickly during use
- Thereby extending the operating time
- Orange filter-Observe delicate neurovascular vessels within the surgical environment



4K IMAGE, BEYOND IMAGINATION



📷 Built-in 4K ultra HD camera system

Built-in upgraded 4K image system, based on SONY*'s high-end image sensor, supports 4K video recording, and the maximum resolution of static images is 12 million pixels, which is 4 times that of the traditional 1080P high-definition image system.

High-definition images record every moment of the doctor's fine operation, which is more conducive to the dissemination of knowledge, doctor-patient communication, and can also improve the professional reputation of doctors.

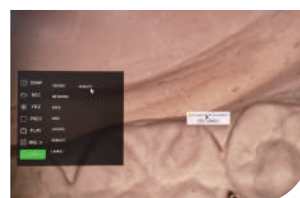
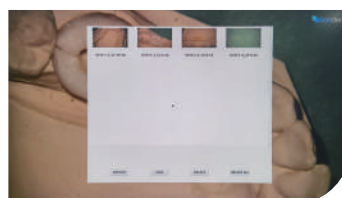
1 More flexible control modes

- Wireless Bluetooth footpedal
- Wireless mouse
- Button on handle



2 Computer System Display Upgrade

- Various personalized settings
- The fine and digital operation function of the camera can measure and compare pre-op and post-op pictures.



3 Powerful imaging features are helpful for

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

*SONY is a registered trademark of Sony Group Corporation

DOM 4000E (G4 Pro) Microscope Technical Data

Microscope System	
Eyepieces	10/22B high eyepoint ocular help receive larger FOV
Binoculars	0~210° Inclinal extended tube
PD adjustable range	55mm-75mm
Diopter Range	±7
Magnifications	ZOOM magnification
Zoom magnifications	3.6x-23.3x
Objective Lens	200mm-550mm Auto-focusing
Diameter of FOV	150mm- 21mm
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
Light spot size	light spot size adjustable
Color temperature	5700K, closer to natural light
Caries mode	Caries detection
Support System	
Electromagnetic lock	Three-joint electromagnetic system
Bracket type	Suspension-type bracket
Big arm	570mm, ±165° rotation
Spring arm	850mm, ±100° rotation, vertical movement ±300mm
Maximum arm spread	1750mm
Base size	580mm*580mm
Surface Material	Protected with antibacterial nano silver-ion coating to ensure no cross contamination
Built-in 4K camera system	
Video definition	3840x2160 (4K, switchable to 2.7K, 1440P, 1080P, 960P and 720P)
Video frame rate	60fps@4k
Storage medium	USB Drive (128G)
Screencasting Program	Playback video and picture files online
Shooting support mode	JPG (image format), MP4 (video)
Foot pedal	Take photo and video
Control mode	Button, mouse and foot pedal
Electrical Specifications	
Power Supply	220V
Frequency	50Hz
Input Power	120VA
Fuses	T1.OAL 250V(two pieces)



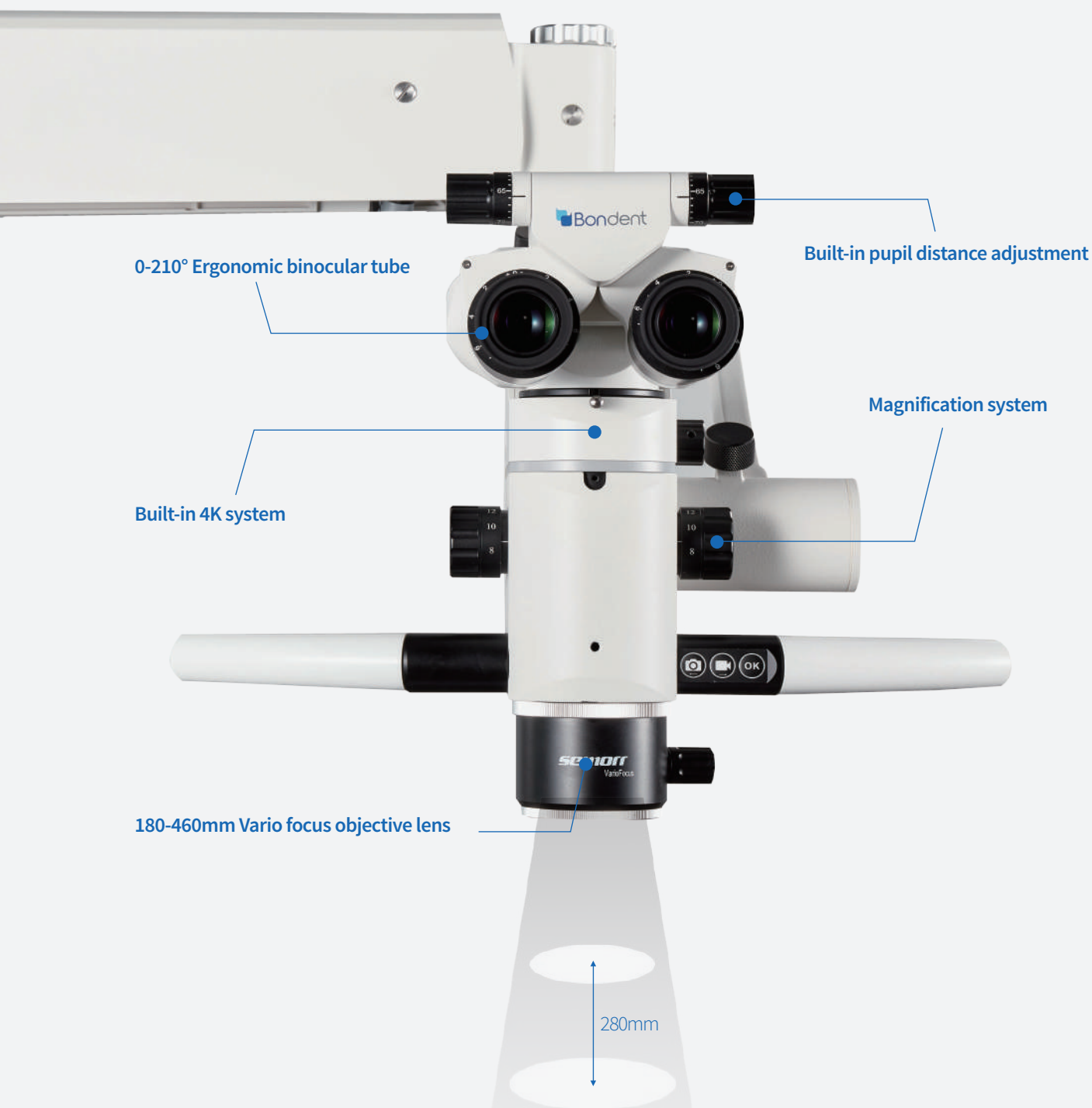
DOM 4000D (G4) Microscope

📌 Excellent optics New mechanical design



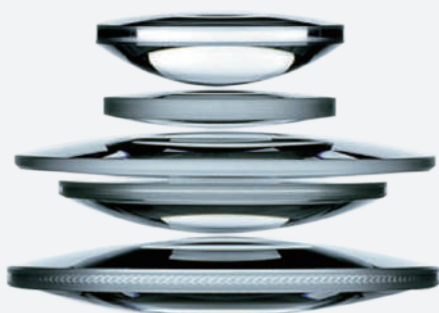
Optimized optics allow you to visualize details and fine structures, therefore enhancing the quality of your examination and treatment in all dental disciplines. They provide you with clear visibility of regions that are otherwise difficult to view.

ERGONOMIC DESIGN EASE OF USE, COMFORT



PIONEER TECHNOLOGY, LEADING ADVANTAGEOUS PRODUCTS

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

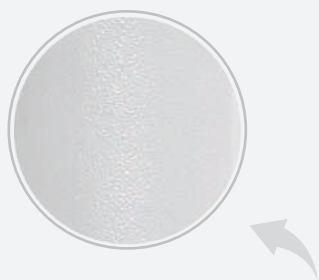
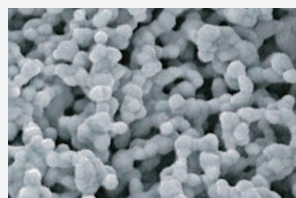
Medical grade LED light source is used to increase the percentage of luminous flux to its incident luminous flux and improve light transmittance.

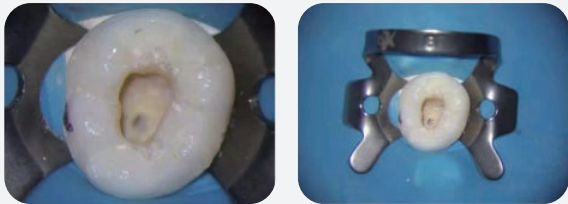
2 Built-in 4K camera for higher-quality imaging

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.

3 Safer and cleaner clinic environment

The permanent nano-silver ion coating additionally protects the overall body of the microscope.





④ Unobstructed field of view Less repositioning during surgery

FOV: 150mm to 21mm field of view diameter



⑤ Larger operating space, less microscope movements

Vario focus objective lens
Range: 180mm-460mm

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



DOM 4000D (G4) Microscope Technical Data

Microscope System	
Eyepieces	10/22B high eyepoint ocular help receive larger FOV
Binoculars	0~210° Inclinal 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(*)	150mm- 21mm
Pendulum (optional)	±35°
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
Light spot size	light spot size adjustable
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 movement ±300mm
Maximum arm spread	1750mm
Base size	580mm*580mm
Surface Material	Protected with antibacterial nano silver-ion coating to ensure no cross contamination
Built-in 4K camera system	
Video definition	3840x2160 (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 (image format), MP4 (video)
4k pedal	Control 4K video system shooting
Control mode	Wireless remote control: mouse and foot pedal

SEI110rr

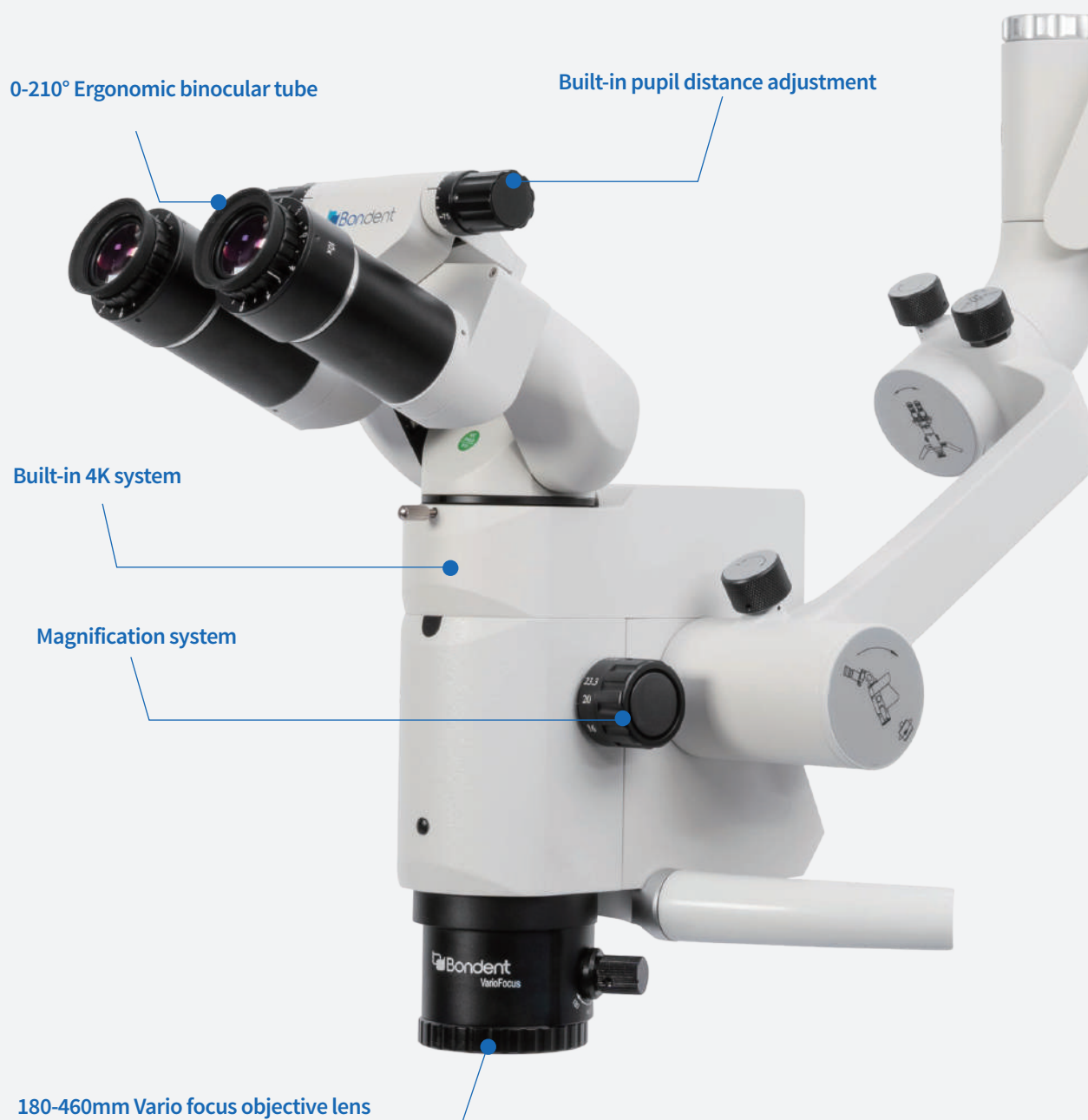
DOM 3000D Pro Microscope

Excellent Optics

DOM 3000 Pro from Semorr, the most frequently sold Semorr dental microscope world-wide, is the trusted choice among dentists. It makes details and fine structures clearly visible. It enables you to better visualize the regions of need and consistently provide your patients with high-quality examinations and treatments.



ERGONOMIC DESIGN EASE OF USE, COMFORT



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.



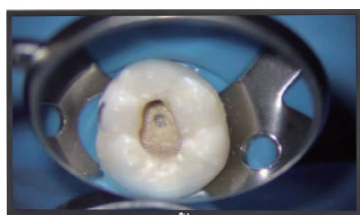
3 Unobstructed field of view Less repositioning during surgery

FOV: 132mm to 9.7mm field of view diameter



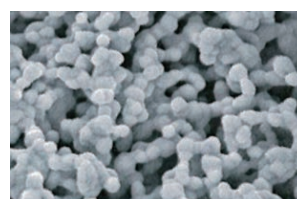
4 Larger operating space, less microscope movements

Vario focus objective lens
Range: 180mm-460mm



5 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.



DOM 3000D Pro Microscope Technical Data

Microscope System	
Eyepieces	10/22B high eyepoint ocular help receive larger FOV
Binoculars	0~210° Inclinal extended tube
PD adjustable range	55mm-75mm
Diopter Range	±7
Magnifications	ZOOM magnification
Zoom magnifications	3.6x-23.3x
Objective Lens	180mm-460mm
Diameter of FOV(*)	132mm- 9.7mm
Pendulum (optional)	±35°
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	460mm, 360° rotation
Spring arm	700mm, ±160° rotation, vertical displacement ±315mm
Maximum arm spread	1390mm
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	3840x2160 (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 (image format), MP4 (video)
4k pedal	Control 4K video system shooting
Control mode	Wireless remote control: mouse and foot pedal



TME Training Microscope

- Magnifications: Zoom Manually
- Eyepieces: 12.5x/18B (Aperture: 18mm)
- Binoculars: 0~210°inclinable
- Objective lens: f=200mm-400mm
- Build-in 4k camera system
- Illumination: LED
- Stand system: Tabletop, Table clip mount



TME Training Microscope Technical Data

Microscope System	
Eyepieces	10/22B high eyepoint ocular help receive larger FOV
Binoculars	0~210° Inclinal extended tube
PD adjustable range	55mm-75mm
Diopter Range	±7D
Magnifications	ZOOM magnification
Zoom magnifications	3.6x-23.3x
Objective Lens	200mm-400mm
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	desktoptype (option Clip type)
1st cross arm	Tuning radius: 300mm, rotation angle: 360°
2nd cross arm	Tuning radius: 700mm, rotation angle: +160°, vertical movement: +315mm
Maximum arm spread	1230mm
Base size	500mm*400mm
Net weight	35kg
Built-in 4K camera system	
Video definition	3840x2160 (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 (image format), MP4 (video)
4k pedal	Control 4K video system shooting
Control mode	Wireless remote control: mouse and foot pedal



NV2000A (Naked Eye 3D) Microscope

📌 Semorr Surgical Microscope with HD Imaging System

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

semorr

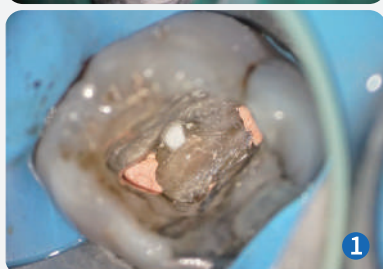
NV2000A (Naked Eye 3D) Microscope Technical Data

Optical system		
Eyepieces: large field of view with 22mm field stop and high eyepoint ocular help receive larger FOV		
Binoculars: 0~210° inclinable extended tube		
Zoom magnifications(F250mm):3.6X-23.3X		
PD adjustable range:55mm~75mm		
Diopter range: ±7		
Objective lens: WD180-460mm		
Diameter of FOV:9.7mm-132mm		
Zoom factor: 0.45x~2.91x		
Optical system		
Light source: Built-in high-reliability medical LED light source, with continuously adjustable luminance.		
Minimum illuminance of object surface (f=250mm): >50,000lx		
Spot diameter: ≥60mm		
Color temperature: -5500K, closer to natural light and colors		
Color rendering index (Ra):≥85		
Color filter: Two or more types of filter modes: Orange, which can prevent premature solidification of resin material, green		
Support System		
Maxmum ar spread: 1390mm,tuming radius of cross arm: 460mm, 360° rotation, spring arm: 700mm, ±100° rotation, vertical displacement ±315mm		
Base size: 516mmx516mm, which reduces consulting room space occupancy		
The support is protected with antibacterial nano silver ion coating to ensure no cross contamination		
Built-in UHD camera system		
Video definition: 3840x2160 (4K, switchable to 2.7K, 1440P, 1080P, 960P and 720P)		
Video frame rate: 25fps@4K		
Storage medium: External USB flash disk		
Playback function: Timely play back videos and picture files through camera module		
3D image module		
Video definition: 4K, 1080P, 960P, 720P		
Frame rate: 60fps@1080P (recommended), available for 30fps@4K output		
Output channel: Two-way		
Output interface: Two-way micro HDMI		
Image sensor: Sony high-end image sensor (x2)		
Glasses-free 3D surgical intelligent display system		
Image performance:		
01. Display screen size: 28in	07. Aspect ratio: 16:9	13. HDMI input: HDMI 2.0x2/available for 4K@60Hz
02. Effective image size: 648.9mm (H) *369.3mm (V)	08. Color depth: 10bit	
03. Screen definition: 3840*2160	09. Color: Appox 1.073 billion colors	
04. Pixel pitch: 0.16*0.16mm	10. Color gamut: 72%NTSC	
05. Contrast ratio: 1000:1 (typical)	11. Backlight: LED	
06. Luminance: 3000cd/m2 (typical)	12. Visual angle: 85°/85°/80°/80° (typical)	
Glasses-free 3D parameters:		
01. Input voltage: 220V 50Hz	04. Operating temperature: 0-35°C	07. Storage humidity: 10%-90%, no condensation
02. Maximum power: ≤86W	05. Operating humidity: 20%-90%, no condensation	
03. Standby power: ≤1W	06. Storage temperature) -20-60°C	
Glasses-free 3D parameters:		
01. Input voltage: 220V 50Hz	04. Operating temperature: 0-35°C	07. Storage humidity: 10%-90%, no condensation
02. Maximum power: ≤86W	05. Operating humidity: 20%-90%, no condensation	
03. Standby power: ≤1W	06. Storage temperature) -20-60°C	



Bondent Microscope offers the most reliable optical aid support for even the most demanding disciplines:

Endodontics



1

Oral examination



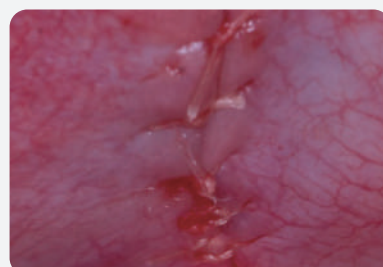
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Aesthetic dentistry



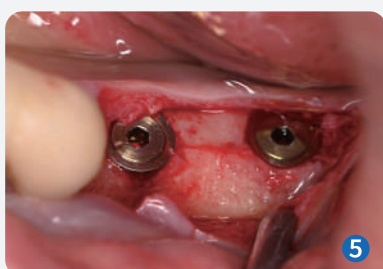
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Periodontics



4

Implantology



5

Images courtesy of:

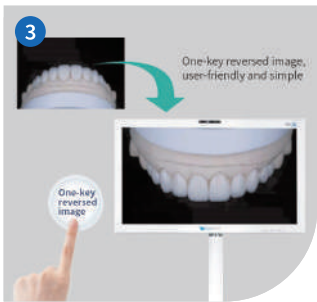
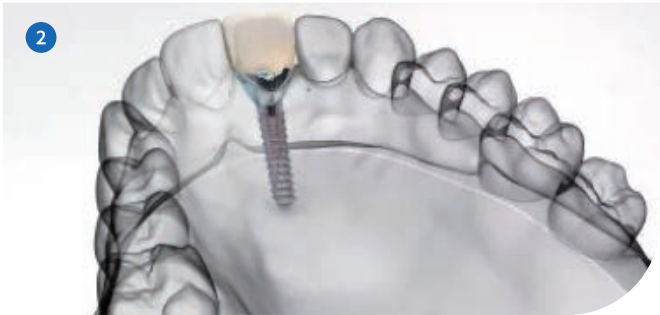
¹Dr. Nuno Pinto

²Dr. Ming Xue

³Dr. Hongyuan Wen

⁴Dr. Jianhua Liu

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 minimizes post-op complications thus improving the success of the treatment.



IMAGING

DENTAL UNIT

MICROSCOPE

ENDO

ENDO DEVICES

ACADEMY

BONCARE

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.



BONDENT ACADEMY

📌 Bondent Academy is a dental training platform specially built by bondent group. By providing practical and cutting-edge international technical and management training for dentists, it helps to promote the professional development of dentists.

Bondent Academy supports the international Continue Educations, University Grant Program and Global OPLs Network.



Invisible Orthodontics



Periodontal Implant



Micro Endodontic



General Laser



Manage Operations



Imaging Equipment

IMAGING

DENTAL UNIT

MICROSCOPE

ENDO

ENDO DEVICES

ACADEMY

BONCARE



Boncare, born to care,
ready to serve.

Boncare, Bondent's after-sales service sub-brand. Guided by the philosophy **"Boncare, born to care!"**, it is dedicated to delivering fast, reliable, and systematic support, ensuring dental professionals worldwide can practice with confidence.

📌 Boncare Advantages



24/7 Fast & Reliable Response

Rapid Response to Minimize Wait Times and Reduce Downtime.



Life-Cycle Care, End to End

Guiding You Every Step of the Way:
From Vision to Value.



Global Reach, Local Support

Providing Localized Service Worldwide.
Where Challenges Grow, We Flow.

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