

Microscope

Beyond Imagination



G4 PRO Microscope

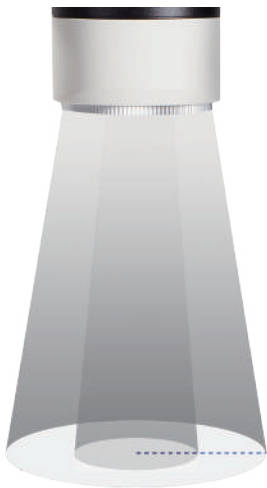
One-hand operation

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.

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.

Precise, Flexible,
Comfortable,
and Efficient





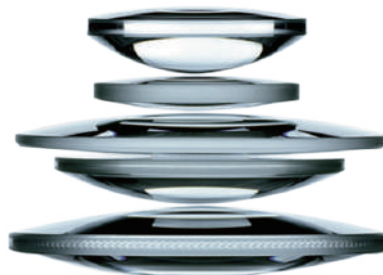
Bondent

0-210°

Precision Vision: Elevating Vision with Exceptional Clarity and Optical Excellence

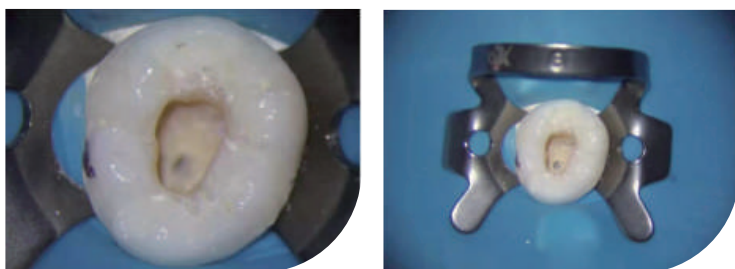
Ultra-quality optics using German technology during multi-layer coating process.

New optical coating process and apochromatic optical structure



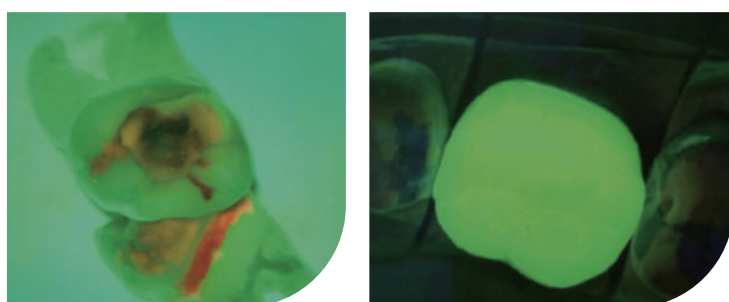
**Unobstructed field of view
Less repositioning during surgery**

FOV: **132mm to 9.7mm** field of view diameter



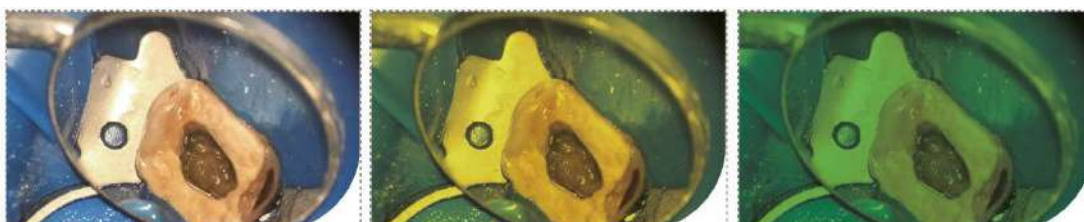
Fluorescence Mode

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



Integrated Orange & Green Filters

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



👉 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 conducive to the dissemination of knowledge, doctor-patient communication, and can also improve the professional reputation of doctors.

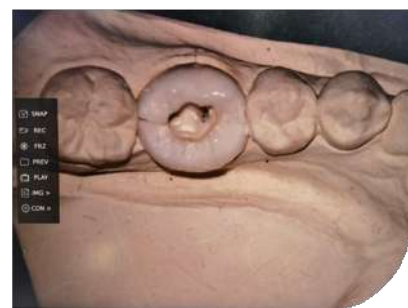
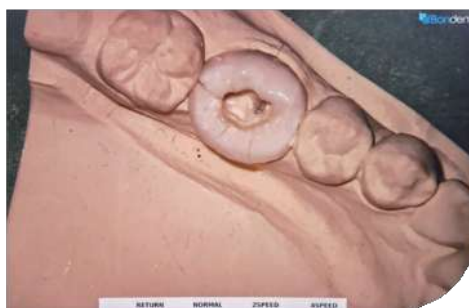
① More flexible control methods

- Wireless Bluetooth pedal
- Wireless mouse
- Button on the handle



② Computer system screen update

- Multiple personalized settings.
- Digital precision function that allows for the measurement and comparison of pre- and post-operative images.



③ Powerful imaging features are useful for

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

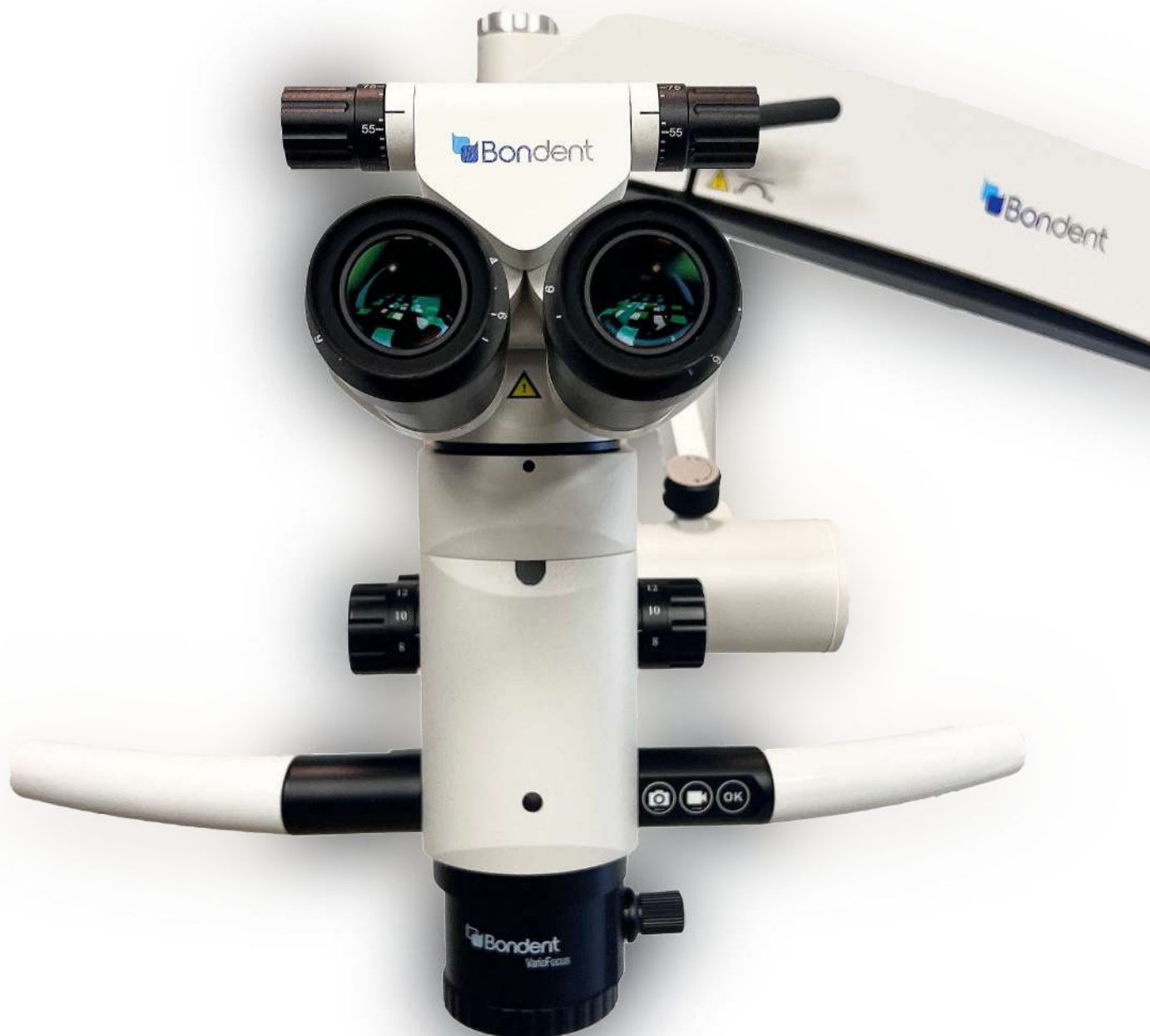
*SONY is a registered trademark of Sony Group Corporation

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(*)	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)	≥60000lx
Diameter of illumination spot	≥60mm
Color Filter	Orange Green
Light spot size	light spot size adjustable
Color temperature	5000K, closer to natural light
Fluorescence function	Fluorescence mode
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	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	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/RAW (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 3000D PRO MICROSCOPIO

The DOM 3000D PRO, Bondent's best-selling dental microscope, is the choice dentists trust. It allows you to better visualize regions of need and consistently provide your patients with high-quality examinations and treatments.



Product Benefit

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.



Built-in 4K camera

- ✓ 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.

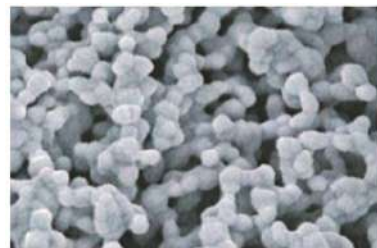
Unobstructed field of view

Less repositioning during surgery
FOV: 132mm to 9.7mm field of view diameter



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.



Larger operating space, less microscope movements

Vario focus objective lens
Range: 180mm-460mm

DOM3000D 4K Pro Microscope Technical Data

Microscope System

Eyepieces	10/22B high eyepoint ocular help receive larger FOV
Binoculars	0~210°Inclinable 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

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	Orange, 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\RAW (image format), MP4 (video)
4k pedal	Control 4K video system shooting
Control mode	Wireless remote control: mouse and foot pedal

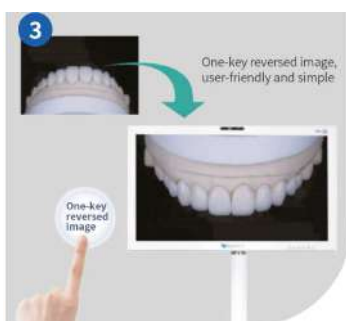
NAKED EYE 3D MICROSCOPIO

Advanced 3D technology: precise localization and tracking system, optimization of depth of field, dynamic zoom and improved magnification for detailed and accurate visualization.

Lens-free design for intuitive operation: double safety glass screen, touch operating system and communication modules with optimized function keys.



MICROSCOPE FEATURES



- **Wide-angle lens (180 mm - 460 mm):**
Extends depth of field up to 4x magnification, offering greater precision and power compared to traditional microscopes.

- **Dual-screen surgical system with simultaneous display:**
Provides advanced solutions for clinical, educational, and medical assistance applications.

- **High-precision 3D display for real-time surgery:**
While 2D/3D displays are used for training, knowledge sharing, and effective communication between dentist and assistant.

- **Externally coupled to a glasses-free 3D display:**
Optimized to improve treatment interaction and understanding between dentist and patient.

- **Efficient inverse telescope system:**

Converts the optical signal into digital, allowing the inversion of 3D images to alternate between mandibular and maxillary treatments, adapting to the operator's preferred perspective.

- **Technology for locating and monitoring the human eye:**

Automatically detects objects within 3 seconds with smooth and uninterrupted tracking. The 3D HD (3840x2160) imaging system ensures clear and realistic visualization. Less demanding on the operator's position and posture, thanks to automatic adaptation for optimal 3D imaging.

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°inclinalable 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		
Illumination 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		
Maximum arm spread: 1390mm; turning radius of cross arm: 460mm, 360° rotation; spring arm: 700mm, ±160° rotation, vertical displacement ±315mm;		
Base size: 516mm×516mm, 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: 3840×2160 (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 2.0×2/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℃	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℃	
Electrical parameters:		
01. View distance: 60cm-130cm	04. Grating technique: Lenticular grating	
02. Optimal view angle: 50° (horizontal)	05. Mask identification: Available (blue, white and green)	
03. Human eye tracking: Available/Available for mask and surgical cap	06. Mirror image function: Available (one-key switch between upper and lower jaws)	

TME TRAINING MICROSCOPIO

- 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	10X/22B high eyepoint ocular help receive larger FOV
Binoculars	0~210° Inclinalable 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	Orange, green
Color temperature	5700K, closer to natural light

Support System

Bracket type	desktop type (option Clip type)
1st cross arm	Turning radius: 300mm, rotation angle: 360°
2nd cross arm	Turning radius: 700mm, rotation angle: ±160°, vertical movement: ±315mm
Maximum arm spread	1230mm
Base size	500mm x 400mm
Net weight	35kg

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: mouse and foot pedal



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