

## M320 Dental Microscope With Integrated 4K Camera

Inspired by and  
developed for dentists



From Eye to Insight

## M320 Dental Microscope With Integrated 4K Camera

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Enjoy having **better visualization** during surgical and non-surgical dental procedures, benefit from increased **physical comfort**, and **show your expertise** to peers and patients **with astounding digital images**.

### OPTIMIZE YOUR OUTCOMES

Achieve better treatment results working with a surgical microscope that is optimized for the challenges in micro-dentistry.

### ENHANCE YOUR COMFORT

Benefit from the ergonomic microscope design to enhance your physical comfort and thus, increase efficiency.

### SHARE YOUR EXPERTISE

Record your procedures digitally in impressive quality in 4K to improve communication with patients and peers.

# The M320 Dental Microscope at a Glance

Built in balance-arm  
for front and back

Stable metal floor s

Wall, or ceiling m  
options also availa

Small base 608 x 608



Range of  
binocular tubes

ral  
angles



Designed in Switzerland



Recording of 4K  
images and video  
to SD card or to PC  
via  
USB connection



5-Step  
magnification  
changer for a min.  
of workflow  
interruptions



Integrated orange  
filter prevents  
premature curing of  
composites

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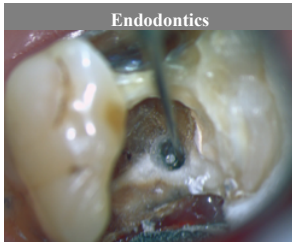
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## Optimize Your Outcomes: See What You Need to See

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### Endodontics



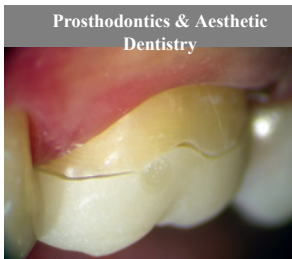
- › Locate additional root canals easily
- › View complex pulp structures accurately
- › Manage obstruction or perforation in root canals precisely
- › Fill roots in a controlled way
- › Use microsurgical mirrors to make even deep cavities in the molar region visible

### Restorative Dentistry



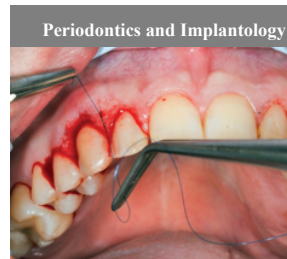
- › Insert restorative materials precisely and finish accurately
- › Diagnose caries lesions at an earlier stage
- › Differentiate clearly between healthy and carious tissue under gingiva
- › Identify cracks in the dentin, enamel, and even in fillings

### Prosthodontics & Aesthetic Dentistry



- › Prepare teeth for crowns or bridgeworks with high precision
- › Avoid adjoining tissues such as gums or mucous membranes
- › Check impressions thoroughly for accurate preparation of prosthetics
- › Evaluate the fit and bonding of crowns or bridges accurately

### Periodontics and Implantology



- › Inspect the surgical site in detail
- › Control flaps easily
- › Manage soft and bone tissues in a controlled manner
- › Suture the soft tissues accurately for low tissue trauma
- › Use micro-suturing techniques for primary wound closure more easily to achieve better clinical outcomes

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### Smooth workflow

- › Maintain efficiency and concentration by switching focus levels quickly and easily
- › Increase accuracy and precision thanks the powerful visualization capabilities of the M320 surgical optics
- › Document your procedures instantly in ultra-high resolution with just the touch of a button
- › Minimize workflow interruption with the 5-step magnification changer

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## Enhance Your Comfort



Hunched working position with surgical loupes



Upright posture achieved using the M320 dental microscope

Benefit from the ergonomic microscope design to enhance your physical comfort and thus, increase efficiency.

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### Stay focused

Maintain concentration and efficiency while retaining an ergonomic posture. Simply adjust the working distance within a range of 200 mm to 300 mm by micro-movements of the adjustment knob.

- › Interruption to workflow is decreased so you maintain efficiency and concentration
- › Movement is reduced so you can retain a comfortable working position
- › The adjustment knob can be positioned according to the left, right or centrally as preferred

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### Easier to use than you think

Robust, yet extremely light and easy to maneuver. Quick and accurate positioning and a quick stabilization ensure workflow interruptions are kept to a minimum so that you can work efficiently.

- › Integrated cables for maneuverability and long-life
- › Robust yet easily adjustable for accurate positioning
- › Vibration-minimizing bearings for fast stabilization
- › The ErgonOptic Dent allows you to smoothly rotate the 180° binoculars into the required position

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# Enhance Your Comfort With Ergonomic Accessories

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## Physical comfort increased efficiency



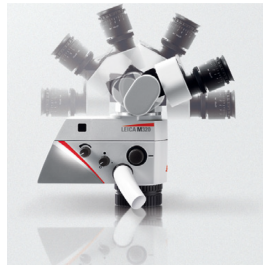
### Binocular tube with 45° angle

Work in comfortable standard position with a fixed 45° viewing angle



### ErgoWedge for the 45° binoculars

Enjoy working more ergonomically with a tiltable viewing angle of 5–25°



### Binocular tube for 180° movement

Enhance comfort and flexibility through an even wider range of viewing angles



### ErgonOptic Dent accessory

Extends the reach of the microscope and allows to swivel the optics carrier to any angle



### Ultra-low binoculars for an upright posture

Work in a more compact position with your body and arms closer to the operating field

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# Share Your Expertise With Peers and Patients

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DOCUMENT IN  
IMPRESSIVE  
IMAGE QUALITY



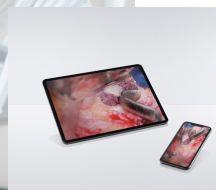
## Flexible image acquisition & viewing

- › Record videos or images via remote control, microscope hard keys, App
- › Share images on a 4K monitor to illustrate the diagnosis and explain possible treatment options



## Easy image transfer and storage

- › Store images and video in 4K on an SD card for easy transfer to a PC
- › Transfer images directly to PC via USB connection



## Wireless image streaming & transfer via Leica View App

- › Image streaming from the M320 microscope to mobile devices
- › Record and download assets to mobile devices

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Only with optionally ordered WiFi-dongle. Streaming resolution to today's generations of mobile devices: 720p30

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Let the M320 with integrated 4K camera support you in your patient communication. Show live images or video playbacks to walk patients through the steps of a procedure.



### More viewing flexibility with the Leica View App :

- › Stream the live microscope view from your M320 dental microscope
- › Capture images and videos directly from a mobile device
- › Access recorded pictures and video of your microscope's SD card gallery
- › Download assets to your mobile devices to always have them conveniently at hand
- › Explain diagnoses and treatments by reviewing recorded video and pictures

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Streaming resolution to today's generations of mobile devices: 720p30

### Raising your professional profile becomes easier with the M320:

- › Use images and videos for impressive presentations, webinars, training events, and publications to grow your network
- › Enhance your professional reputation with ultra-high resolution dental pictures
- › Share content in 4K on your professional website or social media channels

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### Strengthen your hygiene precautions

- › Increase the physical distance between you and the patient to reduce exposure to spraying from the treatment
- › Benefit from additional safety through antimicrobial microscope coating
- › Make cleaning easy thanks to internally routed cables and flat surfaces
- › Ensure longevity even with regular autoclaving or other methods of sterilization as removable parts like handles are made from robust materials



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## Create a Modern Look and Feel in Your Practice



The timeless, sleek design of the M320 can compliment the high-quality image of your dental practice.

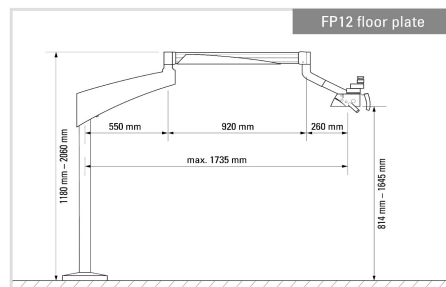
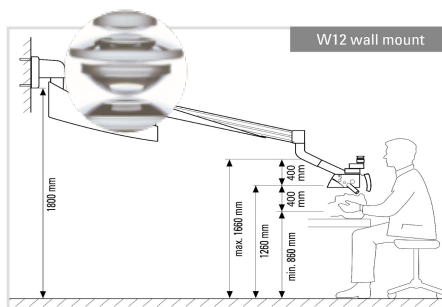
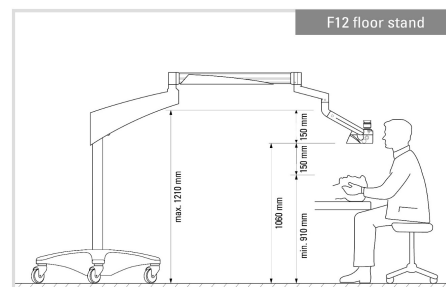
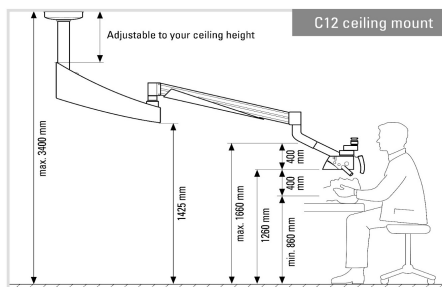
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Select the configuration that best fits your practice needs by choosing from a variety of stands, e.g., ceiling, floor, or wall mounts.



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## Sharing Expertise in Micro-Dentistry With Leica Microscopes



Dr. Katia Greco,  
Endodontist,  
Maglie,  
Lecce, Italy

“For successful treatment I need as much information and detail as possible.

I have worked with dental microscopes for 22 years—it really makes a big difference and helps to achieve better treatment results.”



Dr. Fabio Gorni  
Uni. Vita Salute San Raffaele, Dental  
School, Head of the Endodontic Surgery  
& Peri-oral Aesthetic course  
Past President of the Italian Society of  
Endodontics

“The use of a dental microscope is critical for almost all endodontic surgeries and procedures, because it allows for more precision and accuracy, which can lead to better treatments results.”



Dr. Dean Raicov  
Endodontist from  
Germany

“I discovered the high degree of accuracy that can be achieved with a dental microscope during my studies in endodontics and I realized that there's no real alternative. After all, how can you treat something you can't see.”

“I can work more quickly and more successfully with the dental microscope.”

[Click here to find out why Dr. Greco recommends the use of dental microscopes for daily practice. Also learn more about the utility of dental microscopes for training.](#)

[Click here for the webinar](#) From dentistry to micro-dentistry: See more – optimize your dental workflow

[Click here for the Endodontics Article:](#) Optimized Vision in Endodontic Surgeries and Procedures

[Click here](#) to read the full interview with Dr. Raicov about the use of dental microscopes in Endodontics.

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**Thank you!**



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