

M320 Dental Microscope

For you, for your patient



From Eye to Insight

Contents

KEY FEATURES OF THE M320 DENTAL MICROSCOPE

- > High power illumination
- > Leica optics
- > Video documentation

DESIGNED FOR YOUR SPECIALTY

- > Endodontics
- > Restorative dentistry
- > Prosthodontics & aesthetic dentistry
- > Periodontics and implantology

SEE EXACTLY WHAT YOU NEED TO SEE

- > Bright, true-to-life color images

STRENGTHEN YOUR PATIENT'S TRUST

SHARE YOUR EXPERTISE

- > Integrated and modular
- > Simple image storage
- > Flexible use and viewing

ENHANCE YOUR COMFORT AND EFFICIENCY

- > Get comfortable
- > Stay Focused
- > Maneuver with ease

ENSURE YOUR EQUIPMENT FITS YOUR PRACTICE

- > Meet your hygiene demands
- > Meet your surgery demands

M320 TESTIMONIALS

- > Additional reading on Leica ScienceLab

M320 key features



HIGH POWER LED ILLUMINATION

- > Daylight illumination
- > Long lasting 60 000 hrs.
- > Double beam
- > 100 000 Lux at 250 mm
- > Built-in orange filter
- > built-in diaphragm

LEICA OPTICS

- > Apo chromatic optics
- > Large field of view (FOV)
- > Large depth of focus (DOF)
- > Highend light gathering
- > Great contrast and crispness



INTEGRATED HD VIDEO CAMERA

- > IR Remote control
- > 720 Pixel HD video
- > 3 MP photos
- > SD Card with 32 GB
- > HDMI output

M320 responds to the demands of a wide range of dental specialties.

Endodontics



Shadow-free illumination in deep cavities for:

- > Easy location of additional root canals
- > Accurate visualization of complex pulp structures
- > Precise management of obstruction or perforation in root canals
- > Controlled root filling

In combination with microsurgical mirrors, even deep cavities in the molar region are visible.

Restorative Dentistry



- > Precise insertion of restorative materials and accurate finishing
- > Earlier diagnosis of caries lesions
- > Clear differentiation between healthy and carious tissue under gingiva
- > Identification of cracks in the dentin, enamel and even in fillings

Built-in orange filter prevents polymerization of composite materials during treatment

Prosthodontics & Aesthetic Dentistry



- > Highly precise preparation of teeth for crowns or bridgeworks
- > Avoiding adjoining tissues such as gums or mucous membrane
- > Thorough checking of impressions for accurate preparation of prosthetics
- > Accurate evaluation of fit and bonding of crowns or bridges

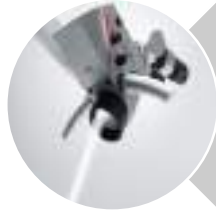
Periodontics and Implantology



- > Precise inspection of the surgical site
- > Easy flap control
- > Controlled management of soft and bone tissues
- > Accurate suturing of the soft tissues means low tissue trauma
- > May facilitate the use of micro-suturing techniques for primary wound closure which may result in improved clinical outcomes

**CRISP,
BRIGHT,
TRUE-COLOR
IMAGES WITH
IMPRESSIVE DEPTH OF
FIELD.**

THANKS TO THE
OUTSTANDING OPTICS
AND LED ILLUMINATION
OF THE M320
MICROSCOPE



Bright, true-to-life color images

Two daylight temperature LEDs deliver bright, vivid colors for easy differentiation of anatomical details
Long bulb lifetime of approx. 60,000 hours for minimal cost of ownership
Light source integrated into the optics carrier with no external fiberoptic for long-lasting light intensity



Crystal clear visualization

Premium quality apochromatic optics combined with LED-lighting deliver an enhanced view even in deep cavities
Full range of objective lenses including the optional Leica M320 MultiFoc objective for efficient adjustment of working distance



Work at your own pace

Integrated orange filter (530 nm) prevents premature curing of composites



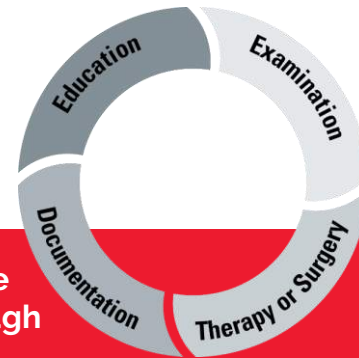
Minimum workflow interruption

5-step magnification changer allows simple, quick magnification adjustment for a minimum of workflow interruptions
Magnification steps of 6.4, 10, 16, 25, and 40x



Some patients become nervous in the dental chair when they are unsure what a procedure entails. This is where the M320 provides support with:

- > Optional integrated full HD camera and monitor
- > Images and video files to walk your patient through the steps of a procedure
- > Store video and images in each patient's file, so you and your team can easily review the full patient history before each visit, further reinforcing confidence.



The M320 Dental Microscope supports your practice through the whole workflow, today and in the future!

Pass your knowledge on to a wider audience:

- > Train your team, show them every detail of your surgery in real time, and in HD
- > Enhance your professional reputation share pictures and videos easily online or at seminars



Flexible use and viewing

- > Simple operation via remote control or directly on the microscope
- > Live streaming to an external monitor for viewing by your assistant and patient



Simple image storage

- > Store images and video on SD memory card
- > Easily transfer to patient file via the SD memory card or via USB



Integrated and modular

- > Cable-free, integrated full HD camera with 10 MP images & video up to 1080 p for crystal-clear anatomical detail and true-to-life color
- > Modular design for easy upgrading



ACHIEVE A COMFORTABLE,
UPRIGHT POSTURE – APPLY
YOUR SURGICAL SKILLS MORE
EASILY.



GET COMFORTABLE

Benefit from a choice of configurations and accessories to adapt to your body frame and working preferences.

Binocular tube with 45° angle



Ideal for simple procedures

ErgoWedge accessory



Enhance ergonomics

Binocular tube with 180° movement



Flexibly adjust to various needs

ErgoOptic Dent accessory



Extends the microscopes' reach

STAY FOCUSED

Maintain concentration and efficiency while retaining an ergonomic posture. Easily adjust your working distance from 200 - 300 mm with the MultiFoc Objective to save time and efforts of repositioning.



- > 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

MANEUVER WITH EASE

Accurate positioning and ultra-fast stabilization of the microscope ensure workflow interruptions are kept to a minimum. Robust, yet extremely light and easy to maneuver the M320 helps to decrease potential strain of harsh movements.



- > 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

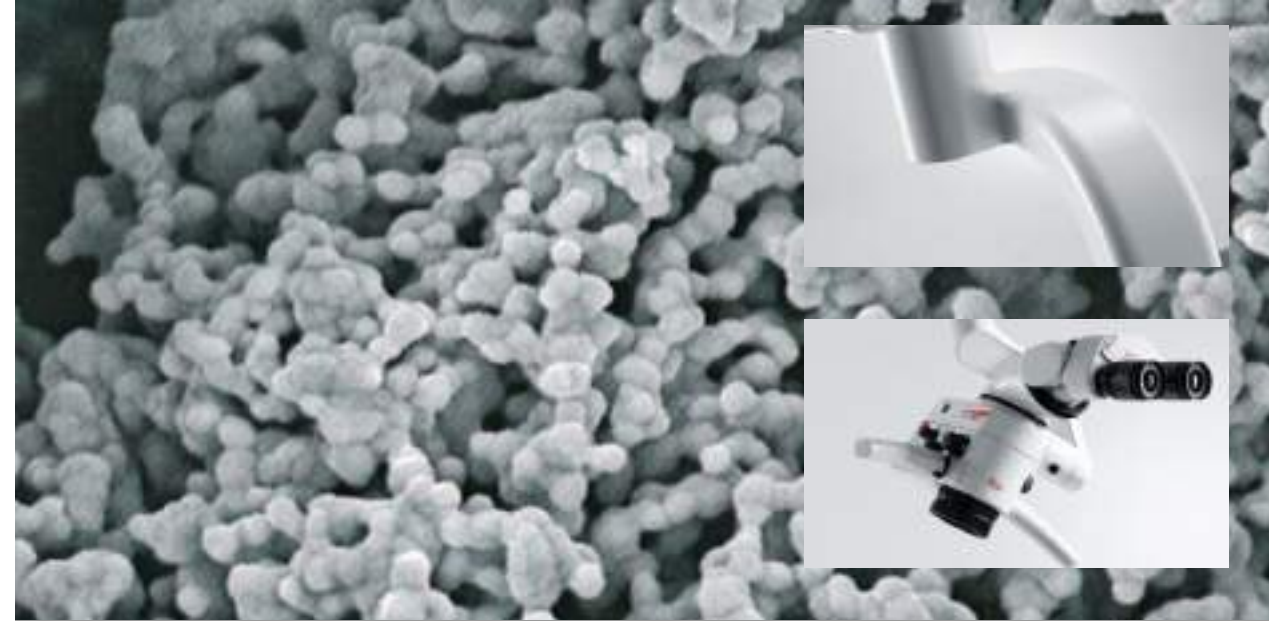


The streamlined design also compliments the high-quality image of your dental practice which can reinforce patient confidence and set you apart.

MEETS YOUR SURGERY DEMANDS

Whatever your surgery layout, specialty and working style, the M320 is the all-in-one solution for your practice.

- > Available with a robust floor stand, wall mount or ceiling mount
- > Can be integrated into dental treatment units from a number of leading manufacturers
- > Sleek design



In a surgical environment, a high level of cleanliness is a prerequisite.

MEETS YOUR HYGIENE DEMANDS

- > Leica AgProtect antimicrobial nano silver (Ag) coating reduces pathogens on the microscope surface
- > Virtually jointless with cables routed internally for easy cleaning
- > Handles can be removed and sterilized



Prof. Philippe W.
Sleiman
Endodontist from
Beirut, Lebanon

“An accurate visualization of the operating field with **true colors, good depth of field, and high magnification** allow for precise and successful treatment.”

[Click here](#) to learn more about Dr. Sleiman's practice and experience, operating with an M320 Dental Microscope from Leica Microsystems.



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 read the full interview with Dr. Raicov about the use of dental microscopes in Endodontics.

Leica

Thank you!



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