

DENTAL & SURGICAL MICROSCOPE

AM-7400

Dental & Surgical Microscope

Continuous zoom. Control close to hand.

A dental surgical microscope with continuous 1:6.25 zoom, motorised focusing, an integrated FORA rotating assembly, electromagnetic arm locking and built-in 4K imaging. Standard, Medium and High configurations offer different zoom and illumination combinations.

1:6.25

Continuous zoom

198–455 mm

Motorised objective

4K / 60 FPS

Real-time output



Highlights

Continuous zoom

Continuous zoom, manual on the Standard and Medium configurations and motorised on High.

Integrated FORA

The rotating assembly adds horizontal and vertical pendulum movement, so the optics follow the work while you stay upright.

Electromagnetic lock

Release the arm with one click from the handgrip, position the head, and it stays where you leave it.

Touchscreen and 4K imaging

An integrated touchscreen controls zoom, focus, capture and lighting, with built-in 3840 × 2160 imaging, USB storage and Wi-Fi.



Key features

- Continuous 1:6.25 zoom with a 0.4X–2.5X zoom factor and 1.7X–19X total magnification.
- Manual zoom in Standard and Medium configurations; motorised zoom in High.
- 0–210° inclinable binocular head with interpupillary adjustment.
- Motorised 198–455 mm variable objective; 200–610 mm auxiliary objective, availability depends on configuration.
- Integrated FORA rotating assembly with ±25° horizontal and ±60° vertical pendulum movement.
- Electromagnetic arm lock with one-click release from the handgrip.
- Motorised orange and green filter switching, adjustable brightness and continuously adjustable light-spot size.
- Standard depth-of-field enhancement; optional anti-glare alternative.
- Integrated touchscreen for zoom, focus, photo/video capture and lighting adjustment.
- Built-in 3840 × 2160 imaging with 60 FPS real-time output, USB storage and Wi-Fi connectivity.
- Mobile floor stand, with fixed-floor, wall and ceiling mounting options.
- Options include voice control and a 4K built-in camera with auto-focus.

Specifications

OPTICS & OBSERVATION

Models	AM-7400 Standard · AM-7410 Medium · AM-7420 High
Zoom	Continuous 1:6.25 ratio; 0.4X–2.5X zoom factor. Manual on AM-7400 / AM-7410; motorised on AM-7420
Total magnification	1.7X–19X
Eyepieces	Standard 12.5X/18B, ±7D; optional 10X/21B, –8D to +6D
Binocular head	0–210° inclinable, with pupillary distance adjustment knob
Objective	Motorised 198–455 mm variable objective
Auxiliary objective	Motorised 200–610 mm auxiliary objective; availability depends on configuration
FORA / pendulum	Integrated; ±25° horizontal and ±60° vertical
Depth of field / anti-glare	One-click depth-of-field enhancement standard; anti-glare optional (single choice)
Touchscreen	Integrated; zoom, focus, photo/video capture and lighting adjustment
Imaging	Built-in 3840 × 2160, 60 FPS real-time output; USB drive storage; built-in Wi-Fi; mouse operation; capture by handgrip, foot pedal or touchscreen
Options	Voice control; 4K built-in camera with auto-focus; anti-glare; 250 mm extension arm

LIGHT & ILLUMINATION

Illumination configurations	AM-7400: white light. AM-7410 / AM-7420: white light plus 405 fluorescent light
Illuminance	Maximum ≥100,000 lux at 200 mm working distance
Filters and light spot	Motorised orange/green filter switching; continuously adjustable light-spot size
LED life	≥60,000 hours

IMAGING & DOCUMENTATION

Image adjustment	Exposure, brightness, gain, saturation, contrast, sharpness, HDR, flip, zoom and image comparison
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POSITIONING & INSTALLATION

Handgrips	Adjustable angle; photo/video; focus and brightness; motorised zoom (where fitted); illumination-mode switching; one-click electromagnetic-lock release
Arm	Balance arm with electromagnetic lock; arm span ≥1450 mm; optional 250 mm extension arm
Mounting	Mobile floor stand; fixed floor stand, low- or high-position wall and ceiling mounts optional
Monitor support	First arm reserved for a monitor bracket and power port

Configurations

- AM-7400 Standard: continuous manual zoom and white-light illumination.
- AM-7410 Medium: continuous manual zoom, white light and 405 fluorescent light.
- AM-7420 High: continuous motorised zoom, white light and 405 fluorescent light.

Specifications can change and may vary by configuration. Confirm the supplied specifications before ordering.

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