

Dental Microscopes Specification Sheet

3.6X to 23X zoom with 4K recording and illumination above 80,000 lux.

A dental operating microscope with 4K recording at 30fps on a Sony image sensor and 12MP stills. Magnification runs 3.6X to 23X with 12.5X eyepieces, a 250 mm focal length and 200 mm or 400 mm objective options. LED illumination exceeds 80,000 lux at 6500K over an 85 mm spot, with yellow CB550 and green filters fitted. It stands on a mobile base, weighs 125 kg and measures 1250 x 1080 x 470 mm.

1 products in this category. Every figure below is published on the product pages at trueglowimaging.com/categories/microscope.html

Dental Microscope

4K Dental Operating Microscope · 3.6X-23X zoom

A dental operating microscope with 4K recording at 30fps on a Sony image sensor and static images up to 12MP (4000 x 3000). Magnification is 3.6X to 23X with 12.5X eyepieces at an 18 mm aperture and a 250 mm focal length, with 200 mm and 400 mm objective lens options. LED illumination exceeds 80,000 lux at 6500K with an 85 mm spot, and yellow (CB550) and green filters are fitted. It stands on a mobile base, weighs 125 kg and measures 1250 mm x 1080 mm x 470 mm.

Specification

Video Recording	4K Ultra HD, 30fps, Sony image sensor
Static Image Resolution	Up to 12MP (4000 x 3000)
Control Methods	Mobile app, wireless remote, tablet, PC
Storage	TF card up to 128GB
Wireless Data Transfer	Download to PC via wireless connection
Live Streaming	Supported with additional live broadcast module
Eyepieces	12.5X, aperture 18 mm
Binoculars	0-210 degree adjustable inclination
Magnification	3.6X-23X zoom, 250 mm focal length
Objective Lens	200-400 mm options
LED Illumination	Variable brightness, more than 80,000 lux
Spot Size	85 mm diameter
Light Filters	Yellow (CB550) and green
Colour Temperature	6500K natural light
Swing Arm	460 mm radius, 360 degree rotation
Microscope Arm	700 mm radius, plus or minus 315 mm up and down motion
Voltage	AC100-250V, 50/60Hz
Power Consumption	Max 70VA, light source 20VA
Weight	125 kg
Dimensions	1250 mm x 1080 mm x 470 mm
Support System	Standard mobile base

Key benefits

Documentation Built In Not Added. 4K at 30fps and 12MP stills with storage on a TF card up to 128GB means the case record comes off the microscope itself rather than a bolted-on camera.

Two Objective Options. 200 mm and 400 mm objectives change the working distance between the lens and the patient. Endodontic and restorative work want different figures, and both are available on the same stand.

Illumination Above 80,000 Lux. At 6500K with an 85 mm spot, the field is lit to natural daylight colour. Yellow CB550 and green filters are supplied for composite work and for contrast on soft tissue.

Four Ways to Control It. Mobile app, wireless remote, tablet and PC. Recording can be started without the operator breaking sterility or leaving the eyepieces.

Where it is used

Endodontic treatment requiring high magnification and documented canals • Restorative dentistry checking margins under magnification • Case documentation for patient records and insurance • Teaching clinics live streaming procedures to students • Implant placement work needing controlled illumination • Practices sharing case data with a PC over wireless transfer

How To Enquire

Send the process rather than a model number: capacity or flow rate, the product being handled, the container format where relevant, and the utilities already on site. WhatsApp +86 150 5517 9418 or email sales@trueglowimaging.com.

Minimum order is one unit on the process, packaging, utility and crane ranges. Machined, fabricated and moulded parts are quoted from single pieces upward.