

MAGNIFI 3D

DIGITAL MICROSCOPE

DENTAL RECORDING SYSTEM



DIGITAL MICROSCOPE

**UNICORN
DenMart**®
Behind The Best Indian Dentists

MAGNIFI 3D

DIGITAL MICROSCOPE

- ✦ No eyepieces for simple operation
- ✦ 34x magnification with a large depth of field
- ✦ Enhanced visualization for better medical communication

- 4K** High Magnification
Optical lenses
-  34X Continuous Zoom
& Magnification
-  Naked Eyes 3D
Allows for Operation
-  Record & Snap
Easily
-  Multi Colour Lights
-  Multi-angle Movements
for Easy Operation

Perfect For

- ✦ Endodontic surgeries
- ✦ Microsurgical procedures
- ✦ ENT and general surgeries
- ✦ Medical teaching & live case broadcasting
- ✦ Clinical documentation and training setups



DIGITAL MICROSCOPE

Naked-Eye 3D Visualization:

- ✦ No eyepieces required – eliminates posture strain.
- ✦ Surgeons can view directly on a 4K screen for immersive 3D visuals



4K

High Magnification Optical Lenses: Provides 4K Ultra-high-definition images & videos

34x Digital Magnification

- ✦ Offers large depth of field and sharp clarity at every zoom level.
- ✦ Ideal for both macro and micro-level surgeries.



4K UHD Clarity & HD Video Recording

- ✦ Captures ultra-high-definition photos and videos for documentation and case presentation.
- ✦ Supports real-time projection on large screens during live surgeries and training. Electro-Controlled Zoom & Tilt
- ✦ Smooth tilt up to 45° forward and 90° backward to support various surgical postures.
- ✦ Integrated zoom/magnification toggle via controller – no manual adjustment needed.

Ergonomic and Efficient Design

- ✦ Frees up hand movement and operational space.
- ✦ Reduces surgical fatigue and boosts precision.



Advantages

- ✦ No eyepiece stress – promotes comfort and communication.
- ✦ Enhanced surgery accuracy via high-definition visuals.
- ✦ Easy to operate even for beginners due to simplified controls.
- ✦ Ideal for academic demos and patient education.

Upgraded Model with AR glass available with Extra Cost*

Technical Specifications	
Magnification	Up to 34x
Imaging Output	4K Ultra-HD video and image capture
Vision System	Naked-Eye 3D Digital Display
Eyepiece Requirement	None
Display	Integrated 4K Monitor
Tilt Range	Forward 45°, Backward 90°
Zoom System	Electro-Controlled Zoom
Depth of Field	Large, with enhanced focus range
Mobility	Floor-mounted stand with casters
Usage Mode	Fully digital, suitable for surgery & training

DENTAL RECORDING SYSTEM

Shadowless Light



The Dental Recording Shadowless Light System is a fully integrated, surgical-grade solution designed for modern dental clinics with a strong focus on implantology, precision surgery, documentation, and teaching. It combines high-intensity shadowless illumination, advanced FHD imaging, real-time recording, live streaming, and optional medical-grade display into a single, space-optimized platform. With multiple installation options and workstation-level functionality, it supports accurate diagnosis, minimally invasive procedures, medico-legal documentation, and academic training.

SUITABLE FOR

- ✦ Implantology and guided implant surgery
- ✦ Periodontal and oral surgery
- ✦ Endodontic and microsurgical procedures
- ✦ Teaching hospitals and dental colleges
- ✦ High-end dental clinics and surgical centers
- ✦ Clinical documentation and medico-legal recording
- ✦ Live training, workshops, and demonstrations

Key Features:

Lighting & Optics:



Dual temperature surgical light (5500K / 4500K)



High illuminance surgical light up to 160,000 Lux



Uniform dentistry-optimized light field

Control & Ergonomics:



Optional hands-free foot pedal



Multi-functional workstation base

Imaging & Zoom:



Sony starlight-level FHD camera sensor



20X optical + 32X digital zoom



Auto focus with manual focus lock

Power & Expansion:



Integrated power supply (AC + USB)



Expandable accessory side rail

Video & Streaming:



3G-SDI & HDMI multi-device input



RTSP real-time live streaming



MP4 recording with external storage

Display & Safety



Optional 24" medical-grade FHD monitor



IP54 disinfectant-safe surface

Installation Flexibility



Multiple installation configurations (floor, ceiling, wall, chair-mounted)

DENTAL RECORDING SYSTEM

ADVANTAGES & BENEFITS:

- ✦ Enables precise visualization of deep implant sites and fine soft-tissue details
- ✦ Reduces surgical risk through high-intensity, shadow-free illumination
- ✦ Improves ergonomics and reduces eye fatigue during long procedures
- ✦ Ensures uninterrupted surgical focus with manual focus lock and foot control
- ✦ Creates high-quality visual records for medico-legal and academic use
- ✦ Enhances patient trust through real-time visual explanation
- ✦ Supports live teaching, demonstrations, and expert consultations
- ✦ Eliminates dependency on wall power with an integrated mobile power station
- ✦ Optimizes operatory space by combining multiple systems into one platform

Technical Specification	
Light Type	Professional shadowless surgical LED light
Color Temperature	5500K (pure white) / 4500K (warm light)
Illuminance	20,000–100,000 Lux @ 1m Up to 160,000 Lux @ 0.5 m
Light Field	10–12 cm uniform field @ 65 cm working distance
Handle	Detachable, autoclave-safe
LED Lifespan	> 60,000 hours
Camera Sensor	Sony starlight-level sensor
Optical Zoom	20×
Digital Zoom	32×
Focus Mode	Auto focus with manual focus lock
Recording Resolution	1080P / 4K
Video Interfaces	3G-SDI, HDM
Streaming Protocol	RTSP
Recording Format	Mp4
Storage	External high-capacity drive supported
Control Options	Remote control, optional foot pedal
Monitor (Optional)	24-inch medical-grade FHD display
Grayscale Performance	10-bit+, 1024–4096 grayscale levels
Monitor Protection	IP54, anti-glare, disinfectant-safe
Power Supply (Floor Model)	220V AC outlets + USB ports
Installation Options	Floor-standing (WY320M), Ceiling-mounted (WY320C), Wall-mounted (WY320W), Chair-mounted



Ceiling Mount



WHERE **TRUST** COMES **FIRST**



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* Accessories shown may not be a part of standard equipment. Specifications are subject to change without notice.

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