OPTO-EDU A41.1927 Operating Microscope Single Head Motorized Continuous Zoom 2.5x-21x For Dental ENT

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE,
- Model Number: A41.1927
- Minimum Order Quantity: 1 pc
- Price: FOB $1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T,West Union,Paypal
- Supply Ability: 5000 pcs/ Month



Product Specification

- Head: Single Binocular Head 0~200° Tiltable
- Magnification: Motorized Continuous Zoom 1:6 2.5x~21x
- Eyepiece: "WF12.5x, Pupil Distance 55-75mm, Both Eyepiece Tube Diopter Adjustable +/-6D"
- Main Objective: W.D.=200~500mm
- Light Spot: Dia. 80mm
- Camera: Built-in 4K HDMI Camera
- Monitor: 27"4K Monitor With Holder
- Control: Control Handle For Photo Capture, Videos Record, And Review
- Illumination: "Coaxial LED Light Illumination, Intensity 60000 Lux, Built-in Small-spot, Yellow, And Green Filters"
- Highlight: **motorized continuous zoom operating microscope**, **dental ENT surgical microscope**, **single head operating microscope 2.5x-21x**

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Product Description

OPTO-EDU A41.1927 Dental & ENT Operating Microscope — Motorized Continuous Zoom 2.5x–21x

The A41.1927 is a professional surgical operating microscope engineered for dental and ENT (Ear, Nose, Throat) procedures. It combines a single tiltable binocular head, motorized 1:6 continuous zoom, coaxial LED cold light illumination, and a built-in 4K HDMI camera system with a 27" 4K monitor — delivering precise magnification, clear visualization, and real-time image documentation for clinical, teaching, and research applications.

- **Single Binocular Head:** Tiltable 0–200°, interpupillary distance 55–75 mm, diopter adjustment ±6D on both eyepiece tubes.
- **Motorized Continuous Zoom:** 1:6 zoom ratio, magnification range 2.5x–21x, with optional beam splitter for assistant viewing.
- **Objective Lens:** F = 200–500 mm working distance, view field diameter 111–7.4 mm, head left-right pendulum ±45°.
- **LED Cold Light Illumination:** Maximum brightness 60,000 Lux, light spot diameter 80 mm, with built-in yellow and green filters.
- **Mobile Stand:** Four-wheel stand with brakes, carry arm swing angle 0–300°, objective-to-floor height 730 mm.
- **Built-in 4K HDMI Camera:** Handle-controlled photo capture and video recording, supplied with 27" 4K monitor and holder.

Key Features & Clinical Advantages

Color Filter System

Built-in yellow and green color filters are adjustable via the built-in button. The yellow spot helps prevent rapid resin curing during restorative work, while the green spot improves visibility of blood vessels under the operative field.

Long-Life LED Light Source

A medical-grade LED white light source delivers high color temperature, high color rendering index, and high brightness with excellent color reduction. Compared with traditional halogen lamps, it is more suitable for stomatology procedures, consumes less energy, and offers a service life of up to 100,000 hours — reducing fatigue during prolonged use.

Obliquely Pendulum Binocular Head

With the eyepiece kept at the same level and the doctor's sitting posture unchanged, the main mirror can swing left and right to observe different positions without repositioning the patient or the operator.

Built-in 4K HDMI Camera System

The body integrates a 4K HDMI camera system with wireless mouse operation — no computer required. HDMI and USB outputs work synchronously, and a high-speed SD card supports photo capture and video recording. Additional functions include same-screen image contrast, HDR (wide dynamic range), image freezing, image inversion, and digital magnification. Real-time image output to a connected display supports clinical work, teaching, and scientific research, and is widely used in video conferencing, telemedicine, micrography, and video projection.

Applications of the Dental Operating Microscope

- Locating missing root canals
- Removal of plasticizer from root canals
- Dredging calcified root canals and navigating root canal steps
- Removal of broken instruments from root canals
- Repair of perforations
- Micro apical surgery
- Microsurgical repair

Model Comparison: A41.1924 / A41.1925 / A41.1927 Surgical Operation Microscopes

The A41 series covers three configurations for ENT and dental surgery. The **A41.1924** is the basic version with a single binocular head tiltable 0–200° and manual 5-step zoom (3.6x, 5.4x, 9x, 14.4x, 22.5x). The **A41.1925** upgrades to 1:6 manual continuous zoom (2.5x–21x) with a built-in 4K HDMI camera and 27" 4K monitor. The **A41.1927** features 1:6 motorized continuous zoom (2.5x–21x), also with a built-in 4K HDMI camera and 27" 4K monitor. All models can be upgraded with an optional assistant head, beam splitter, various adaptors, or an external camera for sharing real-time images to an LCD monitor, mobile phone, or computer.

Specification	A41.1924	A41.1925	A41.1927
Main Usage	Ear, Nose, Throat (ENT), Dental		
Head	Single Binocular Head, 0–200° Tiltable		
Magnification	Manual 5-Step Zoom: 3.6x, 5.4x, 9x, 14.4x, 22.5x	Manual Continuous Zoom 1:6, 2.5x–21x	Motorized Continuous Zoom 1:6, 2.5x–21x
Field of View	Dia. 55.6 / 37.1 / 22.2 / 13.9 / 8.9 mm	Dia. 78.6–9 mm	Dia. 111–7.4 mm
Eyepiece	WF12.5x, Pupil Distance 55–75 mm, Both Eyepiece Tubes Diopter Adjustable ±6D		
Objective	W.D. = 180–300 mm	W.D. = 200–500 mm	
Head Movement	Head Left-Right Pendulum Range ±45°		
Illumination	Coaxial LED Light Illumination, Intensity 60,000 Lux, Built-in Small-Spot, Yellow, and Green Filters		
Light Spot	Dia. 70 mm	Dia. 80 mm	
Stand	Four-Wheel Moving Stand with Brakes; 120° Balanced Arm; Max Arm Length 1100 mm; Distance Between Objective and Ground Surface 730–1250 mm		
Camera	Built-in 4K HDMI Camera		
Control	Control Handle for Photo Capture, Video Recording, and Review		
Monitor	24" Monitor with Holder	27" 4K Monitor with Holder	
Packing	3 Cartons; Total G.W. 79 kg; Volume 0.355 CBM Monitor: 590×460×230 mm / 10 kg Body: 750×680×550 mm / 61 kg Stand: 1200×100×100 mm / 8 kg	3 Cartons; Total G.W. 111 kg; Volume 0.381 CBM Head: 595×460×230 mm / 11 kg Body: 1200×545×250 mm / 32 kg Stand: 785×785×250 mm / 68 kg	

> All A41 series models support optional upgrades including an assistant head, beam splitter, various adaptors, and external camera — enabling real-time image sharing to an LCD monitor, mobile phone, or computer.

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