OPTO-EDU A41.1924 Operating Microscope Single Head Manual 5 steps 3.6x 5.4x 9x 14.4x 22.5x For Dental ENT

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE,
- Model Number: A41.1924
- 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: "Manual 5 Steps Zoom 3.6x,5.4x,9x,14.4x,22.5x"
- Eyepiece: "WF12.5x, Pupil Distance 55-75mm, Both Eyepiece Tube Diopter Adjustable +/-6D"
- View Field: "Dia. 55.6 / 37.1 / 22.2 / 13.9 / 8.9mm"
- Main Objective: W.D.=180~300mm
- Light Spot: Dia. 70mm
- Camera: Built-in 4K HDMI Camera
- Monitor: 24” 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: **Operating Microscope 5-step magnification**, **Single head dental ENT microscope**,

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Product Description

OPTO-EDU A41.1924 Operating Microscope Overview

The A41.1924 Surgical Operating Microscope delivers a high-resolution optical system with strong stereo perception and deep depth of field. Equipped with adjustable LED cold-light illumination and a manual five-step drum magnification changer, this compact and highly mobile microscope is engineered for microsurgical procedures in stomatology, dental, and ENT (ear, nose, and throat) applications.

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A41.1924

Operating Microscope, Single Head, Manual 5 steps 3.6x, 5.4x, 9x, 14.4x, 22.5x, For Dental & ENT

A41.1924 Structure

Key Features of the A41.1924 Dental & ENT Microscope

Clinical versatility: Suitable for dental, stomatology, ENT, and decorative surgery procedures.

Ultra-long-life LED light source: Up to 100,000 hours of service life for reduced maintenance.

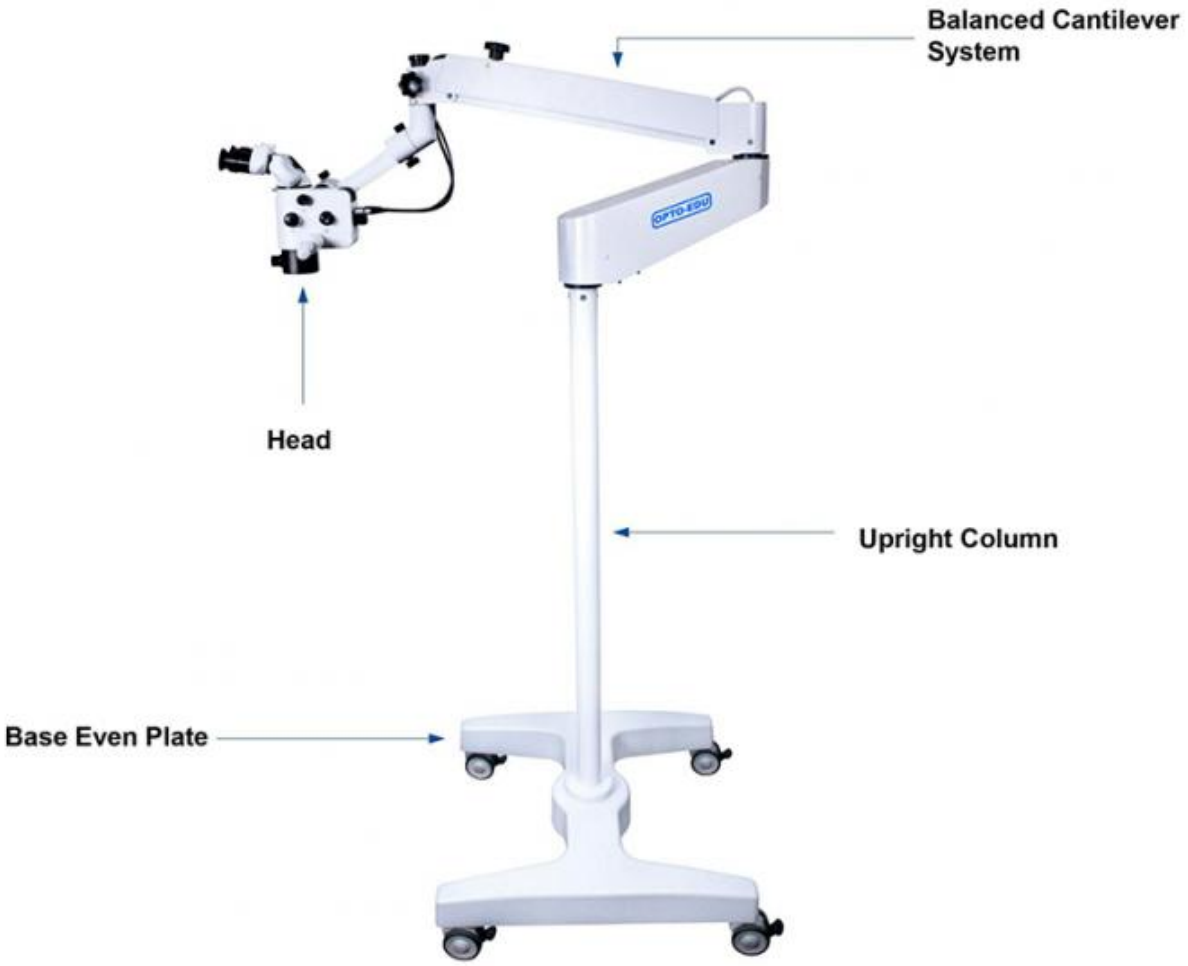
Compact and mobile frame: Small, well-balanced, and easy to reposition between treatment rooms.

Built-in 4K HDMI camera system: Supports real-time imaging, photo capture, and video recording.

180–300 mm ultra-large range zoom lens: Flexible working distance for varied surgical needs.

Optical quality: High definition, high brightness, and ultra-large depth of field for precise visualization.

- America LED
- Japan Electronic Components
- Germany Lens
- Imported Connector
- 90V~230V Wide Voltage
- Germany Spring
- 20 Years Optical Design



A41.1924 Features

Built-in Yellow and Green Color Filters

The A41.1924 includes built-in yellow and green color filters, selectable via a built-in button on the ordinary paddles. The yellow filter helps prevent rapid resin curing during dental procedures, while the green filter enhances the visibility of blood vessels under surgical conditions.

A41.1924 Head Structure

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Adjustable eyecup in eyepiece
suitable for with glass and glass

Pupil distance 55mm~75mm

Diopter adjustable +/-6D

Zoom Lense 180~300mm

A41.1924 Large Zoom Objective

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The maximum focusing stroke is 120mm, and the focusing range completely covers the whole oral depth. As long as the doctor prepares the best ergonomic position and adjusts the zoom knob, he can see the position of each detail without adjusting the lens, which is efficient, convenient and fast.

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②

③

④

Magnification

①

②

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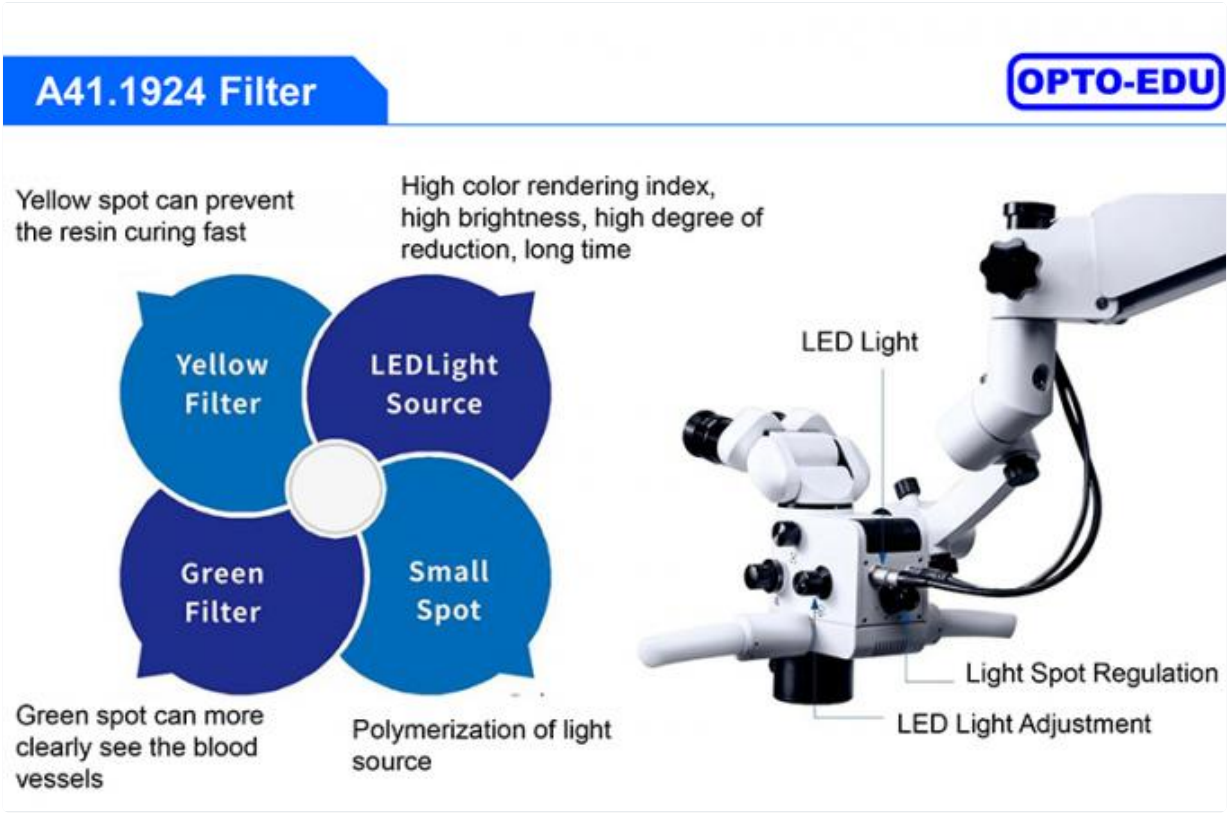
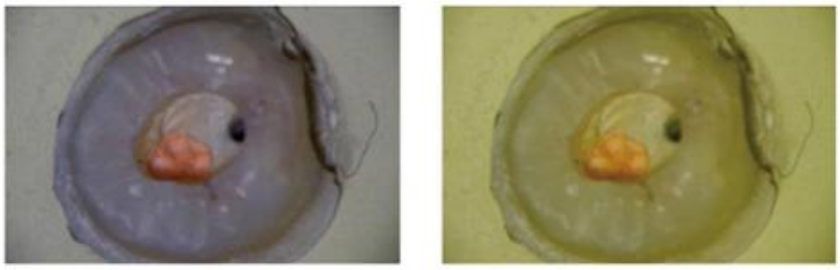


Long-Life Medical LED Light Source

The A41.1924 uses a long-life medical LED white light source with high color temperature, high color rendering index, high brightness, and excellent color reduction. It provides comfortable illumination for extended procedures without eye fatigue. Compared with traditional halogen lamps, the LED system is better suited to stomatology requirements, consumes less energy, and offers a service life of up to 100,000 hours.



LED light source

Halogen light source

A41.1924 Microscope Head

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0~200° Binocular Head

It allows the clinician to choose the best angle of posture to create a comfortable and favorable operating environment.

Super 120 Degree Balanced Arm

Assures a smooth, fluid and perfect balance during repositioning of the microscope. The head easy to stop at any position

Obliquely Pendulum Range +/-45°

In the condition that the eyepiece is at the same level, the doctor's sitting posture is constant, and the main mirror can swing right and left to observe different positions.

Pendulum Function

Beam splitter= Rotation +Extention + Beam split

Extender= Rotation + Extension

A41.1924 Build 4K HDMI Camera System

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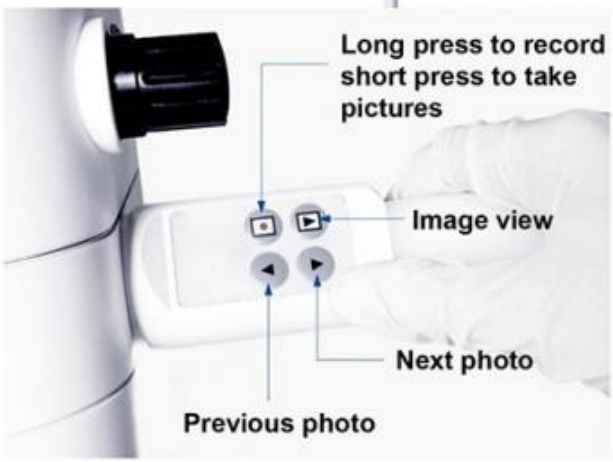

A special switch is fitted into the arm. lamp can be turned off automatically when arm move out of the working distance.

Counter-balanced pantographic arms design and tension control adjustable connection arms, head can be easily move and stop at any position smoothly.

Hover Up And Down

Table Stand And Wall Stand

A41.1924 Technology

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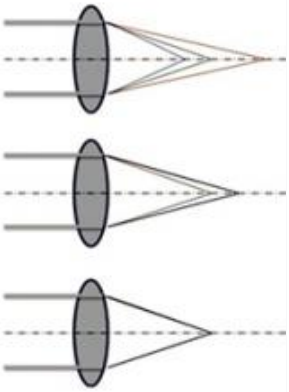
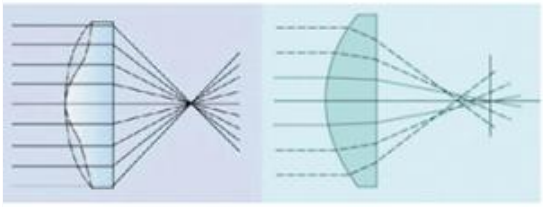
Multilayer Coating Technology, The Light Transmittance Is Up To 98%.

Through multilayer coating technology, we can reduce light reflection attenuation, increase light transmission and improve brightness. The multilayer coating technology we use can achieve optical energy passing rate of 98%.

Complex Achromatic Objective Lens

Optical design of apochromatic correction can not Optical design of apochromatic correction can not only red green and blue three colors. Can correct the aberration of red, blue two color lights. Improve image resolution, contrast and depth of field





Aspheric Lighting Technology, Better Light Gathering Effect

The spherical illumination can not refract the light to the same surface and cause the light to be more dispersed on the surface. The aspheric technology can increase the concentration effect and improve the brightness

A41.192x Specification

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A41.1924, A41.1925 & A41.1927 Model Comparison

A41.1924 is the basic version for ENT and dental operations. It features a single binocular head that tilts freely from 0° to 200° and a manual five-step zoom with magnifications of 3.6x, 5.4x, 9x, 14.4x, and 22.5x.

A41.1925 is the upgraded version with 1:6 manual continuous zoom (2.5x–21x), a built-in 4K HDMI camera, and a 27" 4K monitor.

A41.1927 offers 1:6 motorized continuous zoom (2.5x–21x), a built-in 4K HDMI camera, and a 27" 4K monitor.

All models can be upgraded with an optional assistant head, beam splitter, various adaptors, or an external camera to share 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 Steps 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 Tube 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 Wheels Moving Stand with Brakes; 120° Balanced Arm; Max Length of Arm 1100 mm; Distance Between Objective and Ground Surface 730 mm~1250 mm		
Camera	Built-in 4K HDMI Camera		
Control	Control Handle for Photo Capture, Video Record, 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	

A41.192x Accessories

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Optional Accessories			Optional For	Cata. No
Zoom Objective		F=200-450mm	A41.1924 A41.1925	A52.1942-200450
Beam Splitter		1 or 2 Beam Split Port, Attached to Wedge-shaped Extender, Used For: --A53.1941 Assistant Binocular Head --A55.1943 SLR Digital Camera Adapter --A55.1944 Mobile Phone Adapter	All Models	A55.1941-1 A55.1941-2
Head		Assistant Binocular Head (Requires A55.1941 to Function)	All Models	A53.1941
Adapters		SLR Digital Camera Adapter, For Canon or Nikon (Need Confirm Which Brand When Order) (Requires A55.1941 to Function)	All Models	A55.1943
		Mobile *Phone* Adapter & Holder (Requires A55.1941 to Function)	All Models	A55.1944
Stand		Table Stand	A41.1924	A54.1931
		Wall Stand Ceiling Stand	A41.1924	A54.1932 A54.1933

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