



## Dual Head Neurosurgery Brain Surgery ENT Operating Microscope

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A41.1951
- 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

- Main Usage: Neurosurgery, Brain Surgery, ENT
- Diopter: Both Left & Right Eyetube Diopter Adjustable  $\pm 6D$
- Eyepiece: WF12.5x
- Zoom Body: Manual Continues Zoom 1:6, Parallel Light System
- Objective: F=300mm
- Total Magnification: 2x~12.5x
- Highlight: **ent operating microscope,  
Dual Head ent microscope,  
Dual Head Operating Microscope**



### More Images



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## Product Description

### A41.1951, A41.1952 Surgical Operation Microscope Features

A41.1951, A41.1952 Series Operating Microscopes, is advanced high quality series. It use fibre-optic cable for coaxial illumination, with 3 steps zoom body, has total magnification 2x~30x, featured with Motorized Focusing, it is widely used in hospital for Orthopedics, Hand, Chest, Burn And Plastic Surgery, Andrology, Genitourinary, Animal Anatomy and etc.

- 2 People 2 Binocular Manual Swing Head In X Direction +/-45°, In Y Direction +/-90°
- Manual Continuous Zoom 2x~12.5x Objective Parallel Light System
- 2 Directions Motorized Foot Switch Control Focusing Up/Down
- Four Feet With Locking Wheels, Max Extended Length 1100mm
- Coaxial Halogen Illumination, Light Spot Dia.70mm, Max Brightness 60000 Lux



OPTO-EDU (BEIJING) CO., LTD.

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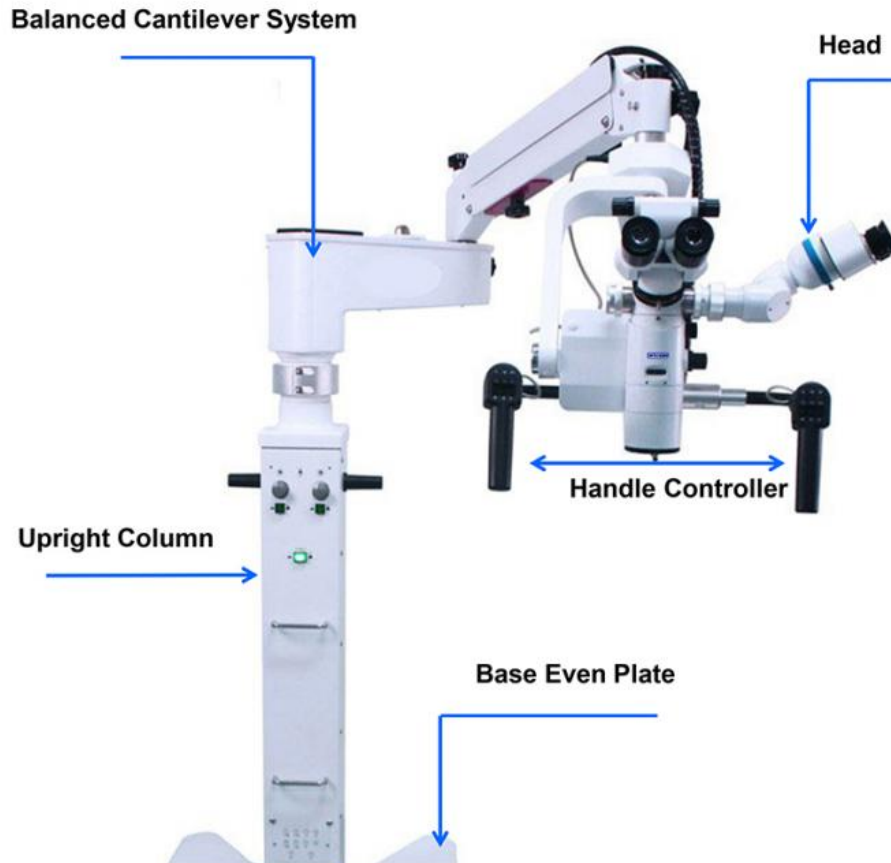
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Tel:+8610 88696020 E-mail:sale@cnoec.com

## A41.1951 Operating Microscope

Dual Head, Motor Zoom, 1.8x~21x, 12 Function Handle,  
For Neurosurgery, Brain Surgery, ENT, Dental



## A41.1951 Details



A41.1951 Operating Microscope, is Best Choice for Neurosurgery, Brain Surgery Operation. It has one main head and one assistant head which can rotate 360° freely, using fiber-optic cable for coaxial illumination up to 100000 lux, 1:11 Zoom Body, has total magnification 1.8x~21x, featured with **Motorized Focusing**, and **8 Functions** foot switch or control handle, it is widely used in hospital for Orthopedics, Hand, Chest, Burn And Plastic Surgery, Andrology, Genitourinary, Animal Anatomy and etc.

A41.1951 Operating Microscope, using high resolution optical system, the microscope has three-dimensional sense of strong, large depth of field, cold light source and double optical fiber coaxial illumination, field luminance; foot controlled automatic fine coke, electric zoom, and has visual, television and video, lighting and other functions; luxury rack, full-featured, suitable for the Department of Brain surgery, ENT, Neurosurgery, dental, microsurgery and teaching demonstration.

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## A41.1951 Details



### A41.1951 Features

--2021 New Best Choice For Neurosurgery, Brain Surgery, Dental, ENT Operation Microscope--Dual Head Binocular, Eyepiece 12.5x, Motorized Zoom 1.8x~21x, Objective F=200~450mm--Main Binocular Variable Angle 0-200°, With Built-in CCD Camera & Software  
 --12 Function Handle Control Focusing, X-Y Moving, Zoom, Photo/Record, Brightness, Auto Focus--Dual Optical Fiber Coaxial Halogen + LED Light 100000 lux, Stand Max Extend Range 1250mm



### 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%.

## A41.1951 Details

### 200-450mm Zoom Objective Lens

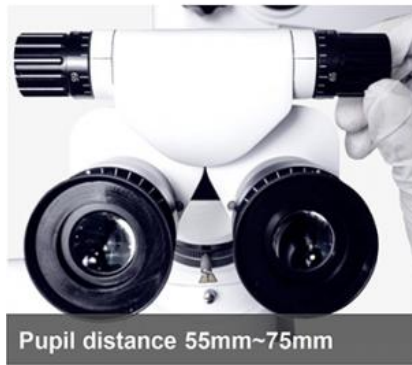


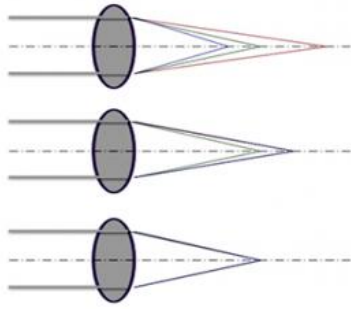
One Button Autofocus





### A41.1951 Details



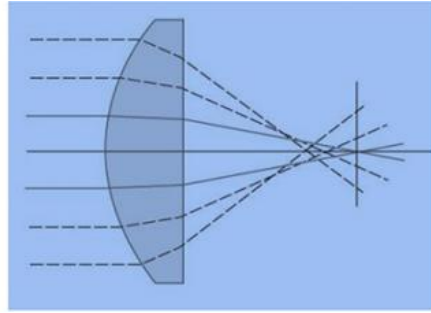
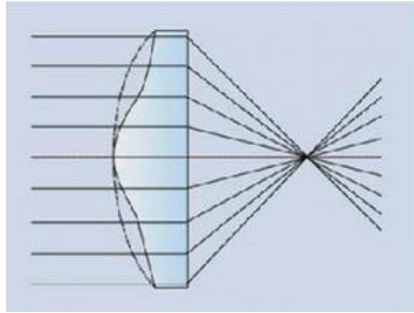


### Complex Achromatic Objective Lens

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.



### WF12.5X High Point Eyepiece

The unique design of the optical system, convenient for doctors with glasses.



## A41.1951 Camera System

Configure the wireless mouse operation, without the computer, free access to high definition images. The product interface is rich, HDMI and USB are synchronously output, high speed SD cards are photographed or recorded video. At the same time, it has the same screen image contrast, HDR (wide dynamic), image freezing, image inversion, digital amplification and other functions. It is widely used in video conferencing, telemedicine, micrograph, video projection and other fields.



Xenon lamp



### Optional Lighting

## Optional Lighting

Optional high luminance xenon lamp light source, illuminance is halogen light source 2, 3 times. The color temperature is high, like the color of the sun. High illumination and long service life.

### Different Angles of A41.1951 Head



0° -200° Binocular Tube Can Suitable For Different Surgeons



Left And Right Pendulum Motorized Controlled By Handle, Inclination Range:  $\pm 45^\circ$



Forward And Backward Pitching Motorized Controlled By Handle , Inclination Range:  $\pm 90^\circ$

### A41.1950, A41.1951, A41.1952 Surgical Operation Microscope

**A41.1950** Operating Microscope, is Best Choice for Neurosurgery, Brain Surgery Operation. It has one main head and one assistant head which can rotate 360° freely, using fiber-optic cable for coaxial illumination up to 100000 lux, **1:6 Zoom Body**, has total magnification 3x~16x, objective F=300mm or 250mm, featured with **Motorized Focusing**, and **8 Functions** foot switch or control handle, it is widely used in hospital for Neurosurgery, Brain Surgery, Spinal, Vascular operation, it can also used for Orthopedics, Hand, Chest, Burn And Plastic Surgery, or Dental, ENT, Andrology, Genitourinary, Animal Anatomy etc.

**A41.1951** is the upgraded version, with built-in CCD camera & software, zoom objective F=200~450mm, 12 functions handle, and dual optical fiber LED + Halogen 100000 Lux light source.

**A41.1952** is the highest model in this series, built-in 2 sets Xenon 300W Light, magnetic lock, and 10 functions handle, it can meet most of surgery operation work with best quality & control.

#### Features:

- Best Choice For Neurosurgery, Brain Surgery, Dental, ENT Operation Microscope
- Dual Head Binocular, Eyepiece 12.5x, Motorized Continuous 1:6 Zoom 3x~16x
- Main Binocular Variable Angle 30-90°, Assistant's Binocular 30° Can Swing 90° or 270°
- 8,10,12 Functions Foot or Handle Control For Zoom, Auto Focus, X-Y Moving, Photo/Video Taking, etc.
- Dual Optical Fiber Coaxial Halogen, LED or Xenon Light 100000 lux, Stand Max Extend Range 1250mm

A41.1950

A41.1951

A41.1952

Main Usage	For Neurosurgery, Brain Surgery, Spinal, Vascular		
Eyepiece	WF12.5x		
Head	Dual Heads For Two People Operation, Assistant Binocular Can Swing 90° to 270° Against Main Head Motorized <b>Swing Head</b> In X Direction +/-45°, In Y Direction +90°, Can Stop At Any Angle Interpupillary Distance 55~75mm, Both Left & Right Eyetube Diopter Adjustable ±6D		
<b>Main Head</b>	Inclined 30°~90°	Inclined 0°~200°	Inclined 0°~200°
Magnification	3x~16x Continuous Zoom	1.8x~21x Continuous Zoom	1.8x~19x Continuous Zoom
View Field	Dia.74~12mm	Dia.13~110mm	Dia.12~113mm
Zoom Body	1:6 Motorized Continuous Zoom, Parallel Light System		
<b>Assistant Head</b>	Inclined 0°		
Magnification	3x~16x Continuous Zoom	3x~16x Continuous Zoom	3x~16x Continuous Zoom
View Field	Dia.74~12mm	Dia.74~12mm	Dia.94~13mm
<b>Main Objective</b>	F=300mm	F=200~450mm	F=200~500mm
<b>Assistant Obj.</b>	F=180mm		
Focus	Motorized Focus, +/-25mm	Motorized Focus 200~450mm	Motorized Focus 200~500mm
Control Switch	8 Functions Handle or Foot •X/Y Moving •Z Focusing •Zoom	12 Functions Handle •X/Y Moving •Z Focusing •Zoom •Take Photo/Video •Review Photo/Video •Auto Focus •Brightness Adjust	10 Functions Handle •Z Focusing •Zoom •Magnetic Lock •Take Photo/Video •Review Photo/Video •Auto Focus •Brightness Adjust
Filter	Yellow Filter, Green Filter, Small Spot		
Camera	Built-in Digital Camera, With Software, Auto Focus Function		
Stand	Four Wheels Moving Stand --Max Extended Length 1200mm --Max Rotatable Swing Angle of Arm 0~300° --Height From Objective to Floor 800~1250mm	Four Wheels Moving Stand --Max Extended Length 1715mm --Max Rotatable Swing Angle of Arm 0~300° --Height From Objective to Floor 690~1452mm	
Lock	Mechanical Lock		<a href="#">Electro Magnetic Lock</a>
Illumination	Dual Optical Fiber Coaxial 2 Halogen Cold Light, Light Spot Dia.50mm, Intensity 100000 Lux.	Dual Optical Fiber Coaxial LED + Halogen Cold Light, Light Spot Dia.50mm, Intensity 100000 Lux.	Dual Optical Fiber Coaxial Built-in 2 Sets <b>Xenon</b> 300W, Light Spot Dia.50mm, Intensity 100000 Lux.
Camera & LCD	None	Built-in Camera & Software	Built-in Camera & Software, LCD Monitor
Packing	4 Cartons Total G.W 165Kg Volume 0.45CBM Head:595×460×230(mm)/14KG Body:890×650×265(mm)/41KG Control:1025×260×300(mm)/32KG Stand:890×865×200(mm)/78KG	4 Cartons Total G.W 215Kg Volume 0.45CBM Head:595×460×230(mm)/14KG Body:890×650×265(mm)/41KG Control:1025×260×300(mm)/32KG Stand:890×865×200(mm)/128KG	



# A41.19 Series Model & Selection Guide



Picture	Model	Magnification	Head & C-Mount	Standard Objective	Optional Objective	Optional	Light Source	Control	Package	Application
	A41.1921	6 Steps, 2.7x, 4.5x, 7.2x, 10.8x, 18x, 27x	One Head 0°-200°	F=250mm	F=175mm F=200mm F=300mm F=350mm F=400mm F=450mm F=180-300mm F=200-500mm	Assistant Head Beam Splitter SLR Adapter Phone Holder CCD Adapter	LED 60000 lux	Manual	3 Cartons, Total G.W 111Kg, Volume 0.381CBM	ENT Dental
	A41.1926	2.5x-21x	One Head 0°-200°	F=250mm	F=175mm F=200mm F=300mm F=350mm F=400mm F=450mm F=180-300mm F=200-500mm	Assistant Head Beam Splitter SLR Adapter Phone Holder CCD Adapter	LED 60000 lux	Manual	3 Cartons, Total G.W 111Kg, Volume 0.381CBM	ENT Dental
	A41.1931	3 Steps, 6x, 10x, 16x	Dual Head 90° 45°+45°	F=200mm	F=175mm F=250mm F=300mm F=350mm F=400mm F=450mm	Beam Splitter SLR Adapter Phone Holder CCD Adapter	Halogen 60000 lux	2 Function Foot Switch Z (Focus)	3 Cartons, Total G.W 104Kg, Volume 0.346CBM	Ophthalmology Fundus Surgery
	A41.1932	3 Steps, 6x, 10x, 16x	Dual Head 45°+45°	F=200mm	F=175mm F=250mm F=300mm F=350mm F=400mm F=450mm	Beam Splitter SLR Adapter Phone Holder CCD Adapter	Halogen 60000 lux	6 Function Foot Switch X/Y/Z	3 Cartons, Total G.W 104Kg, Volume 0.346CBM	Ophthalmology Fundus Surgery
	A41.1935	Motor Zoom 4.5x-27.3x	Dual Head 30°-90°+45°	F=200mm	F=175mm F=250mm F=300mm F=350mm F=400mm F=450mm	Beam Splitter SLR Adapter Phone Holder CCD Adapter	Halogen Dual Fiber 100000 lux	8 Function Foot Switch X/Y/Z/Zoom	4 Cartons, Total G.W 165Kg, Volume 0.45CBM	Ophthalmology Fundus Surgery
	A41.1941	3 Steps, 6x, 10x, 16x	Dual Head 45°+45°	F=200mm	F=175mm F=250mm F=300mm F=350mm F=400mm F=450mm	Beam Splitter SLR Adapter Phone Holder CCD Adapter	Halogen 60000 lux	2 Function Foot Switch Z (Focus)	3 Cartons, Total G.W 104Kg, Volume 0.346CBM	Orthopedics, Plastic Surgery, Hand Surgery, Thoracic Surgery
	A41.1942	3 Steps, 6x, 10x, 16x	Dual Head 45°+45°	F=200mm	F=175mm F=250mm F=300mm F=350mm F=400mm F=450mm	Beam Splitter SLR Adapter Phone Holder CCD Adapter	Halogen 60000 lux	6 Function Foot Switch X/Y/Z	3 Cartons, Total G.W 104Kg, Volume 0.346CBM	Orthopedics, Plastic Surgery, Hand Surgery, Thoracic Surgery
	A41.1945	Motor Zoom 4x-24x	Dual Head 30°-90°+45°	F=200mm	F=175mm F=250mm F=300mm F=350mm F=400mm F=450mm	Beam Splitter SLR Adapter Phone Holder CCD Adapter	Halogen Dual Fiber 100000 lux	8 Function Foot Switch X/Y/Z/Zoom	4 Cartons, Total G.W 165Kg, Volume 0.45CBM	Orthopedics, Plastic Surgery, Hand Surgery, Thoracic Surgery
	A41.1950	Motor Zoom 3x-16x	Dual Head 30°-90°+0° Beam Splitter	F=300mm Or F=250mm	F=175mm F=200mm F=250mm F=300mm F=350mm F=350mm F=350mm F=450mm	SLR Adapter Phone Holder CCD Adapter	Halogen Dual Fiber 100000 lux	8 Function Handle or Foot Switch X/Y/Z/Zoom	4 Cartons, Total G.W 169Kg, Volume 0.45CBM	Neurosurgery Brain Surgery Dental ENT
	A41.1951	1.8x-21x	Dual Head 0°-200°+0° Beam Splitter Built-in CCD Software	Built-in F=200-450mm	/	SLR Adapter Phone Holder	LED +Halogen Dual Fiber 100000 lux	12 Function Handle X/Y/Z/Zoom Auto Focus XY Pendulum Photo/Video Brightness	4 Cartons, Total G.W 169Kg, Volume 0.45CBM	Neurosurgery Brain Surgery Dental ENT

## A41.19 Series Optional Accessories

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Optional Accessories		Optional For	Cata. No
Objective		F=175mm	A52.1941-175
		F=200mm	A52.1941-200
		F=250mm	A52.1941-250
		F=300mm	A52.1941-300
		F=350mm	A52.1941-350
		F=400mm	A52.1941-400
		F=450mm	A52.1941-450
Zoom Objective		F=180-300mm	A41.192x Series A52.1941-180300
		F=200-500mm	A41.192x Series A52.1941-200500
Head		Assistant Binocular Head	A41.192x Series A53.1941
Beam Splitter		Wedge-shaped Splitter, 1 Port	A41.192x Series A55.1941
		Beam Splitter, 2 Ports	A41.193x Series A41.194x Series A55.1942
Adapter		SLR Digital Camera Adapter, For Canon or Nikon (Need Confirm Which Brand When Order)	A41.192x Series A41.193x Series A41.194x Series A41.195x Series All Models A55.1943
		Mobile Phone Adapter & Holder	A41.192x Series A41.193x Series A41.194x Series A41.195x Series All Models A55.1944
		Digital CCD Camera Adapter	A41.192x Series A41.193x Series A41.194x Series A41.195x Series All Models A55.1945
Digital Camera		38M, 1/2.3", Output HDMI+USB+TF Card, HDMI Resolution Photo 60M, Video 2K@30FPS, 1080p@60FPS, USB Resolution 2.0M, HDMI+USB Output At Same Time, USB Measuring Function, Input DC12V, C/CS Mount, Including HDMI Cable, USB Cable, Remote Controller, Adapter, Manual, 16G TF Card	A41.192x Series A41.193x Series A41.194x Series A41.195x Series All Models A59.4231
Light Source		Xeon Light Source, 250W	A41.193x Series A41.194x Series A41.195x Series A56.4844
BIOM System Kit		For Fundus Surgery, Splitter+Holder+130°+90° Lens, Mounting Kits For Zeiss, Leica, Topcon	A41.193x Series A55.1931



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