



## A41.1903 One Head 0-180° Manual Step Zoom Dental Operating Microscope 4.8x -16x

### Our Product Introduction

for more products please visit us on [cnoec.com](http://cnoec.com)

#### Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE,
- Model Number: A41.1903
- 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

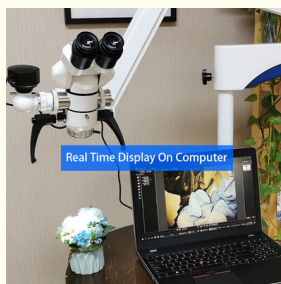


#### Product Specification

- Binocular Observation: Tilting Head 0°-180° Viewing Angle Adjustable For User
- Magnification Of Binocular: 8X
- Magnification Of Eyepiece: 12.5X
- Interpupillary Distance: 50mm-80mm
- Diopter:  $\pm 7D$
- Magnification Changer: 3-step Magnification Change: 0.6X, 1X, 1.6X
- Focal Length Of Objective: Two Objectives: F=200 & F=250mm (M45x0.75mm)
- Total Magnification: 4.8X, 8X, 12.8X, 6X, 10X, 16X
- Linear Field: 50mm, 30mm, 19mm, 40mm, 24mm, 15mm
- Filter: Built-in Green And Yellow Filters
- Highlight: **dental operating microscope 4.8x,  
dental operating microscope 16x,  
one head ophthalmic operating microscope**



#### More Images



## Product Description



OPTO-EDU (BEIJING) CO., LTD.

OPTO-EDU

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### A41.1903

Operating Microscope, 0~180° , Manual Step Zoom, 4.8x~16x,  
For Dental, ENT, Ophthalmology, Gynecology



### A41.1903

Operating Microscopes, is the basic economical high quality model with best cost performance.

It use fiber-optic cable for coaxial illumination, with 3 steps zoom body, has total magnification 2.3x~12x, featured with flexible handling, easy operation, optional beam splitter C-Mount to connect digital camera & computer!

It is widely used in hospital for ENT (ear-nose-throat), dental, ophthalmology, gynecology, surgery, orthopedics and etc.

## Economic Operating Microscope

OPTO-EDU

16000 Super Low Price 17556  
\$3734

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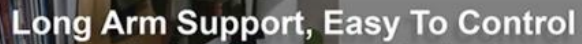






Tilting 0~180° 8x binocular head, interpupillary distance 50~80mm adjustable, Large adjustable space, convenient for operators

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2-Part arm with universal joints, counterweight adjustable and lockable, convenient operation and improved surgical quality



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WF10x/23mm

A41.1903Series Operation Microscope Optical Characteristics												
Eyepiece	WF12.5x/20mm											
Focal Length (mm)	F=200mm			F=250mm			F=300mm (Optional)			F=400mm (Optional)		
Zoom Body	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x
Total Magnification	16x	10x	6.0x	12.8x	8.0x	4.8x	10.7x	6.7x	4.0x	8.0x	5.0x	3.0x
Linear Field (mm)	15.0	24.0	40.0	19.0	30.0	50.0	23.0	37.0	60.0	30.0	48.0	80.0
Diameter of Spot (mm)	57.00			71.00			86.00			113.00		
Exit Pupil Distance (mm)	20.00											

Eyepiece	WF10x/23mm											
Focal Length (mm)	F=200mm			F=250mm			F=300mm (Optional)			F=400mm (Optional)		
Zoom Body	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x	1.6x	1.0x	0.6x
Total Magnification	12.8x	8.0x	4.8x	10.2x	6.4x	3.8x	8.5x	5.3x	3.2x	6.4x	4.0x	2.4x
Linear Field (mm)	16.0	26.5	43.0	20.0	33.0	53.0	24.5	39.5	64.5	32.0	52.5	85.5
Diameter of Spot (mm)	57.00			71.00			86.00			113.00		
Exit Pupil Distance (mm)	25.00											



			
<b>F=200</b>	<b>F=250</b>	<b>F=300</b>	<b>F=400</b>
For Ear, Nose, Ophthalmology	For Dental	For Ear, Nose	For Throat

### Objective Lenses For Different Operation

Multiple focal length objective lens selection, meeting the application of multiple operation needs.

#### A41.1903 Details

**OPTO-EDU**



### Step Zoom Body 0.6x, 1x, 1.6x

Good depth of field and binocular fusion, which can meet various surgical needs



### Yellow & Green Filters

Improve resolution, increase image contrast, and make operators operate more accurately



Yellow Filters



No Filters



Green Filters

### Yellow & Green Filters

Improve resolution, increase image contrast, and make operators operate more accurately



### 10W LED Optical Fiber For Coaxial Illumination

Sufficient brightness, uniform illumination and adjustable brightness ensure imaging quality and avoid patient injury



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### Floor-Standing, Easy To Move

2-Part Column + Five Star Base With Caster



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2-Part Column + Five Star Base With Caster

### A41.1903 Specification

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#### A41.1903 Operation Microscope











- For Dental, ENT, Ophthalmology, Gynecology
- 8x Tilting 0~180° Binocular
- Total Magnification 4.8x~16x,
- Step Zoom Body 0.6x, 1x, 1.6x
- Objectives F=200mm, 250mm, 300mm, 400mm
- 10W LED High Brightness Light Source
- 2 Parts Column + Five Star Base With Caster

Model	A41.1903 Operation Microscope
Binocular Head	Tilting 0~180°
Main Usage	Dental, ENT, Ophthalmology, Gynecology
Total Magnification	With Objective F=200mm: 6.0x, 10x, 16x With Objective F=250mm: 4.8x, 8.0x, 12.8x
Total Magnification (Optional)	With Objective F=300mm: 4.0x, 6.7x, 10.7x With Objective F=400mm: 3.0x, 5.0x, 8.0x
Eyepiece	WF12.5x/20mm
Head Magnification	8x
Interpupillary Distance	50~80mm Adjustable
Diopter	Both Left & Right Eyetube Diopter Adjustable $\pm 7D$
Zoom Body	3 Steps Zoom: 0.6x, 1.0x, 1.6x
Objective	F=200mm For Ear, Nose, Ophthalmology F=250mm For Dental
Objective (Optional)	F=300mm For Ear, Nose F=400mm For Throat
Focusing	Fine Focusing Range 10mm
Filter	Green, Yellow Filters Built-in
Balancing Arm	2-Part Arm With Universal Joints, <b>Counterweight Adjustable And Lockable</b>
Stand	2-Part Column + Five Star Base With Caster
Illumination System	Coaxial Illumination, 10W LED, Brightness Adjustable, >40000 Lux
Power Supply	Wide Range AC100~240V, DC12V 3A, 36W











## A41.1903 Operation Microscope Optional Accessories

Head		Teaching Head, Demonstrator	A55.1910
		Tilttable Head, Inclinable Angle: 0-180°, Eyepiece 12.5X/20mm, Interpupillary Distance 50~80mm, Magnification 8x, F=160mm, Distance of Center 22mm. Optional Eyepiece: 10x/23mm	A53.1903-01
		Tilttable Head, With PD Adjust Knob Inclinable Angle: 0-180°, Eyepiece 12.5X/20mm, Interpupillary Distance 50~80mm, Magnification 8x, F=160mm, Distance of Center 22mm. Optional Eyepiece: 10x/23mm	A53.1903-02
Eyepiece		WF10x/23mm	A51.1901-1023
Objective		F=200mm	A52.1901-200
		F=250mm	A52.1901-250
		F=300mm	A52.1901-300
		F=400mm	A52.1901-400
		F=200mm/250mm/300mm Zoom, Connection Thread: M47x0.5mm(Zeiss) / M65x0.5mm(Leica), Or M47x0.75mm / M51x0.75mm / M56x0.75mm, Or Customized According To Customer Requirements	A52.1902-01
		F=200mm/250mm/300mm Zoom, With Splash Cover Connection Thread: M47x0.5mm(Zeiss) / M65x0.5mm(Leica), Or M47x0.75mm / M51x0.75mm / M56x0.75mm, Or Customized According To Customer Requirements	A52.1902-02

A41.1903 Operation Microscope Optional Accessories			
Beam Splitter		50:50 Beam Splitter	A55.1906
Adapter		C-Mount 0.3x For 1/3" Digital Camera	A55.1903
		SLR Camera Adapter For NIKON DSLR Or CANON SLR	A55.1904
Digital Camera		5.0M, 1/2.5" CMOS, USB2.0, C-Mount, Fixed USB Cable, With Software Opto-Edu Image Viewer	A59.4910
		60M, 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	A59.4231
Monitor Mount Holder		Monitor Mount: 1 Fix Arm And 1 Gas Spring Arm With Tension Adjustable. Band Clamp. Fit 15-27" Screen. VESA Standard 75x75xmm & 100x100mm. Load Capacity 0~8 Kgs, Swivel 180°, Tilt -80°~+90°, Rotation 360°	A54.1910-112B
		Monitor Mount: 1 Fix Arm And 1 Mechanic Spring Arm With Tension Adjustable. Band Clamp. Fit 15-27" Screen. VESA Standard 75x75xmm & 100x100mm. Load Capacity 0~8 Kg, Swivel 180°, Tilt -80°~+90°, Rotation 360°	A54.1910-312B
Monitor		Screen 23.8", 16:9, IPS, Spot Distance 0.25mm; Contrast 1000:1; Input : VGA+HDMI; Resolution 1920X1080@60Hz; Response Time 5ms; Power AC100-240V, 60HZ/50HZ. With VESA Mount Hole 75*75mm, Can Mount On Holder	A54.1910-238
Mount		Table Mount Clamp	A54.1901-T
		Wall Mount Bracket	A54.1901-W

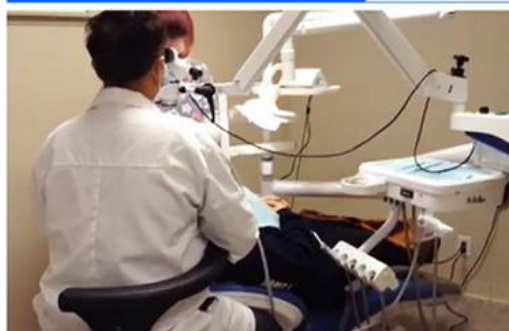
## A41.190 Series Operation Microscope

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Picture	Catalogue No.	Total Magnification	Head C-Mount	Body Magnification	Standard Objective	Optional Objective	Light Source	Stand Foot Switch Optional	Package	Application
	A41.1901-A	3x~12x	One Head 90°	Manual Step 0.6x, 1x, 1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	5 Star Stand Foot Switch Cannot Use Beam Splitter	2 Ctns 0.23CBM 49Kgs	ENT
	A41.1901-B	3x~12x	One Head 45°	Manual Step 0.6x, 1x, 1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	5 Star Stand Foot Switch Cannot Use Beam Splitter	2 Ctns 0.23CBM 49Kgs	Dental Gynecology Ophthalmology
	A41.1901-C	3x~12x	One Head 90°	Manual Step 0.6x, 1x, 1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	Table Mount Cannot Use Beam Splitter	1 Ctn 0.11CBM 15Kgs	ENT
	A41.1901-CZ	3x~12x	One Head 90°	Manual Step 0.6x, 1x, 1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	Pole Mount Cannot Use Beam Splitter	1 Ctn 0.11CBM 15Kgs	ENT
	A41.1901-D	3x~12x	One Head 45°	Manual Step 0.6x, 1x, 1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	Table Mount Cannot Use Beam Splitter	1 Ctn 0.11CBM 15Kgs	Dental Gynecology Ophthalmology
	A41.1902-C	3x~12x	One Head 90° Beam Splitter C-Mount	Manual Step 0.6x, 1x, 1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	5 Star Stand Optional: Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	ENT
	A41.1902-D	3x~12x	One Head 45° Beam Splitter C-Mount	Manual Step 0.6x, 1x, 1.6x	F=200mm F=300mm	F=400mm	Coaxial Light	5 Star Stand Optional: Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	Dental Gynecology Ophthalmology
	A41.1903	4.8x~16x	One Head 0-180°	Manual Step 0.6x, 1x, 1.6x	F=200mm F=250mm	F=300mm F=400mm	Coaxial Light	5 Star Stand Beam Splitter Teach Head SLR Camera Mount	2 Ctns 0.26CBM 59Kg	ENT Dental Gynecology Ophthalmology

## A41.1903 Application

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**A41.1903 Operating Microscope**  
Working in customer's hospital for  
ENT, dental work





**A41.1903 Operating Microscope**  
 +Beam splitter  
 +C-Mount  
 +Digital Camera  
 +Teaching Head Demonstrator  
 +Monitor mount  
 +LCD monitor

### A41.1903 Packing

**OPTO-EDU**



### A41.1903 More Picture



A41.1903 + A54.1901-T Table Mount Clamp



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