

# Operation Microscope

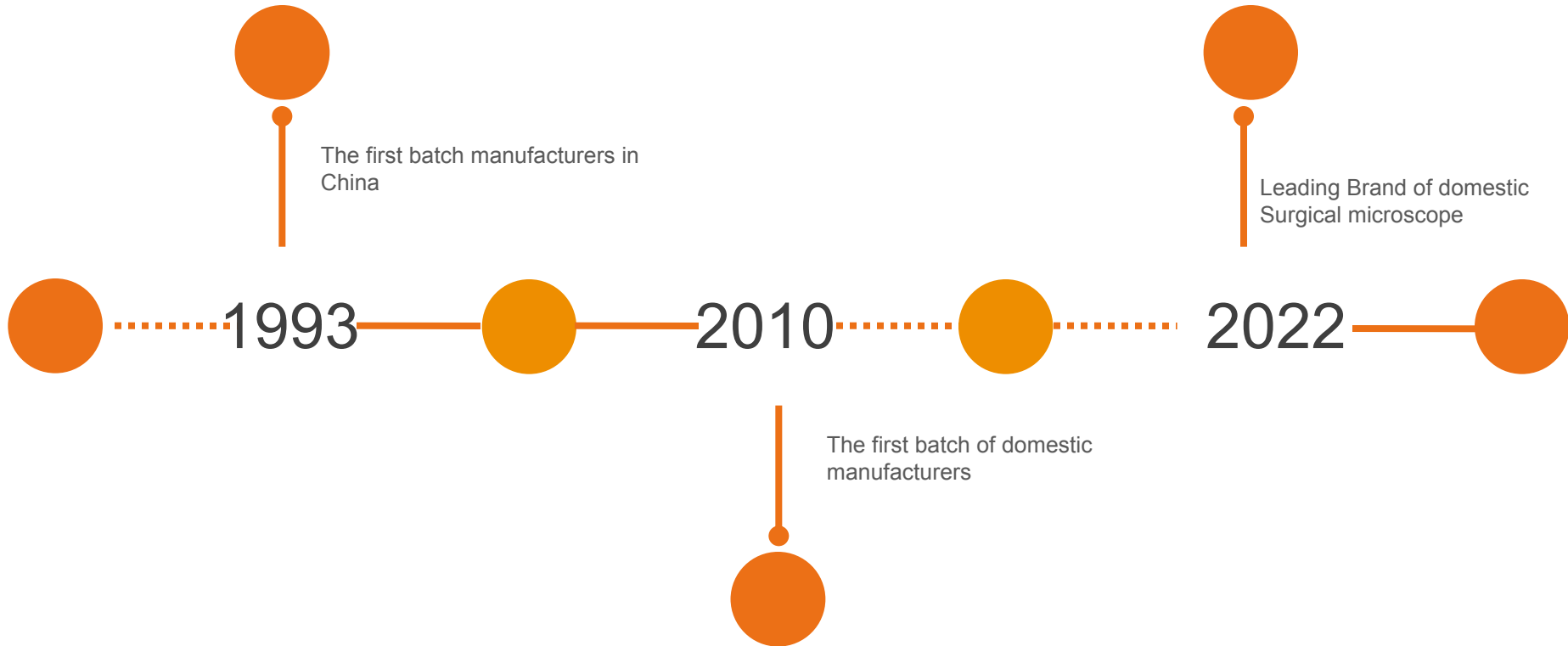


ASOM-5  
Series

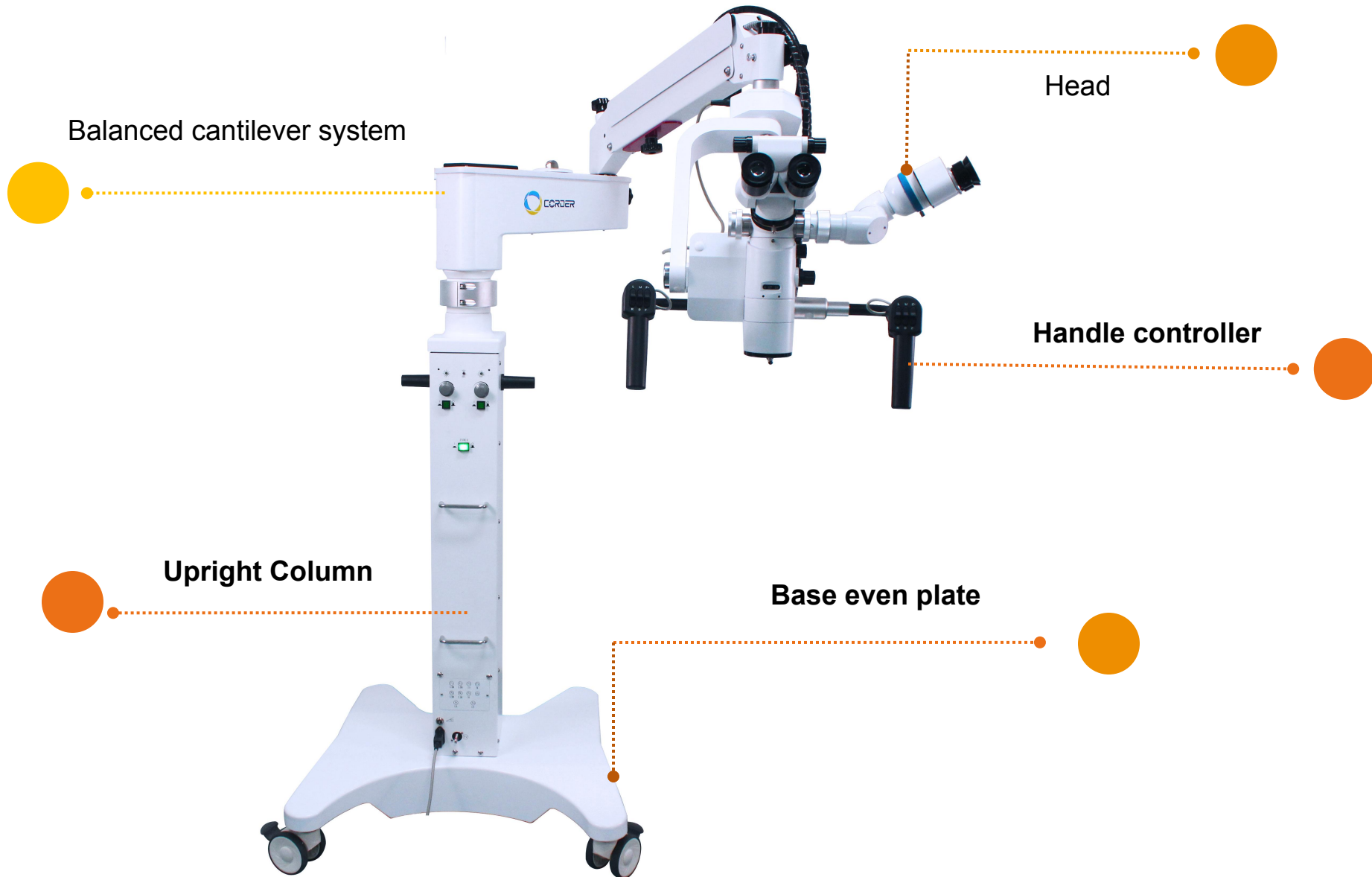
Chengdu Corder Optics And Electronics CO.,Ltd.

# Company Course

Corder has been in market more than 20 years



# Microscope Structure



# ASOM-5-D Features

0°~200°Variable angle binocular tube,  
Alleviating long - term fatigue

Motorized magnification 1.8x-16x

Build-in 100000 Lux LED light source ,  
halogen lamp for back up.

200-450mm VarioDist Objective Lens

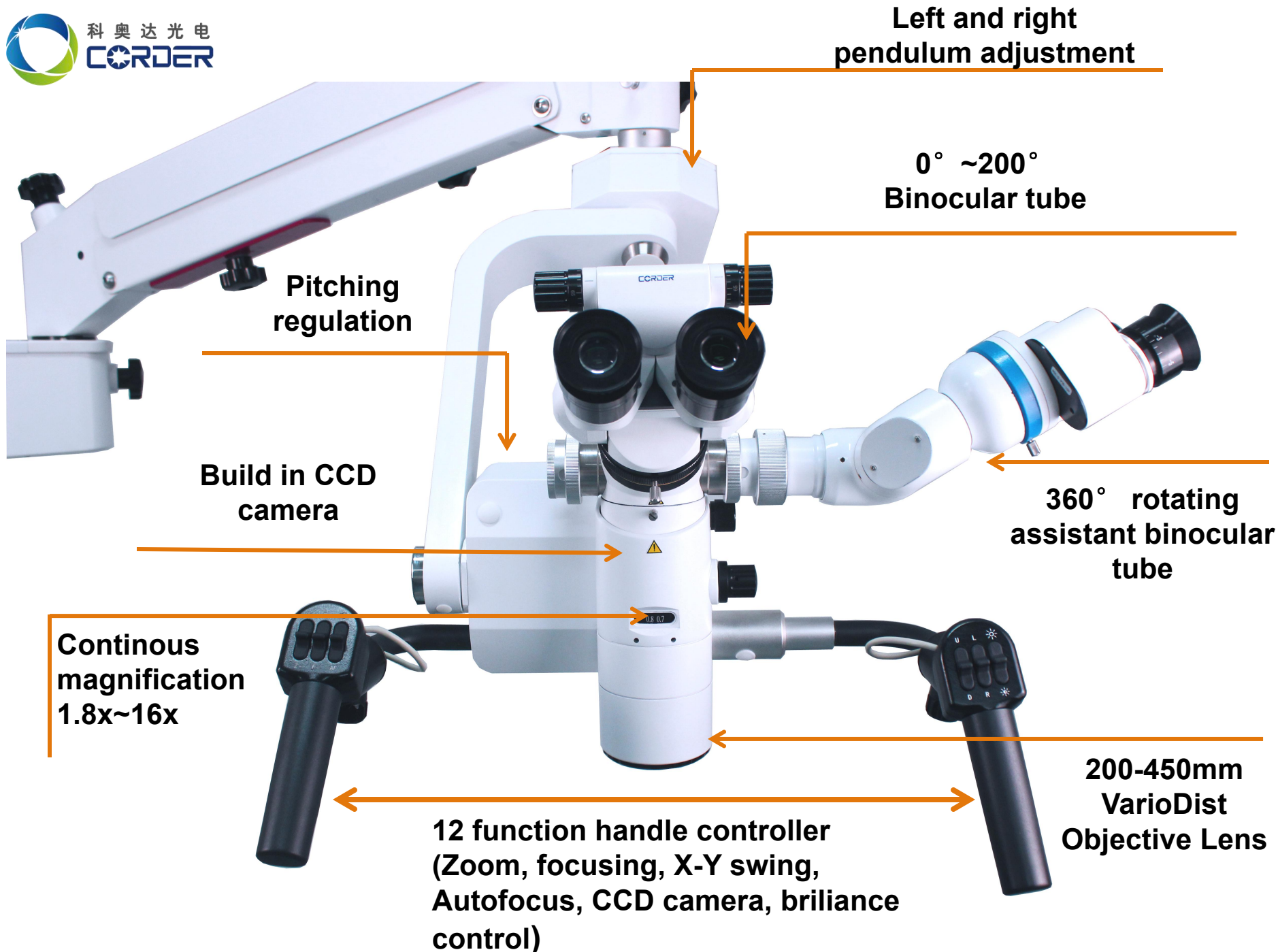
The head, front and back tilt and left and right  
pendulum are adjusted and locked automatically

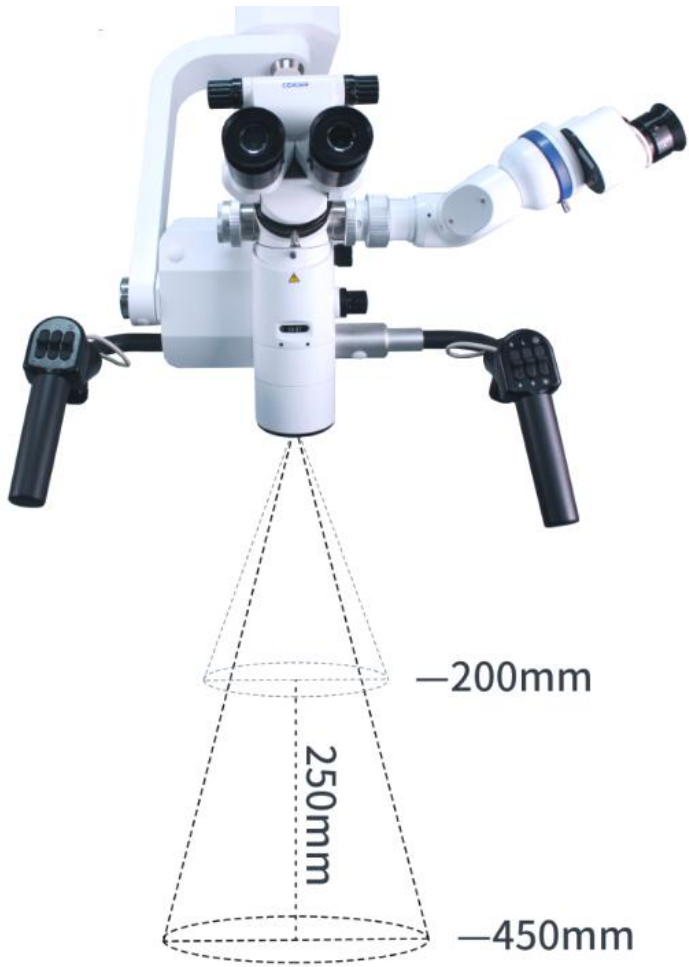
Optional Autofocus function

Optional Build in CCD camera control by handle



High resolution optical system using the ASOM-5-D type microscope, three-dimensional sense of strong, large depth of field, cold light source and double illumination; Handle 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.

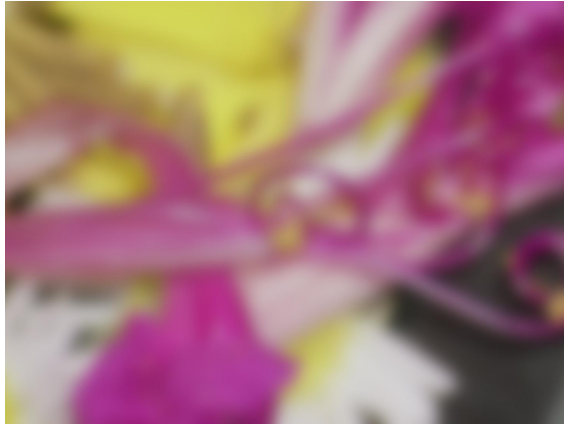




200-450mm VarioDist  
Objective Lens



Autofocus



One button autofocus

Focus

Short press take pictures  
long press take vedios

Pitching regulation

ZOOM



Autofocus



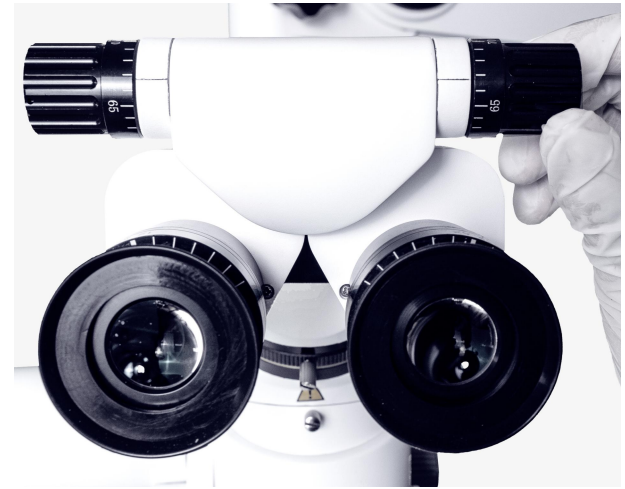
Brightness adjust

Left and right  
pendulum  
adjustment

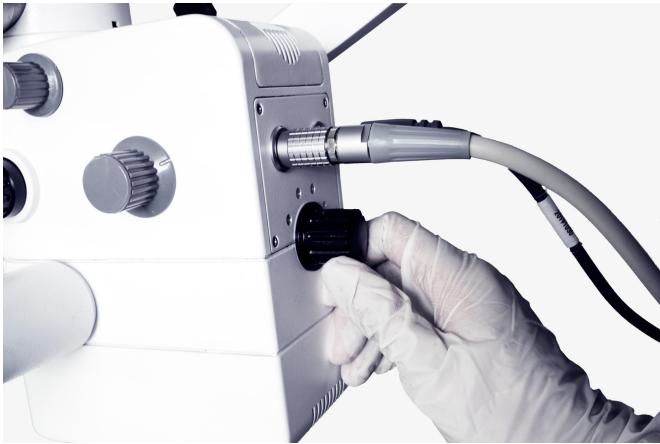
12 functions handle controller (Zoom, focusing, X-Y swing, Autofocus, CCD camera, brightness control)



Adjustable eyecup in eyepiece suitable for with glass and without glass



Pupil distance 55mm~75mm



Small light spot, blue filter and Yellow filter



Electric & manual infinite zoom





0°-200° Binocular tube can  
suitable for different Surgeons



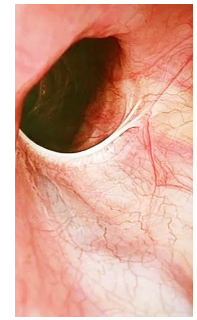
Left and right pendulum moterized  
controlled by handle, Inclination  
range:  $\pm 45^\circ$



Forward and backward pitching moterized controlled by handle , Inclination range:  $\pm 90^\circ$



With double-sided splitter, the rotating assistant tube can be on either side, another side directly connect to the camera interface.



Yellow filter, Green filter and small spot



LED illumination and halogen lamp for backup



Equipped with spare light bulb, it can be switched quickly during operation



6 magnetic lockings  
control by handle

2 sets 300W & 300W  
xenon lamps

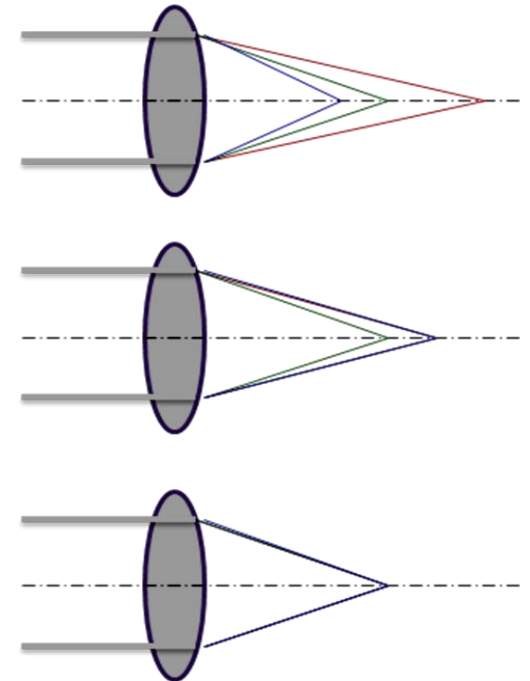
- Multilayer coating technology, the light transmittance is up to 98%



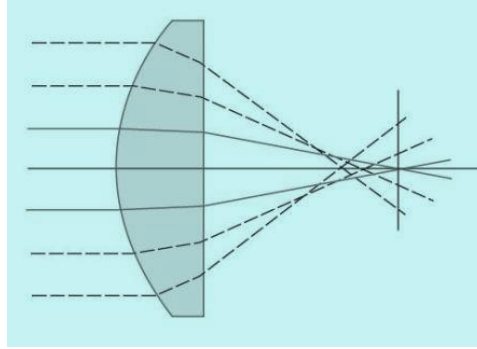
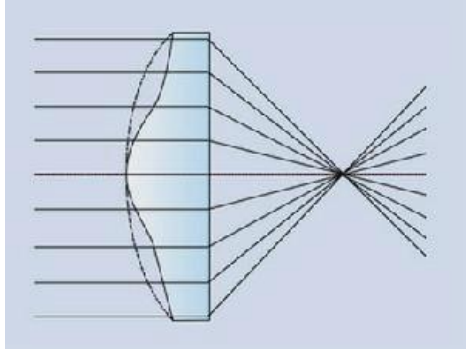
Through multilayer coating technology, we can reduce light reflection attenuation, increase light transmission and improve brightness. The multilayer coating technology we use can achieve optical energy passing rate of 98%.

- Complex achromatic objective lens

Optical design of apochromatic correction can not 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.

## 12.5X high point eyepiece

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



Neurosurgery、ENT、 Brain surgery、 Spine



## Eyepieces

magnification 12.5x, pupil distance adjustable range 55mm~75mm, diopter adjustment range +6D ~ -6D.

## Binocular tube

0° ~200° variable angle binocular tube, add new pupil distance adjustment

## Magnification

6:1 zoom, motorized continuous, magnification 1.8x~21x; field of view  $\Phi 13\sim\Phi 110\text{mm}$

## Coaxial assistant's binocular tube

Free-rotatable assistant stereoscope, all direction circumvolve freely, magnification 3x~16x; field of view  $\Phi 74\sim\Phi 12\text{mm}$

## Illumination

100w LED lifetime more than 100000 hours , illumination intensity 100000lux

## Focusing

Motorized 200-450mm

## X-Y swing

The head can swing in X direction  $\pm 45^\circ$  motorized, and in Y direction  $+90^\circ$  ,and can stop in any angle

## Filter

Yellow filter, Green filter, small spot

## Maximum length of arm

1200mm

## New stand

swing angle of the carrier arm 0 ~300° ,height from objective to floor 800mm<H<1250mm

## Handle controller

12 functions (zoom, focusing, X-Y swing, take vedio/photo,browse pictures ,autofocus, brightness adjust)

## Weight

169kg

## Camera system

Optional build-in 4k camera system, can take vedio/photo, browse pictures

Optional autofocus function

Neurosurgery、 ENT、 Brain surgery、 Spine



## **Eyepieces**

magnification 12.5x, pupil distance adjustable range 55mm~75mm, diopter adjustment range +6D ~ -6D.

## **Binocular tube**

0° ~200° variable angle binocular tube, add new pupil distance adjustment

## **Magnification**

6:1 zoom, motorized continuous, magnification 1.8x~21x; field of view  $\Phi 13\sim\Phi 110\text{mm}$

## **Coaxial assistant's binocular tube**

Face-to-face 0° ~200° variable angle binocular tube

## **Illumination**

100w LED lifetime more than 100000 hours , illumination intensity 100000lux

## **Focusing**

Motorized 200-450mm

## **X-Y swing**

The head can swing in X direction  $\pm 45^\circ$  motorized, and in Y direction  $+90^\circ$  ,and can stop in any angle

## **Filter**

Yellow filter, Green filter, small spot

## **Maximum length of arm**

1200mm

## **New stand**

swing angle of the carrier arm 0 ~300° ,height from objective to floor 800mm<H<1250mm

## **Handle controller**

12 functions (zoom, focusing, X-Y swing, take video/photo,browse pictures ,autofocus, brightness adjust)

## **Weight**

169kg

## **Camera system**

Optional build-in 4k camera system, can take video/photo, browse pictures

Optional autofocus function

Neurosurgery、 ENT、 Brain surgery、 Spine



## Eyepieces

magnification 12.5x, pupil distance adjustable range 55mm~75mm, diopter adjustment range +6D ~ -6D.

## Binocular tube

0° ~200° variable angle binocular tube, add new pupil distance adjustment

## Magnification

6:1 zoom, motorized continuous, magnification 1.8x~21x; field of view  $\Phi 13\sim\Phi 110\text{mm}$

## Coaxial assistant's binocular tube

Free-rotatable assistant stereoscope, all direction circumvolve freely, magnification 3x~16x; field of view  $\Phi 74\sim\Phi 12\text{mm}$

## Illumination

300w & 300 W xenon lamp , each lillumination intensity 100000lux

## Focusing

Motorized 200-500mm

## Stand system

electromagnetic brakes

## Filiter

Yellow filter, Green filter, small spot

## Maximum length of arm

1594mm

## New stand

Height from objective to floor 710mm<H<1305mm

## Handle controller

10 functions (zoom, focusing, magnetic lock, take vedio/photo,browse pictures ,autofocus, brightness adjust)

## Weight

215kg

## Camera system

Build-in camera system, can take vedio/photo, browse pictures

At Autofocus function



Neurosurgery、ENT、 Brain surgery、 Spine



## **Eyepieces**

magnification 12.5x, pupil distance adjustable range 55mm~75mm, diopter adjustment range +6D ~ -6D. Focus of second object lens 180mm.

## **Binocular tube**

30° ~90° variable angle binocular tube, add new pupil distance adjustment

## **Magnification**

6:1 zoom, motorized continuous, magnification 3x~16x; field of view  $\Phi 74\sim\Phi 12\text{mm}$

## **Coaxial assistant's binocular tube**

Free-rotatable assistant stereoscope, all direction circumvolve freely, magnification 3x~16x; field of view  $\Phi 74\sim\Phi 12\text{mm}$

## **Coaxial illumination**

0° assistant's binocular can swing all direction circumvolve freely, illumination diameter of light spot  $\Phi 50\text{mm}$ , illumination intensity 100000lux

## **Objectives**

f300mm (200mm, 250mm,350mm,400mm etc )

## **Focusing**

motorized, range +/-25mm, speed 33s/whole distance

## **X-Y swing**

The head can swing in X direction +/-45° motorized, and in Y direction +90° ,and can stop in any angle

## **Maximum length of arm**

1200mm

## **New stand**

swing angle of the carrier arm 0 ~300° ,height from objective to floor

800mm<H<1250mm

## **Handle controller**

8 functions (zoom, focusing, X-Y swing)

## **Weight**

164kg

## Model Compare

<b>Model</b>	<b>ASOM-5-C</b>	<b>ASOM-5-D</b>	<b>ASOM-5-E</b>
<b>Light source</b>	2 Halogen lamp	LED lamp & Halogen lamp	2 sets 300W xenon lamp
<b>Motorised Focus</b>	+/- 25mm	200-450mm	200-500mm
<b>Binocular tube</b>	30-90 degree tube	0-200 degree tube	0-200 degree tube
<b>Handle Function:</b>	X-Y moving, zoom ,focusing	X-Y moving, zoom ,focusing ,autofocus, brighness,CCD camera	Magnetic, zoom ,focusing ,autofocus, brighness,CCD camera
<b>Lens</b>	300/350mm	200-450mm	200-500mm
<b>Camera system</b>	Optional extra CCD camera	Optional build-in CCD camera	Optional build-in CCD camera
<b>Locking</b>	Mechanical locking	Mechanical locking	Magnetic locking



Display



Short press take pictures  
long press take vedios

### CORDER Camera System

Build in CCD camera, can take pictures and vedios by haldle controller. Sotre by U disk which can connect directly to computer to veiw pictures and vedios. HDMI and 4K recorder for optional.



## Lighting

Except integrated LED and halogen lamp, Optional high luminance xenon lamp light source 10000lux. The color temperature is high, like the color of the sun. High illumination and long service life.



Xenon Lamp



Xenon lamp



360° rotating  
assistant tube



CCD



Splitter



CCD Interface



Wedge-shaped  
splitter



Camera adaptor



Mobile adaptor



REGISTRATION NO. 04718Q10000041

**CERTIFICATE OF QUALITY MANAGEMENT  
SYSTEM FOR MEDICAL DEVICES**

This is to certify that the quality management system of  
Chengdu Corder Optics & Electronics Co., Ltd.

Registered Address: Gaofa Building, 6<sup>th</sup> Jiuxing Road, High-tech Zone,  
Chengdu, Sichuan, China Postcode: 610207

Manufacturing Address: Secondary floor Room 201-203/205-211/216, No  
187 Section one Changcheng Road ,West Airport Economic  
Development Zone, Shuangliu County, Chengdu, Sichuan, China

Has been assessed and conformed to the following standard(s)  
YY/T 0287-2017 idt ISO 13485:2016

The certificate is valid for the following scope:  
The Design, Development, Production  
and Service of Operation Microscope.

Date of issue: January 19, 2018  
Date of expiry: January 18, 2021

General Manager:

**BELJING HUA GUANG CERTIFICATION  
OF MEDICAL DEVICES CO., LTD.**

Note: This certificate will not be valid until the organization has been approved in the annual audits. The certificate information are available on the website of the certification and accreditation administration of the People's Republic of China (www.cnca.gov.cn) or the website of CMD (www.cmdc.com.cn). Address: 5<sup>th</sup> floor of Zhong Lian building, No. 88, An Ding Men Wai street, Dongcheng district, Beijing, 100011, P.R. China Telephone: 010-62351993



REGISTRATION NO. 04718Q10035R4S

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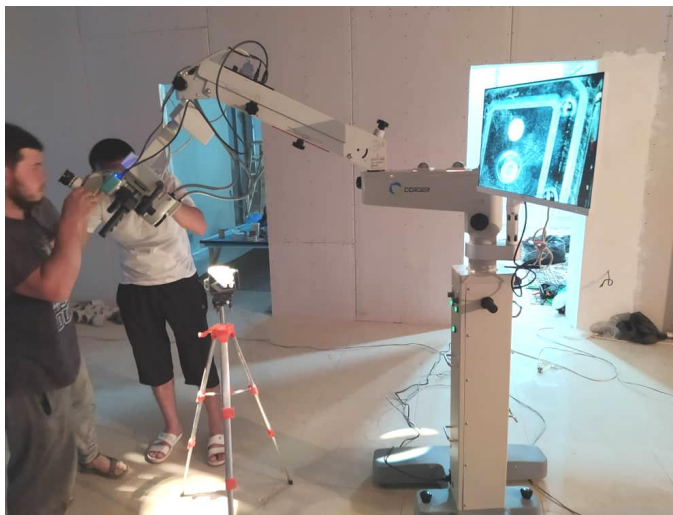


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MANAGEMENT SYSTEM  
CNAS C047-M

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