## CONFIGURATION OF AM-2000 SERIES SURGICAL MICROSCOPE

| Model No. | Magnification | Binocular/Eyepiece | Eyepiece | Camera | Objective Lens | Support System |
|---|---|---|---|---|---|---|
| AM-2000 | Manual 5-Step | 0-180°inclinable with pupillary distance adjustment | 12.5X/18B | Nil | 250mm Objective with fine focus | Floor Stand or Fixed Stand or Ceiling Mount or High-position Wall Mount or Low poristion Wall Mount |
| AM-2000V | Manual 5-Step | 0-180°inclinable with pupillary distance adjustment | 12.5X/18B | Nil | 250-430mm Objective with fine focus | |
| AM-2000VC | Manual 5-Step | 0-180°inclinable with pupillary distance adjustment | 12.5X/18B | ALL-CAM2 | 250-430mm Objective with fine focus | |
| AM-2000VC-4K | Manual 5-Step | 0-180°inclinable with pupillary distance adjustment | 12.5X/18B | ALL-CAM4 | 250-430mm Objective with fine focus | |

### Accessories of AM-2000 Series Surgical Microscope

| Description of goods | Purpose |
|---|---|
| Straight Binocular Head | Observation binocular is parallel to optic axis of zoom ratio system of microscopes |
| 45° Binocular Head | Observation binocular is at 45° angle to optic axis of zoom ratio system of microscopes |
| Binocular Extender(90°) with Angle Rotation Device | Used with sugical microscopes, it turns the light transmission direction 90° and realizes the function of turning the microscope within a certain range while keeping the binoculars level |
| F200mm Fixed Focus Objective Lens | 200mm working distance, with a fine adjustment range of 12mm |
| F300mm Fixed Focus Objective Lens | 300mm working distance, with a fine adjustment range of 12mm |
| F400mm Fixed Focus Objective Lens | 400mm working distance, with a fine adjustment range of 12mm |
| Variable Objective Lens (200mm to 310mm) | Able to work under a wide range of working distance of 200-310mm |
| Variable Objective Lens (250mm to 430mm) | Able to work under a wide range of working distance of 250-430mm |
| Beam Splitter | Used with surgical microscopes, to split the beam and output the light source proportionally through a standard mechanical interface |
| Camera Adapter | Used to connect external camera when used with operating microscope |
| Camcorder Adapter | Used to connect external camcorder when used with operating microscope |
| 2-D Rotation Binocular Assistant Scope | Used with surgical microscope, can achieve rotating in a specific direction when used to connect external binocular assistant scope |
| 3-D Rotation Binocular Assistant Scope | Used with surgical microscope, can achieve rotating in three direction when used to connect external binocular assistant scope |
| Full Function Camera | Used with surgical microscope, it can realize the functions of taking pictures, video recording, image review, picture comparison, measurement, etc. |
| FS-1 / FS-2 Wireless Foot Switch | Controlling photography&recording when use with Full HD camera |
| Wireless Transfer Kit | Used with surgical microscope, for wireless transmission of real-time images |
| Monitor Bracket | Used with surgical microscope, Used to install the monitor on the microscope post |
| Fixed Floor Stand | Stand for fixing the surgical microscopes to floor |
| Ceiling Mount | Bracket for fixing the surgical microscopes to ceiling |
| Wall Mount | Bracket for fixing the surgical microscopes to wall |
| 950mm Extension Arm | Larger wingspan range, suitable for special use situations and environments with higher wingspan length requirements |

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# AM-2000 SERIES SURGICAL MICROSCOPE

Solution for the pain points of users, leader of segment market of B class.

По вопросам поставки — Кавитрон kavitron.ru mail@kavitron.ru +7 (495) 686-47-83

■ Knob-shifted Pupillary Distance Adjustment Upgradable Binocular




# Thumb-shifted Adjustment

## Features of the Product:

The objective lens of entire series are designed with a thumb-shifted adjustment.
The variable objective lens has a focusing range of 200mm-310mm or 250mm-430mm, and a fixed-focus objective lens has a fine-fousing range of 12mm.

## Advantages of the Product

With the use of an ergonomic hand grip,
users can realize one-handed manipulation and focusing of the microscope,
which greatly improves the convenience of use.

## Benefits for Customer:

Users can realease one hand to keep practicing,
ensuring the ease of use of the surgical microscope.














# Optical Performance

**Features of the Product:**

Excellent controlling for scatter light&Multi-coated with all parts of optical element.

**Advantages of the Product:**

Excellent design for scatter light can eliminate over 90% of harmful scatter light out of the field of view. Multi-coated can raise transparent rate of light over 20% comparing with single layer coating.

**Benefits for Customer:**

Without harmful scatter light,but with high definition,high-resolution,clearly for users observing, effectively reduce visual fatigue to protect users' eyes.



decay sealant



# Integrated DC Power Supply

**Features of the Product:**

Provide 5V and 12V DC power supply interface on the microscope main mirror.

**Advantages of the Product:**

Exterior camera or cellphone could be charged here. No need to worry about endurance of electronics products.

**Benefits for Customer:**

Two types of normal voltage output available for almost all kinds of electronics products. Alltion also can customize a dedicated po-wer supply cable.

QUALITY VISIBLE




# Medical Adapter for Power Supply

**Features of the Product:**

Use 12V medical adapter for power supply.

**Advantages of the Product:**

Power bank could be used as power supply.

**Benefits for Customer:**

Provide users with guaranteed security and considerable convenience.

# Integrated DC Power Supply

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Two types of normal voltage output available for almost all kinds of electronics products. Alltion also can customize a dedicated po-wer supply cable.



# No Exposed Cables

**Features of the Product:**

The whole machine uses the internal wiring layout, and no exposed cables can be seen.

**Advantages of the Product:**

The whole machine is simple and beautiful, and the operation is flexible.

**Benefits for Customer:**

Without the pulling of an external cable, the control of the microscope head will be more flexible, and the microscope can perfectly integrate the use environment of the clinic.




# Convenient Maintenance

**Features of the Product:**

Modular design.

**Advantages of the Product:**

Quickly troubleshoot faulty modules, quickly repair and maintain.

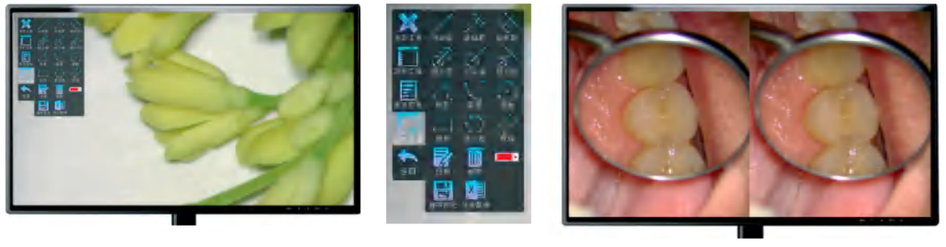
**Benefits for Customer:**

The troubleshooting and repair of machine failures can be completed within 10 minutes.




# Exclusive Camera Solution

A full function full HD camera system tailored for AM-2000, which perfectly combines high-value, high-performance and balance.



A full function full HD camera system comes with photo to photo comparison, photo and real-time image comparison, measurement and other functions



Wireless Foot Pedal



Mouse




Button

Three types of photography and recording



Extender + Rotation Device Kit



45° Binocular Extender



Angle Rotation Device



0-180° Inclinable Binocular



3D Rotation Binocular Assistant Scope Kit



30 ° Binocular Extender with Beam Splitter



3D Rotation Binocular Assistant Scope Connector



0-180° Inclinable Binocular



Camcorder / CCD camera Adapter Kit



Beam Splitter(2:8 or 5:5)



Camcorder / CCD camera Adapter




Camcorder / CCD camera



SLR camera Adapter Kit



Beam Splitter(2:8 or 5:5)



SLR camera Adapter



SLR camera

# Recommended Configuration

## Practical Configuration

**AM-2000 Fixed-focus Type**

Manual 5-Step magnification

0-180° inclinable binocular with pupillary distance adjustment

120° connecting arm

F250mm fixed focus objective lens

LED lighting(5 modes)

Mobile floor stand

**AM-2000V Variable Type**

Manual 5-Step magnification

0-180° inclinable binocular with pupillary distance adjustment

120° connecting arm

Variable objective lens (250mm to 430mm)

LED lighting(5 modes)

Mobile floor stand







## Camera Configuration

**AM-2000VC Fixed-focus Camera Typ**

Manual 5-Step magnification

0-180° inclinable binocular with pupillary distance adjustment

120° connecting arm

Variable objective lens (250mm to 430mm)

ALL-CAM2

LED lighting(5 modes)

Mobile floor stand

**AM-2000VC-4K Variable camera Type**

Manual 5-Step magnification

0-180° inclinable binocular with pupillary distance adjustment

120° connecting arm

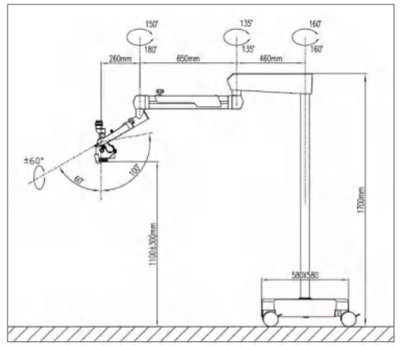
Variable objective lens (250mm to 430mm)

ALL-CAM4

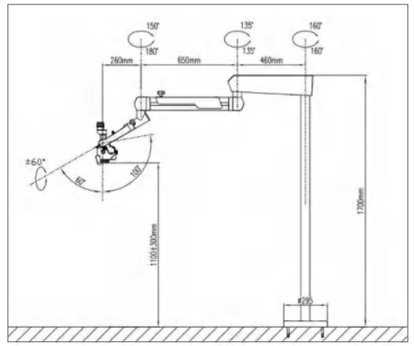
LED lighting(5 modes)

Mobile floor stand

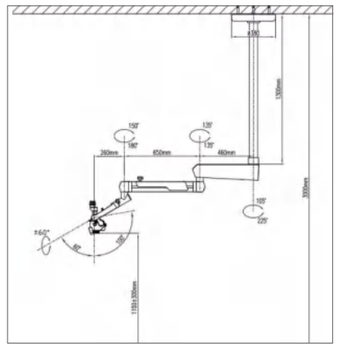
## Various Pictures of AM-2000 Stand



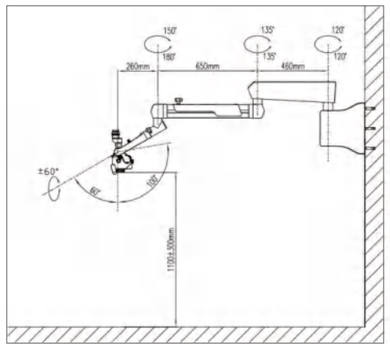

Mobile Floor Stand



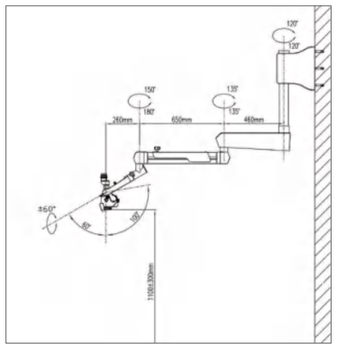

Fixed Floor Stand




Celling Mount




Low-position Wall Mount




High-position Wall Mount

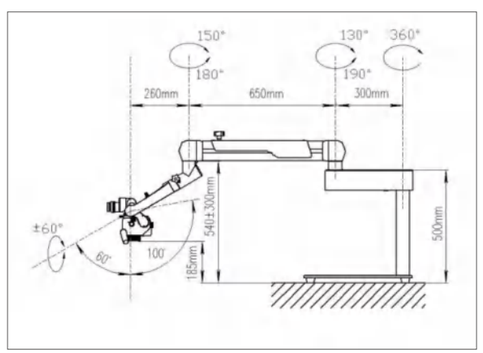



Table Mount

## Technical Parameters of AM-2000 Series Surgical Micrscope

| | | | |
|---|---|---|---|
| Optical system | Microscope body | Standard configuration | Optional |
| | Magnification System | Manual 5-step | |
| | Objective lens | Variable objective lens(F200-310mm) | Fix-focus objective lens(F250mm)/ Variable objective lens(250-430mm) |
| | Zoom range | Under the 250mm fixed-focus objective lens, the magnification is 3.4/5.3/8.5/13.6/21X | |
| | Binocular | 0-180° variable-angle turntable pupil distance adjustment binocular | 45° binocular |
| | Adjustable interpupillary distance | 50-75mm | |
| | Eyepiece | 12.5X/18B | 10X/21B |
| | Lens technology | Apochromatic technology | |
| | Diopter | ±6D | |
| | Optical extender | 30° angle binocular extender + rotation device | 45°/ 90° angle binocular extender + rotation device |
| Illumination system | LED lights | Life ≥ 50000 hours | |
| | Illuminance | The illuminance reaches 80,000lx when equipped with a 250mm fixed-focus objective lens | |
| | Color rendering index | >85% | |
| | Color temperature | 5700K | |
| | Light spot | No filter large/medium/small spot, orange filter, green filter | |
| Electrical System | Camera module | | ALL-CAM2/ALL-CAM4 |
| | Rated voltage | Adapter input: AC100-240V, 50/60HZ, output: DC12V/3A | |
| | Input power | 35-60VA | |
| Stand system | | Mobile floor stand | Ceiling mount, Low-position wall mount, High-position wall mount, Fixed floor stand, Table clamping mount, Tablet mount |

## Optional Camera Parameters

| Type | ALL-CAM2 | ALL-CAM4 |
|---|---|---|
| Photosensitive chip | 1/2 inch SONY high sensitivity, low noise CMOS | 1/1.8 inch SONY 8 million pixels high sensitivity, low noise CMOS |
| Resolution | HD 1080P 60FPS(16：9) | 4K(3840*2160) |
| Photo size | 2M,4M,8M | 8M (3840*2160)/2M (1920*1080) |
| Storage | External 64G U disk | External 64G U disk |
| Data format | Photo: JPG format, video: MP4 format | Photo: JPG format, video: MP4 format |
| Image transmission | Internal WIFI/external WIFI real-time multi-point transmission, HDMI high-definition real-time transmission | Built-in WIFI real-time multipoint transmission, HDMI real-time 4K transmission |
| Basic founctions | Freeze, take photo, video, auto exposure, white balance, echo, crosshair | Freeze, take photo, video, auto exposure, white balance, echo, crosshair |
| Image effect | Exposure value, optimal brightness, gain, red gain, blue gain, saturation, contrast, sharpness, metering area, HDR, parameter settings | Exposure value, optimal brightness, gain, red gain, blue gain, saturation, contrast, sharpness, metering area, HDR, parameter settings |
| Advanced Functions | Flip horizontally/vertically, reduce/enlarge, A0I, image contrast | Flip horizontally/vertically, reduce/enlarge, A0I, image contrast |
| Image transmission | WIFI multi-point real-time transmission, HDMI high-definition transmission | WIFI multi-point real-time transmission, HDMI high-definition transmission |
| System settings | Automatic naming/self-naming, time display/hidden time, display LOGO/hide LOGO, language, resolution, naming settings, system update, factory reset, internal WIFI/external WIFI, version information | Automatic naming/self-naming, time display/hidden time, display LOGO/hide LOGO, language, resolution, naming settings, system update, factory reset, internal WIFI/external WIFI, version information |
| power supply | 5V | 12V |
| power | 6.5W-9W | 10-25VA |
| computer system | Windows system | Windows system |
| Phone system | Android system, I0S system | Android system, I0S system |