



**ALLTION®**

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CE FDA ISO



## AM-5000

### Surgical Microscope

Built-in 4K camera system

198-455mm Variable objective lens

White and fluorescence illumination

**ALLTION®**



## Six Features



Built-in 4K camera system



198–455mm Variable objective lens



White and fluorescence illumination



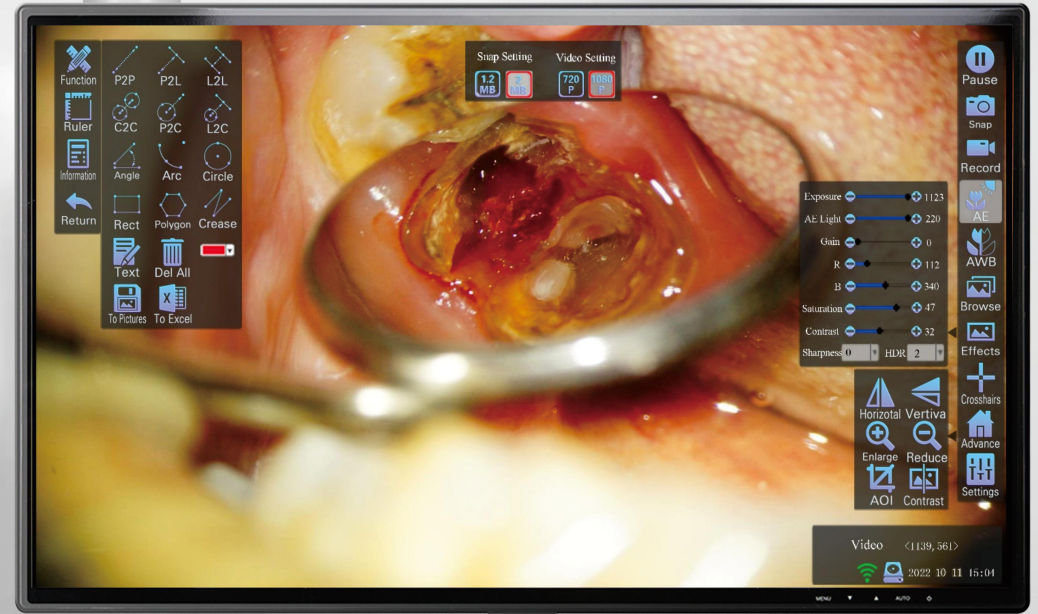
Manual 6-step magnification



Single-handed operation



Multi-function knob



## Built-in 4K Camera System



Photograph



Video recording



Freeze



Image storage to USB disk



Contrasting photo-photo, photo-live images



Images can be transferred to mobile phones and computers via Wi-Fi



Double HDMI channel output



Image, video recording



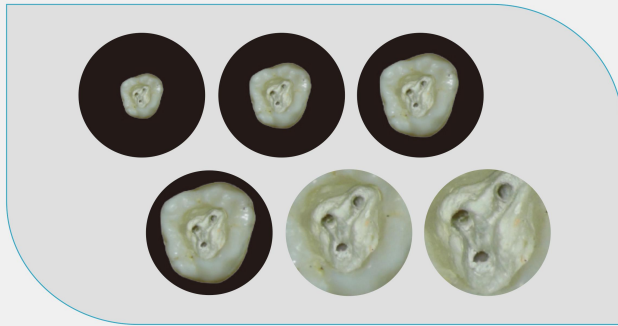
Mouse operated



photograph and video recording Mouse operated Image, video recording

## Manual 6-Step Magnification

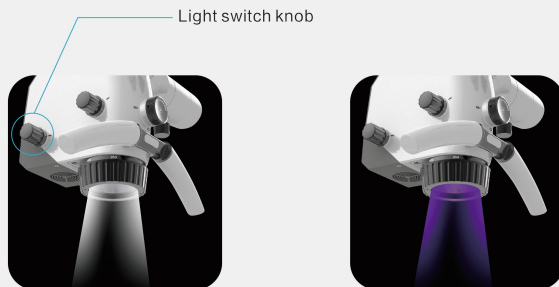
- \* With the 198-455mm variable objective, the magnification is from 1.4X to 22.8X;
- \* 1 more step than the conventional 5-step zoom for higher magnification.



## White and Fluorescence Illumination

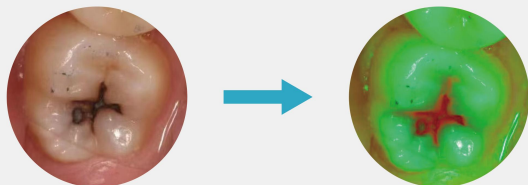
2 modes of illumination, white and fluorescence.

The light switch knob is linked to the anti-violet shield, which is automatically moved into the light path to protect the user's eyes when switched to fluorescence mode. In fluorescence mode, the bad tissue of the tooth will appear red, helping the doctor to easily remove the bad parts and preserve as much healthy tissue as possible.



White light

Fluorescence



## Variable Objective Lens

Extra large working distance: 198 - 455 mm; to meet the requirements of people's different heights.  
Also available with objective lens 250mm (300/400mm are optional)



Zoom knob

Multi-function knob

Variable objective lens

## Single-Handed Operation

Without taking your hand off the handle, the zoom knob, multi-function knob and variable objective lens can be operated with your thumb, making it easy to perform common functions with one hand.

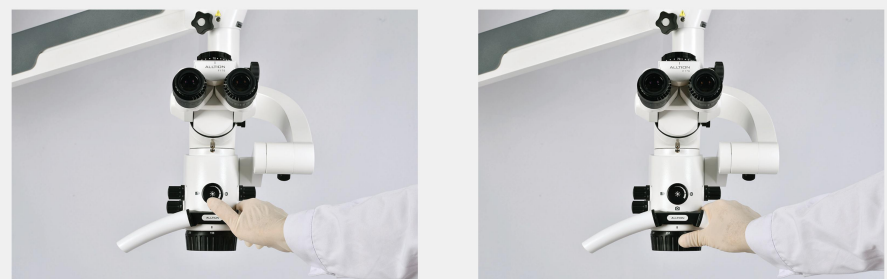
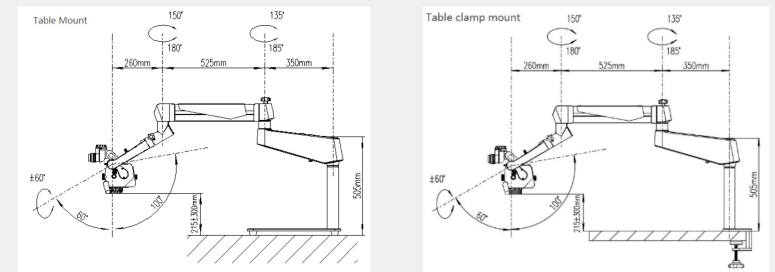
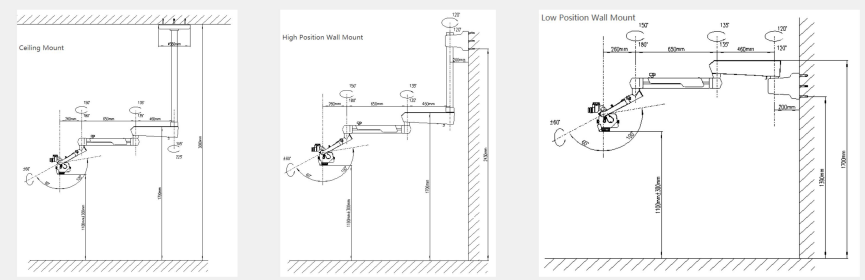
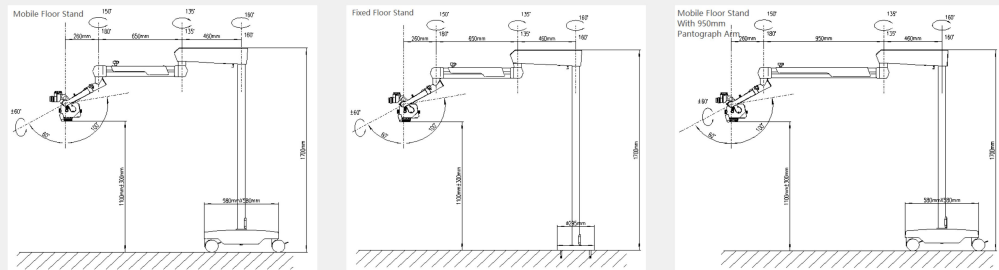


Figure of Support System of AM-5000



## Optional Accessories



Extender+rotation device kit



45° Binocular extender

+



Angle rotation device

+



0-180° Inclination binocular



0-180° Inclination binocular



45° Inclination binocular



Straight binocular



FORA  
Flexible optics rotating assembly



3D Rotation binocular  
assistant scope kit



30° Binocular extender + beam  
splitter + rotation device

+



3D Rotation binocular  
assistant scope connector

+



0-180° Inclination binocular



ALL-CAM 4  
4K camera system



ALL-CAM 2  
2K camera system



30° Binocular extender + beam  
splitter + rotation device



Mobile phone adapter



Mobile phone adapter kit



30° Binocular extender + beam  
splitter + rotation device

+



Mobile phone adapter

+



Mobile phone



90° Binocular extender +  
rotation device



45° Binocular extender



30° Binocular extender +  
rotation device



Face-to-face with  
stereo bridge



1198-455mm Variable objective lens



250-430mm Variable objective lens



200-300mm Variable objective lens



10X/21mm/12.5X/18mm eyepiece



Mobile phone adapter kit



30° Binocular extender + beam  
splitter + rotation device

+



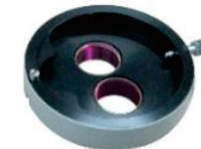
SLR Camera adapter



SLR Camera



2:8/5:5 Beam splitter



Laser protecting filter



Angle rotation device



Depth of field strengthen device



SLR camera adapter



F180 camera adapter



Camcorder adapter



2D assistant scope



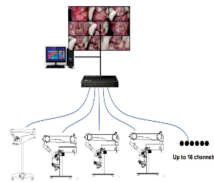
3D assistant scope



Wireless transfer kit



HDMI capture card



Interaction system between teaching & learning of surgical microscope



Monitor



Monitor bracket



Wireless foot pedal



Splash guard



Sterilization cover



Endodontic Simulator

## Flexible Optics Rotating Assembly(FORA) Pendulum Function by FORA Is Available.

FORA(Flexible Optics Rotating Assembly including 90° binocular extender, pendulum rotation device and beam splitter 50%:50%/ 20%:80%)

It allows operator to remain his natural and straight posture while he is observing the patient with a certain angle. He can change the direction of the optical pod only, but while keeping the binocular at its position.



Vertical set



Inclined Set



# Main Specification of AM-5000 Series Surgical Microscope

	Type	Standard	Optional
Optic	Zoom ratio	Manual 6-step magnification	
	Objective	Variable objective lens, working distance: 198-455mm	Objective lens( 250mm/ 300mm/ 400mm)
	Magnification	1.4X-22.8X	
	Binocular	0-180° Adjustable binocular with variable angle interpupillary distance adjustment	45° Binocular/ straight binocular
	Range of pupillary distance	50mm-75mm	
	Eyepiece feild	12.5X/18B	10X/21B
	Glass technology	Premium quality apochromatic technology	
	Diopter	± 7D	
	Optical extender		30° Binocular extender+ beam splitter+ rotation device/ 90° binocular extender+rotation device/ 45° binocular device + rotation device
	Illumination	LED	Lifetime 250,000 hours
Objection illumination		Illumination up to 80,000lx with a 250mm fixed focus objective	
Color rendering		≥85%	
Color Temperature		5500K	
Filter		Small spot filters without filters, brilliant colours filters	
Intestinal maw			Intestinal mawInternal luminescent device
Power supply	Camera	Built-in camera(see the table below for detailed parameters)	
	Rated Voltage	Input: AC100-240V,SO/6OH; output: DC12V/3A	
	Input power	25-80VA	
Support system		Floor Stand	Floor stand/fixed floor stand/ceiling mount/ low position wall mount/high position wall mount/ table mount/table clamp mount

## Specification of Built-in 4K Camera

Sensor	1/1.8" SONY 8 million pixel high-performance, high sensitivity and low-noise CMOS
Interfacet	HDMI 2.0 1pc/ USB 2.0 1pc (for mouse)/USB 3.0 1pc (for connect USB flash disk)/ 3.5 audio interface 1pc (for sound recording)
Resolution	4K (3840*2160) 60FPS (16:9)
Storage	Connect external USB flash disk (support FAT32 and NTFS formats); picture: JPG format; video: MP4 format
WIFI	Built-in WIFI function, it can transmit images
Optical data	Camera split ratio: 2:8; beam split ration: 2:8 (5:5 for option)
Vedio resolution	4K 30FPS, 1080P 30FPS
Picture resolution	8M (3840*2160), 2M (1920*1080)
Basic functions	Freeze, photograph, video recording, automatic exposure, white balance, play back and cross curve, sound recording
Image effect	Exposure value, best brightness, gain, red gain, blue gain, saturability, contrast ratio, definition and HDR
Advanced functions	Horizontal flip, vertical flip, zoom out, zoom in, AOI and image comparison
System settings	Automatic/autonomous naming, show/hide time, show/hide LOGO, eleven languages for option (Chinese, English, German, French, Spanish, Italian, Portuguese, Swedish, Japanese, Russian, Polish), image resolution, naming setting, system update, restore default, version information