

ALLTION 6000 SERIES



zone
MEDICAL

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AM-6000 Series Surgical Microscope

Alltion Dental Microscopes are ideal surgical & operating microscopes for daily endodontic treatment in Dental Clinics as well as for Multi- Surgeries.

With the Alltion Dental Microscope range, purchasing a high-quality dental microscope does not need to cost the earth. Featuring precision, German-manufactured optics, durable design and the most recent illuminating and visualization technologies, Zone Medical is proud to offer multiple Alltion dental microscope models – all of them guaranteed to enhance the performance, patient involvement, and efficiency of your endodontic clinic, dentistry team, or surgical department.

Fantastic Built-In Features at an Affordable Price

Advantages come as standard with every Alltion model and include:

- Inclinable 180° binocular heads with generous, adjustable interpupillary distance and eye-cups
- Standard objective lenses supplied by Schott® Optical Glass
- An award-winning Red Dot and IF concept and product designer
- Streamlined & cable-free design with the option to incorporate your logo
- Wide field view for use with or without glasses
- Floor, wall, ceiling-mounted or extremely stable fixed floor models
- A wide range of accessories and options to suit every clinic, department and practice
- Built-in orange and green filters for ultimate UV protection in composite work and perfect tissue visualization
- Ergonomic design to minimise muscle strain and improve posture
- Compact & well-balanced armature to enhance any endodontic practice, large or small
- Excellent manoeuvrability
- Alltion ALL-CAM2 technology – the 'all CAN do' for high definition visualization and shared documentation (Optional)
- SSD hard drive connections and built-in camera memory



The Alltion 6000 series includes the above list of default benefits, together with continuous zoom (1:8), built-in beam splitter, HD camera and optional video recorder. Media can be shared with other Windows and Android applications after saving to the device memory (32 GB SSD) or directly to a USB flash drive by way of a connector. Recordings and photography options also include wireless foot pedal, mouse and hand-grip controls. The 6000 series has a built-in beam splitter for quality photography, recordings, dental nurse assistance and training.

The wider 23mm eye piece, twin LED illumination (60,000 hours life), 0 – 180° inclinable binocular head, fiber-optic connection point, and a standard 250mm objective lens with options up to 400mm make the 6000 series a very popular choice.



In 20 years of using microscopes, the AM 6000 is the first All-in-One compact OM that I have encountered which allows easy communication between the dentist, the patient and the assistant without costly equipment, thanks to its integrated HD camera (HDMI & Wifi).

- Dr. Denis Honegger, Switzerland

Unique Features

23mm eyepiece for large field of view Easy to Observe comfortably

Eyepiece of microscopes from other brands with only 18mm or 21mm field of view, are uncomfortable and hard to view through.

Optional Built-in beam splitter

The beam splitter will allow connection of an assistant scope or digital SLR camera.

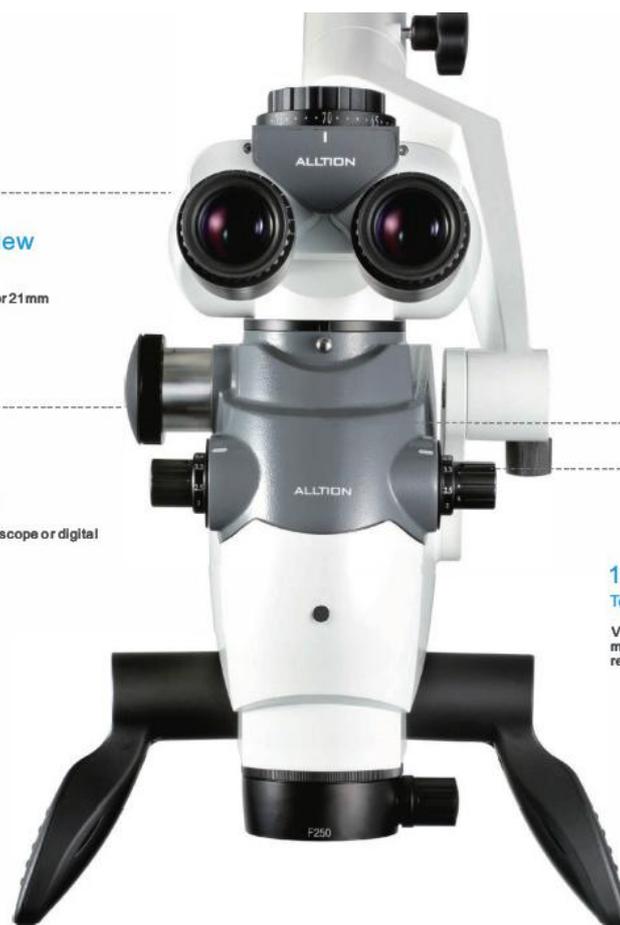
Optional Built-in Full Function Camera Brief but not simple

Not only photography & recording, but also measurement, contrasting and many more functions.

1:8 zoom ratio system

Total magnification range: 3.4X-27.7X

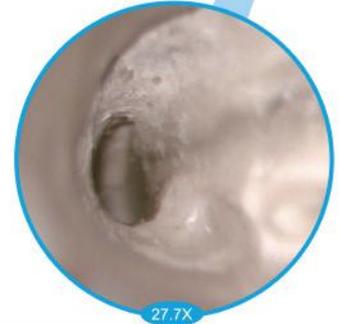
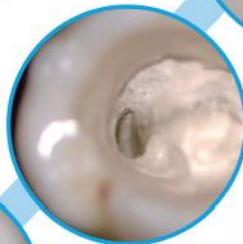
View will be cut off when zooming in or out with a step magnification system. Range of 1:6 zoom ratio system will be relatively smaller than 1:8 zoom ratio system.



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1 :8 zoom ratio system

Every detail can be seen from corona dental crown to apical.

- Low ratio for adjusting the view (or Oral repair operation)
- Medium ratio for clinical operation (e.g.:dental pulp operation)
- High ratio for examination.

3.4X-27.7X, from low to high swifting continually ensuring complete view.



There are different ergonomic ways, according to one's needs, of attaching magnetically an iPhone or a tablet.

- Dr. Denis Honegger, Switzerland

Built-in Full Function Camera

Ergonomic and various designs for recording still images and videos



Adjust the colour, clarity and other related parameters



The built in camera features contrasting photo-photo images



wireless foot pedal



mouse



hand grip button

Three types of photography and recording



Cracks

Crown Preparation

Dentin Variation



Milk Teeth

Prox. Decays

Sealant

Photos courtesy of Dr. Denis Honegger in Versoix, Switzerland



Photos courtesy of Dr. Hendrik Heinzelmann in Bad Gersfeld, Germany



Photos courtesy of Dr. Vladislav Pavlov in St. Petersburg, Russia

Simple balance adjustment
The balance is easily adjusted by the top knob

Personalization can be achieved
Four round covers on both ends of the suspension arm can be personalized with the name of the clinic or doctor.

950mm Suspension arm
Long reach, convenience & flexibility provide more options for the layout in the clinic.

Tension adjustment knob
Tension knob for easy adjustments.

Shining LOGO
Intelligent detection for electrical fault and reminders. Double margin power supply for improved reliability.

Built-in power cable
Power cable and HDMI cable are integrated in the stand column and their socket is mounted the stand base. It looks clean and cable free.

Handgrips
360° rotatable, Could be pulled out and rotate to any direction. Being convenient to use. Handling softly, Ergonomic design based on the shape of the hands. Sterilize, The handgrips could be pulled out to be sterilized, no need to be covered by sleeves in use.

45° Binocular Extender + Rotation Device, meet your operational requirements as we can.

Illuminating Mode

Five types of illuminating

Minimum spot	Medium spot	Maximum spot	Orange filter	Green filter

Excellent illuminating design

Built-in LED lamp

The heat dissipation design ensures the maximum life time of the LED lamp (60,000 hours or more)

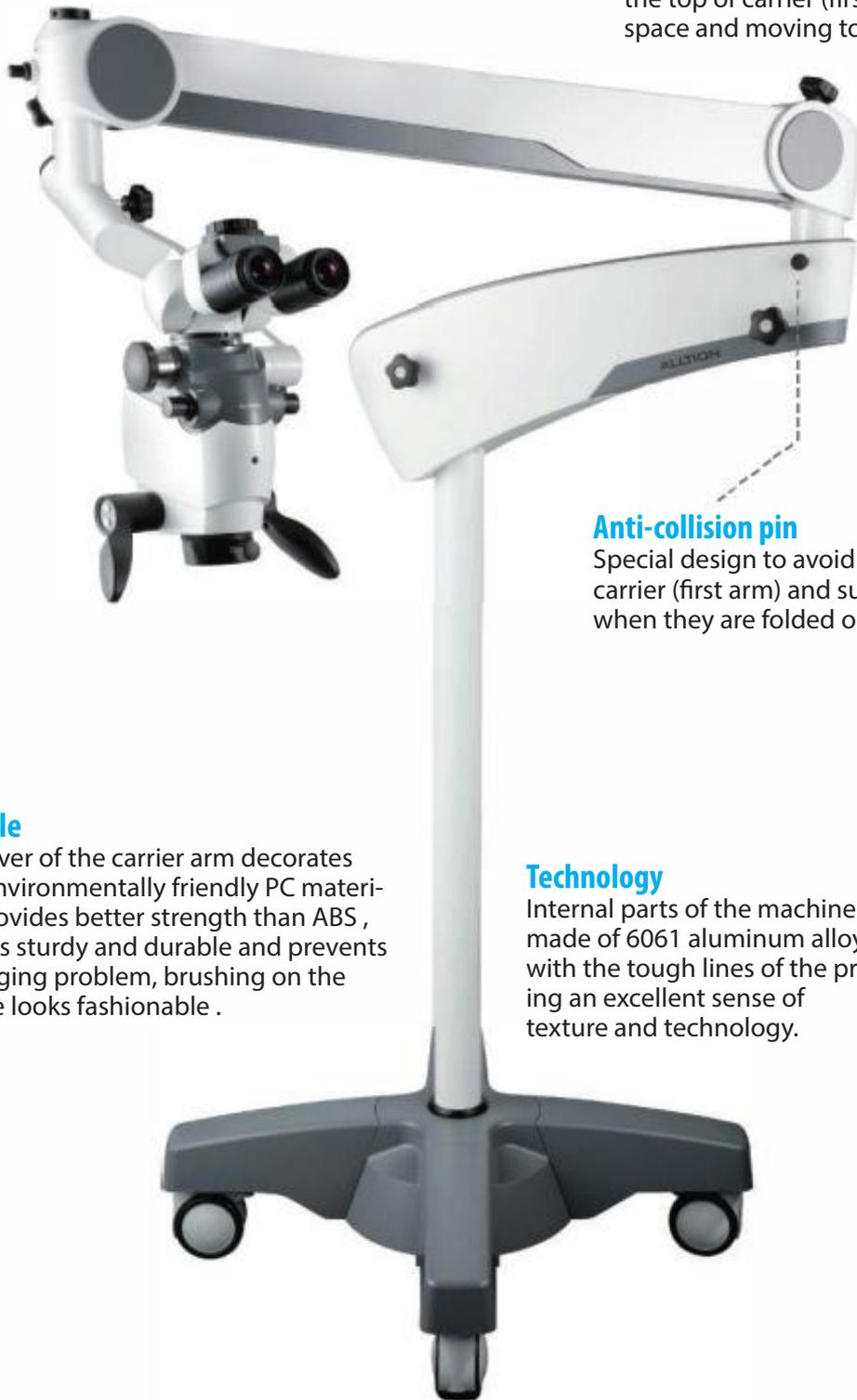
Colour temperature is close to sunlight, 5700K and more than 85% colour rendering index restores the colour of the observed object more realistically.

Linear dimming patent

Excellent dimming linearity can keep illumination at a very low brightness levels.

AM-6000

Excellent design and manufacturing process



Compact

Suspension arm can be folded on the top of carrier (first) arm for saving space and moving to any place

Anti-collision pin

Special design to avoid collision between carrier (first arm) and suspension arm when they are folded or they are closed.

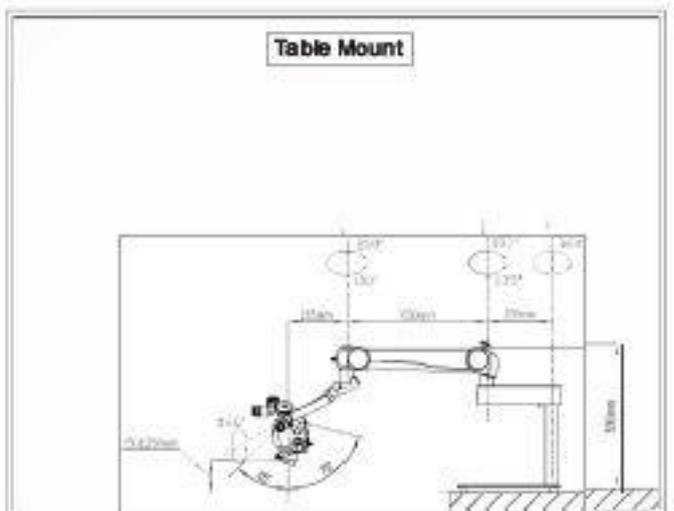
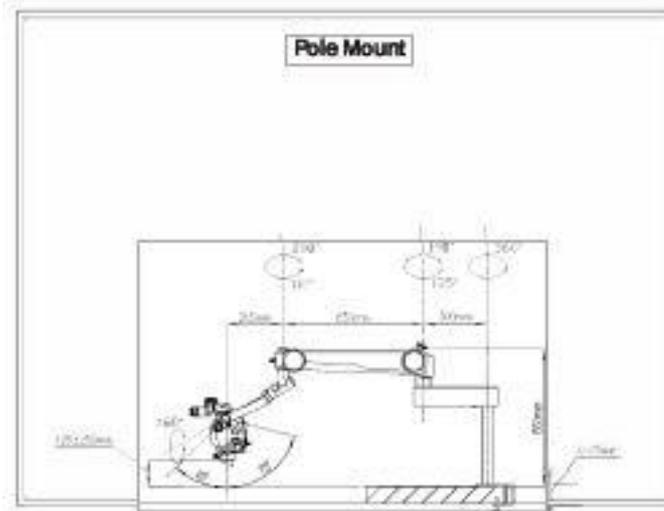
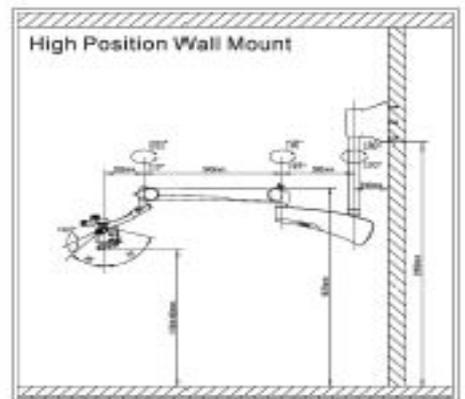
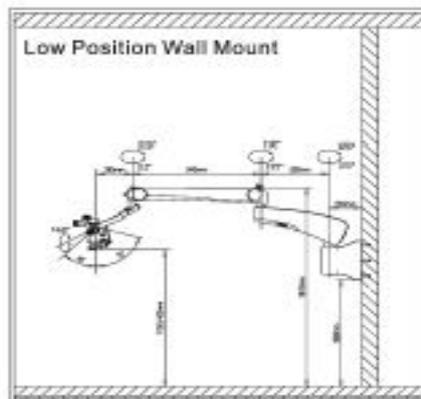
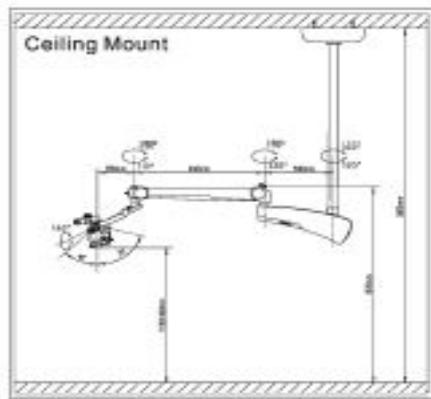
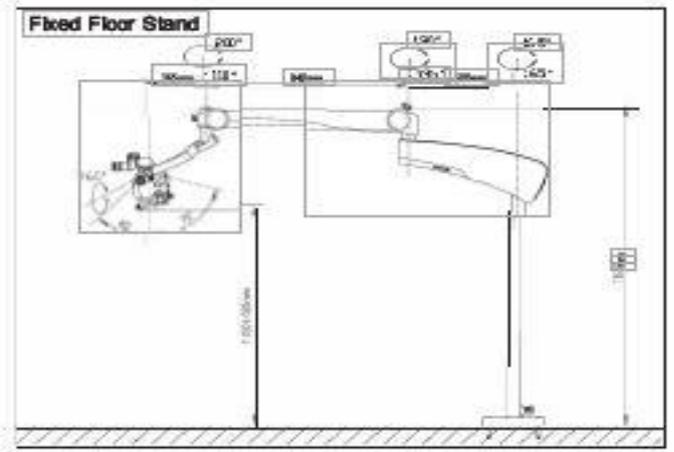
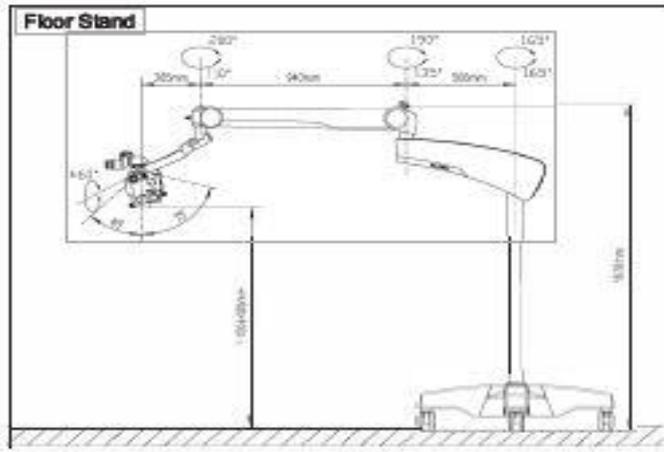
Reliable

The cover of the carrier arm decorates with environmentally friendly PC materials , provides better strength than ABS , ensures sturdy and durable and prevents from aging problem, brushing on the surface looks fashionable .

Technology

Internal parts of the machine are mostly made of 6061 aluminum alloy material, with the tough lines of the product, giving an excellent sense of texture and technology.

Figure of support system of AM-6000





45° Binocular Extender +
Rotation Device



45° Binocular Extender



Rotation Device



0-180° Inclinable binocular



2-D Rotation binocular
Assistant Scope



Beam Splitter(2:8 or 5:5)
(Built-in)



2-D Rotation binocular
Assistant Scope Connector



0-180° Inclinable Binocular



3-D Rotation binocular
Assistant Scope



Beam Splitter(2:8 or 5:5)
(Built-in)



3-D Rotation binocular
Assistant Scope Connector



0-180° Inclinable Binocular



Camcorder/CCD Camera Kit



Beam Splitter(2:8 or 5:5)
(Built-in)



Camcorder adapter



Camcorder/CCD Camera



SLR Camera Adapter Kit



Beam Splitter(2:8 or 5:5)
(Built-in)



SLR Camera adapter



SLR Camera

Specification of AM-6000 Surgical Microscopes

Description	Type	AM-6000								
Microscopes	Eyepiece Ratio	IOX								
	Eyepiece Field	23mm								
	Zoom System	manual zoom ratio, 1 :8								
	Binocular	0-180° adjustable binocular								
	Range of Pupillary distance	50mm-75mm								
	Objective Lens	Objective lens 250mm (300mm/400mm are optional)								
		Variable objective lens, working distance: 200mm-300mm								
	Maximum Object Illumination	> 60000(Lux)								
	Colour Rendering	> 85%								
	Colour Temperature	5700K								
	Rated Voltage	100-240V 50/60Hz								
	Power Input	35-60VA								
	Beam Splitter	Optional Built-in Beam splitter								
	Camera	Optional Built-in FULL FUNCTION CAMERA								
Built-in full function camera	Sensor	1/2" SONY high-sensitivity and low-noise CMOS								
	Resolution	HD 1080P 60FPS(16:9)								
	Storage	Built-in 32G SD memory space.USS flash disk can be connected externally								
	Data Format	Picture:JPG format;Video:MP4 format								
	WIFI	With the function of external WIFI,it can transmit images								
	Video Resolution	1080P								
	Basic Function	Freeze, photograph, video recording, automatic exposure, white balance, play back and cross curve								
	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	Internal/external Chinese/English,show/hide storage.automatic/autonomous rulers,system update,factory naming, reset,export and version information								
	PC Client	WINDOWS XP, WIN7, WINS, WINIO								
	Mobile Client	Android system, IOS system								
Main-body Size	Maximum Arm Span	1700mm								
	Height Distance	750mm-1550mm								
	Foundation Size	640mm x 640mm								
Optical Parameter										
Objective Lens	F200		F250		F300		F350		F400	
Magnification	Total Magnificatin	Field Of View(mm)	Total Magnificatin	Field Of View(mm)	Total Magnificatin	Field Of View(mm)	Total Magnificatin	Field Of View(mm)	Total Magnificatin	Field Of View(mm)
0.4X	4.1X	54.0	3.4X	66.0	2.8X	66.0	2.4X	92.9	2.1X	105.5
0.5X	5.1X	44.0	4.2X	53.7	3.5X	53.7	3.0X	74.2	2.6X	84.4
0.8X	8.2X	29.0	6.7X	35.0	5.6X	35.0	4.8X	49.5	4.2X	56.3
1.0X	10.3X	22.0	8.4X	27.0	7.0X	27.0	6.0X	37.2	5.2X	42.2
1.5X	15.4X	14.5	12.6X	17.8	10.5X	17.8	8.9X	24.8	7.9X	28.1
2.0X	20.5X	10.9	16.8X	13.3	14.0X	13.3	11.9X	18.6	10.5X	21.1
2.5X	25.6X	8.7	21.0X	10.8	17.5X	10.8	14.9X	14.9	13.1X	16.9
3.3X	33.8X	6.6	27.7X	8.1	23.0X	8.1	19.6X	11.4	17.3X	13.0

Code	Specification					
	Zoom Ratio	Binocular Head	Binocular	Built-in Camera	Objective lens	Bracket system
AM-6000VC	1 : 8	0-180° Inclined Binocular Head	10X/23mm	ALL-CAM2	Variable Objective Lens (200mm to 300mm)	Floor Stand/ Fixed Floor Stand/ Ceiling Mount/ Wall Mount
AM-6000V	1 : 8	0-180° Inclined Binocular Head	10X/23mm	Nil	Variable Objective Lens (200mm to 300mm)	Floor Stand/ Fixed Floor Stand/ Ceiling Mount/ Wall Mount
AM-6000C	1 : 8	0-180° Inclined Binocular Head	10X/23mm	ALL-CAM2	250mm Objective Lens	Floor Stand/ Fixed Floor Stand/ Ceiling Mount/ Wall Mount
AM-6000	1 : 8	0-180° Inclined Binocular Head	10X/23mm	Nil	250mm Objective Lens	Floor Stand/ Fixed Floor Stand/ Ceiling Mount/ Wall Mount

Accessories of AM-6000

Name	Code	Purpose
Straight Binocular Head	AM6000-31000	Observation Binocular is parallel to optic axis of zoom ratio system of microscopes
45° Binocular Head	AM6000-32000	Observation Binocular is at 45° angle to optic axis of zoom ratio system of microscopes
Variable Objective Lens (200mm to 300mm)	AM6000-09000	Objective Lens at working distance of 200mm to 300mm
F300 Objective Lens	AM6000-12000	Objective Lens at working distance of 300mm
F400 Objective Lens	AM6000-14000	Objective Lens at working distance of 400mm
Beam Splitter	AM6000-33000	Decomposing the light and output by standard adapter when use with microscopes
Binocular Extender (45°)	AM6000-34000	Turning the light at 45° angle when use with microscopes
Rotation Device	AM6000-35000	Achieving rotation of binocular head within the range of certain angle when use with microscopes
Camera Adapter	AM6000-38000	Matching camera with standard joggle when use with microscopes
Camcorder Adapter	AM6000-39000	Matching camcorder with standard joggle when use with microscopes
2-D Rotation Binocular Assistant Scope	AM6000-40000	Use with microscopes and binocular head
3-D Rotation Binocular Assistant Scope	AM6000-41000	Use with microscopes and binocular head
FS-1 Wireless Foot Switch	FS1-00000	Controlling function of photography & recording of built-in camera when use with microscopes
ALL-CAM2 Full Function Camera	ALLCAM2-00000	Achieving output images to monitor when use with microscopes
Fixed Floor Stand	AM6000-21000	Stand for fixing the microscopes to floor
Ceiling Mount	AM6000-22000	Bracket for fixing the microscopes to ceiling
Low-position Wall Mount	AM6000-23000	Bracket for fixing the microscopes to wall
High-position Wall Mount	AM6000-24000	Bracket for fixing the microscopes to wall