

Biological
Microscopes



Storax
microscopes



Metallurgical
microscopes



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components



Medical scopes



Other optical
instruments

ASOM-3 Surgical Operation Microscopes

We would like to present you the series of surgical operation microscopes

Microsurgery, surgery requiring an operating microscope, is a technique developed in the 20th century. It is invaluable where very precise surgery and operating on very small structures are necessary. Microsurgery has already found myriad of applications.

Surgical microscopes are one of the most exciting advancements in the surgical field. For more than half a century, surgeons around the entire world have been using surgical microscopes to perform intricate surgeries. The use of a microscope means not only the option of magnification but also of better seeing because of better lighting and direction of view.

No device exists which can replace skilled surgeon. However, presented microscopes, can help to avoid mistakes and eliminate any "guess work". They enhance doctor's precision during surgery or diagnostics.

The ASOM-3 series microscopes are dedicated to ophthalmology. Ophthalmologic surgeries are performed on tiny structures, which can not be seen with unarmd eye. Half a century ago microscopes were presented to the ophthalmic surgery, nowadays it is hard to imagine any eye operation without such a device. An eye surgery utilizes an ophthalmic microscope for clearer imaging.

Ophthalmic microscopes are clinically used in the evaluation and treatment of various eye diseases.

A cataract is a change in the clarity, or a clouding of the lens in your eye. Cataract surgery using an ophthalmic microscope is an outpatient procedure that will only take a few hours.

Keratoplasty is a corneal transplantation surgery, it is the most frequent and one of the most successful transplantation operations. The whole surgery is done using an ophthalmic microscope.



ASOM-3A



ASOM-3E

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Ophthalmic microscope is an essential tool during laser surgery. Laser emits a narrow uniform light beam which, when focused through a microscope, produces either heat, coagulation, cutting, or micro explosions in certain eye tissues.

Presented devices are a high-power microscopes which allow the surgeon to obtain a magnified view of the surgical field. It allows to perform a surgery on body parts that can not be seen with unarmed eye.



The microscopes are very useful in getting a good three dimensional visualization of the patient's anatomy. The prime advantage of these microscopes is that they feature coaxial injection of the light source. They provide wide magnification ranges with good depth of field. Alltion microscopes also meet the best optic requirements such as high resolution and bright illumination.

The illumination and magnification are greater than that achieved with any lamps and loupes.

The design of the microscope enables ergonomic working conditions and fatigue-free viewing as the eye does not need to acclimate to the near area.

New ideas and technologies brought to live by Alltion company resulted in a creation of functional, reliable and long lasting devices.

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Accessories



MEDICAL SCOPE

Our FDA Number is 3003969012

ASOM-3 series Operation Microscopes

ASOM-3A



Features:

1	Motorized focusing system with foot switch
2	Manual 3-step objective changer
3	High resolution, high clear optic system
4	Excellent depth of field
5	High illumination
6	Main & Assistant microscopes are same magnification & same optic path
7	Video and Photo accessories are option

Specification:

1	Eyepiece: WF12.5X, pupillary adjustment range 50mm to 75mm, diopter adjustment range +5D to -5D
2	Main Binocular Tube: 100% brightness, 45° inclined binocular tube
3	Objective Changer: Parallel optic system, manual 3-step changer, total magnification 5.9X & 10X & 15.8X with field of view dia. 33.3mm & 20mm & 12.5mm
4	Coaxial Assistant Binocular: Manual 3-step changer, total magnification 6.4X & 10.8X & 17.3X with field of view dia. 30.5mm & 18.3mm & 11.4mm
5	Coaxial Illumination: Illumination range dia. 50mm, illumination intensity 60,000Lx
6	Focal Length: F200mm (175mm , 250mm, 300mm, 350mm, 400mm is option)
7	Fine Focusing Range: range ± 25 mm, speed: 33s / whole distance
8	Maximum Length of Arm: 1130mm
9	New Light Weight Stand with locking wheels

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MEDICAL SCOPE

Our FDA Number is 3003969012

ASOM-3 series Operation Microscopes

ASOM-3B



Features:

1	X-Y Mover
2	Motorized focusing system with foot switch
3	Manual 3-step objective changer
4	High resolution, high clear optic system
5	Excellent depth of field
6	High illumination
7	Main & Assistant microscopes are same magnification & same optic path
8	Video and Photo accessories are option.

Specification:

1	Eyepiece: WF12.5X, pupillary adjustment range 55mm to 75mm, diopter adjustment range +5D to -5D
2	Main Binocular Tube: 100% brightness, 45° inclined binocular tube
3	Objective Changer: Parallel optic system, manual 3-step changer, total magnification 5.9X & 10X & 15.8X with field of view dia. 33.3mm & 20mm & 12.5mm
4	Coaxial Assistant Binocular: Manual 3-step changer, total magnification 6.4X & 10.8X & 17.3X with field of view dia. 30.5mm & 18.3mm & 11.4mm
5	Coaxial Illumination: Illumination range dia. 50mm, illumination intensity 100,000Lx
6	Focal Length: F200mm (175mm , 250mm, 300mm, 350mm, 400mm is option)
7	Fine Focusing Range: range ± 25 mm, speed: 33s / whole distance
8	Maximum Length of Arm: 1100mm
9	New Economic Stand with locking wheels

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**MEDICAL SCOPE**

Our FDA Number is 3003969012

ASOM-3 series Operation Microscopes**ASOM-3C****Features:**

1	X-Y Motion
2	Motorized focusing system with foot switch
3	Manual zoom objective changer (zoom ratio: 1:6)
4	High resolution, high clear optic system
5	Excellent depth of field
6	High illumination
7	Main & Assistant microscopes are in same optic path
8	Video and Photo accessories are option.

Specification:

1	Eyepiece: WF12.5X, pupillary adjustment range 55mm to 75mm, diopter adjustment range +5D to -5D
2	Main Binocular Tube: 100% brightness, 45°inclined binocular tube
3	Objective Changer: Parallel optic system, manual zoom changer (zoom ratio: 1:6), total magnification 4.5x to 27.5x continuously available, field of view dia. 44mm to 7.7mm
4	Coaxial Assistant Binocular: 0°assistant binocular can swing 90° or 270° against main binocular tube, manual 3-step changer, total magnification 6.8X & 11.4X & 18.2X with field of view dia. 26mm & 15.5mm & 9mm
5	Coaxial Illumination: Illumination range dia. 50mm, illumination intensity 100,000Lx
6	Focal Length: F175mm (200mm , 250mm, 300mm, 350mm, 400mm is option)
7	Fine Focusing Range: range ± 25 mm, speed: 33s / whole distance
8	Maximum Length of Arm: 1130mm
9	New Economic Stand with locking wheels, swing angle of the carrier arm 0-300°, height from objective to floor 800mm to 1250mm.

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MEDICAL SCOPE

Our FDA Number is 3003969012

ASOM-3 series Operation Microscopes

ASOM-3D



Features:

1	X-Y Motion
2	30°-90° Inclinable Main Binocular Tube
3	Motorized focusing system with foot switch
4	Motorized zoom objective changer (zoom ratio: 1:6)
5	High resolution, high clear optic system
6	Excellent depth of field
7	Double Fiber Optical Cables, one for coaxial illumination and another for inclined illumination
8	Retinal Protection Device
9	Video and Photo accessories are option

Specification:

1	Eyepiece: WF12.5X, pupillary adjustment range 55mm to 75mm, diopter adjustment range +5D to -5D
2	Main Binocular Tube: 30°-90° inclinable binocular tube
3	Objective Changer: Parallel optic system, motorized zoom changer (zoom ratio: 1:6), total magnification 4.5x to 27.5x continuously available, field of view dia. 44mm to 7.7mm
4	Coaxial Assistant Binocular: 0° assistant binocular can swing 90° or 270° against main binocular tube, manual 3-step changer, total magnification 7.3X & 12.1X & 19.4X with field of view dia. 27mm & 16.3mm & 10mm
5	Coaxial Illumination: Illumination range dia. 50mm, illumination intensity 100,000Lx
6	Inclined Illumination: Illumination range dia. 50mm, illumination intensity 25,000Lx
7	Focal Length: F175mm (200mm , 250mm, 300mm, 350mm, 400mm is option)
8	X/Y Motion Range: 25mm
9	Fine Focusing Range: range ±25mm, speed: 33s whole distance
10	Maximum Length of Arm: 1200mm
11	New Luxurious Stand with locking wheels, swing angle of the carrier arm 0-300°, height from objective to floor 800mm to 1250mm.

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MEDICAL SCOPE

Our FDA Number is 3003969012

ASOM-3 series Operation Microscopes

ASOM-3E



Features:

1	Built in Iris Diaphragms for much depth of fields
2	Bigger magnification
3	X-Y Motion
4	30°-90° Inclinable Main Binocular Tube
5	Motorized focusing system with foot switch
6	Motorized zoom objective changer (zoom ratio: 1:6)
7	High resolution, high clear optic system
8	Excellent depth of field

9	Double Fiber Optical Cables, one for coaxial illumination and another for inclined illumination
10	Retinal Protection Device.
11	Video and Photo accessories are option.

Specification:

1	Eyepiece: WF12.5X, pupillary adjustment range 55mm to 75mm, diopter adjustment range +5D to -5D
2	Main Binocular Tube: 30°-90° inclinable binocular tube
3	Objective Changer: Parallel optic system, motorized zoom changer (zoom ratio: 1:6), total magnification 5.1x to 30.6x continuously available, field of view dia. 36.2mm to 6.8mm.
4	Coaxial Assistant Binocular: 0° assistant binocular can swing 90° or 270° against main binocular tube, manual 3-step changer, total magnification 7.3X & 12.1X & 19.4X with field of view dia. 27mm & 16.3mm & 10mm
5	Coaxial Illumination: Illumination range dia. 50mm, illumination intensity 100,000Lx
6	Inclined Illumination: Illumination range dia. 50mm, illumination intensity 25,000Lx
7	Focal Length: F175mm (200mm , 250mm, 300mm, 350mm, 400mm is option)
8	X/Y Motion Range: 25mm
9	Fine Focusing Range: range ± 25 mm, speed: 33s whole distance
10	Maximum Length of Arm: 1200mm
11	New Luxurious Stand with locking wheels, swing angle of the carrier arm 0-300°, height from objective to floor 800mm to 1250mm.