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Dental Surgical Microscope

SM620/610

Details Make the Difference

MediWorks

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Company Profile

Shanghai MediWorks Precision Instruments Co.,Ltd.

Who we are: Medical optical products and service provider.

What we do: We develop and deliver diagnostic and surgical equipments in ophthalmic and dental industries.

Vision: Apply new technologies in the field of medical optics to create high-precision, digital and intelligent products, so that we can help doctors to alleviate the suffering of patients.

Mission: We are dedicated to every detail in product development and manufacturing process to serve the customers at a reasonable cost.

On-tine service
with zero delay

Timeless quality
with zero tolerance

Meeting demands
with zero compromise



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LED Display

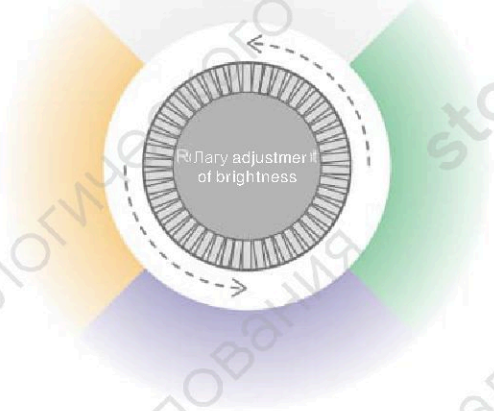
Visually display light mode, zoom magnification factor and brightness adjustment

Single finger control

Holding the handle, and adjust the magnification knob, multiHuncion knob and variofocus with ONLY one finger.

Multi-function knob

White light source



Orange filter mode

Green filter mode

Fluorescence light source

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White light source

Using the best medical LED light source with high CRI, excellent color restoration and uniformity of lighting spot .



Orange filter

Used for material filling, can prevent resin material curing too fast.



Green filter

Using for observing the small vessels and bleeding points in the blood environment.



Fluorescence light source

Using for removing the caries part of the dental caries, fluorescence light can helps the dentists to distinguish the caries part more easily which is red in the eyepiece, and it is also easier to confirm whether the caries part has been removed completely.

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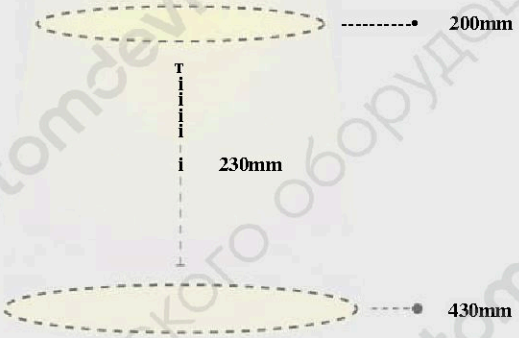
Top Optical Quality

Imported German SCHOTT optical lens, application of apochromatic design, multHayer optical coating, high resolution, extended depth of field, greatly reducing the fatigue of the dentists' eyes.

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Variofocus Objective

Working Distance: 200-430mm

When the tooth is defocus, there is no need to move the microscope or change the working position. Just adjust the variofocus objective lens to focus, efficient and fast.

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Excellent Balance Arm

Equipped with dualqoint balance adjustment, even attached external acessories such as SLR cameras, mirrorless digital cameras, video cameras, etc., the balance arm assures a ultra-smooth and comfortable operation during reposition of the microscope.





0°-180°
Inclinable Binocular Tube

In accord with ergonomics, the widest range and angle can improve working comfort for dentists, reduce the suffer from back, neck and shoulder pain.

Pendulum Function

Adjusting rotation ring to keep the binocular tube always in horizontal status. Working with binocular extender, rotate the binocular 25° .

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4 in 1 moudle

Integrate 30° extender, beam splitter, rotation ring and 4K camera, not only improves the optical performance, but also reduces the weight of external accessories. Internal 4K camera with lower noise, higher sensitivity and resolution. Equipped with wireless foot pedal, allows to capture photos and videos without touching the microscope, the collected photos are stored in high-speed SD card, reaHime wireless signal transmission, also adapt for Mediview software which is independently developed by MediWorks.

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MediView Software

Picture Management System

Mediview software is based on digitization and internet with intelligent case management and simple operation interface. It can be connected to the digital module of the microscope through wireless or HDMI cable to record therapeutic process, also can save all of cases in database for easy review.



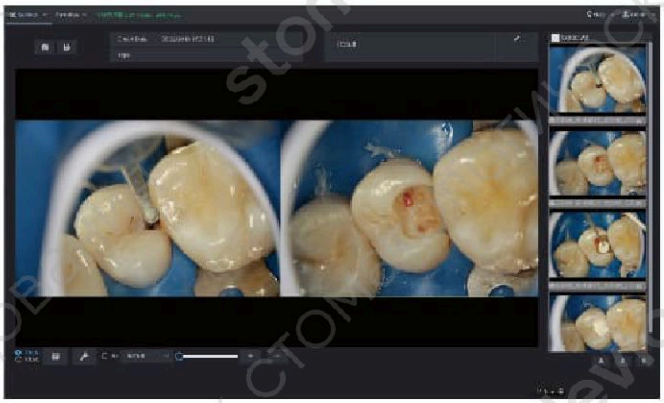
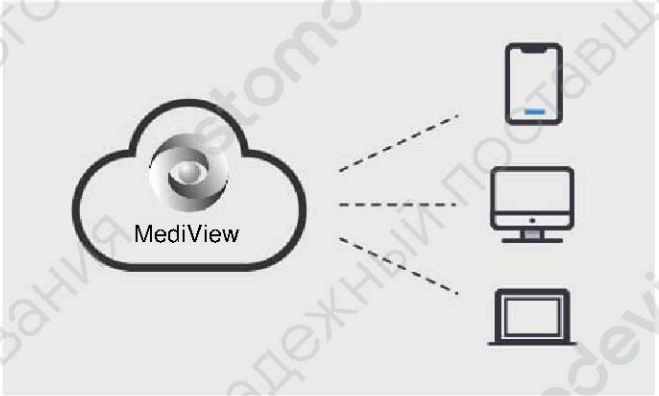


Image Contrast

One screen can show two or four pictures, with search and edit function which is helpful for clinical communication, education, research, etc.,

Telemedicine

Easy for remote dentists to review picture and diagnosis. Dentists can inform the patient for further treatment if there is intractable case.



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Variofocus objective

30° Binocular extender



Digital camera adapter



4 in 1 moudle



30° Binocular extender & beam splitter



CCD adapter



Rotation ring



Beam splitter

More optional accessories

4 in 1 module, 30° extender, beam splitter, rotation ring, Sony/Nikon/Canon SLR digital camera adapter, wireless foot pedal, laser protection kit, long zoom objective lens etc.,

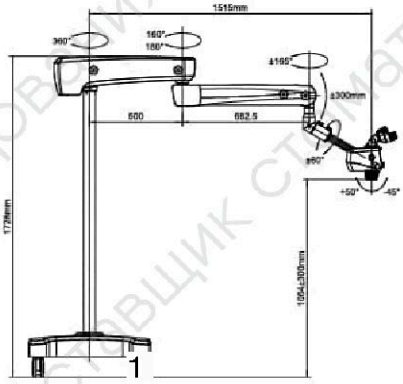
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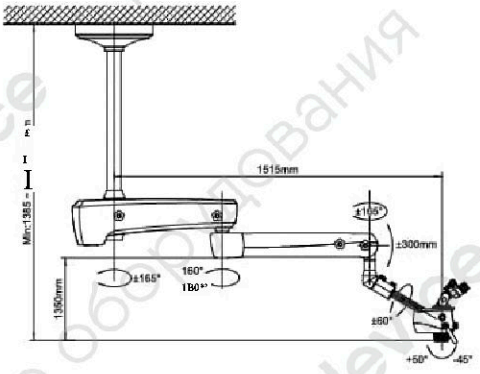
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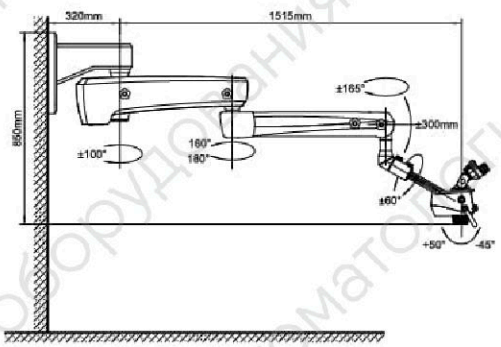
Specification

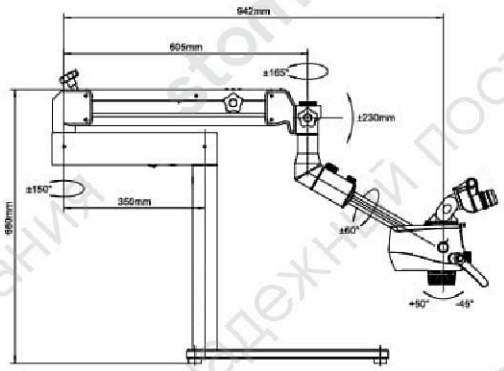
Basic Configuration	SM610	SM620
Magnification system	Manual magnification changer 0.4x, 0.6x, 1x, 1.6x, 2.5x	Zoom magnification changer 0.4x - 2.4x
Focus	F=250mm / Fine focusing range 13mm	Varifocal 120, F=200 - 320mm
Connecting arm	120° balance arm	
Eyepieces	12.5x wideTield eyepieces, diopter adjustable of eyepiece ±7D	
Binocular tube	180° tiltable tube	
Pupil distance adjustment	52 - 75mm	
Filter	Orange filter, Green filter	
Illumination source	LED 5700K	
Illumination spot	> ϕ70mm@250mm	
Mount options	Floor stand, Ceiling mount, Wall mount, Table top	

Configuration options		
Lighting mode		Fluorescence
Focus	Varifocal 120, F=200 - 320mm	Varifocal 230,F=200 - 430mm
	Varifocal 230, F=200 - 430mm	
Integrated camera	HD1080P output	
External camera	1/3" CCD Interface F=55mm	
	Canon/Nikon/SONY SLR digital camera adapter	
4 in 1	30° binocular extender + beam splitter + rotation ring + 4K camera	
Beam splitter	2:8 or 5:5	
Binocular extender	30° binocular extender, 30° binocular extender & beam splitter	
Rotation ring	25°	
Laser filter	It protects the dentist' s eyes against damage	
Iris diaphragm	Increase the depth of field	
Asepsis	Splash protection for the objective lens	









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Agency Info

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