



Dental Surgical Microscope

SM620/610

Details Make the Difference



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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-line service
with zero delay



Timeless quality
with zero tolerance



Meeting demands
with zero compromise





LED Display

Visually display light mode, zoom magnification factor and brightness adjustment

Single finger control

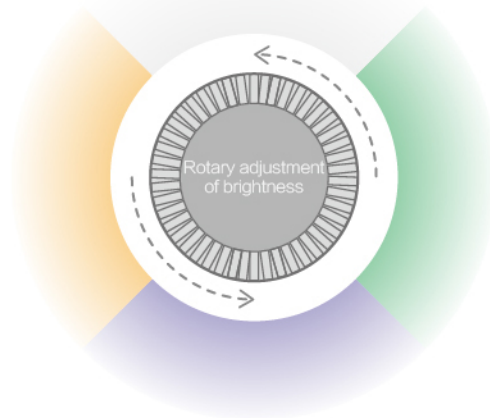
Holding the handle, and adjust the magnification knob, multi-function knob and variofocus with ONLY one finger.

Multi-function knob

● White light source

● Orange filter mode

Green filter mode ●



● Fluorescence light source



White light source

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



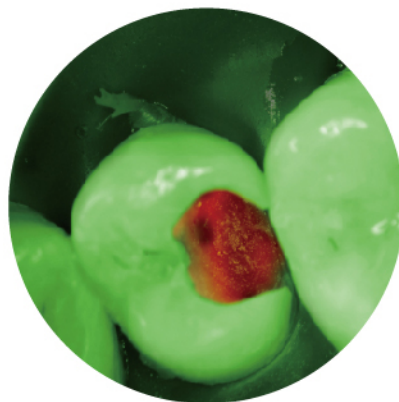
Orange filter

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.



Top Optical Quality

Imported German SCHOTT optical lens, application of apochromatic design, multi-layer 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 dual-joint balance adjustment, even attached external accessories 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° .



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, real-time 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.

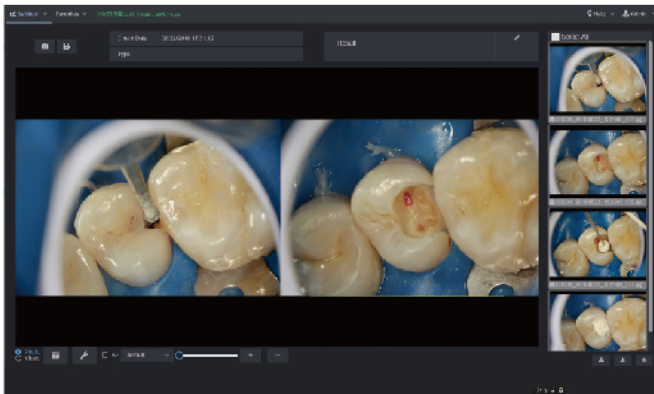
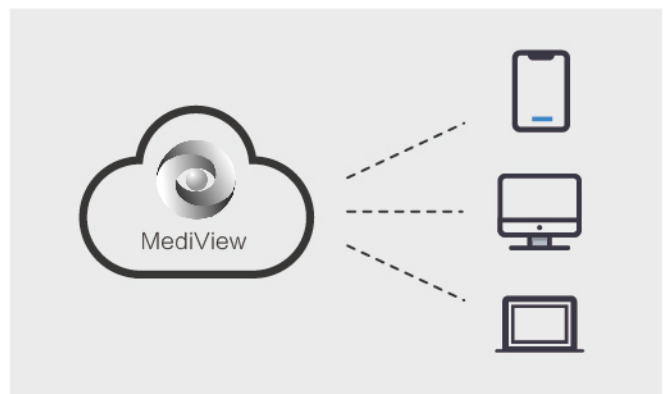


Image Contrast

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.





Variofocus objective



Digital camera adapter



CCD adapter



4 in 1 module



Rotation ring



30° Binocular extender



30° Binocular extender & beam splitter



Beam splitter

More optional accessories

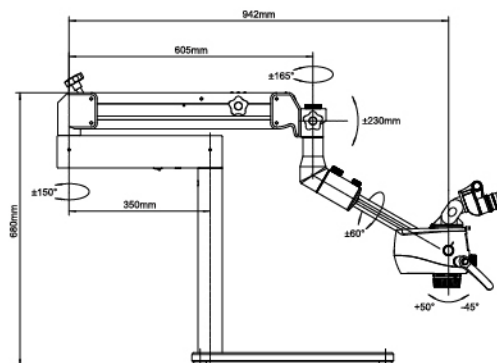
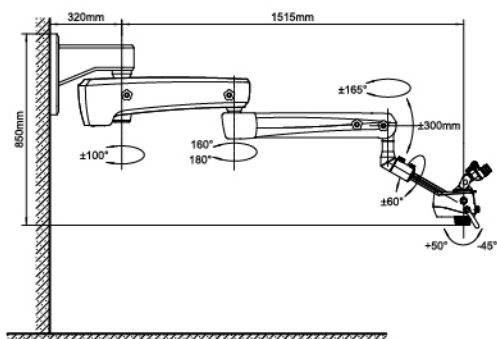
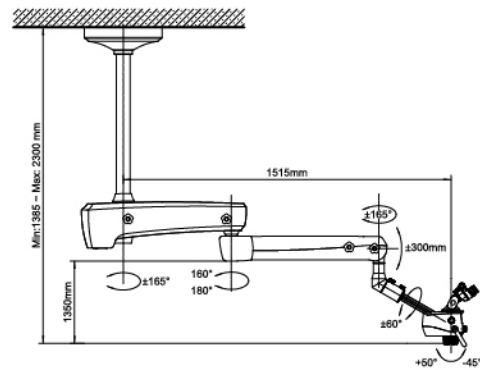
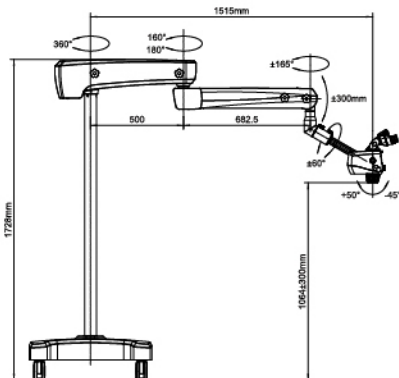
4 in 1 module, 30° extender, beam splitter, rotation ring, Sony/Nikon/Canon SLR digital camera adapter, wireless foot pedal, laser protection kit, long zoom objective lens etc.,

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 wide-field 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	> φ 70mm@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	



Agency Info

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