



GLOBAL Microscopes – Clear Solutions



sds
Sigma Dental Systems

GLOBAL Microscopes

GLOBAL G6 – The all purpose microscope.

Steps of magnification	0,33	0,5	0,8	1,25	2	3
Magnification (x)	2,1	3,2	5,1	8,0	12,8	19,2
Field of view (Ø in mm)	95	62	39	25	16	10

Figures are based on the standard components as described below. Modifications may be made by substituting individual optical components.



Adjustable Eyecups



Adjustable Fine Focus

GLOBAL G3 – The microscope for special treatments.

Steps of magnification	0,5	1	2
Magnification (x)	3,2	6,4	12,8
Field of view (Ø in mm)	62	32	16

Figures are based on the standard components as described here. Modifications may be made by substituting individual optical components.



Standard Components

– 45° inclined binocular

- Binocular focal length of 160 mm
- 10x wide angle eyepieces
- Adjustable eyecups
- Suitable for people who wear glasses
- Diopter adjustment
- A binocular with reticule is available as an option so that your documentation always stays in focus



– Support systems (see page 4)

– Adjustable maneuvering handles

– 250 mm fine focus (of the available on request)

(horizontally adjustable, the stop projects a direct feedback for the 20 mm focus area)

– Lens cover for the fine focus

– NovaLux metal halide short-arc lamp

(daylight quality of 5,500 K)

– NovaLux replacement bulb (bulb life approx. 500 hours)

– High-performance fiber optic cable

– Dust cover

– Protective cover for the microscope

GLOBAL G6 DX – The microscope for high demands.

The GLOBAL G6 DX is based on the GLOBAL G6 platform and is an outstanding, extensively equipped microscope. The following additional components are incorporated in the DX model. Obviously, these components can also be combined with the G3.

Steps of magnification	0,33	0,5	0,8	1,25	2	3
Magnification (x)	2,1	3,2	5,1	8,0	12,8	19,2
Field of view (Ø in mm)	95	62	39	25	16	10

Figures are based on the standard components as described here. Modifications may be made by substituting individual optical components.



— Compact balancing system (counterbalance coupler arm)

- Recommended for attaching additional accessories such as cameras
- Provides ideal balance for the system
- An adjustable slit offsets the added weight of accessories



— Extension arm

- Provides extra reach of 20 cm
- Further increases the flexibility and maneuverability of the microscope in the smallest space



— Inclineable binoculars

- Eyepieces tilt up to 220°
- The option to extend the microscope as you wish for certain treatment procedures is a comfortable alternative
- An inclinable binocular with reticule is available as an option so that your documentation always stays in focus



— „X3Xenon“ 100 watt Xenon light source

- Provides even more light for fiddly procedures
- Daylight quality of 5,600 K



— Carr Binocular Extender

(Angled optics for inclinable binoculars)

- Provides additional comfort whilst working with the microscope
- Supports a more upright seating position
- Reduces shoulder, neck and back strain

High-performance Support Systems

The microscope can be fluid-like moved thanks to the special GLOBAL support system. Weighty accessories such as cameras are comfortably maneuvered by a fingertip control.

The support systems are entirely maintenance-free and are designed to save space. The microscope stays discreetly in the background and all support arms fold neatly back on themselves in storage position.

The integrated housing can safely accommodate light sources and video cameras and thus save space. The concealed cable guide also offers effective protection for light and camera systems. Such small details ensure that the microscope always look neat and tidy and is easy to clean.



Mobile floor stand

- Flexible
- For use in several treatment rooms
- Large wheels for easy transportation between operatories
- Alternatively, also available as a floor mounted system



Wall mount

- High wall mount (above 220 cm) or
- Low wall mount (below 130 cm)
- Extended reach (approx. 160 cm)
- space-saving mount, even when not in use

Customized mounts

- Enquire about other mounting options
- We would be happy to consider customized mounting options

Ceiling mount

- Ideal position for quick access
- Mount for ceiling heights from 244 cm



Things you should know!

Optics

All GLOBAL microscopes are equipped with the same first-class optical components. The lens systems are convincing due to brilliant, three dimensional and precise image reproduction in addition to high resolution images. When choosing GLOBAL systems, you are not opting for different qualities, but simply for the number of magnification steps.

Equipment

All GLOBAL microscopes are modular systems so that you can start off with the standard model and upgrade your system with the desired components at any time.

Mounting options

All GLOBAL microscopes are available ceiling mounted, wall mounted or with a floorstand.

Documentation

All GLOBAL microscopes can be equipped with standard photo and video cameras. Keep up with the times and add the latest technology whenever you like.

Illumination systems

The best optical results are achieved with a skilful combination of first-class optical systems and the correct illumination. GLOBAL microscopes, therefore, are already equipped with high quality metal halide lamps in standard systems. This underlines the uncompromising GLOBAL philosophy of providing microscope users with the best possible equipment for their daily work.

The light sources provide daylight quality white light. Even when changing the illumination intensity, the operator always has a constant color reproduction.

Training

Using the microscopes requires suitable preparation. Intensive training is essential in order to achieve the necessary routine. As an initial step, it would certainly be useful to take a special course in microscopy or have experienced colleagues show you tips and tricks for the daily work.

Please do not hesitate to contact us. We will be happy to provide you with adequate contacts.

Service

You are in good hands! The Sigma Dental sales team and the technicians at your suppliers are available on site with help and advice. Additionally, our specialists at our head office in Flensburg, Germany, are happy to answer your questions.



"A picture says more than a thousand words"

All the following systems can be quickly installed on the microscope at any time.

Due to the external adaptation of the components, there is always sufficient room for your camera. You can therefore look forward to innovations in the field of photo and video cameras.

From a documentation point of view, your microscope always has the best available technology!



Video camera

We offer the best solution for all cases. From our smallest, the 1 or 3-chip color video camera with large 1/2" sensors up to standard camcorder, GLOBAL can offer a suitable interface. This underlines the advantage of the modular design of GLOBAL microscopes.

The use of a video camera permits the active involvement of the assistant in treatment procedures being carried out under the microscope. If the image under the microscope is reproduced on a monitor, the assistant is able to actively assist with the treatment at all times. This kind of involvement often acts as a major motivational impulse. Furthermore, video sequences and individual pictures can be used for your own patient documentation. A comprehensible patient explanation using pictures creates more trust.

GLOBAL refers to the "Virtual Beamsplitter™", and rightly so. The portion of light diverged for the mini video camera is clearly less than 5%. The operator registers no loss of light. The innovative design of the beamsplitter provides a brilliant depth of field without the need for an additional iris diaphragm.

A binocular with reticule is available as an option so that your documentation always stays in focus.

Our tip from the experts:

Ask for the 1-chip color video camera for your dental office.

The results achieved from the first-class combination of a GLOBAL-microscope and a video camera will have you convinced.



Combined photo and video camera

The combination of a photo and video camera gives you the flexibility to take high resolution pictures and sophisticated video sequences without having to make extensive modifications to the microscope.

You decide which side the camera is to be mounted to! That's how we are considerate of your preferred working posture.

Photo camera

Would you like to attach your existing compact photo camera to the microscope? Or perhaps you would like to opt for a new SLR-camera? Whatever you decide, we ensure that different types of cameras can be attached to the microscope by simply substituting the adapter.



We would be happy to advise you on the many options available.



Dual iris diaphragm

The dual iris diaphragm allows those who are interested in photographs to steplessly and variably increase the already fantastic depth of field of the GLOBAL optics. This option is a great additional benefit for the more demanding photo specialists. Photos thus have a fantastic clarity in the depth of the image.



Rotation ring

By using the rotation ring, the rotating binocular can be arranged horizontally, even if the microscope is arranged laterally. Your posture always remains upright and thus offers relief for your back.

GLOBAL Microscopes

GLOBAL microscopes are among the most successful dental microscopes in the world.

For many years, GLOBAL Surgical has been manufacturing and designing microscopes which are intended for use in dental offices. In collaboration with dentists from all over the world, high quality microscopes have been developed which set the standards in dentistry.

GLOBAL dental microscopes ensure that the smallest details are clearly interpretable and protect the operator's eyes and back.

Experience it for yourself: Comfortable and fatigue-free work is possible!



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We would be happy to discuss with you personally how GLOBAL microscopes meet the criteria. We will show you why so many dentists worldwide have deliberately chosen a GLOBAL microscope.

Experienced microscope users defined the following assessment criteria:

- Resolution
- 3-dimensional image reproduction
- Depth of field
- Field of view
- Modular concept
- Maneuverability
- Ergonomics
- Light management
- Documentation ports
- Service

(The criteria above appear in no particular order)



MicroSurgeon's Chair

Even the smallest movement has a big impact under the microscope. Therefore, the proven GLOBAL MicroSurgeon's Chair with its practical armrests helps you to keep a steady hand. The chair, designed for use when working at a microscope, noticeably relieves shoulder, back and neck strain. You will appreciate the advantages offered by this chair, particularly during time consuming treatments. Once you have worked with it, you don't want to miss it again.



Backrest

The height of the backrest is continuously adjustable. It automatically follows your upper body with each forward movement and thus gives your back the necessary support. You can also lock the backrest into any position you wish.

Seat

The seat follows your seat inclination and automatically moves with you. You can also lock the seat inclination smoothly into position. The seat height adjustment is also supported by a gas spring (seat height: approx. 430 mm to 560 mm/other heights available on request).

Armrests

The height of the armrests is continuously adjustable and can also move in conjunction with the swing mechanism of the seat. You can bring the armrests into any working position you wish without using your hands. The advantage: Your hands and the chair remains hygienically clean.

Seat Covers



CLARET



GUNMETAL



OCEAN GREY



SLATE BLUE



GROTTO



FOREST



GRAPHITE



DOVE



BLUE MIST



TAUPE



TUSCANY TILE



IMPERIAL BLUE



TEA ROSE



WEDGEWOOD



BURGUNDY



PURPLE GREY



SAND



BLACK

We keep you at the forefront of advanced technology!

It is our business to present the different and manifold types of equipment of the GLOBAL microscopes.

Our professional team helps to assemble the best possible solutions in order to meet your demanding needs.

See for yourself!