



Twin
Blue & White

Flexion
The Microscope Family



We want **satisfied** dentists.
And **happy** patients.



Designed,
developed and
made in Germany

Greater Flexibility. For Successful Treatments.

Since 2007, **CJ-Optik** has been a high-performance company in the field of dental microscopy. With distributors in 75 countries worldwide we go for efficient solutions in the interests of dentists and patients.

Our goal is to optimally design the Flexion dental microscope family with every evolutionary stage for the most modern applications and treatment methods.

The two new **Flexion^{twin}** dental microscopes with their state-of-the-art selective filter system meet the highest requirements of modern dentistry thanks to their extensive equipment features.

Flexion^{twin} - Made^{to win}



Twin

The Power of Two

MonoGlobe
The weightless movement
balancing system for an
ergonomic working position

The two new Flexion models bear the designation "Twin", as both are equipped with two LEDs. The second LED in the Twin Blue generates fluorescence whereas the second LED in the Twin White doubles the light intensity. For an outstanding microscopy experience.

Bigger Lens System

The larger the lenses and the better their coatings, the brighter and sharper the image

Large Exit Pupil

For wearers of glasses

IPD Adjuster

Single-handed,
wide adjustment range
from 55 - 75 mm

SensorUnit

Controls photo or video recordings
easily with a hand gesture.
Including the **display for
the Selective Filter System**

Iris Diaphragm

For front LED

Selective Filter System

White - Natural - Orange - Green

Superior Light Transmission

Throughput for optimal viewing
and documentation

Ergotube 30°

With binocular inclination 0-200°





**4K, HD &
Phone Imaging Ports**
Optimized for the newest
digital cameras (APS-C and
FullFrame). Continuous power
to all Sony Alpha cameras

Fluorescence Mode (Twin Blue)
or
Boost Mode (Twin White)

located on the left

AntiGlare Mode
Eliminates unwanted
reflections on the tooth

Iris Diaphragm
For rear LED

VarioFocus³
More working distance for
added comfort & more
ergonomic positioning

Magnification
5-step full apochromatic
magnification changer



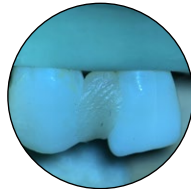
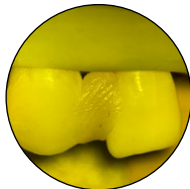
The Selective Filter System

For different ways of working

True to the motto "You can only treat what you can see" the Selective Filter System of the Flexion microscopes makes dentistry more efficient and precise. All filters shown on this page are integrated in both Twin versions.

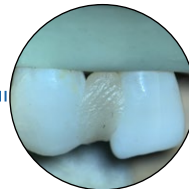
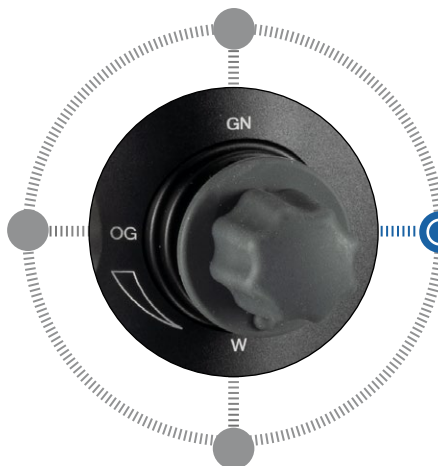
Orange Filter

The Orange Filter avoids composite curing when prepping for restorations/adhesives.



Green Filter

The Green Filter improves the visibility for the blood supply in surgery applications.



Natural Light Filter

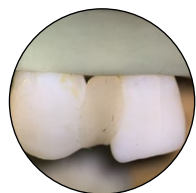
The Natural Light Filter extends the preparation time for composite materials. The rendering is closer to real warm light than the Orange Filter. Improved visibility for passages between hard and soft tissues.



Complete control via LED display

White Light (No Filter)

The White Light is the standard setting with a homogeneous field of view and 5.500 K colour temperature.



Polarizing Filter (AntiGlare Mode)

The AntiGlare system makes it easy to eliminate all unwanted reflections on the tooth caused by the light and allows you to see the tooth structure. The polarization filter is activated using a wheel on the left side of the housing.



The Joystick

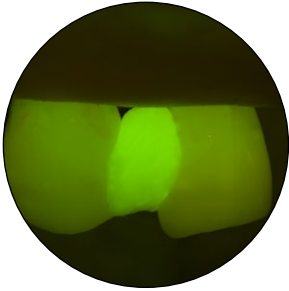
Selecting the filters is child's play with the joystick. By turning the joystick the light intensity is adjusted between 0 and 99. By pushing the joystick all filter settings can be saved separately. In addition a quick setting mode in steps of 10 can also be used.



Blue & White

It's Twins. But not identical.

The name "Twin" indicates that both models are equipped with two LED light sources. While the Twin Blue uses its fluorescent light to represent the normally invisible boundaries and transitions between tooth material and fillings, the Twin White has the full power of two LEDs that penetrate even into the deepest root canals.



Fluorescence Mode

Twin Blue

Visibility through Fluorescence

In addition to the white LED, the Flexion ^{twin} Blue is equipped with a second LED (dark blue), which improves the identification of restoration materials, tartar and caries. The UV light causes porphyrins inside the caries bacteria to fluorescence orange/red.

The fluorescence mode is set using an ergonomically placed wheel with the right hand.



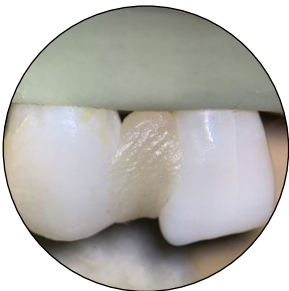
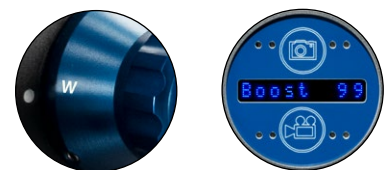
Boost Mode / 2 LEDs

Twin White

Light Boost with up to 200.000 Lux

The white version of the Flexion ^{twin} takes account of the wish of many dentists for a particularly well-lit treatment area by providing a second, white LED for additional luminosity. With the Twin White, the enormous power of up to 200.000 Lux of the two LED lights is visible. Both LEDs can be switched independently of one another to identify structures in the root canal.

The boost brightness is regulated by using the joystick.



Standard White Mode / 1 LED



Optics

For **superior** results.



Advanced Optical Design

CJ-Optik Flexion microscopes are highly acclaimed for their superior image quality. It is only through CJ-Optik working closely with the optics designer that the optimal specifications can be developed. With the use of apochromatic optics in the Twin microscopes dentists can detect the finest colour and structure details.



Perfect Illumination

The fanless LED spot lighting provides a well-lit treatment area with high colour rendering index and 5.500 K. Future-proof with 65,000 hours lifespan. The spot diaphragm always shows the assistant the exact treatment site and prevents light from falling into the patient's eyes.



VarioFocus

Choose from either the VarioFocus² with 200 - 350 mm range or the VarioFocus³ with 210 - 470 mm working distance and plan-apochromatic correct built-in optics. The superior light transmission provides optimal viewing and documentation results. Removable protection cover lens with Hydrophobic Coating (HPC). Index Matching Coating for highest transmission and low reflection rates.



Details make the Difference

Just to name some of the many remarkable features that makes working with the Flexion microscopes so comfortable:

- Individual eyecup adjustment
- Large eye relief with bigger exit pupil
- IPD adjuster optionally available

For stress-free treatments.

Ergonomics

Flexion

Anyone who has ever worked with one of our microscopes knows why we called them Flexion. We consider the Flexion as a flexible extension of the dentist's eyes. The dentist's upright treatment position ensures a relaxed posture and thus prevents neck and back problems in the long term.



MonoGlobe

The uniquely designed MonoGlobe is the weightless movement balancing system. The coupling system allows fluid and smooth repositioning at all angles without having to adjust the tension.



Quality at the Touch of a Button

Ergonomically placed controls ensure that all functions are immediately at your fingertips for all inter-procedure changes.



Cable Management

HDMI, USB, camera AC/DC power and 24V monitor power supply are integrated within the arm for a cleaner cable management. USB, HDMI, Medical monitor power integrated for a better workflow. No fragile fibre-optic cables that break or tangle.





Awarded for Design.
Designed for Dentists.



OPTIK
Mikroskope in Medizin & Technik
MADE IN GERMANY

Documentation

Whether you prefer to document the treatment in 4K, in HD or with a smartphone: Focal lengths and optics have been uniquely designed for an ideal match to today's latest digital cameras.



4K-Imaging-Port

For Sony, Nikon & Canon
FullFrame cameras



HD-Imaging-Port

For Sony, Nikon & Canon
APS-C cameras



Phone-Imaging-Port

Adapter compatible
with all smartphones.
MicVision App



SensorUnit

Starts a photo or a video
recording with a hand
gesture.

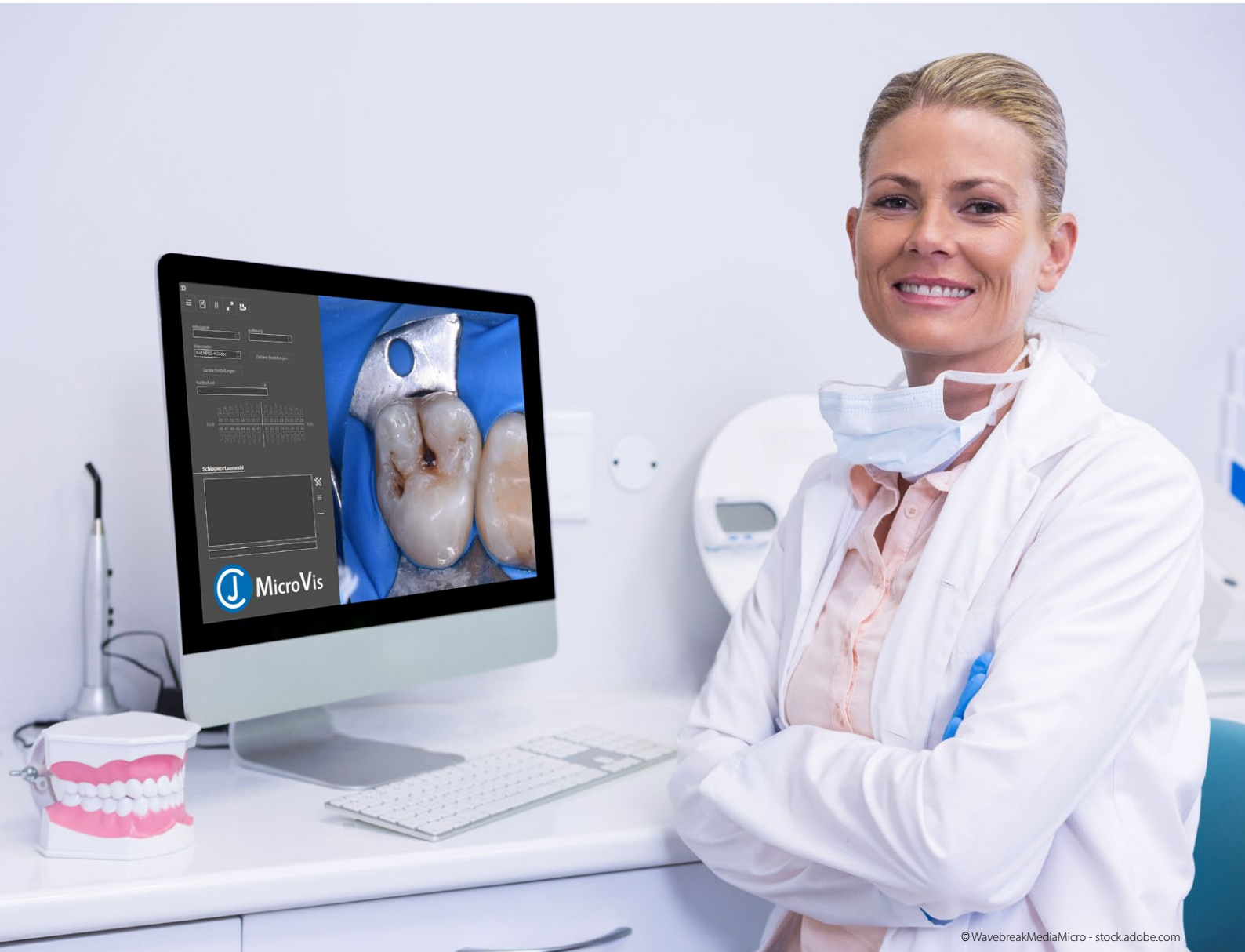
For Sony cameras
(FullFrame & APS-C).



Full Connectivity

Swivel Arm Advanced
with HDMI, 24V, USB.
Direct power supply for the
camera from the microscope.

CJ-Optik
recommends
SONY α



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Save Time for the Important Things

With the MicroVis software specially developed for the Flexion microscopes, the image and video files of the treatment are conveniently and securely stored in your patient's file (PACS). Thanks to its user-friendliness, MicroVis relieves your team and you save important time. MicroVis is optionally available and compatible with all common practice management systems.

- Ideal for communicating with patients & assistants effectively
- Standardizing video and image documentation workflow
- Patient management
- Editing of photos and videos
- Supports DICOM modalities

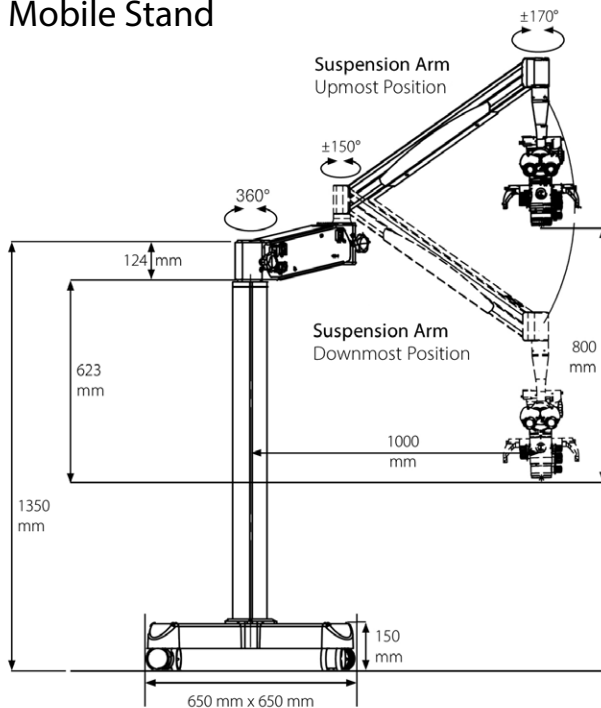


Mounting Options

Flexible and customized

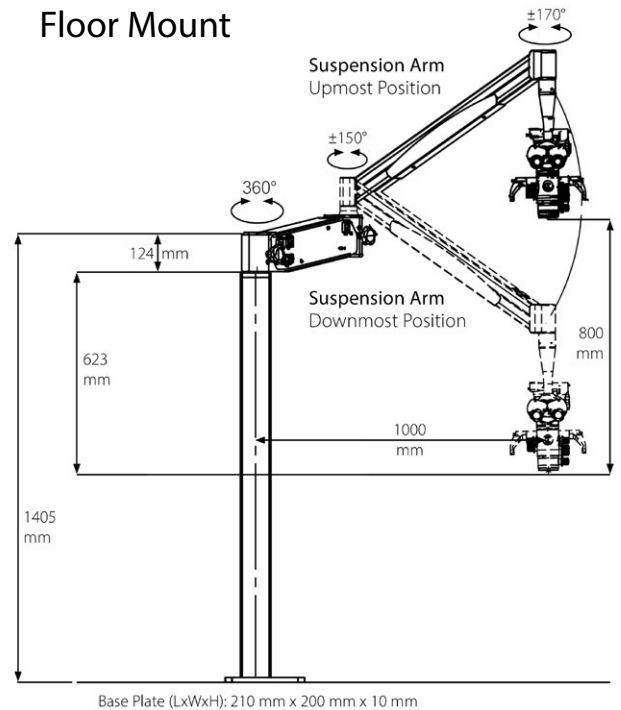
Flexion – The name says it all, even with the different mounting options. In addition to the dimensions shown here, CJ-Optik also offers tailor-made heights and lengths of all tripod parts in order to adapt the assembly to the premises in the best possible way. In addition, the parts can be interchanged (e.g. when changing from floor to ceiling mounting).

Mobile Stand



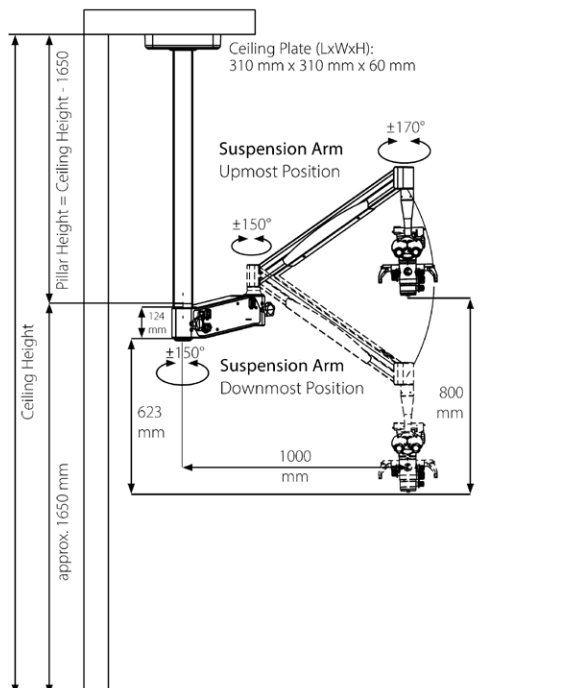
Ideal for use in multiple rooms.

Floor Mount



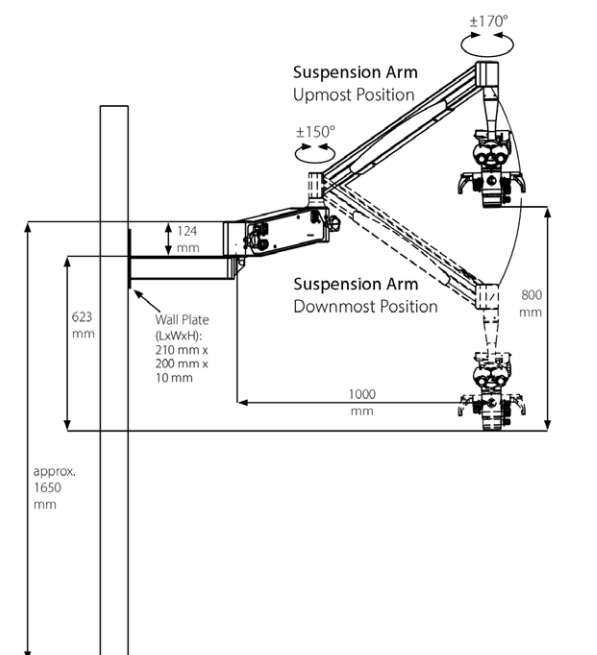
The space-saving alternative to the mobile stand.

Ceiling Mount



Maintains ground clearance. Pillar height can be adjusted to any ceiling height.

Wall Mount



The alternative to ceiling mounting.

Design meets Performance.



Statement of the Jury

“A high-performance high-tech product with a very progressive and contemporary design.”

The German Design Award directly contributes to the overall commercial success. Prizes will only be awarded to projects that truly represent pioneering contributions to the German and international design landscape. The highly esteemed, international jury guarantees this. The German Design Award identifies and presents unique design trends: a competition that advances the design-oriented scene.

(www.german-design-award.com)

Exclusive **unibody construction** offers purity of form and perfection of function. The microscope is created using a **minimalist design philosophy**, demanding that less is truly more. All essentials are included to create a **no-compromise system of elegance and simplicity**.

(CJ-Optik)



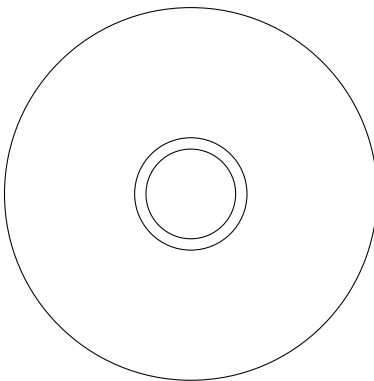
Accessories



Binoculars f 200

Compared to the normal focal length of 170 mm, the new f 200 binoculars lead to an increased magnification of 15 %.

Compatible with all CJ-Optik Flexion Microscopes.



Eyepiece with Reticule

The reticule eyepiece allows you to center the position of the image. This will help your assistance and for photo and video purposes.

Compatible with all CJ-Optik Flexion Microscopes.



Safety First: Laser Filter

We put safety first when you are working with a laser tool. Our laser filter with a range of 705 - 1290 nm ensures that your eyes are safe at any time. Easy assembly: All you have to do is remove the binocular head and then insert the filter. When the filter is not needed, simply pull it out a little.

Compatible with all CJ-Optik Flexion Microscopes.



Splash Guard Protection

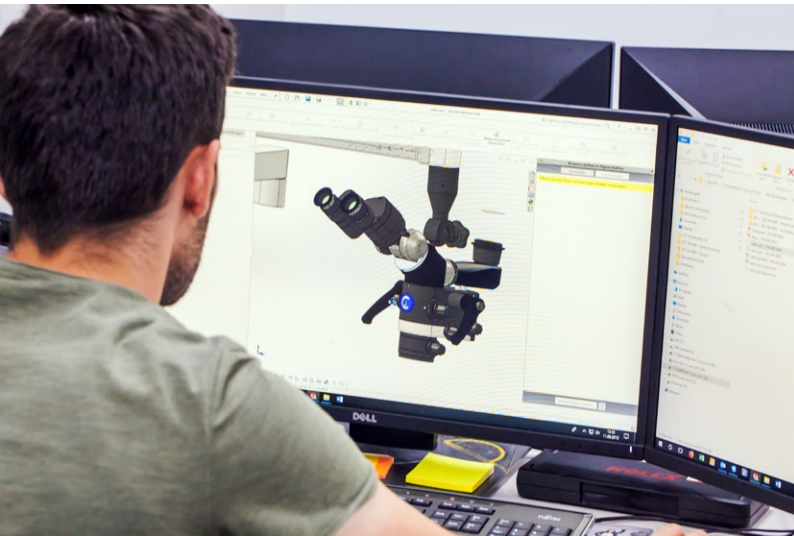
CJ-Optik offers a splash guard to protect dentists and patients during treatment with the Flexion microscopes. With a simple assembly without tools, the plexiglass plates for the eyepiece and for the lens are attached. The set is available in two sizes.

Compatible with all CJ-Optik Flexion Microscopes.

Made in Germany



Our in-house production is located in Asslar in the immediate vicinity of the “City of Optics” Wetzlar. The production is according to CE and ISO 9001:2015 thus guaranteeing the highest quality and reliability. We take advantage of the region’s outstanding expertise by cooperating with the “Wetzlar Network” and local suppliers.



Technical Data

Flexion ^{twin} Blue & White	
Magnification System	5-step apochromatic magnification changer / 0.4 - 2.5
Eyepieces	Widefield eyepieces WF 12.5 x Widefield eyepieces WF 12.5 x / Reticle *
Tube System	F = 170 mm apochromatic / 180° tiltable tube F = 200 mm *
Stereo Base	24 mm for enhanced 3D vision
Focus System	VarioFocus ² 200 - 350 mm / Plan-APO / glass protection * VarioFocus ³ 210 - 470 mm / Plan-APO / glass protection * VarioFocus with hydrophobic glass protection *
Illumination System	Twin Blue: Up to 100.000 Lux (<i>white rear LED</i>) Fluorescence (<i>dark blue front LED</i>) Twin White: Up to 200.000 Lux (<i>white front and rear LEDs</i>) Fanless high power LED 5.500 K / 65.000 h life time 2° with stepless spot diaphragm system (<i>for front and rear LED</i>)
Selective Filter System	Natural Light Filter Orange Filter Green Filter White Light (no filter) (<i>Settings via joystick</i>) Polarization Filter (<i>combinable with white rear LED only</i>) LED control display
Movement	MonoGlobe, 355° Axis control
Handles	Ergonomic handles, 360° adjustable
Asepsis	1 x Asepsis set for the handles and knobs (<i>sterilizable</i>)
Documentation	Integrated beam splitter 50:50 4K-Imaging-Port / FullFrame * HD-Imaging-Port / APS-C * Phone-Imaging-Port / Smartphones * SensorUnit for touchless photo / video MicVision App (<i>iOS</i>) * MicroVis Software *
Power	Power adapter for all Sony Alpha cameras, smartphones
Stands	Mobile stand *, Wall mount *, Ceiling mount *, Floor mount *, Dental unit *

* optional





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