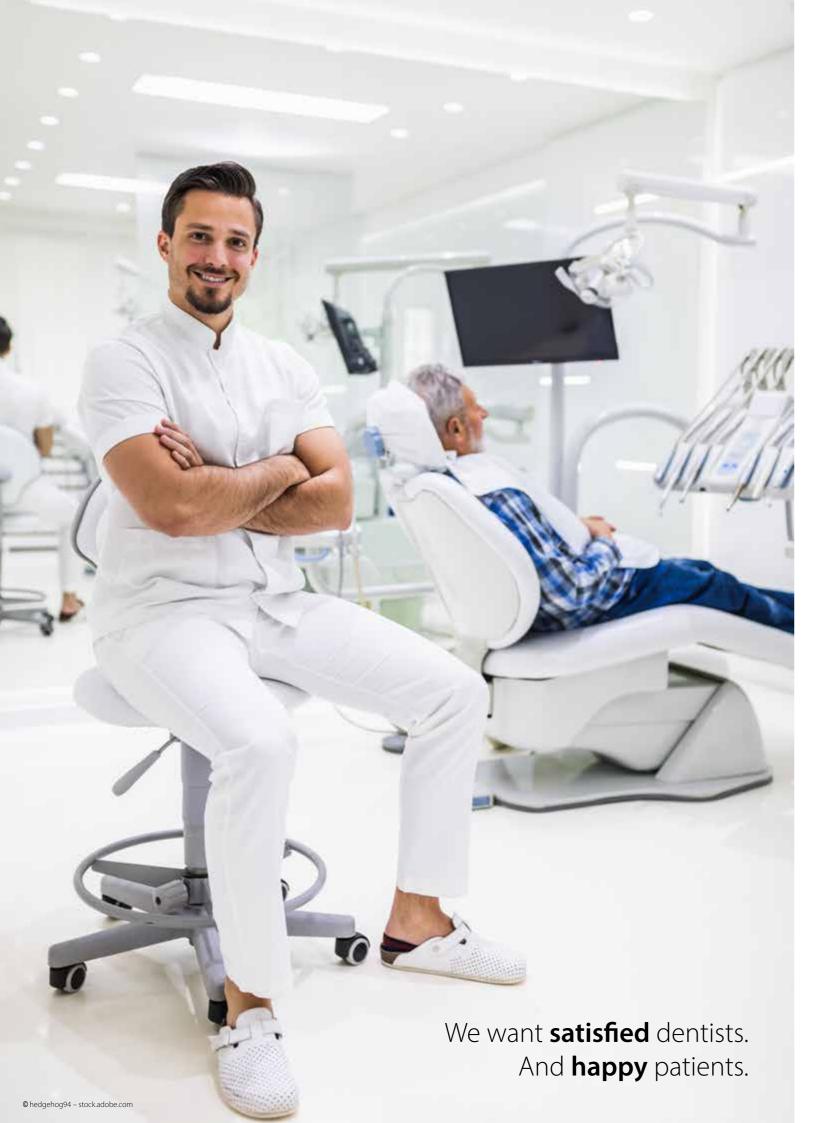




Flexion The Microscope Family

General Catalogue







CJ-Optik Dental MicroscopesFor successful treatments.

Since 2007 CJ-Optik has become one of the high-performance companies in the field of dental microscopy. With customers in 90 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.

Get to know the CJ-Optik Flexion microscope family with its extensive, innovative features - for the highest requirements of modern dentistry.

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About CJ-Optik

Foundation of

CJConsultation

in Wetzlar

2007

Developing of various OEM products

2008



Foundation of CJ-Optik in Wetzlar

OPTIK

2013

Focus 200-350 mm all microscopes

2014



Introduction of Varioobjective which fits for



Production start of the Flexion microscopes

2015



ISO 9001:2008 certification

2016



2017

Relocation to Asslar. New factory building (2000 sqm)



2017

German Design Award Special for the Flexion dental microscope



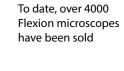
2019

Production start of Flexion twin microscope



ISO 13485:2016 certification for medical devices

2021



2022



Our in-house production is located in Asslar in the immediate vicinity of the "City of Optics" Wetzlar. The production is according to ISO 13485 thus guaranteeing the highest quality and reliability. We take advantage of the region's out-standing expertise by cooperating with the "Wetzlar Network" and local suppliers.



CJ-Optik

- Optical precision, care and responsibility made in Germany.
- Owner-managed, medium-sized company with in-house development & production.
- Together with our customers we find individual solutions.





Flexion Twin

The top model for the highest demands of modern dentistry. The double LED equipment with fluorescence and the state-of-theart selective filter system deliver a superior microscopy experience.





Flexion Twin lite

Consequently designed and developed to meet the needs of dentists. Two LEDs, fluorescence and the Natural Light Filter make the Twin lite the ideal tool for endodontists, general dentists and dental hygienists.





Flexion Advanced SensorUnit

In addition to its sister model Advanced, the Advanced SensorUnit has a sensor unit which starts photo or video recordings simply by hand gesture. For even more treatment comfort.



Flexion Basic

Ideal for entry-level dental microscopy. High-quality semi-APO optics and LED illumination for a well-lit treatment site. The unique MonoGlobe coupling system creates an ergonomic working position.



and spot diaphragm, the Flexion Advanced is the efficient solution for dentists worldwide.

6



Flexion Exepto

The Flexion Exepto is the most compact of all Flexion models. The magnification changer is equipped with the three most commonly used levels.



7

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 5500 K. Future-proof with 65000 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.



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

MonoGlobe is the uniquely designed ball joint system for 3D microscope head movement and an ergonomic working position. The dentist benefits from fluid and smooth repositioning at all angles without the need to loosen and retighten knobs.



Quality at the Touch of a Button

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

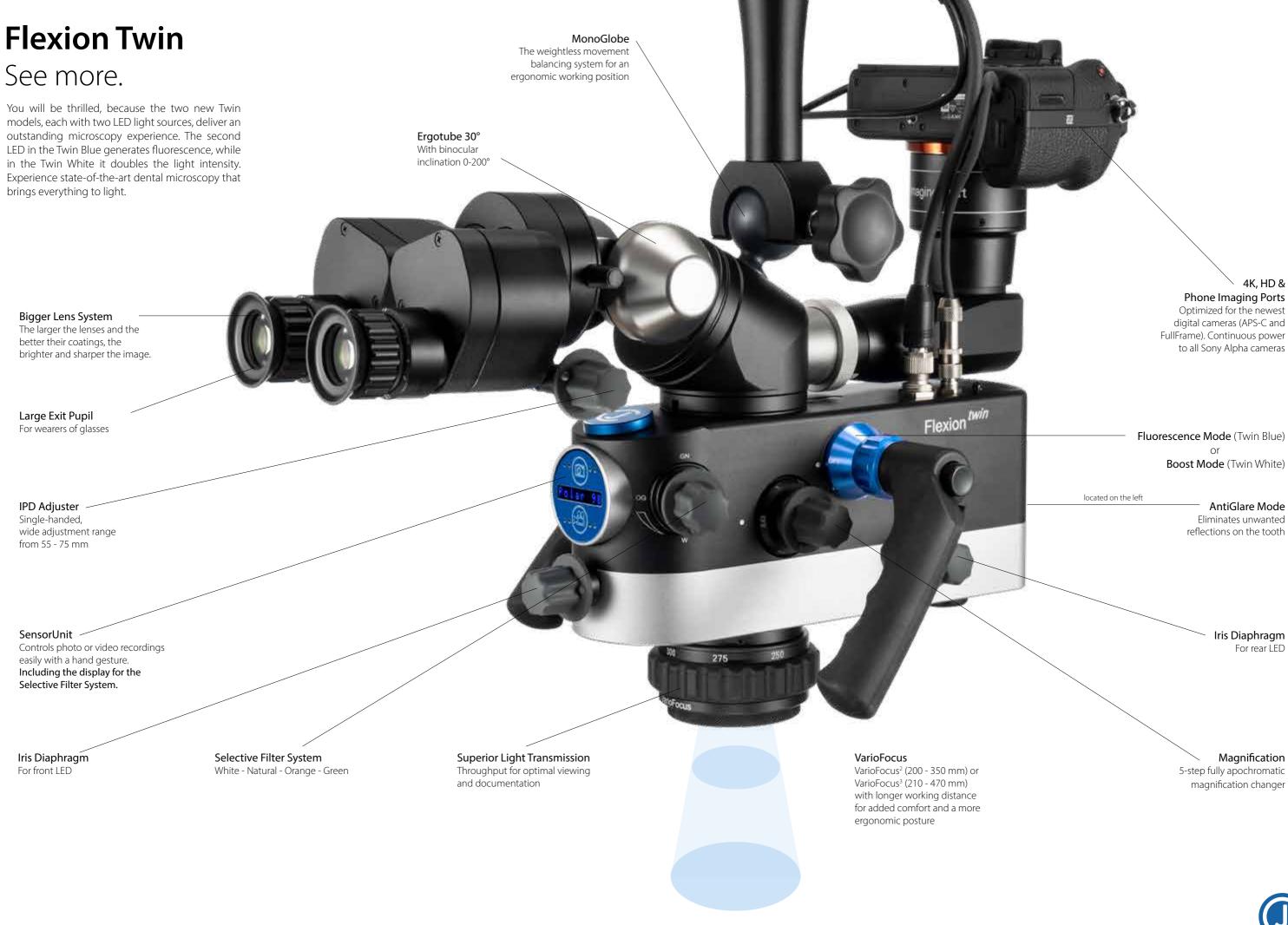


Cable Management

Experience full connectivity with HDMI, USB, USB3, camera AC/DC power and 24V monitor power supply integrated within the arm for a cleaner cable management and for an optimal digital workflow. No fragile fibre-optic cables that break or tangle.







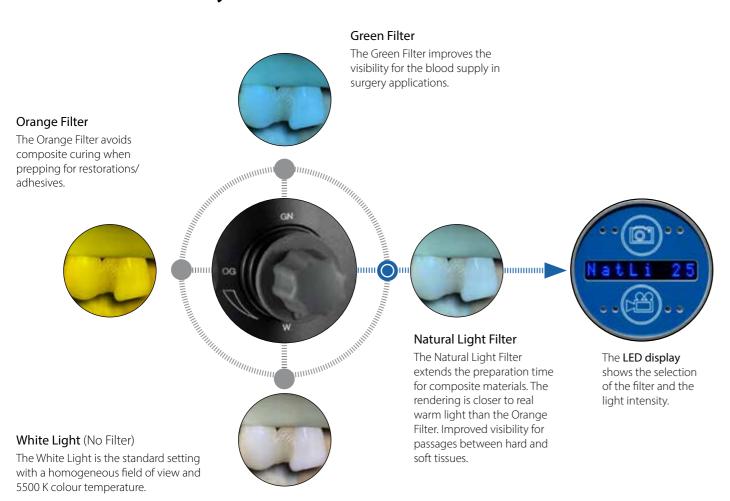


Flexion Twin

For different ways of working.

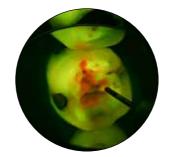
True to the motto "You can only treat what you can see" the Selective Filter System of the Flexion microscopes makes dentistry more efficient and precise. All filters shown on this page are integrated in both Twin versions.

The Selective Filter System



Two LEDs. Really a lot of light.

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
© Dr. Carlos Garcia / Mexico

Twin BlueVisibility 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.







Fluorescence vide by Dr. Carlos Garcia



Boost Mode / 2 LEDs



Standard White Mode / 1 LED

Twin White Light Boost with up to 200K 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 200K Lux of the two LED lights is visible. The special feature is that the front and rear LED can be switched independently of each other. Their different angles of incidence (less than 3°) make it easier to identify structures in the root canal. All three light modes are easily controlled via the joystick. Thanks to the high magnification power lateral canals and cross connections can be identified very well.







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.









Flexion Twin lite

A Class of its own.

As with the Flexion Twin, there are two models to choose from for the Twin lite: the Blue fluorescence model and the White model with double LED luminosity. Both feature the important Natural Light Filter, which extends the preparation time for composite materials. The Twin lite deliberately does without the extensive selective filter system including polarisation filter of its big Twin sister and is thus an ideal tool for dentists who have the essentials in mind.





SensorUnit

White Light Mode



Fluorescence Mode or Light Boost Mode



Natural Light Filter

Flexion Twin lite blue

The dark blue fluorescent LED takes your work to a new level. Caries and the transitions between real and artificial dental material become immediately visible.





Flexion Twin lite white

The Twin lite white and its 200K Lux light intensity from two LEDs are the right choice when a particularly bright treatment area is desired.



- 5-step, fully apochromatic magnification changer
- Outstanding **light transmission**
- Fanless **high-power LED** with 5500 K LEDs: white/blue (Fluo) or white/white
- Natural Light Filter extends preparation time for composites
- Stepless **iris diaphragm** shows the exact treatment site and prevents light from entering the patient's eye



Flexion Advanced & Flexion Advanced SensorUnit

The Allrounders.

The Flexion Advanced dental microscope impresses with its excellent optics and a wide range of functions. The well thought-out ergonomics ensure an upright treatment position and a relaxed posture. Various imaging connections for full-format, APS-C cameras and smartphones are available for contemporary documentation. By means of a hand gesture, photo or video recordings can be started conveniently via the sensor unit integrated in the Flexion Advanced SensorUnit model.



- 5-step, fully apochromatic magnification changer
- Outstanding **light transmission**
- Fanless high-power LED with 5500 K
- Orange filter avoids composite curing
- Stepless **iris diaphragm** shows the exact treatment site and prevents light from entering the patient's eye



Scan for 360° view



Flexion Advanced SensorUnit

The Advanced SensorUnit model is additionally equipped with a sensor unit - for particularly convenient documentation.





Flexion Basic

Start the Treatment.

The Flexion Basic is the perfect tool when the magnification of the loupe glasses is no longer sufficient, there is no light at depth or the sitting posture becomes painful. The Basic works with the same five magnification levels of its Flexion family members and has semi APO optics. If documentation is desired, the Basic can be equipped with the imaging ports.



Flexion Exepto

Compact Size. Big on Performance.

CJ-Optik Flexion microscopes stand for maximum flexibility and ergonomics. Two values that apply especially to the Flexion Exepto thanks to its compactness. The Flexion Exepto has the smallest housing of all models of the Flexion family making it a very flexible tool for your treatments. The magnification changer, which is equipped with the three most frequently used levels, ensures quick changes. Even beginners quickly become familiar with the microscope.



- Compact: approx. 20 % smaller housing
- Outstanding light transmission
- Fanless high-power LED with 5500 K
- Orange filter avoids composite curing



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-PortFor 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
for iOS and Android.





AppStore is a trademark of Apple Inc.
Google Play and the Google Play logo are trademarks of Google LLC.



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, USB3. Direct power supply for the camera from the microscope.



SONY a

Software





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

Design meets Performance.



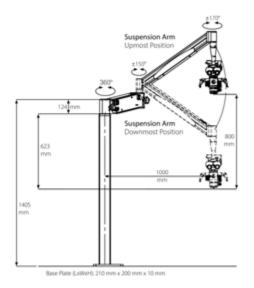


Mounting Options

Flexible and customized

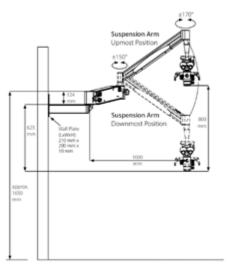
Flexion – The name says it all, even with the different mounting options. In addition to the dimensions shown here, CJ-Optik also offers tailor-made heights and lengths of all tripod parts in order to adapt the assembly to the premises in the best possible way. In addition, the parts can be interchanged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

Floor Mount



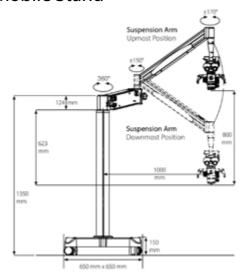
The space-saving alternative to the mobile stand.

Wall Mount



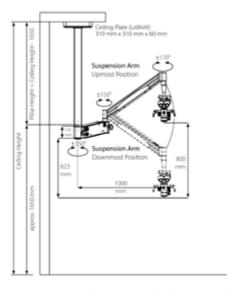
The alternative to ceiling mounting.

Mobile Stand



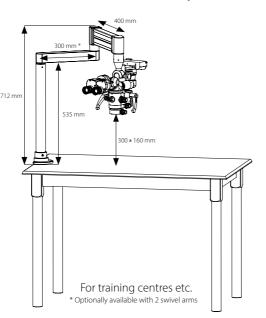
Ideal for use in multiple rooms.

Ceiling Mount



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

Table Mount / Labscope



Technical Data

	Flexion Family
Magnification System	5-step apochromatic magnification changer / 0.4 - 2.5 or 5-step semi APO magnification changer / 0.4 - 2.5 or 3-step apochromatic magnification changer / 0.7 - 1.45
Eyepieces	Widefield eyepieces WF 12.5 x (reticle optionally available)
Tube System	$F = 170 \text{ mm}$ or $F = 200 \text{ mm}$ apochromatic / 180° tiltable tube
Stereo Base	24 mm for enhanced 3D vision
Focus System	VarioFocus ² 200 - 350 mm or VarioFocus ³ 210 - 470 mm or VarioFocus ⁴ 200 - 350 mm or VarioFocus ⁵ 210 - 500 mm Plan-APO / glass protection * VarioFocus with hydrophobic glass protection *
Illumination System	Up to 100K Lux or Up to 100K Lux (white LED) + Fluorescence (dark blue LED) or Up to 200K Lux (2 white LEDs) Fanless high power LED 5500 K / 65000 h life time 2° with stepless spot diaphragm system (Twin: for front and rear LED)
Filter	Orange Filter (Exepto, Basic, Advanced, Advanced SensorUnit) or Natural Light Filter (Twin lite) or Natural Light Filter + Orange Filter + Green Filter + Polarization Filter (Twin)
Movement	MonoGlobe, 355° Axis control
Handles	Ergonomic handles, 360° adjustable
Asepsis	1 x Asepsis set for the handles and knobs (sterilizable)
Documentation	Integrated beam splitter 50:50, 4K-Imaging-Port / FullFrame or HD-Imaging-Port / APS-C or Phone-Imaging-Port, SensorUnit for touchless photo / video, MicroVis Software or MicVision App (iOS and Android)
Power	Power adapter for all Sony Alpha cameras, smartphones
Stands	Mobile stand or Wall mount or Ceiling mount or Floor mount or Dental unit

* optional

We are often asked:

How do you achieve the outstanding quality of the Flexion microscope optics?

The quality and integrity of our optical glass is one of our best kept secrets; designed by our Optical Engineer to ensure the refractive index, light dispersion, transmission and anti-reflective coating become the cornerstone of our microscope.

The optimal combination of these properties together with the precise manufacturing of the lens surfaces and good mechanics enables the perfect imaging performance.

Optics Quality



Comparison of Models	Exepto	Basic	Advanced	Advanced SensorUnit	Twin lite	Twin
Microscope						
Microscope body Exepto / APO	✓	0	0	0	0	0
Microscope body Basic / Semi APO	0	✓	0	0	0	0
Microscope body Advanced / APO	0	0	✓	0	0	0
Microscope body Advanced / APO / SensorUnit	0	0	0	✓	0	0
Microscope body Twin lite blue / APO / SensorUnit	0	0	0	0	√ Blue	0
Microscope body Twin lite white / APO / SensorUnit	0	0	0	0	√ White	0
Microscope body Twin blue / APO / SensorUnit	0	0	0	0	0	√ Blue
Microscope body Twin white / APO / SensorUnit	0	0	0	0	0	✓ White
3-step full magnification changer (0.7/1.0/1.45x)	✓	0	0	0	0	0
5-step full magnification changer (0.4/0.63/1.0/1.6/2.5x)	0	√	✓	✓	✓	✓
Suspension arm with transport lock / integrated micro HDMI cable	√	√	7	7	→	V
Adjustable spot LED diaphragm with knob and cap	0	0	7	7	√	√
Adjustable spot blue or white LED diaphragm with knob and cap	0	0	0	0	7	7
2 pcs WF 12.5x eyepiece (± 5 dpt adjustment)	√	√	7	7	V	V
	OAC	OAC	OAC	OAC	OAC	OAC
1 pc WF 12.5x eyepiece with reticle (± 5 dpt adjustment) Swivel tube 0 - 200°	✓	✓.	✓.	✓ ✓	✓	✓.
	V	~	7	V	V	~
Straight tube f'=170 mm APO, IPD 45 - 80 mm						
Straight tube f'=200 mm APO, IPD 45 - 80 mm	OAC	OAC	OAC	OAC	OAC	OAC
IPD adjuster for Swivel tube 0 - 200°	OAC	OAC	OAC	OAC	✓	✓
30° Ergo Optic with beam splitter 50:50	✓	✓	✓	✓	✓	✓
MonoGlobe Movement System	✓	✓	✓	✓	✓	✓
Counter weight for Ergotube	✓	✓	0	0	0	0
Objectives						
VarioFocus ² / 200 - 350 mm Plan-APO	OPT	OPT	OPT	OPT	OPT	OPT
VarioFocus ³ / 210 - 470 mm Plan-APO	OPT	OPT	OPT	OPT	OPT	OPT
Focus / 250 mm Plan-APO	OPT	OPT	OPT	OPT	OPT	OPT
Interchangeable objective protection	✓	✓	✓	✓	0	0
Interchangeable objective protection with hydrophobic coating (HPC)	OAC	OAC	OAC	OAC	✓	✓
Functions / Filters						
runctions / ritters						
Display for filter visualization / SensorUnit for touchless photo/video	0	0	0	0	√	✓
	0	0	0	0	✓ ✓ Blue	✓ ✓ Blue
Display for filter visualization / SensorUnit for touchless photo/video				_		
Display for filter visualization / SensorUnit for touchless photo/video Fluorescence filter (blue) for composite, plaque, tartar detection	0	0	0	0	✓ Blue	✓ Blue
Display for filter visualization / SensorUnit for touchless photo/video Fluorescence filter (blue) for composite, plaque, tartar detection 2nd white LED (5500 K) for double light boost, up to 200K Lux	0	0	0	0	✓ Blue ✓ White	✓ Blue ✓ White
Display for filter visualization / SensorUnit for touchless photo/video Fluorescence filter (blue) for composite, plaque, tartar detection 2 nd white LED (5500 K) for double light boost, up to 200K Lux Natural light filter to extend the curing time of composite materials	0 0 0	0 0	0 0 0	0 0	✓ Blue ✓ White	✓ Blue ✓ White
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✓ = Included

OPT = Optional

OAC = Optional + Additional Charge

O = Not available





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