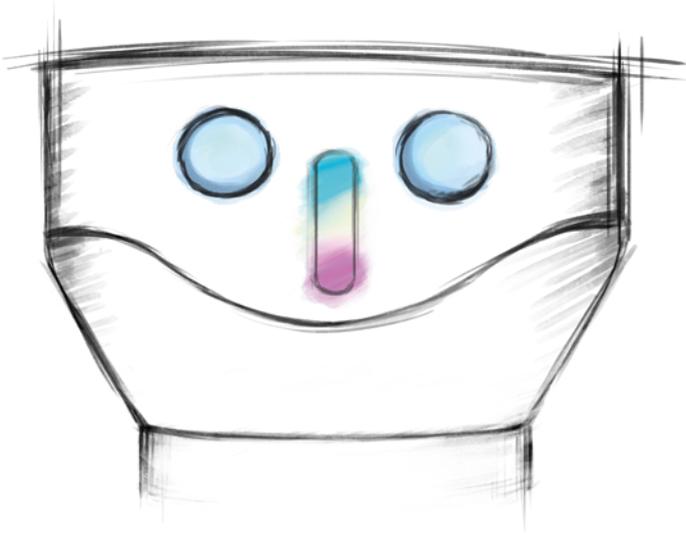


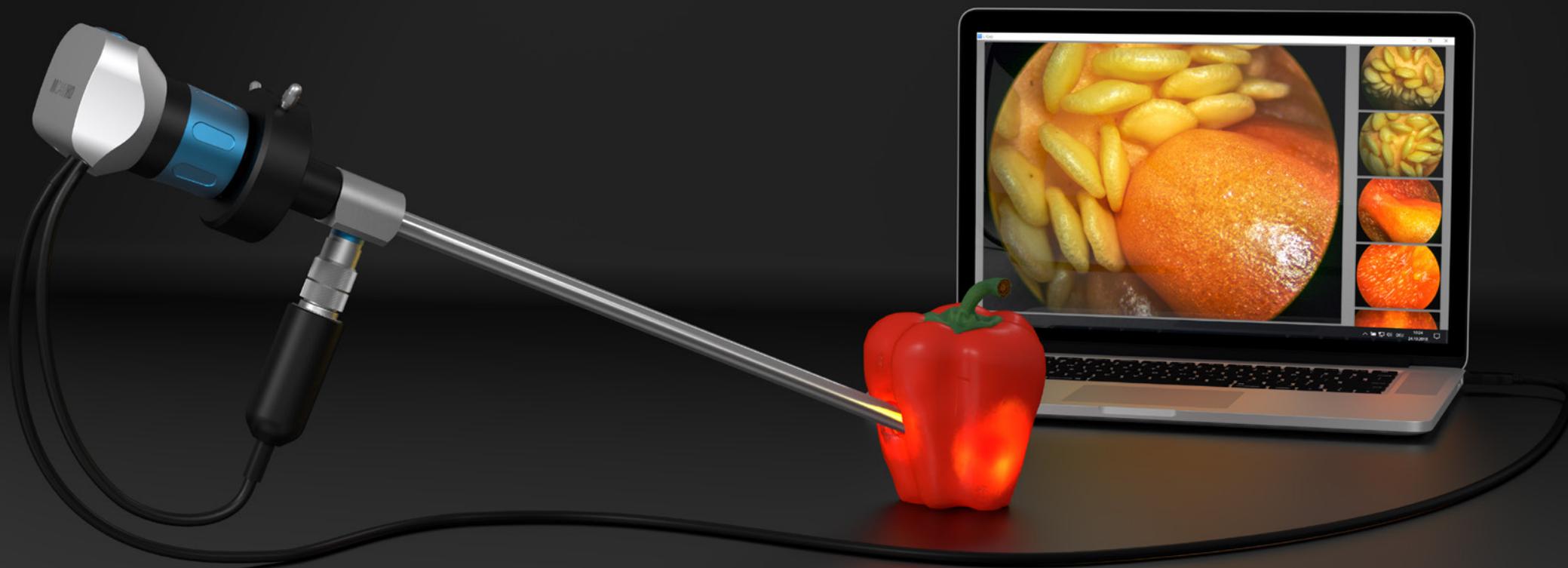
I.C.LERCHER



MEDICAL PRODUCTS

CAMERA SYSTEMS

*For a clear view of
the essential.*



Flawless design.
Ideal handling.
Perfect for you.

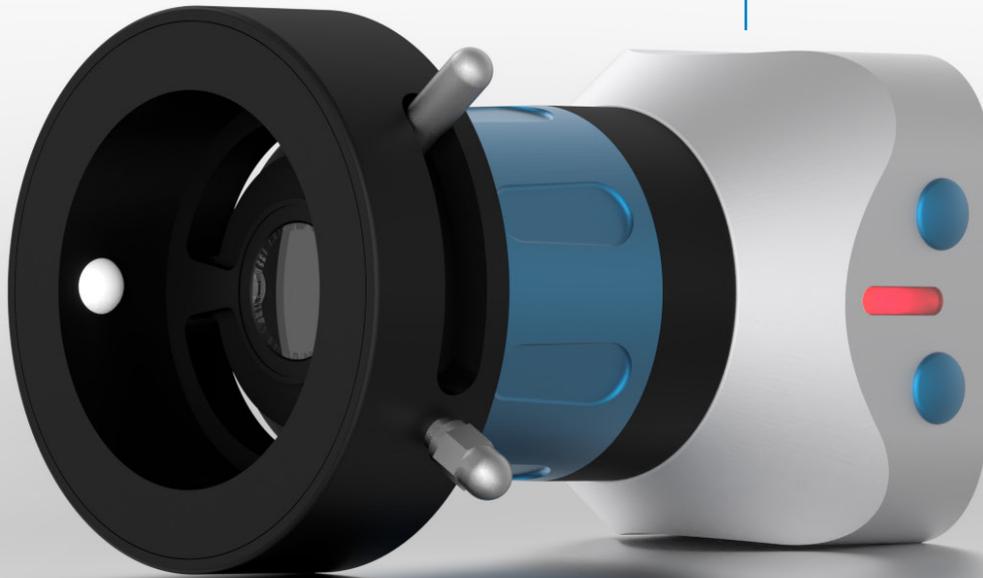
HAPTIC FEEDBACK

Feel – the new dimension in camera operation.



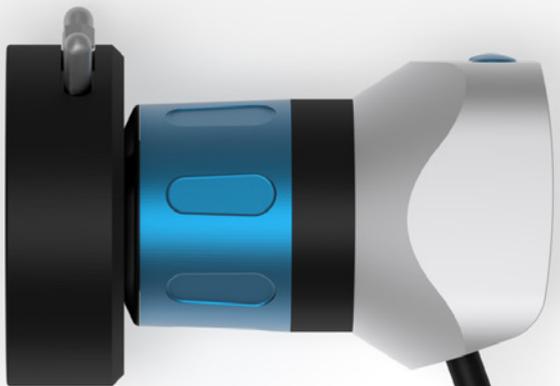
USER-INTERFACE

Everything is under control with two user-configurable buttons. The RGB status indicator gives feedback at a glance.



HD ENDO COUPLER

Top image quality and easy handling are seamlessly integrated. Thanks to HD glass optics with sapphire glass, $f=22.5$.

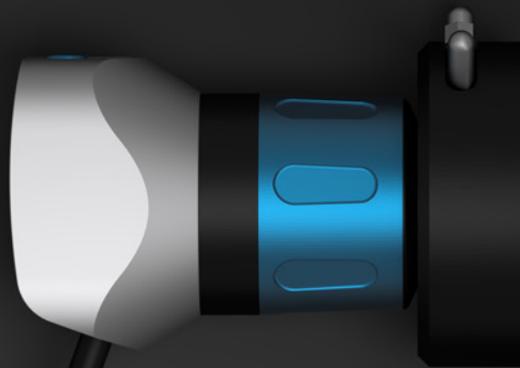


A camera. As unique as you are.

High-resolution sensor, waterproof aluminum housing, innovative user control. To put it simply: impressive image quality packaged in an extraordinary design and customized for you.

MCAMHD^c
HD camera with C-mount thread.

MCAMHD
HD camera with integrated HD endo coupler.



It brings light into the dark.

The integrated LED lighting always puts the light where you need it. And it is always as bright as necessary for your perfect image. Without any auxiliary light sources or fiber optic cables.

MCAMHD+
HD camera with integrated HD endo coupler and integrated light source.

MCAMHD+^c
HD camera with C-mount thread and integrated light source.

3, 2, 1, ZERO! The smart entry.

MCAMHD ZERO

Equipped with the most important basic functions, the **M-CAM HD ZERO** offers a smart entry into the world of digital endoscopy.

Thanks to innovative TAP control and haptic feedback, it ensures uncomplicated use on the patient in every situation.



	MCAM HD	M-CAM HD C	M-CAM HD G	M-CAM HD CG	M-CAM HD+	M-CAM HD+ C	M-CAM HD+ G	M-CAM HD+ CG	M-CAM HD ZERO	M-CAM HD ZERO R
Resolution live										
HD, Format 4:3	•	•	•	•	•	•	•	•	•	•
Resolution shot										
2952 x 1944 px	•	•			•	•				
1296 x 972 px			•	•			•	•		
960 x 720 px									•	•
Sensor										
CMOS Rolling-Shutter	•	•			•	•				•
CMOS Global-Shutter			•	•			•	•	•	
Control										
Configurable buttons	•	•	•	•	•	•	•	•		
TAP-control	•	•	•	•	•	•	•	•	•	•
Feedback										
Haptic feedback	•	•	•	•	•	•	•	•	•	•
LED status display	•	•	•	•	•	•	•	•		
Onscreen Overlay	•	•	•	•	•	•	•	•		
Connection										
USB 2.0 or higher	•	•	•	•	•	•	•	•	•	•
Pluggable									•	•
Operating system										
Windows	•	•	•	•	•	•	•	•	•	•
macOS	•	•	•	•	•	•	•	•	•	•
UVC standard technology	•	•	•	•	•	•	•	•	•	•
Lens										
Integrated, f22.5 HD	•		•		•		•			
C-Mount		•		•		•		•	•	•
Additional Features										
Auto-Standby	•	•	•	•	•	•	•	•	•	•
Integrated LED lightsource					•	•	•	•		
Online Update	•	•	•	•	•	•	•	•	•	•
Housing										
Aluminium	•	•	•	•	•	•	•	•	•	•
Stainless steel		•		•		•		•	•	•
IP 68 – 24-hour immersion	•	•	•	•	•	•	•	•	•	•
Width [mm]	45	41	45	41	45	41	45	41	25	25
Height [mm]	45	40	45	40	45	40	45	40	25	25
Depth [mm]	70	32	70	32	70	32	70	32	106	106
Weight [g]	145	70	145	70	180	105	180	105	110	110



STROBOSCOPY

*Making the
invisible visible.*

A revolution in digital stroboscopy.

Portable and efficient for multi-device use.



The most mobile stroboscopy system in the world consists of only three components: USB stick, LED light source and microphone.

This makes the **STROBO-LIGHT** the perfect system for mobile use in several practice rooms, at several locations or in portable environments.

All you need is a computer, notebook or tablet with a USB port.

The USB stick is connected to this port, the control unit of **STROBO-LIGHT**.

The power supply of the USB port is sufficient to operate the entire system - including the LED light source.

A use in battery operation of the notebook or tablet is therefore possible without any problems.

STROBOLIGHT

The LED light source is connected to the control unit via a plug connection. In addition to being used as a stroboscope, it can also be used as a continuous lighting system. It generates brightest illumination for rigid and flexible endoscopy.

The contact microphone is also plugged into the control unit and guarantees an exact measurement.



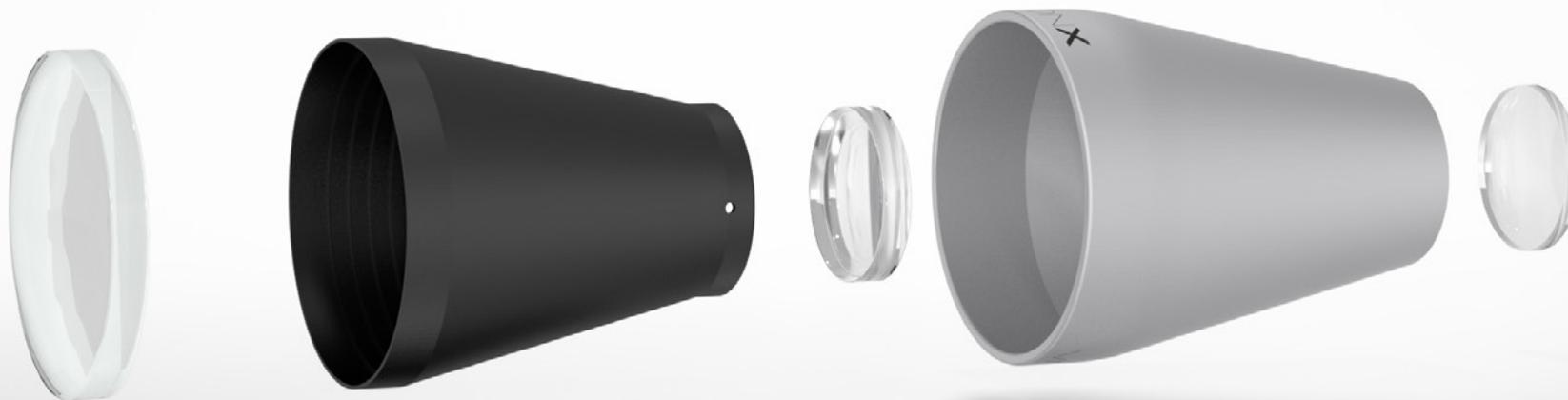
Facts and Figures.

Operating modes		Connection	
Permanent light	•	USB 2.0 or higher	Control unit
Stroboscopy	•	Jack plug 2.5 mm	Light source
Slow motion	0.1 Hz - 10.9 Hz	Jack plug 2.5 mm	Microphone
Phase shift	0° - 360°		
Light source		Operating system	
Technology	LED	•	Windows
Light output	800 lm	•	macOS
Colour temperature	5600 K		
Microphone		Housing	
Frequency range	70 - 1100 Hz	Aluminium and stainless steel	Material
Additional Features		145 g	Weight
Control	STROBO-LIGHT Control Center	66 mm	Width
Online Update	•	22 mm	Height
		9 mm	Depth



LOUPE SYSTEMS *custom*

*The details make
the difference.*



The best loupe we have ever made.

Clean on the outside. Tight on the inside.



XTRA lightweight.

Weight reduced to a minimum for maximum wearing comfort. Carefully selected materials and an optimized design mean that a pair of **VISIONX** loupes weigh a mere 22 g.

XTRA brilliant.

Vivid images that keep their true colors in a brilliance that has never been seen before. An optical system that has been recalculated from scratch combined with specially manufactured glass lenses make all this possible.

The evolution

Can the size be reduced while maintaining the field of view?
Is it possible to increase optical quality and reduce weight at the same time?
Is there a possibility of making cleaning as simple as possible?

stems from the details.

We had to address these questions and many more before we could make a thoroughly good system even better. With more than 30 years of experience and the constant drive to achieve the perfect image, we faced up to the challenge. Our answer to all the questions: **VISIONX**.

XTRA hygienic.

Always clean and hygienic every time you put them on. The watertight bonded loupe system makes it possible to wash the **VISIONX** under running water. This means that heavy soiling from blood, fat or make-up can be simply washed off prior to disinfection.

XTRA robust.

Made for day-to-day use. The combination of high-quality glass optics and a durable aluminum case provide for an exceedingly robust loupe system.

Small loupe. Large field of view.

XTRA wide.

A sense that there are no limits. With a field of view of around 100 mm, the **VISIONX** shows its true qualities. Combined with a virtually rimless view, it provides a unique visual experience in comparison to conventional systems.

XTRA clear.

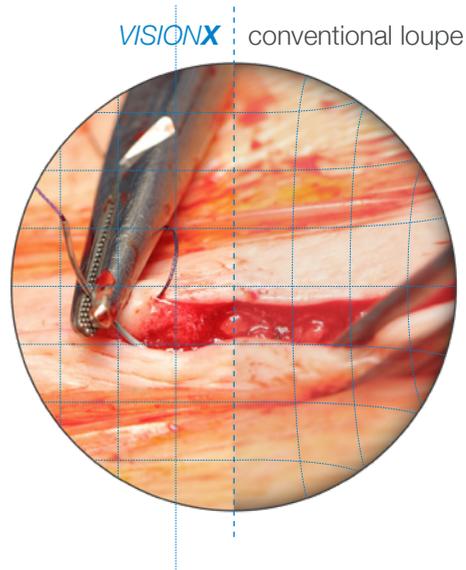
The real world across the entire field of vision. For this, you need more than to generate a constant sharpness from the center to the edges. You also need to avoid annoying distortions of all kinds. Blurred edges and distortion are two things unknown to our **VISIONX**.

XTRA thought through.

Put together from five precision parts and manufactured by hand in countless individual steps. This summarizes in a few words how the **VISIONX** is created.



But it's not that simple. We have thought about every detail and thought through every detail. The effort was worthwhile. A completely new loupe has come into being – Made in Germany.



Greater individuality for less to complain about.

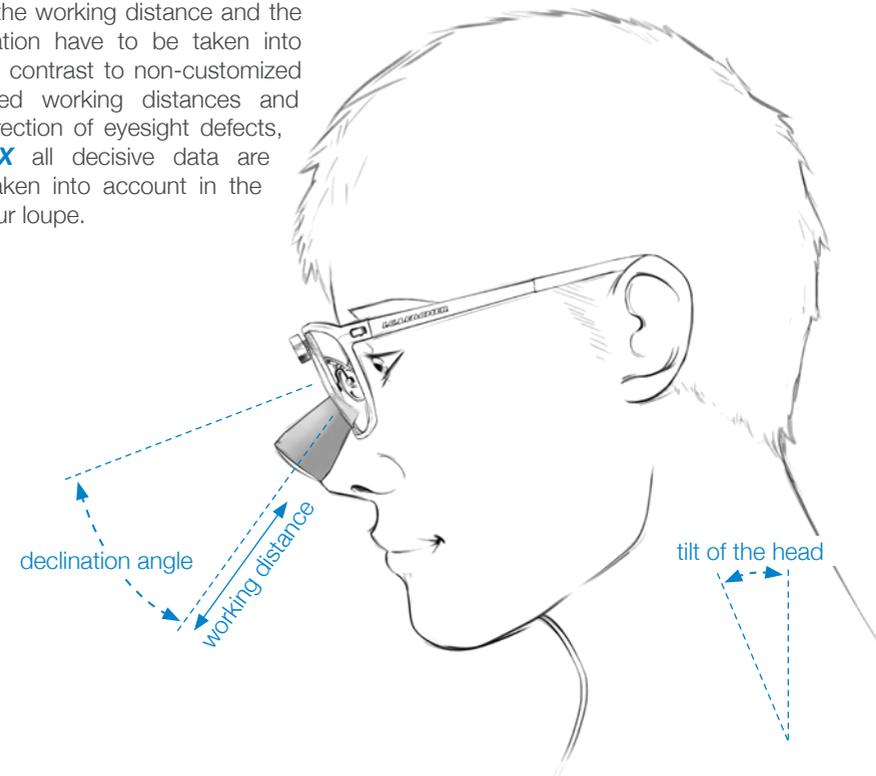
XTRA customized.

The **VISIONX** is tailored to you. The working distance, interpupillary distance and eyesight are taken into account to produce a loupe that fits exactly and meets your every need. Should anything change, we make the necessary adjustments.

XTRA ergonomic.

Pains in the neck and back caused by an awkward posture? We have tackled this problem. The details of loupes are decisive in enabling an ergonomic working position – the basis for comfortable and concentrated work over extended periods of time. In this respect, the tilt of the head, the working distance and the angle of declination have to be taken into consideration. In contrast to non-customized loupes with fixed working distances and without any correction of eyesight defects, for the **VISIONX** all decisive data are collected and taken into account in the production of your loupe.

In particular, each individual's eyesight at the working distance plays a decisive role in being able to work comfortably. If this adjustment were not made, the actual working distance would not match the optimum value as determined. The consequences would be neck and back complaints triggered by an excessive tilt of the head. Alongside customized production, the **VISIONX** enables greater declination angles thanks to its slim design. This makes it possible to reduce the tilt of the head even further. Whether standing or sitting, the **VISIONX** makes work even more ergonomic and relaxed, no matter what working distance and eyesight defects are involved.

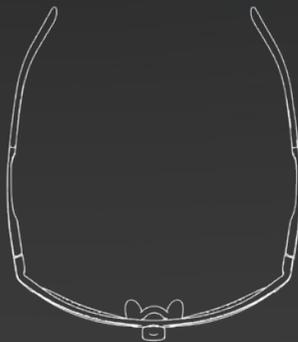


CURVEDFRAME

The colour accent in grey everyday working life.



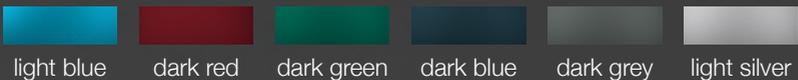
It combines the advantages of both worlds. The strong curvature provides good eye protection. In combination with a modern shape and a variety of colours, it becomes an all-rounder - dioptrre compensation in the lens included.



Facts and Figures.

General	
Material	Aluminium
Size	unisze
Weight	25 g
Features	
Dioptrre compensation	in glas
Magnetic adaptor	•

available colours



TITANFRAME

Elegant and solid.
A classic.



A timeless design made of titanium. In combination with elegant colours it is the solid classic among the frames. Dioptrre compensation in the lens is also possible.



Facts and Figures.

General	
Material	Titan
Size	unisze
Weight	25 g
Features	
Dioptrre compensation	in glas
Magnetic adaptor	•

available colours

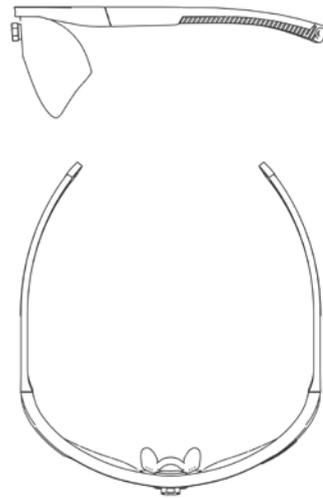


SPORTFRAME

Practical. Comfortable.
And well protected.



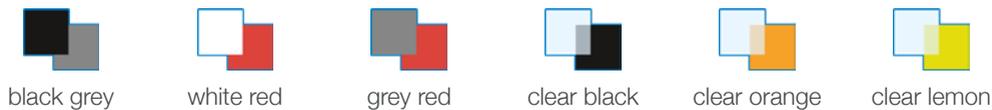
The sporty frame for best possible protection. Individually adjustable temples and an adjustable nose pad guarantee a perfect fit during treatment.



Facts and Figures.

General	
Material	Plastics
Size	standard, medium, slim
Weight	30 g
Features	
Dioptrre compensation	RX-Clip
Magnetic adaptor	•

erhältliche Farben



Model overview



X-VIEW 2.8

The universal one

M-VIEW 2.8

The compact

VISIONX 3.0

The evolution

VISIONX 3.8

The evolution

S-VIEW 2.8

Our lightweight

Facts and Figures.

	VISIONX 3.0	VISIONX 3.8	X-VIEW 2.8	M-VIEW 2.8	S-VIEW 2.8
Optical parameters					
Magnification	3.0	3.8	2.8	2.8	2.8
Working distance [mm]	individually	individually	individually	individually	individually
Field of view [mm]	100	45	110	90	80
Depth of field [mm]	180	70	200	170	140
Dioptrre compensation	•	•	•	•	•
Housing					
Aluminium	•	•	•	•	•
Glas lenses	•	•	•	•	•
Waterproof	•	•	•	•	•
Weight per pair [g]	22	26	38	28	15
Frame combinations					
CURVED-FRAME	•	•	•	•	•
TITAN-FRAME	•	•	•	•	•
SPORT-FRAME	•	•	•	•	•

LOUPE SYSTEMS semi-custom

*In 4 easy steps
to individual glasses.*



Individuality quite simple.

With our C-loupes in *SPORT-FRAME*.

With the semi-custom system, you can create your individual loupe in just four steps. Over 30 years of experience make it possible to set standard values that come very close to custom loupe glasses. The result is an amazingly easy to custom system. It enables different magnifications with the best wearing comfort and highest quality of vision.



Step 1

Choose one of the loupes.



VISIONX^c 3.0

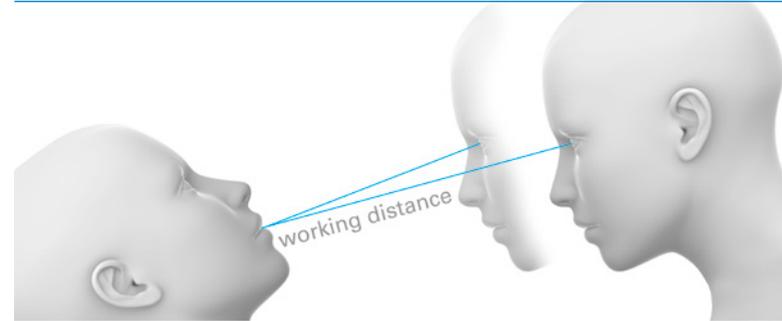
XC-View 2.8

MC-View 2.8

TC-View 2.5

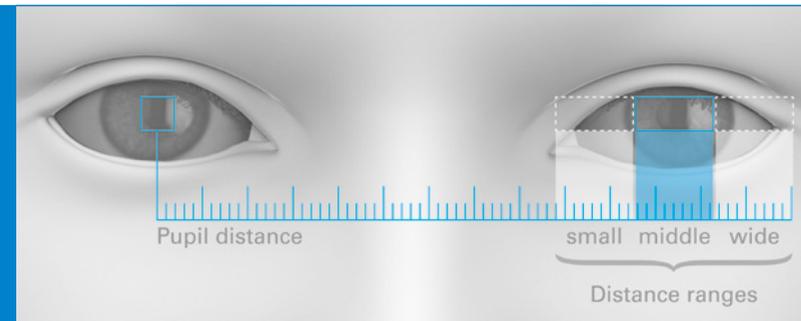
Step 2

Decide which of the **four working distances** best suits your ergonomic preferences when treating patients.



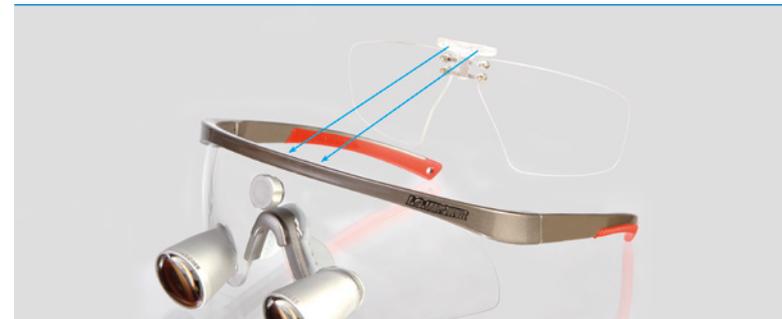
Step 3

Have the distance of your pupils measured. This will provide you with the information needed to select one of the **three distance ranges** that best suits your facial features.



Step 4

As an optional extra, you can add the customised dioptré compensation clip (produced separately for you) to the C loupe eyewear.

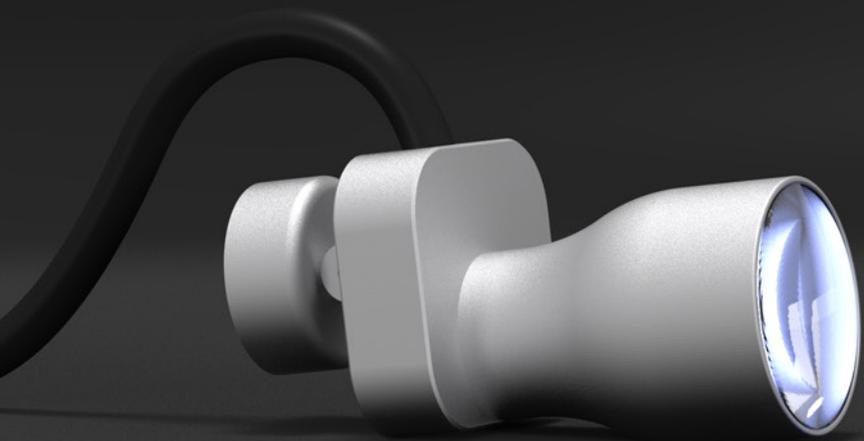


Facts and Figures.

	VISIONX C 3.0	VISIONX C 3.8	XC-VIEW 2.8	MC-VIEW 2.8	TC-VIEW 2.5
<i>Optical parameters</i>					
Magnification	3.0	3.8	2.8	2.8	2.5
Working distance [mm]	360 - 540	360 - 540	360 - 540	360 - 540	360 - 420
Field of view [mm]	100	45	110	90	100
Depth of field [mm]	180	70	200	170	160
Dioptré compensation	With RX-Clip in Frame				
<i>Housing</i>					
Aluminium	•	•	•	•	•
Glas lenses	•	•	•	•	•
Waterproof	•	•	•	•	•
Weight per pair [g]	24	29	43	34	22
<i>Frame combination</i>					
CURVED-FRAME					
TITAN-FRAME					
SPORT-FRAME	•	•	•	•	•

LIGHTING SYSTEMS

*Bring light into
the dark.*



More light. For more details.

Compact, lightweight and ultra-bright.

The **LED-LIGHT CIRCLE** has been specially developed for medical use. It produces an extremely bright light that provides uniform, shadow-free illumination.

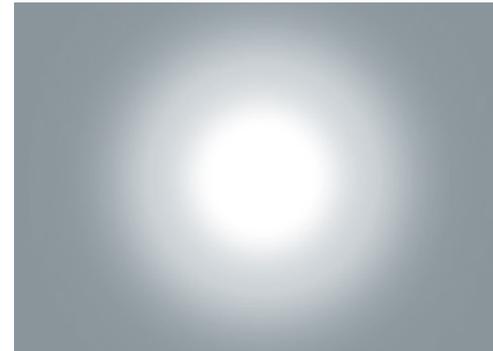
Thanks to its glass lens system, the **LED-LIGHT CIRCLE** guarantees a perfectly illuminated, sharp-edged,

true-colour field of vision without dazzling the patient. The axial connection to the loupe provides a direct link to the field of vision, ensuring that the treatment area is perfectly illuminated in every situation. Even when working in difficult-to-access areas, the **LED-LIGHT CIRCLE** ensures you are never in the dark.

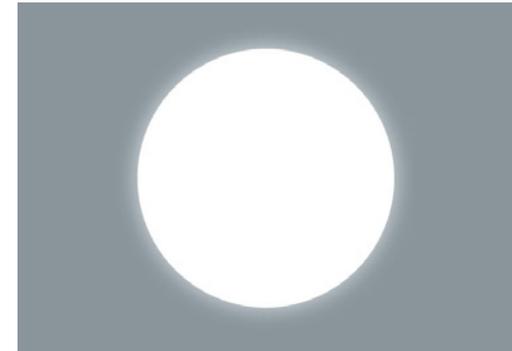
LEDLIGHTCIRCLE

The integrated LED technology combined with the lithium-ion battery (supplied) means it can be used without distracting waveguides. This protects your neck and helps you to work in a more ergonomic way.

And at just 12 grams, the lightweight **LED-LIGHT CIRCLE** is ideal for all kinds of applications, including the operating theatre and treatment room – and even mobile use.



conventional LED-system



LED-LIGHT CIRCLE



Facts and Figures.

General	
Technology	LED
Brightness levels	20.000 / 30.000 / 60.000 LUX
Colour temperature	5700 K (daylight)
Adaptor system	magnetic (available for all types of surgical loupes)
Battery	
Technology	Li-ion, rechargeable
Battery life	7 hours at 60.000 LUX
Housing	
Material	Aluminium
Lens system	Glas
Colours	silver, black
Weight	12 g
Width	20 mm
Height	21 mm
Depth	40 mm

I.C.LERCHER

Designed & Manufactured
in Germany

Im Sägenloh 8
78333 Stockach

Fon +49 (0) 7771 - 914 628-80

info@icl-s.com
www.iclercher-solutions.com

