I SPY WITH MY LITTLE EYE…

OCT advantages at a glance

- High-definition images of the lens and the cornea
- Surgical planning optimized by OCT imaging
- Clear visualization of previous resections
- In p. LASIK flap or transverse flaps and scars
- Increased planning options for thin resections of RE, success and smaller

The proprietary Ziemer OCT-system

The Ziemer OCT-system is designed and manufactured by Ziemer and highly specialised for corneal and lens applications.

- OCT type: Spectral domain
- Wavelength: 880 nanometer
- Scanning depth: 10 micrometer
- Edge recognition: Automata

To have a proprietary OCT system brings many benefits. It is specifically built for the FEMTO LDV Z8. The system is open for innovative solutions and continuous improvements.

VERSATILITY THAT MEETS YOUR DEMANDS

Modular architecture

Adapted to your individual requirements

Z2 Model
Z6 Model
Z8 Model
Z8 Model

Femtolasik
Z
Intracorneal rings (ICR)
Intracorneal pupils (IPP)
Lenticular Keratoplasty (LKP)
Penetrating Keratoplasty (PKP)
Clear Corneal and Astigmatic Incisions (CCI/AIC)

Z2 LASIKCT™

Application: patient interface

Optional software package

«It’s not what you look at that matters, it’s what you see.»

Henry David Thoreau

VERSATILITY THAT MEETS YOUR DEMANDS

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8

IMAGE-GUIDED SURGERY

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8

CORNEA CATARACT

FEMTO LDV Z8

Cataract

FEMTO LDV Z8

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8

OCT applications

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8

OCT applications

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8

OCT applications
FEMTO LDV Z8
OCT applications

OCT APPLICATION: CATARACT

Enhanced planning and customized individual treatments

High-resolution OCT images of the lens and cornea help you to fine-tune the incision geometries before a treatment. Other features of our proprietary OCT System include:

- Automatic edge detection (pupil, iris, cornea, flap, etc.)
- Automated suggestions for the placement of the incision geometries based on the individual surgeon’s preferences
- All trajectories can be controlled by the surgeon after docking

«Look deep into nature, and then you will understand everything better.»
Jonathan Swift

OCT APPLICATION: CORNEA

See what was previously hidden

Our OCT enables enhanced surgical planning and customization after docking.
- Check the preparation via imaging
- Visualization of subtle structures like the epithelium and the Bowman’s membrane
- Previous LASIK flaps and other abnormalities like corneal scars on the cornea and the treatment adjusted accordingly

The OCT scan of the donor tissue allows for enhanced surgical planning and customization.

«Vision is the art of seeing what is invisible to others.»
Jonathan Swift

LIVE TOP VIEW IMAGE

High definition images for tailor-made surgery

The integrated high-definition camera enables better visual control and simplified docking. Benefits include:

- Detailed high quality color image (2416)
- Optimized focus for cornea and eye applications
- Automatic detection of pupil and iridectomy
- Top view images between the different steps of the cataract pre-treatment

The automatic detection of pupil and iridectomy allows individual image processing.

A picture is worth a thousand words.
Poe

The top view image allows visualization of intraoperative events such as droplets.
**FEMTO LDV Z8**

**OCT APPLICATION: CATARACT**

Enhanced planning and customized individual treatments

High resolution OCT images of the lens and cornea help you to fine tune the resection geometries before a treatment.

*Other features of our proprietary OCT system include:*

- **Autoscan edge detection (pupil, limbus, cornea, etc.):**
- **Autoscan prescription for the placement of the resection geometries based on the individual surgeon's preferences:**
- **All trajectories can be customized by the surgeon after docking:**

«Look deep into nature, and then you will understand everything better.»

Albert Einstein

**OCT APPLICATION: CORNEA**

See what was previously hidden

Our OCT enables enhanced surgical planning and customization after docking.

- **Check the explantation via imaging:**
- **Visualization of subtle structures like the epithelium and the Bowman's membrane:**
- **Previous LASIK-flaps and other abnormalities like corneal scarring post LASIK and the treatment adjusted accordingly:**

«Vision is the art of seeing what is invisible to others.»

Jonathan Swift

**LIVE TOP VIEW IMAGE**

**A picture is worth a thousand words.**

Mark Twain

High resolution images for tailor-made surgery

The integrated high definition camera enables better visual control and simplified docking. Benefits include:

- **Detailed high quality color images (2416x):**
- **Optimised orbit for corneal and cataract applications:**
- **Automatic detection of pupil and iridium:**
- **Live top view image between the different steps of the cataract pre treatment:**

The automatic detection of pupil and iridium enables docking against eye markings.
OCT APPLICATION: CATARACT
Enhanced planning and customized individual treatments
High resolution OCT images of the lens and cornea help you to fine tune the incision geometries before a treatment. Other features of our proprietary OCT System include:

• Automated edge detection (pupil, limbus, cornea, iris, etc.)
• Automated suggestion for the placement of the incision geometries based on the individual surgeon’s preferences
• All trajectories can be customized by the surgeon after docking

«Look deep into nature, and then you will understand everything better.»
Albert Einstein

OCT APPLICATION: CORnea
See what was previously hidden
Our OCT enables enhanced surgical planning and customization after docking.

• Check the exploration via imaging
• Visualization of sub-structures like the epithelium and the Bowman’s membrane
• Previous LASIK-flaps and other abnormalities like corneal scarring can be seen and the treatment adjusted accordingly

High definition images for tailor-made surgery
The integrated high definition camera enables better visual control and simplified docking. Benefits include:

• Detailed high quality color images (24bit)
• Optimized image for cornea and eye applications
• Automatic detection of pupil and iridium
• Live top view image between the different steps of the cataract pre-treatment

LIVE TOP VIEW IMAGE
A picture is worth a thousand words.

High definition images for tailor-made surgery
The integrated high definition camera enables better visual control and simplified docking. Benefits include:

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• Live top view image between the different steps of the cataract pre-treatment

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Jonathan Swift
I SPY WITH MY LITTLE EYE…

OCT advantages at a glance

- High definition images of the lenses and the cornea
- Surgical planning assisted by OCT imaging
- Clear visualization of previous resections (e.g., LASIK flap) or anatomical and tear film
- Increased planning options for film reductions of flaps, access, and smaller patients

The proprietary Ziemer OCT-system

The Ziemer OCT system is designed and manufactured by Ziemer and highly specialized for corneal and lens applications.

- OCT type: Spectral domain
- Wavelength: 880 nanometer
- Scanning depth: 10 micrometer
- Edge recognition: Automatic

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VERSATILITY THAT MEETS YOUR DEMANDS

Modular architecture
Adapted to your individual requirements

<table>
<thead>
<tr>
<th>Modular architecture</th>
<th>ZZ Model</th>
<th>Z8 Model</th>
<th>Z6 Model</th>
<th>Z8 Model</th>
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<tbody>
<tr>
<td>Z-LASIK</td>
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<td>Clear Corneal and Anterior Injuries (CIC-API)</td>
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For the OCT advantages at a glance, please contact your nearest Ziemer affiliate company for more information.

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8

IMAGE-GUIDED SURGERY

Find us on YouTube: www.youtube.com/femtoldv

www.femtoldv.com
www.ziemergroup.com
I SPY WITH MY LITTLE EYE…

OCT advantages at a glance

- High-definition images of the lens and the cornea
- Surgical planning assisted by OCT imaging
- Clear visualization of precise retinal points
- In-motion imaging for lamellar keratoplasty and keratoconus
- Increased planning options for film removations of thick corneas and birefringence

**VERSATILITY THAT MEETS YOUR DEMANDS**

**Modular architecture**

<table>
<thead>
<tr>
<th>Z2 Model</th>
<th>Z6 Model</th>
<th>Z4 Model</th>
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<tr>
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</tbody>
</table>

Adapted to your individual requirements

- ZLASE®
- Z-LASE®
- Intracorneal Flaps (ICF)
- Intrastromal Flap (ISF)
- Lamellar Keratoplasty (LKP)
- Penetrating Keratoplasty (PKP)
- Clear Cornea and Anystrum Incisions (CEA/WEC)
- Z CATAMARAN™

Application: patient interface

- Standard software package
- Optional software package

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Henry David Thoreau

The proprietary Ziemer OCT-system

The Ziemer OCT system is designed and manufactured by Ziemer and highly specialized for corneal and lens applications.

- OCT type: Spectral domain
- Wavefront: 680nanometer
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- Edge recognition: Automatic

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**FEMTO LDV Z8**

**IMAGE-GUIDED SURGERY**

**ENHANCE YOUR SURGICAL PLANNING**