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 previous incisions
- Z-LASIK flap or transplanted flap and a new incision
- Increased planning options for thin sections of flaps and smaller

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 nanometers
- Scanning depth: 12 micrometers
- Edge recognition: Automatic

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.

VERSEITY THAT MEETS YOUR DEMANDS

FEMTO LDV Z8

IMAGE-GUIDED SURGERY

ENHANCE YOUR SURGICAL PLANNING

VERSEITY THAT MEETS YOUR DEMANDS

Modular architecture

<table>
<thead>
<tr>
<th>ZL Model</th>
<th>Z6 Model</th>
<th>Z8 Model</th>
<th>Z9 Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
</tr>
</tbody>
</table>

FEMTO LDV Z8

IMAGE-GUIDED SURGERY

ENHANCE YOUR SURGICAL PLANNING

VERSEITY THAT MEETS YOUR DEMANDS

Modular architecture

<table>
<thead>
<tr>
<th>ZL Model</th>
<th>Z6 Model</th>
<th>Z8 Model</th>
<th>Z9 Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
</tr>
</tbody>
</table>

FEMTO LDV Z8

IMAGE-GUIDED SURGERY

ENHANCE YOUR SURGICAL PLANNING

VERSEITY THAT MEETS YOUR DEMANDS

Modular architecture

<table>
<thead>
<tr>
<th>ZL Model</th>
<th>Z6 Model</th>
<th>Z8 Model</th>
<th>Z9 Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
</tr>
</tbody>
</table>

FEMTO LDV Z8

IMAGE-GUIDED SURGERY

ENHANCE YOUR SURGICAL PLANNING

VERSEITY THAT MEETS YOUR DEMANDS

Modular architecture

<table>
<thead>
<tr>
<th>ZL Model</th>
<th>Z6 Model</th>
<th>Z8 Model</th>
<th>Z9 Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
<td>Adaptable to your individual requirements</td>
</tr>
</tbody>
</table>
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, limbus, cornea, iris, etc.)
- Automated suggestions 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 of the docking:

- Dock the preparation via imaging
- Visualization of subtle structures like the epithelium and the Bowman's membrane
- Previous LSAK-flaps and other abnormalities like corneal scars can be seen in the treatment plan
- Customization... -System

Visualization of Bowman's membrane by Live Top View OCT

The OCT can be used for customized planning and resection of the cornea...

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

LIVE TOP VIEW IMAGE

A picture is worth a thousand words.

Fovea

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 (2160p)
- Optimized focus for cornea and lens applications
- Automatic detection of pupil and limbus
- Live top view image between the different steps of the cataract pre-treatment

The automatic detection of pupil and limbus... -System

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

Jonathan Swift

The top view image allows visualization of intraoperative events such as miosis.
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:
  - Automated edge detection (pupil, limbus, cornea, iris, etc.)
  - Automated suggestions for the placement of the resection geometries based on the individual surgeon's preferences
  - All trajectories can be customized by the surgeons after docking

See what was previously hidden

Our OCT enables enhanced surgical planning and customization of pre-treatment

- Check the separation via imaging
- Visualization of subtle structures like the epithelium and the Bowman’s membrane
- Previous LASIK-flaps and other abnormalities like corneal scars can be seen and the treatment adjusted accordingly

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:
  - Detailed high quality color images (2416x)
  - Option optimized for cornea and laser applications
  - Automatic detection of pupil and limbus
  - Live top view image between the different steps of the cataract pre-treatment

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

Albert Einstein

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

Jonathan Swift

«Look deep into nature, and then you will understand everything better.»
Albert Einstein
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 insertion geometries before a treatment. Other features of our proprietary OCT System include:
• Automated edge detection (pupil, limbus, cornea, 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 extended surgical planning and customization after docking:
• Check the explanation via imaging
• Visualization of subtle structures like the epithelium and the Bowman’s membrane
• Previous LASIK-flaps and other abnormalities like corneal scars can be seen and the treatment can be 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 (2414x)
• Options optimized for corneal and lens applications
• Automatic detection of pupil and iridens
• Live top view image between the different steps of the cataract pre-treatment

LIVE TOP VIEW IMAGE

A picture is worth a thousand words. —Pope

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 (2414x)
• Options optimized for corneal and lens applications
• Automatic detection of pupil and iridens
• Live top view image between the different steps of the cataract pre-treatment

Jonathan Swift

The schematic description of pupil and iris show crucial role in cataract surgery

The schematic description of pupil and iris show crucial role in cataract surgery

The schematic description of pupil and iris show crucial role in cataract surgery
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 previous resections
- Intraocular flaps (ICR)
- Intraocular flaps (LKP)
- Lamellar Keratoplasty (LKP)
- Penetrating Keratoplasty (PKP)
- Clear Corneal and Anterior Incisions (CCI, ARC)
- Z CATARACT™

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

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.

"It's not what you look at that matters, it's what you see."  
Henry David Thoreau

VERSATILITY THAT MEETS YOUR DEMANDS

Modular architecture

Adapted to your individual requirements:

<table>
<thead>
<tr>
<th>ZL200</th>
<th>ZL800</th>
<th>ZH Model</th>
<th>Z6 Model</th>
<th>Z8 Model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ZL200:
- Intraocular flaps (ICR)
- Intraocular flaps (LKP)
- Lamellar Keratoplasty (LKP)
- Penetrating Keratoplasty (PKP)
- Clear Corneal and Anterior Incisions (CCI, ARC)

Z CATARACT™:
- Standard software package
- Optional software package

FEMTO LDV Z8
IMAGE-GUIDED SURGERY

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8 OCT applications
FEMTO LDV Z8
OCT applications

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 previous resections
- e.g. LASIK flaps or keratectomized and scarred
- Increased planning options for thin resections of 80 microns and smaller

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

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.

“It’s not what you look at that matters, it’s what you see.”
Henry David Thoreau

VERSATILITY THAT MEETS YOUR DEMANDS

Modular architecture

Adapted to your individual requirements

<table>
<thead>
<tr>
<th>ZZ Model</th>
<th>Z8 Model</th>
<th>Z6 Model</th>
<th>Z4 Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

- Z-LASIK
- Intracameral Flaps (IFE)
- Intracameral Pulsed (ISP)
- Lamellar Keratoplasty (LKP)
- Penetrating Keratoplasty (PKP)
- Clear Corneal and Anterior Incisions (CCI-ARC)
- Z-LASIK*•

Applications patient interface

- Evis-ITM
- Heavy patient interface

* Coregistration, segmentation and use real images

ENHANCE YOUR SURGICAL PLANNING

FEMTO LDV Z8
IMAGE-GUIDED SURGERY

Find us on YouTube
www.youtube.com/ziemer

FEMTO_LDV_Z8_Surgical_Surgery_Brochure.indd 1-3
7/25/16 11:45:11