

EXCITINGLY CLEVER



FEMTO LDV™ CrystalLine

ADVANCED TO THE MAXIMUM

The new FEMTO LDV for Z-LASIK
and Corneal Surgery



STRIVE FOR PERFECTION

The technology leader – improved again

Ziemer's FEMTO LDV has set a new standard in the refractive market. With its radically new concept it has become the technology leader among all femtosecond lasers.

You have known the FEMTO LDV for its outstanding, unique technical features:

- All solid-state, non-amplified laser
- Very low pulse energy (nano-Joules)
- Robust and very stable
- Compact and mobile
- Hand-held laser delivery system

We have now optimized and fine-tuned every electronic, optical, and mechanical component to the maximum. The perfection of a unique system has now been exceeded:

FEMTO LDV™
CrystalLine 

New additional features

- Fastest femtosecond laser: pulse rate > 5 MHz
- Spot volume < $2 \times 2 \times 2 \mu\text{m}$
- Wavefront optimized high numerical aperture optics
- Integrated TopView real-time color camera
- New in-plane circular rim cut



"The FEMTO LDV is clearly the industry leader. With the new Crystal Line, Ziemer is setting the standard even higher."

Theo Seiler, MD, PhD, Zurich, Switzerland

STAY MILES AHEAD OF OTHER LASIK PROVIDERS

For the premium refractive patient

Since its introduction, over one half million Z-LASIK procedures have been performed with the FEMTO LDV. The smoothness of the flaps, the precision of the thickness and the outstanding clinical results speak for themselves:

- No OBL, no TLS, no DLK
- No thermal effects
- No trauma
- No edema: predictable ablation

Now, with Z-LASIK Crystal Plus, leading refractive surgeons can offer their patients a premium procedure with an even superior visual outcome.

In combination with the Crystal-tuned components, a new resection pattern with in-plane circular rim cut allows for a smoother, self-sealing flap border. This avoids epithelium ingrowth and facilitates flap lifting.

With the new Z-LASIK Crystal Plus an even faster visual recovery is now possible: 20/20 and better is routinely achieved within hours after surgery.



Crystal Tuned handpiece: new with an integrated real-time camera and wavefront-optimized optics.

Z LASIK™
CrystalPlus 



Setting the trajectory parameters with the newest software is easier than ever. The hinge position can be set at any angle, and the new in-plane circular rim cut creates a smoother, easier to lift and self-sealing flap border.

SPECIFICATIONS

FEMTO LDV Crystal Line

Pulse Repetition Rate	> 5 MHz
Pulse Energy	Nano-Joules
Spot Volume	$< 2 \times 2 \times 2 \mu\text{m}$
Optics	Wavefront-optimized

Z-LASIK Crystal Plus

Overall procedure time (both eyes, including excimer ablation)	< 6 minutes
Hinge Position	Possible at any angle
Border Cut	In-plane circular rim cut
Flap thickness	$\pm 5 \mu\text{m}$ (SD)

For complete system specifications,
please refer to www.ziemergroup.com



Ziemer Ophthalmic Systems AG

a Ziemer Group Company
Allmendstrasse 11
CH-2562 Port, Switzerland

www.ziemergroup.com

Ziemer Ophthalmic Systems is a privately owned, Switzerland-based med-tech company, whose activities are focused exclusively on ophthalmology.

At Ziemer we strive to empower ophthalmologists and optometrists to deliver better vision care to their patients by creating superior surgical and diagnostic tools.

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Actual product characteristics, specifications, and prices are subject to change.
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