

# PERFECTION DESIGNED AHEAD



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EYE SURGERY ESSENTIALS.

## THE FEMTO Z8 NEO

The outstanding multipurpose laser platform  
for Refractive, Therapeutic and Cataract surgery

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**Z8** NEO

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# The FEMTO Z8 NEO

## Perfection Designed Ahead

The new multipurpose laser platform FEMTO Z8 NEO represents another standard of innovation and quality. It is the result of visionary designed solutions and performance driven engineering at Ziemer Ophthalmology. Together with the intuitive new software and additional applications, the innovative FEMTO Z8 NEO results in an outstanding multipurpose laser platform for highly precise and exceptional ophthalmic treatments.

### **SMALL**

Enhanced mobility for your workflow. The unique laser architecture integrates seamlessly into your workflow. Mobile and maneuverable – the answer for multi-site use.

### **SMART**

Increased flexibility on demand. The FEMTO Z8 NEO is the perfect platform to perform a variety of ophthalmic treatments: Refractive, Therapeutic or Cataract procedures as needed.

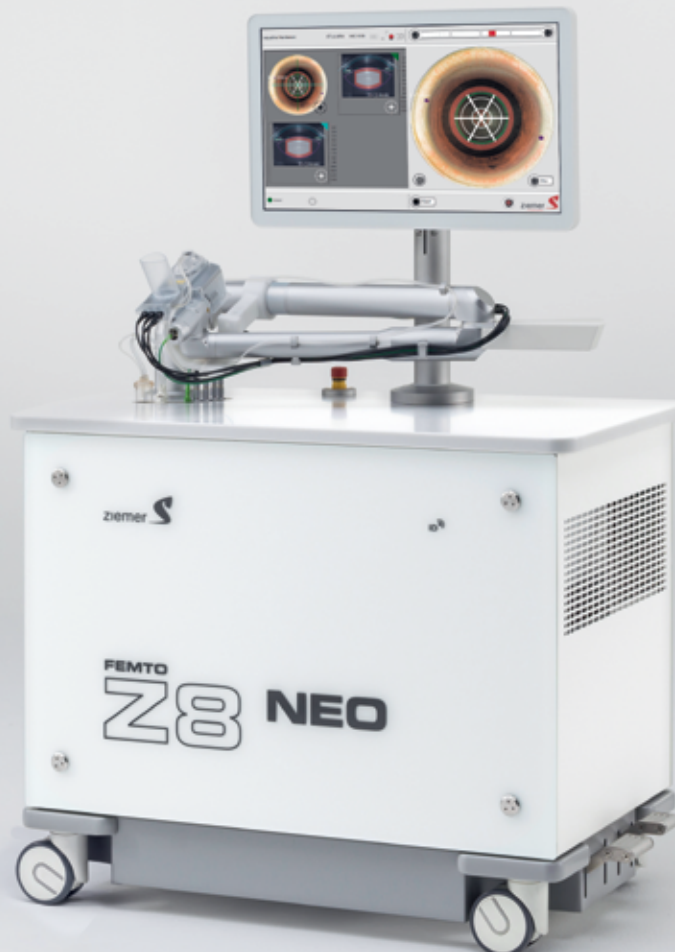
### **SWISS**

Improved precision focused on the essentials: brilliant performance, perfect monitoring, excellent usability and gentle eye surgery. Made in Switzerland.

# SMALL

## Enhanced mobility for your workflow

Mobile and maneuverable. The FEMTO Z8 NEO's unique architecture and the highly flexible and intuitive articulated arm enables seamless integration into your surgical workflow. True mobility for a multi-site use.





## Truly mobile

The FEMTO Z8 NEO has wheels, which makes it portable and it can be moved easily. The laser is brought to the surgery and not vice versa. Roll the laser in the OR when you need it, roll it out to another OR or even another office as needed.



## Easy handling

The laser can be shut down and stored away when not in use. The handle design makes moving the laser even easier. The calibration is done automatically with every start-up so it only needs to be switched on when it is needed.



## Patient safety and comfort

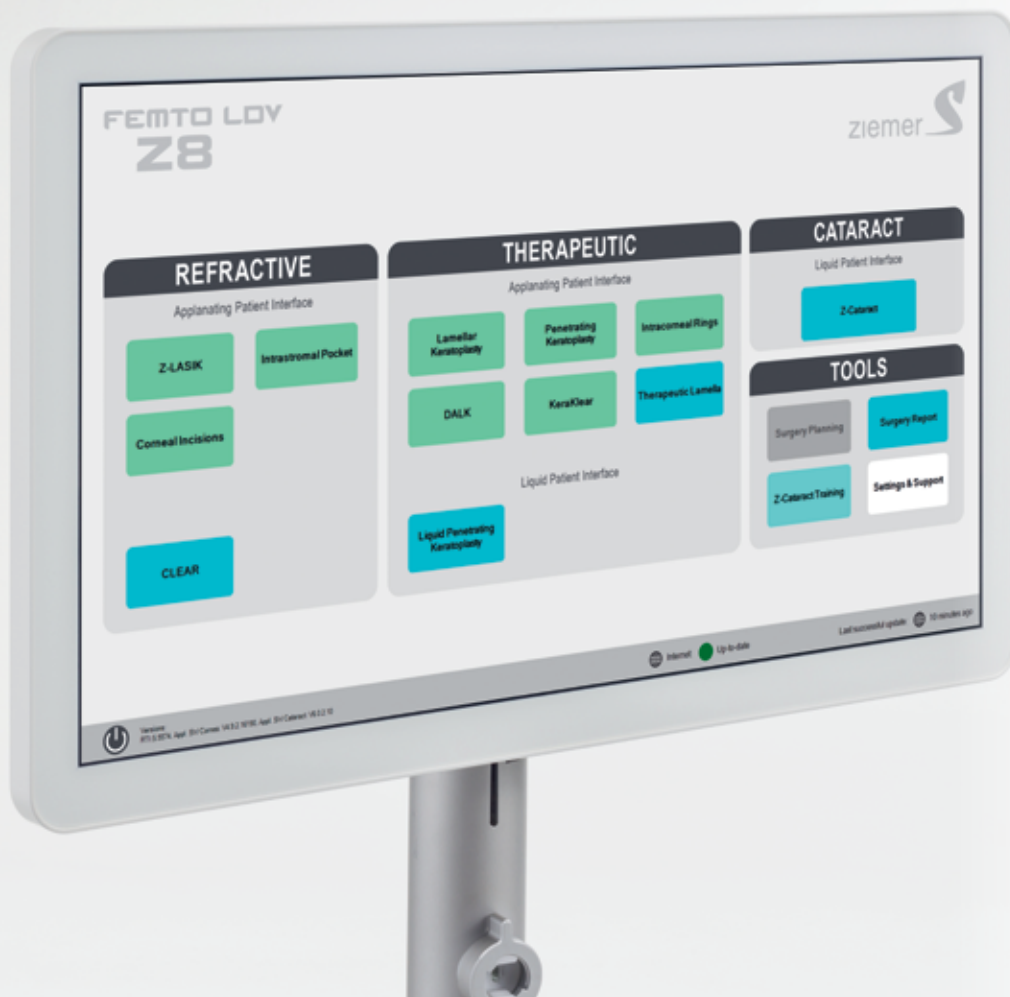
The FEMTO Z8 NEO ensures the highest degree of safety and comfort for both the surgeon and the patient. No patient transfer needed. The laser moves to the patient streamlining the process and saving OR time<sup>1</sup>.



# SMART

## Increased flexibility on demand

The FEMTO Z8 NEO is a truly flexible, multipurpose laser platform. With its exquisite components, the optimized software and the finest ophthalmic applications, it represents the perfect partner for Refractive, Therapeutic and Cataract surgery.



## Perfect fit to the eye

The SLIM handpiece and SLIM patient interface conforms to the majority of the eyes and provides an excellent docking experience. The FEMTO Z8 NEO is also the perfect partner for pediatric Cataract surgery<sup>2</sup>.



## Flexibility on demand

The FEMTO Z8 NEO is capable of performing Refractive, Therapeutic and Cataract surgeries. The new software helps to plan and organize your treatments for an efficient workflow. It offers multiple applications that can be customized for your surgical needs and it grows as your practice and technology advances.



## Improved performance

LASIK: Refined energy settings and optimized side cut parameters integrated in the new FEMTO Z8 NEO results in flaps with a better side cut quality. Cataract: the enhanced trajectory provides a significantly faster cutting time and improved lens fragmentation efficiency.



# SWISS

## Improved precision entirely Swiss made

Precision focused on the essentials: brilliant performance, perfect monitoring and an excellent usability. The FEMTO Z8 NEO uses low energy pulses in the nanojoule range and a high pulse repetition rate. This results in extremely high precision and enables gentle eye surgery. Made in Switzerland.





## Low Energy Concept

The Ziemer handpiece is exclusively designed to have a very short working distance to the eye. This results in a high focusing power with very little energy per pulse needed. Small overlapping spots create a smooth<sup>3</sup> resection – only possible with the Ziemer Low Energy Concept.



## Ultra-precise laser delivery system

Equipped with unique high-quality optics, the FEMTO Z8 NEO offers the exceptional precision you would expect from a Swiss laser. The new Laser Monitoring System allows the laser to work efficiently in different operating room environments on the same day.



## Increased surgical planning (OCT)

The FEMTO Z8 NEO model offers a faster intraoperative OCT (Optical Coherence Tomography) scan. Enhanced eye structure detection (iris, lens, cornea) yield a faster OCT scan and in general a quicker processing time. The workflow is more efficient, the user saves time and the patient experience is less stressful.



# Benefits at a glance

Perfect technology brought together in one outstanding multipurpose laser platform



## Improved performance

LASIK flaps with a better side cut quality – Cataract surgery with a faster lens fragmentation

## Perfect fit

SLIM Handpiece – conforms to the majority of eyes and provides an excellent docking experience

## Increased efficiency

Improved intra-operative OCT and TopView Imaging

## Enhanced reliability

with the new Laser Monitoring System

## Easy navigation

provided by the new software interface

## New applications

CLEAR, DALK 2.0, Therapeutic Lamella

# Ready for the future

## One complete refractive suite

In the future, the FEMTO Z8 NEO laser can be integrated with our diagnostic device GALILEI and our upcoming ablation laser AQUARIUZ to create a refractive suite that provides all needs of Refractive, Corneal and Cataract surgeons – one complete, complementary leading-edge refractive platform that will take your practice to the next level.



**We strive to empower Ophthalmologists to deliver better vision care to their patients by providing superior surgical and diagnostic tools.**

## Why Ziemer?

- Trusted – More than 1200 systems installed worldwide
- High-tech lasers and diagnostics made in Switzerland
- A family-owned company with personal service
- Cutting-edge innovation in Ophthalmology

### References:

- <sup>1</sup> Pajic B, Vastardis I, Gatzioufas Z, Pajic-Eggspuehler B. First experience with the new high-frequency femtosecond laser system (LDV Z8) for cataract surgery. *Clin Ophthalmol*. 2014; 8: 2485-2489
- <sup>2</sup> Tereshchenko AV, Trifanenkova IG, Vladimirovich VM. Femtosecond laser-assisted anterior and posterior capsulotomies in children with persistent hyperplastic primary vitreous. *J Cataract Refract Surg*. 2020 Apr;46(4):497-502.
- <sup>3</sup> Riau AK, Liu YC, Lwin NC, Ang HP, Tan NY, Yam GH, Tan DT, Mehta JS. Comparative study of nJ- and  $\mu$ J-energy level femtosecond lasers: evaluation of flap adhesion strength, stromal bed quality, and tissue responses. *Invest Ophthalmol Vis Sci*. 2014 Apr 24;55(5):3186-94. doi: 10.1167/iops.14-14434. PMID: 24764066.

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