

MEL 80 excimer laser

High performance meets versatility



We make it visible.



Just what your clinic is looking for

Invest in the latest refractive excimer technology

The MEL[®] 80 is a top quality ZEISS product designed to make the correction of vision defects more patient-friendly and individual while providing optimized ablation profiles for quality outcomes. All of the parameters of this modern work platform are oriented towards increasing efficiency, achieving optimum treatment results and rapid recovery of vision. Key features include a high ablation rate and a high-performance eye tracker system.

The best outlook for you and your patients

Added to this are tangible benefits for your daily work such as the overall ergonomic design concept and the economical operation of the system. Reap the advantages of an investment which is forward-looking, practical and profitable.

Excimer excellence starts with ZEISS

Since 1846, the name ZEISS has stood for quality and precision in optics. In 1986, ZEISS unveiled the first excimer laser for refractive correction of the eye. Over the last 25 years the company has been at the forefront of advances in laser vision correction.

Streamlined procedures

And enhanced patient comfort





It couldn't be simpler to operate

At ZEISS, we strive to make advanced technology applications as simple and ergonomic as possible for our customers. With the MEL® 80, you can take advantage of standardized treatment procedures for optimum results.

The MEL 80 software has been specially developed for this robust and flexible workstation. The graphic user interface is clearly structured and takes you stepby-step through the treatment. A large number of other helpful features facilitate and support your work with the MEL 80: the ergonomically designed workstation, the individually positionable monitor and the integrated video camera.

Everything's under control!

An active 1 kHz eye tracker with excellent feedback times and an ultra rapid IR camera provides exact positioning during the laser treatment. Thanks to automatic pupil recognition, you can adjust the desired centering point within seconds. This also includes the limbus. If the center of the pupil shifts with relation to the limbus during ablation – through asymmetrical contraction, for instance – the eye tracker compensates for this. In addition, no pupil-dilating medication and related waiting times are necessary prior to this treatment.

The faster the treatment, the lower the stress

The MEL 80 can significantly reduce the treatment duration for patients. This has the following benefits:

- The stromal bed is only open for a short period, thereby minimizing dehydration and shortening the regeneration process.
- The thermally optimized distribution of the laser firing pattern achieves an ideal balance between ablation speed, tissue heating and pulse energy.
- Patients only need to concentrate on the fixation light for a few seconds.
- Practices benefit from increased efficiency and patient throughput.
- Cone of controlled atmosphere (CCA+) plume removal system ensures consistent atmospheric conditions during treatment.



CCA+ plume removal system



MEL 80

The excimer laser with a broad performance scope



... for patients

Flying spot laser where the eye tracker's response time is shorter than the time between two consecutive laser pulses

Comfortable treatment, rapid vision recovery

... for eye care specialists

Correction of myopia and hyperopia

Can be combined with VisuMax[®] femtosecond system

... for workflow

Short start-up time

Swivel-type patient supporting system

... for ease of use

Simple fluence test

Intuitive software

Ergonomically designed workstation

No need for flushing gas systems and extra helium gas cylinders

Technical data

Laser data	
Туре	ArF excimer
Wavelength	193 nm
Frequency	250 Hz
Aiming beam diode	650 nm (las
Device data	
Weight of MEL 80	290 kg incl.
Weight of patient supporting system	232 kg
Dimensions (Laser, W x D x H)	800 x 1550
Dimensions including patient supporting system (W x D x H)	1800 x 314
Power supply	100 V AC; 5 120 V AC; 5 208, 220, 2
Approval	CE mark as
Gas supply	Integrated A
Equipment	
Surgical microscope	OPMI [®] pico

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Surgical microscope	OPMI [®] pic
Active eye tracker	Infrared, p
CCA+ (plume removal system)	Integrated

Spot scanning parameters

Beam dimensions



r laser (laser class IV in accordance with 21 CFR 1040.10)

ser class 1 according IEC 60825-1)

. gas cylinder

x 1490 mm

0 x 1490 mm

50/60 Hz; 17.5 A 50/60 Hz; 14.6 A 230, 240 V AC; 50/60 Hz; 7.9 A

per Medical Device Directive 93/42/EEC

ArF-Premix cylinder 10 l

with integrated video camera

pupil and limbus tracking, 1050 frames per second (fps) d in device

0.7 mm FWHM (Full width at half maximum), Gaussian beam profile

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Perfect workflow

With a smart swing

Efficient and individual at the same time! With the MEL® 80 excimer laser and VisuMax[®] femtosecond system, ZEISS has assembled a seamlessly coordinated systems solution for refractive laser surgery. For everything from precise flap creation to highly accurate refractive corrections, these two top-of-the-line products are designed to ensure convenient workflow, streamlined patient management and excellent treatment results.

Equipped to outperform

Through the combined use of the pivoting patient supporting system between the VisuMax femtosecond system and the MEL 80 excimer laser the patient experiences the surgery as an integrated process. Unnecessary waiting periods are eliminated and treatment efficiency increased.





Systems that communicate with each other

For efficient practice management you benefit from optimally coordinated product portfolio: the MEL 80 excimer laser and VisuMax femtosecond system. We thus offer an integrated solution from a single source – a solution with the potential to subsequently expand your networking capabilities with continuously enhanced data flow efficiency and individualized patient treatments.

VisuMax Precision in all facets

The VisuMax femtosecond system allows creation of very accurate and smooth flaps in preparation of Femto-LASIK procedures. With its highly advanced laser technology and innovative optical design, the VisuMax supports maximum cutting precision, efficiency, predictability and patient comfort. Together with the MEL 80, it forms a well-matched duo for a whole range of customized laser treatments.



Contact glass



VisuMax

VisuMax and MEL 80 combination

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