



MEL 80

High performance meets versatility



Just what your clinic is looking for



Investing in refractive excimer technology

The MEL[®] 80 from ZEISS is designed to make the correction of vision disorders more patient-friendly and individual while providing optimized ablation profiles for quality outcomes. All of the parameters of this platform are oriented towards increasing efficiency, achieving optimum treatment results and rapid recovery of vision. Key features include a fast 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 and the economical operation of the system. Reap the advantages of an investment that is forward-looking, practical and profitable.

Excimer excellence starts with ZEISS

Since 1846, 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 years, ZEISS has been at the forefront of advances in laser vision correction.

Streamlined procedures

And enhanced patient comfort



Simple, user-friendly operation

At ZEISS, we strive to make advanced technology applications as simple and ergonomic as possible. The standardized treatment procedures of the MEL 80 facilitate confident operation for optimum results with specially developed software for its robust and flexible workstation and a clearly structured graphical user interface providing step-by-step guidance throughout the treatment.

Other helpful features of the MEL 80 that are designed to enhance and enable optimal performance include the ergonomically designed workstation, the individually positionable monitor and the integrated video camera.

1 kHz Eye Tracker Control

The MEL 80 offers an active 1 kHz eye tracker with excellent feedback speeds and an ultra-rapid infrared camera for exact positioning during the laser treatment, and with automatic pupil recognition that includes the limbus, you can adjust the desired centering point within seconds. If the center of the pupil shifts with relation to the limbus during ablation – through asymmetrical contraction, for instance – the eye tracker compensates accordingly.

Faster treatment, greater benefits

The MEL 80 can significantly reduce treatment duration, offering the following benefits to you, your patients and your practice:

- The stromal bed is open for only a short period, thereby minimizing dehydration, which can impact the refractive correction
- The thermally optimized distribution of the laser firing pattern maintains balance between ablation speed, tissue heating and pulse energy
- Patients need to concentrate on the fixation light for only 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



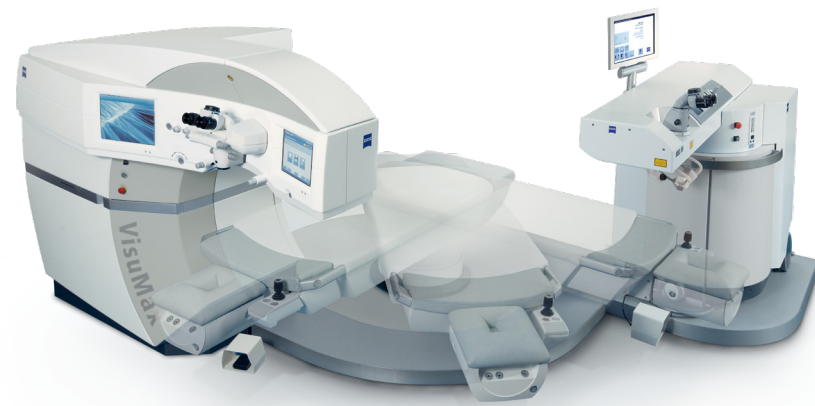
Ergonomically designed workstation



CCA+ plume removal system

Perfect workflow

System integration



VisuMax and MEL 80 combination

Efficient and individual at the same time! With the MEL 80 excimer laser and VisuMax[®] femtosecond system, ZEISS has assembled a seamlessly coordinated system 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 best treatment results.

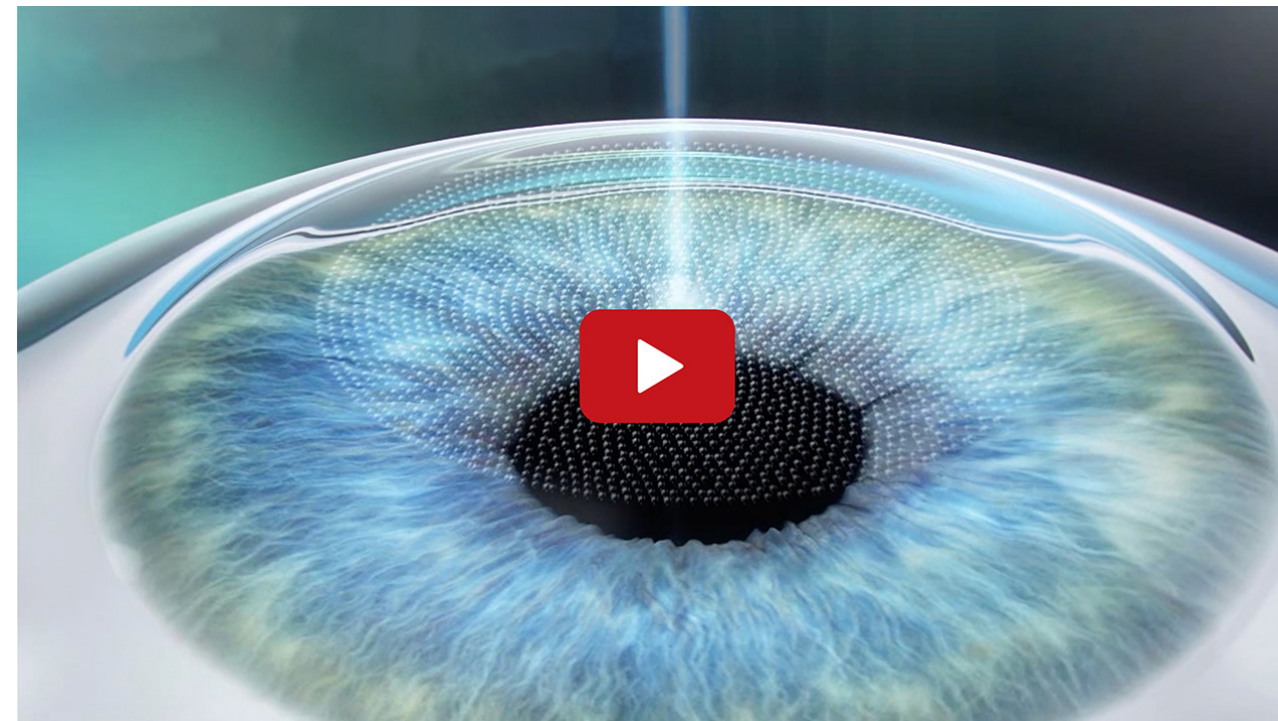
Equipped to out perform

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, the MEL 80 excimer laser and the VisuMax femtosecond system 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.

Watch the video



Benefits

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

Seamless data transfer to VisuMax

Short start-up time

Swivel-type patient supporting system

... for ease-of-use

Simple fluence test

Intuitive software

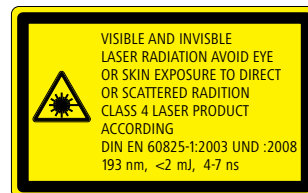
Ergonomically designed workstation

No need for flushing gas systems and extra helium gas cylinders

Technical data

Installation and operating instructions

Laser data	
Type	ArF excimer laser
Wavelength	193 nm
Frequency	250 Hz
Aiming beam diode	650 nm (laser class 1 according IEC 60825-1)
Device data	
Weight of MEL 80	290 kg incl. gas cylinder
Weight of patient supporting system	232 kg
Dimensions (Laser, W x D x H)	800 x 1550 x 1490 mm
Dimensions including patient supporting system (W x D x H)	1800 x 3140 x 1490 mm
Power supply	100 V AC; 50/60 Hz; 17.5 A 120 V AC; 50/60 Hz; 14.6 A 208, 220, 230, 240 V AC; 50/60 Hz; 7.9 A
Approval	CE mark as per Medical Device Directive 93/42/EEC
Gas supply	Integrated ArF-Premix cylinder 10 l
Equipment	
Surgical microscope	OPMI® pico with integrated video camera
Active eye tracker	Infrared, pupil and limbus tracking, 1050 frames per second (fps)
CCA+ (plume removal system)	Integrated in device
Spot scanning parameters	
Beam dimensions	0.7 mm FWHM (Full width at half maximum), Gaussian beam profile



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