



Seeing beyond

ZEISS VisuMax

Ideal platform for femtosecond laser solutions



Highly accurate outcomes thanks to reliable cutting precision



Experience driven

As a ground-breaking, high-performance femtosecond laser system, the VisuMax® from ZEISS is shaping the world of refractive surgery. With its cutting precision and gentle treatment approach, as demonstrated in multiple published studies, it is the ideal platform for cutting-edge corneal surgery applications.

With its perfectly coordinated components, it was designed for precise cutting capabilities as well as proven efficacy, predictability, and comfort. Renowned ZEISS optics and convenient workflow features have made the ZEISS VisuMax a favored tool for a wide variety of treatment applications for the cornea.

It is the ideal platform for therapeutic and refractive laser applications, and the first femtosecond laser system to perform the minimally invasive Lenticule Extraction procedure with SMILE® from ZEISS.



Extensive range of femtosecond laser applications

Lenticule Extraction

With SMILE® from ZEISS, a refractive lenticule as well as the incision through which it is extracted are created in a single step – without ablation or flap. Despite its proven predictability, a retreatment may be necessary in rare cases, which can be extended to a flap with the CIRCLE option from ZEISS.

Flap

The VisuMax creates flaps of a highly predictable thickness and of adjustable geometries for Femto-LASIK and options based on it, such as PRESBYOND® Laser Blended Vision from ZEISS.

Keratoplasty

With the Keratoplasty option, the VisuMax covers several corneal transplant procedures, including lamellar and penetrating keratoplasty. High-precision cutting quality and rapid incision speed enable the efficient preparation of precise corneal grafts and recipient corneas.

Incision for ICR

The femtosecond laser technology of the VisuMax is also ideally suited for creating incisions in preparation of intracorneal ring (ICR) implantations. When defining tunnel parameters, it even performs inclined cutting geometries and ring tunnel segments smaller than 360° with a high degree of flexibility.

Technical Data

VisuMax from ZEISS

System components	Patient supporting system, including platform	
	Integrated uninterruptible power supply (UPS)	
	Surgical microscope with additional slit illumination	
	Video camera with integrated digital recording	
Laser parameters	Wavelength	1043 nm
	Pulse duration	220-580 fs
	Laser pulse rate	500 kHz

Installation and set-up conditions

Weight	870 kg (including patient supporting system, platform, UPS)
Footprint standalone	L x W: 3.80 m x 4.40 m
Footprint MEL® 90 with VisuMax® 90°	L x W: 3.92 m x 3.94 m
Footprint MEL 90 with VisuMax 180°	L x W: 4.50 m x 3.79 m
Electrical connection	100-240 V, 50/60 Hz, max. 16 A Separately fused circuit

Operating conditions

Room temperature	+18 °C to +25 °C
Atmospheric humidity	30 % to 70 %
Accessories	Single-use contact glasses Treatment Pack (sizes S/M/L and type KP) Keratoplasty adapter for patient supporting system



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VisuMax



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