

ZEISS VISUMAX 600

Increased laser frequency and
faster cutting speeds



Seeing beyond

The femtosecond laser VISUMAX® 600 from ZEISS has been designed to deliver state-of-the-art performance, that combines efficiency, ergonomics and increased laser frequency. It offers cutting precision for corneal surgery applications, including flaps, lenticule extractions with SMILE® pro, tunnel incisions for ICR, and Keratoplasty option for corneal transplants. The reduced laser time makes a flap to be completed in approximately 5 seconds¹. It lets you create a comfortable patient experience and gain confidence in your workflow.

Intelligent robotic assistant systems, such as CentraLign® for easy centration and OcuLign® for cyclotorsion alignment, can help in enhancing control during your procedures. The surgeon and the assistant can continuously monitor the patient's position. Automatic adjustments can be made on the interactive touchscreen and intuitive software assists you at every step throughout the procedure.



Corneal surgery applications at a glance

Flap cut for Femto-LASIK

For treatments such as Femto-LASIK, the ZEISS VISUMAX 600 delivers highly precise flaps. Every surgeon can use their preferred flap configuration. This creates the possibility of widely adjustable flap diameter, thickness, hinge position and side cut angle. The flap lift is easy to perform, facilitated by the high cutting speed and optimized parameter settings.

SMILE pro for Lenticule Extraction

With SMILE® pro, the ZEISS VISUMAX 600 offers Lenticule Extraction for patients with myopia and astigmatism. During the procedure, a lenticule is created inside the cornea. The lenticule is subsequently extracted through a small incision, thereby achieving the desired vision correction.

Tunnel incisions for ICR

The femtosecond laser technology is ideally suited to create incisions in preparation for intracorneal ring (ICR) implantations. When defining tunnel parameters, it performs inclined cutting geometries and full circle tunnels as well as tunnel segments of 90 to 270°. This allows the implantation requirements of various kinds of ring segments to be met.

Keratoplasty option for corneal transplant

The ZEISS VISUMAX 600 covers several corneal transplant procedures. It enables smooth lamellar and circular incisions for Penetrating Keratoplasty (PKP) and Anterior Lamellar Keratoplasty (ALK), by efficient preparation of precision corneal grafts and recipient corneas. The practical Keratoplasty adapter provides a robust and sterile work surface for preparing corneal grafts and the specially designed curved contact glass (type KP) prevents unnecessary compression of the corneal tissue.

CIRCLE for retreatment

In rare cases when retreatment may be necessary, the software option CIRCLE® from ZEISS converts the initial cap created with SMILE or SMILE pro into a flap. The actual retreatment is then performed as a LASIK procedure, e.g. with the MEL® 90 from ZEISS.

¹Data on file, in comparison to its predecessor, flap diameter ≤ 8.0 mm, spot distance 4.5 μm , track distance 2.0 μm .

Technical Data

Laser type	Femtosecond laser
Available treatment options	Flap, SMILE® pro, CIRCLE®, ICR, Keratoplasty
Digital assistant systems	Centration aid Centralign® Cyclotorsion adjustment OcuLign® Import of VISULYZE® user nomograms

Optical data

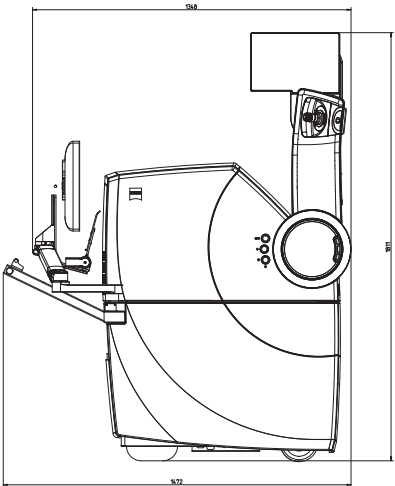
Maximum laser repetition frequency	2 MHz
Wavelength	1043 nm
Pulse duration	220–580 fs

Ambient conditions for operation

Temperature	+18 °C to +25 °C
Humidity	30 % to 70 %

Measurements

Device mass	505 kg
Minimum floor load	2.5 kN/m²
Footprint standalone (incl. movement range)	L × W: 1,710 mm × 925 mm



VISUMAX 600
MEL 90
VISULYZE



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