

# Corneal Cross Linking i-Volution

## PXL PLATINUM 330



**Variable settings from 3 mW up to 30 mW  
with simultaneous radiation time adjustment**

- Continuous, individually customizable pulsed and LASIK radiation modes
- Self-calibrating and self-adjusting
- Colour touch screen
- Eye tracking with adjustable real time camera view
- Bluetooth communication interface with powerful treatment report generation
- Ultrasound contact Pachymeter optional



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# PXL PLATINUM 330



*The PXL PLATINUM 330 is portable with a high quality table mount.*

## Corneal Cross Linking

Corneal Cross Linking (CXL) is a treatment with the aim of strengthening the corneal stromal tissue through the formation of new chemical bonds between stromal fibres.

- CXL is the only effective non-invasive treatment to stop progressive keratoconus as well as related ectatic disorders (such as PMD and iatrogenic ectasia) and has a regularisation effect on corneal topography.
- In addition to its role in treating ectatic corneal diseases, CXL has an established place in the management of infectious keratitis. UV light has long been known for its ability to kill different microorganisms (such as bacterial and fungal ones). Since keratitis in humans is an important cause of blindness, and antibiotic resistance is an increasing problem worldwide, CXL proves to be an extremely valuable possibility to manage the condition with a satisfactory outcome.
- CXL treatments are inexpensive, easy to perform, and easy for the patient.

# Unique – Fast – Excellent

## Visionary MedTech for a better performance – Swiss Made

### Clinical Experience

In recent years corneal cross-linking has become the standard procedure for treating patients with progressive keratoconus and other ectatic corneal diseases because of its effectiveness and lack of serious side effects. A large number of major clinical studies has proven the effectiveness of CXL and the lack of serious side effects. More than 85 % of eyes treated with CXL showed a significant increase in BCVA. Six months after the procedure cylinder was reduced in the majority of patients.

### Background

Corneal Cross Linking is a process of photo polymerization. During this process singlet oxygen is being created with the use of riboflavin as a photo mediator activated by UV-light. Free radicals lead to physical intra- and inter-helical cross links of stromal collagen fibres. This process takes place mainly in the anterior 200  $\mu$  to 250  $\mu$  of the stroma.

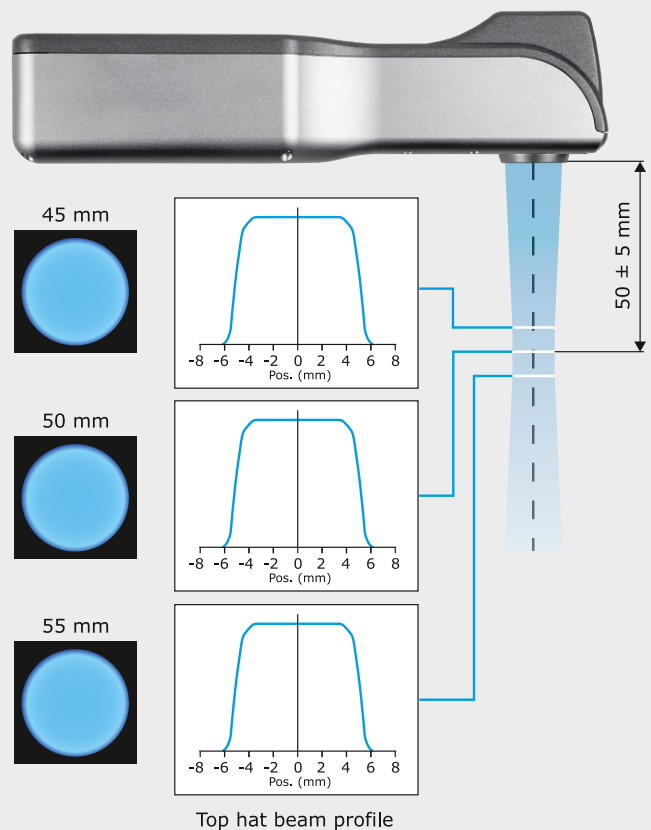
### The Device

The PXL PLATINUM 330 was designed with a special focus on effectiveness, safety and user friendliness and incorporates the latest clinical experiences. It enables the user to select the required energy levels: 3 mW, 9 mW, 18 mW and 30 mW per  $\text{cm}^2$  with automatic time adjustment. Furthermore it allows pulsed radiation in connection with the latest experience in treating infectious keratitis, with adjustable illumination on/off intervals. Also dedicated LASIK/PRK modes are available.

- The system has an integrated infrared camera for eye tracking and ensure proper distance. The tracking area as well as the aperture can be individually set to ensure safety of the Limbus. It includes a built-in calibration verification to continuously measure emitted light intensity.
- An integrated contact Pachymeter is optionally available which communicates via Bluetooth with the system and automatically transfers the pachymetry data.
- For documentation purposes, patient data as well as treatment settings can easily be exported in a powerful pdf report.

- A colour touch screen shows all relevant information: Real time eye monitoring, treatment settings and remaining treatment time. Some settings such as aperture and tracking zone can even be adapted during the treatment to ensure safety throughout the procedure.
- The PXL PLATINUM 330 is portable with a high quality table mount and comes in a sturdy transport case allowing the surgeon to be mobile.
- An optional floor mount is available.

### Beam Characteristics



To guarantee the high level of safety the beam of the PXL PLATINUM 330 has a wasteline at a distance of 50 mm from the optics and a depth of focus of approx.  $\pm$  5 mm.

To protect the limbal stem cells and to focus the beam on the clear cornea only the PXL PLATINUM 330 has a continuously adjustable aperture from 3 mm to 12 mm.



# Safe – Effective – Flexible

## PXL PLATINUM 330

### Technical Data

Wavelength	365 nm
Illumination intensity	3 – 9 – 18 – 30 mW/cm <sup>2</sup>
Working distance	50 mm ± 5 mm
Light emission	Continuous, interval or pulsed wave
Aperture	3 – 12 mm   Electronically adjusted
Timer	Automatic time adjustment: 30 – 10 – 5 – 3 min
Electric power	100 – 240 V   50/60 Hz
Dimensions hard case	37 × 46 × 15 cm
Total weight	7 kg



*The PXL PLATINUM 330 comes  
in a sturdy transport case.*

Your distributor:

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