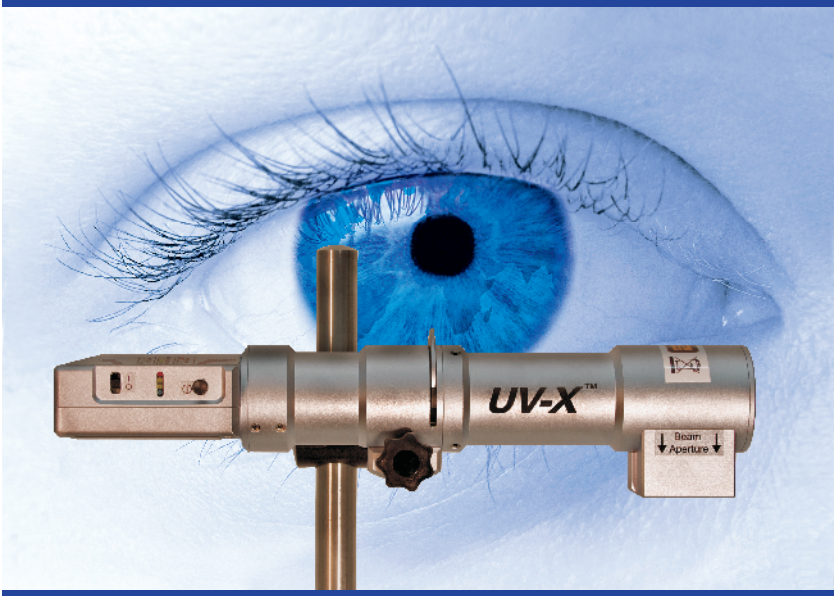
UV-X™

Illumination system for corneal cross-linking



Benefits:

- Unique in competence
- Unique in experience
- Unique safety
- Unique applications

competence - experience - safety

IROC

IROC

competence - experience - safety

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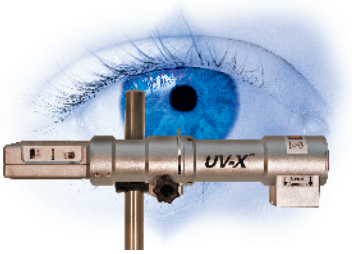

your solution for corneal cross-linking

Unique in competence:

- Developed by the inventors of the CXL technique
- Supported by a team of doctors and scientists
- More than 10 years of experience in the field of corneal crosslinking

Unique in experience:

- Approved and registered by the health authorities in many countries
- Over 700 systems installed world wide
- Used in US and in other international clinical studies on CXL

Unique safety:

- Redundant UV-safety check
- Overdosage impossible due to Köhler beam path
- Homogeneous illumination due to patented diffusor
- Preselected approved standard treatment parameters

Unique applications:

- Progressive keratoconus / PMD
- Iatrogenic ectasia
- Corneal infections*
- Thin corneas*
- Corneal melting*
- Combined topographic treatment*
- Combined treatments with corneal rings*

* clinical trails ongoing

Corneal cross-linking

Cross-linking of the cornea is a new curative approach to increase the mechanical stability of corneal tissue. The aim of this treatment is to create additional chemical bonds inside the corneal stroma by means of a highly localized photopolymerization.

Figure 1: Cross-linked and native cornea (In courtesy of Prof. Spoerl)

The Device

The UV-X™ illumination system was developed by an experienced team around the inventors of the procedure, Prof. Theo Seiler and Prof. Eberhard Spoerl. It was designed with a special focus on an optically homogeneous irradiation of the cornea. The patented beam homogenizing optics of the UV-X™ device is essential for a safe and efficent treatment procedure. The converging illumination beam of the UV-X™ device is already precompensating the corneal curvature thus minimizing reflection losses and zone enlargements.

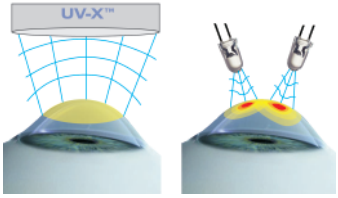

Figure 2: Advantage of Köhler illumination, homogeneous intensity over whole cornea

UV-X™ System

The UV-X™ illumination system includes a UV-lamp, UV-safety glasses, a table stand, a power supply and an UV-light meter. A floorstand is optional available.

Figure 3: UV-X™ - Package

Figure 4: Optional floorstand

The original IROC illumination system

UV-X™ specifications

Wavelength:	**365 nm ± 10 nm**
Illumination intensity:	**3.0 mW/cm²**
Working distance:	**50 mm**
Light emission:	**continuous wave (cw)**
Illumination diameter:	**S = 7 mm, M = 9 mm, L = 11 mm**
Electric power:	**100 V - 240 V**
Patient positioning:	**placed on bed**
Dimensions:	**light source: 32 x 5 x 5 cm**
System weight:	**total: 6.5 kg, light source: 0.6 kg**
Timer:	**30 min**
Intensity check:	**UV light meter delivered with UV-X system, battery operated +9 V**

CE 1275

UV-X™ optional accessories

Floorstand:	**weight: 15 kg**

For further information about the UV-X™ illumination system or corneal cross-linking, please feel free to contact us.

IROC AG

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