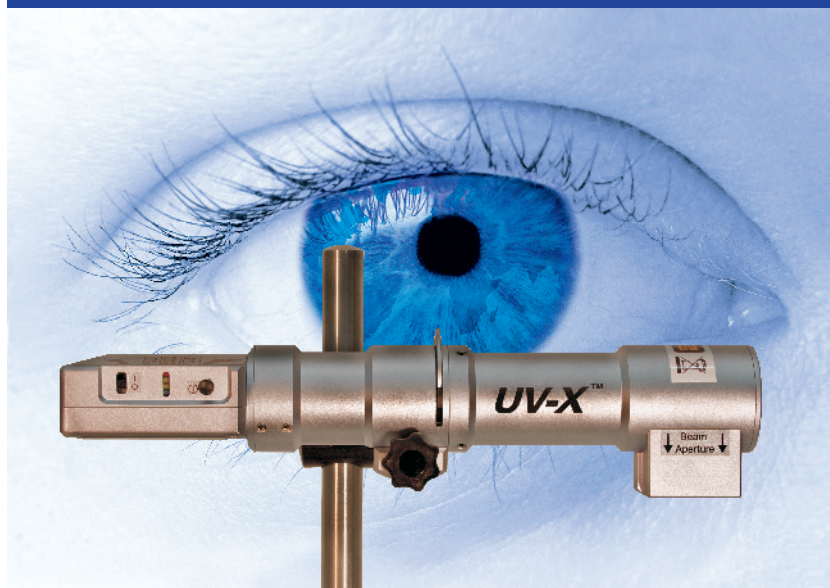


UV-X™

Illumination system for corneal cross-linking



Benefits:

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

competence - experience - safety

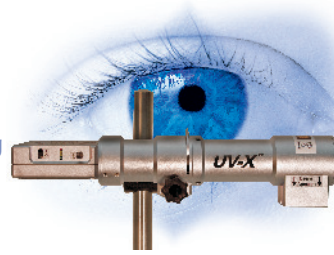
IROC

IROC

competence - experience - safety

UV-X™

Illumination system
for corneal cross-linking



**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 trials 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.

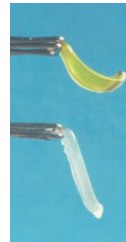


Figure 1: Cross-linked and native cornea (In courtesy of Prof. Spoerl)

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

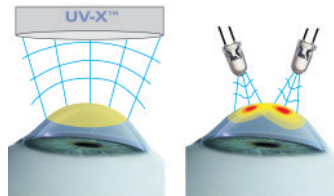


Figure 2: Advantage of Köhler illumination, homogeneous intensity over whole cornea

safe and efficient treatment procedure. The converging illumination beam of the UV-X™ device is already precompensating the corneal curvature thus minimizing reflection losses and zone enlargements.

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

competence - experience - safety

IROC



The original IROC illumination system

UV-X™ specifications

Wavelength:	365 nm ± 10 nm
Illumination intensity:	3.0 mW/cm ²
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



UV-X™ optional accessories

Floorstand:	weight: 15 kg
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For further information about the UV-X™ illumination system or corneal cross-linking, please feel free to contact us.

IROC AG

Institut für Refraktive
und Ophthalmo-Chirurgie

Stockerstrasse 37, CH-8002 Zürich
Telefon: +41 43 488 38 00
Telefax: +41 43 488 38 09
sales@iroc.ch
www.irocmmedical.com

your distributor

