



# Corneal cross-linking

## The complete solution for your Cross-linking practice

Thanks to its solid field experience and the collaboration with leading ophthalmologists, SERVImed developed a new generation of CF X-LINKER. The new CF X-Linker has improved technical features, including a wider treatment range, for a complete and smooth surgical experience.



CE Class IIA Medical Device

### Technical specifications

- UV emission: 1-30 mW/cm<sup>2</sup>
- Beam Diameter: 3-12 mm
- Open system, compatible with most riboflavins on the market
- 10" touchscreen display with a user-friendly interface
- Integrated camera for live procedure view
- Treatment report & database
- USB port for report saving

### Selectable treatments

- EPI-OFF: Dresden
- Iontophoresis
- EPI-ON: Custom Fast CXL (SERVImed worldwide exclusive)
- Keratitis CXL
- Continuous and pulsed
- User presets

### Custom Fast CXL treatment

- CUSTOMIZED TOPO-PACHIMETRIC GUIDED TREATMENT based on patients' corneal parameters
- SAFE: Completely non invasive, EPI-ON treatment
- INNOVATIVE: Use of Vitamin E TPGS – enhanced riboflavin formulations for improved results
- CERTIFIED: International patents, validated by clinical studies and publications, with a 7-year follow up published in *Cornea*



## Expanded treatment selection

- Dresden EPI-OFF
- Iontophoresis
- EPI-ON: Custom Fast CXL\*
- CXL for infectious Keratitis
- User treatment presets
- Continuous and pulsed UV mode

\*only with RIBOCROSS te® and RIBOFAST ophthalmic solutions.



## Optimized user experience

- Open system, compatible with every riboflavin on the market
- 10" touchscreen display
- Easy to use interface
- Proprietary software for customization
- Integrated camera for real time procedure view



## Smarter workflow

- Compile, save and print treatment reports directly on the device
- Integrated treatment database for easy reviewing
- Remote assistance

# Custom fast corneal cross-linking

## Customized protocol

Topo-pachimetric guided treatment based on the patients' corneal parameters, thanks to the proprietary software.



## Patient friendly

Completely non invasive, EPI-ON treatment.



## Innovative approach

First and only to use Vitamin E TPGS-enhanced riboflavin solutions for improved results.



## Certified results

Published peer reviewed studies and clinical papers with a 7-year follow-up.



# Riboflavin

## RIBOCROSS te®

### Ophthalmic solution for Corneal Cross-linking

- 10% Dextran
- Patented formulation with penetration enhancer (Vitamin E TPGS)
- Can be used with every CXL protocol and most UV devices on the market
- Can be used in CUSTOM FAST CXL protocol (only with CF X-LINKER System)

## RIBOFAST

### Dextran-free ophthalmic solution for Corneal Cross-linking

- Dextran-free
- Patented formulation with penetration enhancer (Vitamin E TPGS)
- Can be used with every CXL protocol and most UV devices on the market
- Can be used in CUSTOM FAST CXL protocol (only with CF X-LINKER System)

## Product information



1.5 ml single use sterile syringe

CE Class IIA Medical Device

**Patents:** Italy, Europe, USA, Russia, Australia, South Africa, Brazil.



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## Bibliography

- 1) "Enhancement of corneal permeation of riboflavin-5'-phosphate through vitamin E TPGS: A promising approach in corneal trans-epithelial cross linking treatment". Inter J Pharm 440 (2013) 148- 153.
- 2) "Transepithelial Corneal Cross-Linking With Vitamin E-Enhanced Riboflavin Solution and Abbreviated, Low-Dose UV-A: 24-Month Clinical Outcomes" Cornea 2016;35:145-150.
- 3) "Corneal Cross-Linking: Evaluating the Potential for a Lower Power, Shorter Duration Treatment" Cornea 2016;35:659-662.
- 4) "Customized Corneal Cross-linking - A Mathematical Model" Cornea 2017;36:600-604.
- 5) "Corneal Cross-Linking - The Science Beyond the Myths and Misconceptions" Cornea. 2019 Jun;38(6):780-790.
- 6) "Topography and Pachymetry Guided, Rapid Epi-on Corneal Cross-Linking for Keratoconus: 7-year Study Results" Cornea 2020;39:56-62.
- 7) "Compaction of very thin corneas from ultraviolet A riboflavin-vitamin E transepithelial cross-linking" Experimental Eye Research 205 (2021) 108484.
- 8) "Topo-pachimetric accelerated EPI-ON cross-linking compared to the Dresden protocol using riboflavin with Vitamin E TPGS: results of a 2-year randomized study" J. Clin. Med. 2021, 10, 3799.



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