

# uncompromised







#### THE COMPLETE SOLUTION

for your cross-linking practice

Thanks to the field experience and the collaboration with medical professionals, the new CF X-LINKER generation comes with new and improved features, allowing for a smooth and complete workflow in daily practice, with the maximum flexibility.

#### **CUSTOM FAST**

#### corneal cross-linking

CF X-LINKER is the only device capable of performing Custom Fast CXL (cf CXL), the exclusive customized protocol developed by SERVImed.

#### customized

based on patient's corneal parameters, thanks to the proprietary mathematical model

#### safe

Completely non invasive, EPI-ON treatment

#### innovative

Use of Vitamin E TPGS – enhanced riboflavin formulations for improved results

#### certified

published papers and studies with 7-year follow-up

# CFX-LINKER Value Calculation EPI-ON: Custom

# **NEW** features

## **EXPANDED** treatment range

- Dresden EPI-OFF
  - Iontophoresis •
- EPI-ON: Custom Fast Corneal Cross-linking (cf CXL)\*
  - CXL for infectious keratitis
    - User treatment presets •
  - Continuous and pulsed mode •

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

## **OPTIMIZED** experience

- Open system, compatible with every riboflavin on the market
  - 10" touchscreen display
    - Easy to use interface •
  - Improved Hardware and CPU for higher performances •
- Proprietary software with mathematical model for customization
  - Integrated camera for real time view of the procedure •

# CFX-LINKER

### **SMARTER** workflow

- Compile, save and print every treatment report
  - Treatment database for an easy review •
  - Plan and save your treatments in advance
    - Remote assistance •







## **TECHNICAL** specifications

#### **UV EMISSION**

#### parameters

■ UV power: 1-30 mW/cm<sup>2</sup>

• UV emission: continuous or pulsed

■ Beam diameter: 3-12 mm

Selectable treatments:

- Dresden EPI-OFF

- Custom Fast CXL EPI-ON

- Iontophoresis

- Keratitis CXL

- Customizable user presets

- Demo mode

#### **TREATMENT**

#### indications

- Keratoconus
- Corneal Ectasias
- Post PRK/LASIK/RK ectasias
- Pellucid Marginal Degeneration
- Infectious Keratitis

#### **ADDITIONAL**

#### features

- 10" touchscreen display
- Easy to use interface
- Integrated camera for live procedure view
- Treatment report
- Treatment database to access past procedures
- USB port for report saving

#### PATENTED FORMULATIONS

for every CXL protocol

SERVImed developed patented riboflavin formulations, CE certified and compatible with every UV device and protocol on the market. RIBOCROSS te® and RIBOFAST are the only solutions in the world to use Vitamin E TPGS as penetration enhancer, providing effective results in both EPI-OFF and EPI-ON procedures.

#### RIBOCROSS te®

Ophthalmic Solution with Vitamin E TPGS and 10% Dextran



- CE Medical Device
- Patented
- Corneal penetration enhancer
- Maximum effectiveness in both EPI-ON and EPI-OFF
- Can be used with every protocol and UV device on the market
- Can be used in CUSTOM FAST CXL protocol

#### **RIBOFAST**

Dextran free Ophthalmic Solution with Vitamin E TPGS



- CE Medical Device
- Patented
- Corneal penetration enhancer
- Maximum effectiveness in both EPI-ON and EPI-OFF
- Can be used with every protocol and UV device on the market
- Can be used in CUSTOM FAST CXL protocol









Product	CFX-LINKER	RIBOCROSS te®	RIBOFAST
Description	Corneal Cross-linking System	Ophthalmic solution for Corneal Cross-linking	Dextran free ophthalmic solution for Corneal Cross-linking
Code	OFMUVACCLMG2010	ITD001	ITD003
Certificates	<b>C€</b> 1936	<b>C €</b> 0373 EP n° 2 459 186 B1 USP n° 9192594 B2	<b>C€</b> 0373 EP n° 2 459 186 B1 USP n° 9192594 B2

#### **Bibliography**

- 1) "Evaluation of the penetration through human cornea of riboflavin 0.1% in solution with other molecules after trans-epithelial application" 1st EuCornea Congress, June 17-19 2010, Venice, Italy.
- 2) "Thickness and ultra-structural changes in keratoconus-affected human corneas after transepithelial cross-linking" American Academy of Ophthalmology Annual meeting, October 2010, Chicago (P0073).
- 3) "A new riboflavin solution for trans-epithelial cross-linking: a study of corneal pharmacokinetic" American Academy of Ophthalmology Annual meeting, October 2010, Chicago (P0073).
- 4) Effects of UV-A rays on the corneal epithelial surface after topical application of riboflavin solutions: an electron microscope study" American Academy of Ophthalmology Annual meeting, October 2010, Chicago (P0073).
- 5) "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.
- 6) "A Mathematical Model of Corneal UV-A Absorption After Soaking With a Riboflavin Solution During Trans-epithelial Cross-linking".
- 1st joint International Congress Refractive Online & SICSSO National Congress, July 7-9, 2011, Grosseto, Italy (Best paper, podium presentation).
- 7) "UV-A rays absorption in human corneas before and after trans-epithelial riboflavin application: an experimental study" 2nd Joint International Congress Refractive Online & SICSSO National Congress, June 28-30, 2012, Rome, Italy (Podium presentation).
- 8) "Trans-epithelial cross-linking with riboflavin solution: one-year clinical results" 1st joint International Congress Refractive Online & SICSSO National Congress, July 7-9, 2011, Grosseto, Italy (Podium presentation).
- 9) "Trans-epithelial cross-linking with riboflavin solution: two-year clinical results" 2nd joint International Congress Refractive Online & SICSSO, Rome 2012 (podium presentation).
- 10) "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.
- 11) "Corneal Cross-Linking: Evaluating the Potential for a Lower Power, Shorter Duration Treatment" Cornea 2016;35:659–662.
- 12) "Customized Corneal Cross-linking A Mathematical Model" Cornea 2017;36:600 604.
- 13) "Corneal Cross-Linking The Science Beyond the Myths and Misconceptions" Cornea. 2019 Jun; 38(6):780-790.
- 14) "Topography and Pachymetry Guided, Rapid Epi-on Corneal Cross-Linking for Keratoconus: 7-year Study Results" Cornea 2020;39:56-62.

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