



# UV-A Medical Device for Theranostic Guided Corneal Cross-Linking



► **Precise.**

► **Predictive.**

► **Personalized.**

**RegenSight**

Delivering life-changing therapies  
to patients with keratoconus





Powered by Theranostics technology  
Integrating exponential and key-enabling  
technologies for precision ophthalmology



Enhanced by **AR**-guided corneal focusing with Placido disk, **AI**, and **IoMT** for a superior surgical experience, real-time support, and continuous performance improvement.

Widest range of CXL protocol settings with unlimited options for **personalized treatments**.



**Dual UV-A power monitoring** for unmatched reliability and safety in corneal cross-linking ( $\pm 0,1$  mW/cm<sup>2</sup> accuracy).

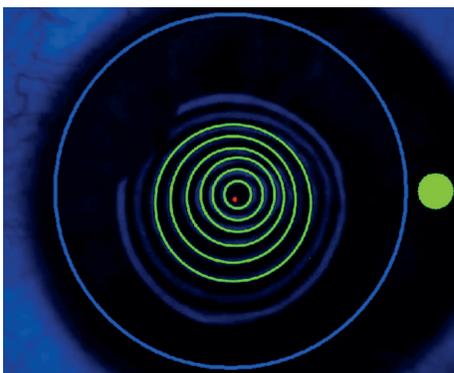
**Integrated connectivity** with precise control of patterned corneal iontophoresis delivery of riboflavin.



## THE 4 PHASES OF THERANOSTIC-GUIDED CXL

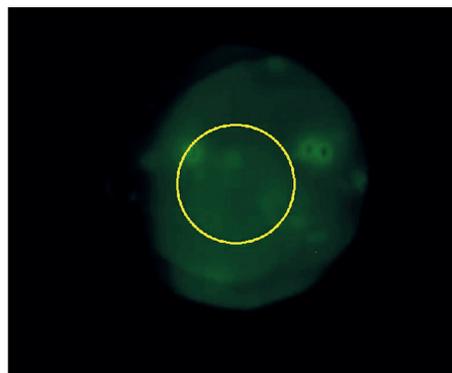
**1° CORNEAL FOCUSING**  
**2° BASELINE MEASURE**

assessing the corneal  
optical properties



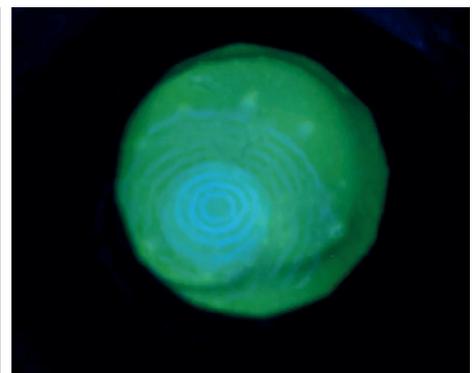
**3° RIBOFLAVIN**  
**DOSING PHASE**

assessing the amount of riboflavin  
permeating the cornea



**4° UV-A LIGHT**  
**PHOTO-THERAPY**

treating and assessing  
treatment efficacy

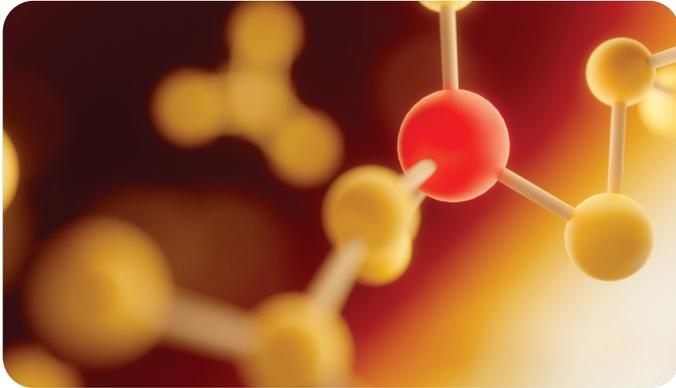


The **riboflavin score** is an estimate of  
riboflavin corneal concentration

The **theranostic score** is an estimate of  
CXL treatment efficacy

**C4V CHROMO4VIS** allows the operator to proceed with the UV-A light irradiation of the cornea when the **riboflavin score** is over the preset threshold

# ▶▶▶▶ Theranostics: Precision Science, Personal Care



## MOLECULAR DATA-DRIVEN TREATMENT

**Precise measurement** of riboflavin concentration and estimation of therapeutic effect for predictive personalization of corneal therapy.

## SCIENTIFICALLY AND CLINICALLY VALIDATED

Regular publications of laboratory and clinical data validate theranostics with **scientific and evidence-based medicine approach**.



## TRANSFORMATIVE INNOVATION

Establishing a **new gold standard** in keratoconus treatment

**C4V**  
CHROMO4VIS

*This information is intended for healthcare professionals only.*

C4V CHROMO4VIS is an active medical device, class IIb, CE1936 basic UDI-DI: 805384861RSVEI0332. Manufacturer: Regensight srl, Via Livenza 3, 00198 Rome (Italy). Contact: [customers@regensight.com](mailto:customers@regensight.com).

discover more at  
[www.regensight.com](http://www.regensight.com)

# DoRSight

## CORNEAL IONTOPHORESIS CONTROLLED DELIVERY SYSTEM

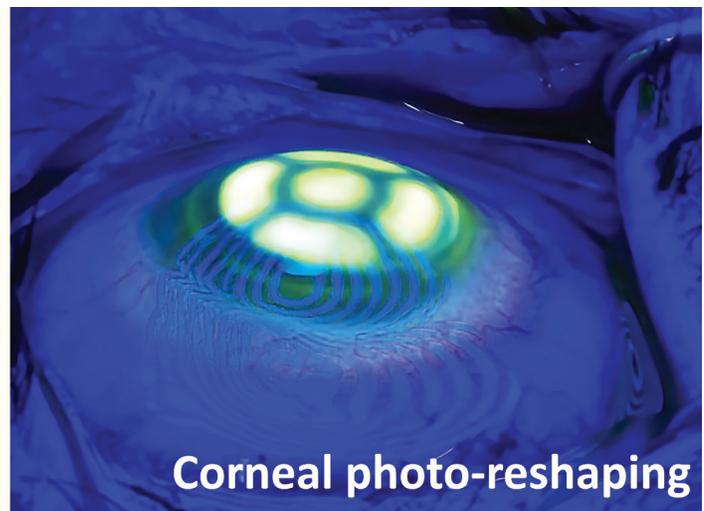
Precise, fast, and spatially controlled corneal delivery of riboflavin.  
FOR EXCLUSIVE USE WITH C4V CHROMO4VIS.

## UNIQUENESS

**Theranostic-guided corneal photo-reshaping** with **C4V CHROMO4VIS** and **DoRSight** selectively reinforces biomechanically weakened stromal regions, **regularizes anterior corneal curvature**, and produces significant and reproducible **improvements in visual function in keratoconus patients**.



Spatially-controlled delivery



Corneal photo-reshaping

Surgeon Logout Administrator

**TREATMENT**

Protocol	EPI On
Riboflavin dosing mode	Active
Riboflavin dosing time	8 min
UV-A Irradiation mode	Continuous
UV-A Irradiation power	10 mW/cm <sup>2</sup>
UV-A Irradiation time	9 min
Energy dose	5.4 J/cm <sup>2</sup>
Enhanced EPI On	No
Beam aperture	7 mm

**L**

Sph	-1.50 D
Cyl	-10.00 D
Axis	100 deg

CCT 489 μm  
Kmax 63.4 D

**MESSAGE**

UV-A irradiation of the cornea. The system takes measures at preset monitoring time.

**UV-A IRRADIATION**

Monitoring interval: 2:03  
Irradiation time: 0:12  
Therapeutic score: 0.00

0.62

Stop Pause

**Data-Driven**

Treatment completed

**PRECISION,  
PERSONALIZATION,  
AND REAL-TIME CONTROL  
AT EVERY PHASE  
OF TREATMENT**

DoRSight is an accessory, sterile, medical device, for exclusive use with C4V CHROMO4VIS, class IIa, basic UDI-DI: 805384861RSVEI073A. Manufacturer: Regensight srl, Via Livenza 3, 00198 Rome (Italy).  
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**RegenSight**  
REGENERATE. IMPROVE

