

OPTIMIZE TREATMENT
OUTCOMES WITH
COLLAGEX™ RIBOFLAVIN



An essential component of any corneal cross linking procedure, the Collagex riboflavin (vitamin B2) family by LIGHTMED™ offers more options to help optimize outcomes.

LIGHTMED Collagex Riboflavin Family



Collagex is considered the purest and most advanced riboflavin in the market. It is supplied in a convenient glass syringe applicator and individually packed in sterile pouches.

Collagex—Isotonic

Riboflavin solution for normal corneas (350 µm and above)

- Riboflavin 5-Phosphate (0.1%) with 20% dextran T500 in 3 ml syringe
- Isotonic composition for standard cross-linking approach to help maintain or even slightly swell the cornea (up to 5%)

Collagex—Hypotonic

Riboflavin solution for treatment of thin corneas (below 400 µm)

- Riboflavin 5-Phosphate (0.1%) without dextran in 1 ml syringe
- Creates a corneal swelling effect by osmotic action

Collagex—Trans-Epithelial (TE)

Trans-epithelial hypotonic solution for cross-linking procedures WITHOUT corneal epithelial removal

- Trans-epithelial riboflavin solution in 1 ml syringe
- Assists in cross-linking procedure by reducing the need to remove the corneal epithelium
- Reduces trauma and risk of post-op implications

Collagex—Rapid

Riboflavin solution indicated for accelerated CXL (3 min – 15 min) 400 µm

- Riboflavin (0.1%) with HPMC in 3 ml syringe
- Accelerates cross-linking functionality to deliver treatment in as little as 3 minutes

Collagex—Plus

Riboflavin solution indicated for LASIK Plus CXL (immediate post-LASIK treatment)

- Riboflavin (0.25%) in 1 ml syringe
- Designed as an extension of LASIK procedures to prevent corneal ectasia and improve corneal stability

Technical Specifications

Model	LIGHTLink-CXL™
UV light wavelength	365 nm ±5 nm
UV light source	Hi-power UV-A LED cluster system
Max power range	Factory limited 30 mW/cm²
Irradiance	0.5 mW/cm² – 30 mW/cm², continuously variable; limited at total 5.4 J/cm² with built in protocols and custom override
Power monitoring	Automatic: integrated power monitor with feedback loop
Pulse duration	Adjustable 1 second – 60 minutes
Pulse function	Adjustable duration: 1 – 10 seconds Adjustable interval: 1 – 10 seconds
Operating interface	11.6" touch screen color LCD with built-in PC
Calibration	Automatic: built-in power meter and feedback loop
Integrated power meter	Yes
Max power output error	10%
Spot sizes	4 – 11 mm continuously variable
Treatment beam homogenizer	Ultra-efficient quad LED cluster system with twin homogenizer
Working distance	105 mm
Aiming beam	Dual diodes 670 nm (red)
Aiming beam power	Adjustable 0.1 – 1.0 mW
Video system	Integrated high-resolution auto-focusing camera
Floor stand	Integrated, height adjustable with pantographic arm
Operating voltage	90 – 240 VAC, 50/60 Hz auto-ranging and optional 30 minute backup battery
Dimensions	130 cm (H) x 128 cm (W) x 40 cm (L) at full system span
Weight	48 kg, 105.8 lbs.

Specifications are subject to change without notice. LIGHTLink-CXL is manufactured to the International MDD Safety and Laser Safety Standards: EN60601-1, EN60601-1-1, EN60601-1-1-2, EN606901-2-22, IEC60825-1, Rev: DCA66001

THE LIGHTLink-CXL CORNEAL CROSS-LINKING SYSTEM IS ONLY AVAILABLE FOR COMMERCIAL SALE AND DISTRIBUTION IN SELECT LOCATIONS WORLDWIDE.



1130 Calle Cordillera | San Clemente, CA 92673 | USA
T: 949-218-9555 | F: 949-218-9556 | sales@lightmed.com
www.lightmed.com



A NEW LEVEL OF PERFORMANCE.
A NEW LEVEL OF CUSTOMIZATION.

LIGHTLink-CXL™
CORNEAL CROSS-LINKING SYSTEM

INNOVATION, PERFECTED



We are redefining the approach to corneal cross-linking treatment to bring unparalleled speed and clinical versatility to the treatment of keratoconus and other corneal dysfunctions. With laser-like safety, enhanced functionality, and unmatched value, the LIGHTLink-CXL™ is ideal for practical day-to-day use and research purposes.

INTEGRATED TECHNOLOGY



Designed by the ophthalmic laser experts, the LIGHTLink-CXL™ offers exceptional standards of safety and clinical effectiveness, complemented by convenient features.

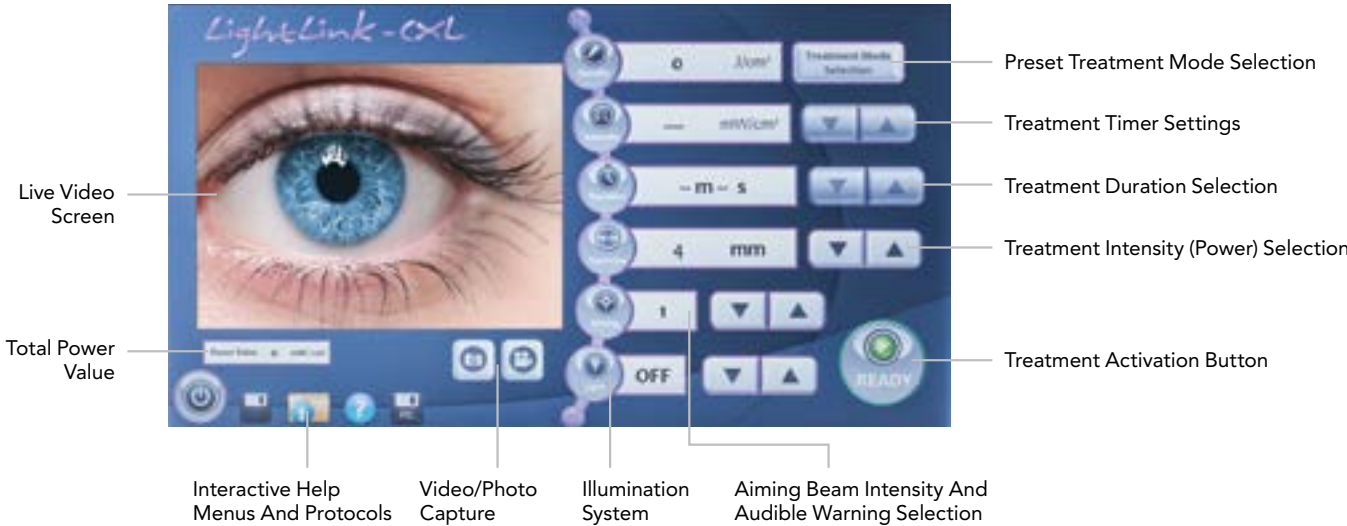
EFFICIENT TREATMENT



LIGHTLink-CXL™ is capable of performing traditional and rapid cross-linking treatments in as little as 3 minutes. Treatment efficacy is assured by built-in protocols which maintain the same total energy of 5.4 J/cm² as in traditional cross-linking procedure.

Exclusive Built-In Protocols

- Guided, semi-automated processes reduce operator error
- Full customization enables effective current and next-generation cross-linking treatments



1 Precise Pantographic Arm And Grip Handles

- Intuitive adjustment
- Convenient handling

2 Intelligent Opti-Electronics

- Built-in video camera
- Self-calibrating system
- Enhanced treatment safety
- Video and photo record function

3 Powerful 0-30 mW UV-A Unit

- Unmatched efficiency and lifespan
- Unparalleled beam profile
- Next-generation treatment possibilities

4 Incomparable System Interface

- Touch screen display with interactive menus
- Integrated protocols and functionality for treatment optimization

5 Integrated Stand

- Easy height adjustment
- Enhanced mobility



Additional Features

- Battery backup unit (optional)
- Built-in power meter to assure treatment precision and safety
- Closed loop power feedback system to eliminate the need for calibration
- Key activated system with emergency stop switch
- Patient fixation
- Safety interlock
- Ultra-efficient quad LED cluster system
- Twin homogenizer optics for accurate treatment beam

Fast, Multiple, And Customizable Treatment Options



LIGHTLink-CXL features the highest number of built in protocols:

- Assures treatment efficacy, speed, and physician convenience
- Provides semi-automated guidance during the procedure process
- Includes intuitive menus, automated alerts, and commands to minimize potential operator error

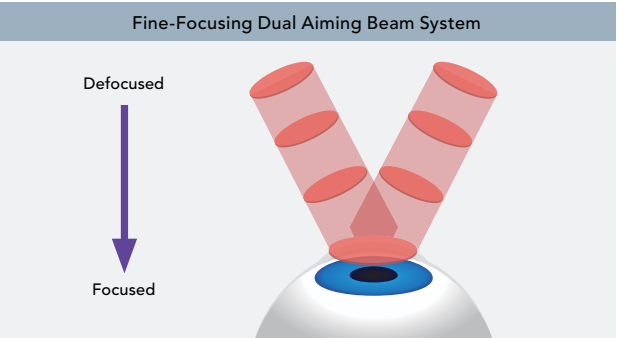
Preset Protocols

- Standard: 30 minute protocol
- Intermediate: 10 minute protocol
- Accelerated: 5 minute protocol
- Rapid: 3 minute protocol
- Custom: Fully adjustable power and time settings

Precise Treatment Beam Alignment

LIGHTLink-CXL uses a fine-focusing dual aiming beam system, where both beams converge at the focal target area, creating a sharp and easily readable spot.

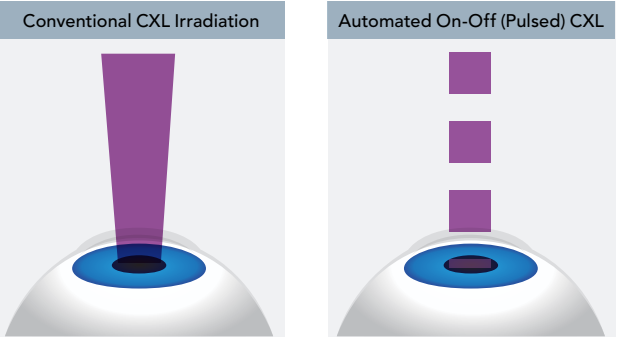
- Caters to the natural anterior chamber depth of the eye
- Ensures adequate irradiation is delivered to the fine structures of the inner cornea



Conventional And Automated On-Off CXL Treatment Modes

Automated and customizable treatment modalities make LIGHTLink-CXL a practical, safe, and versatile cross-linking device.

- Fully automated treatment mode
- Highly adjustable intervals
- Long-term efficacy



About Corneal Cross-Linking

Corneal cross-linking is a safe and minimally invasive procedure that involves topical application of liquid riboflavin (vitamin B2) to the cornea, followed by irradiation treatment using a precise ultraviolet light source. The riboflavin and light combination can increase the biomechanical stability of the cornea up to 300%, preventing further progression of keratoconus.

Clinical Applications

Increasingly considered the revolutionary treatment for many corneal disorders, corneal cross-linking is indicated for:

- Keratoconus grades I and II
- Post-LASIK ectasia
- Corneal melting
- Pellucid marginal degeneration
- Latrogenic keratectasia
- ICR, CK, and Ortho K
- Central island prevention
- Extended PRK/EPI/LASEK