



CIMA Technology, Inc. designs, manufactures and distributes ophthalmic products for cataract surgery available to the international market. A full range of intraocular lenses in various styles and materials, visco-surgical solutions, and a disposable injector system are offered. The manufacturing and technical teams are dedicated to bringing innovative and quality products to ophthalmologists worldwide in order to help cure needless blindness due to cataracts in developed as well as developing countries.

Our mission is to utilize our worldwide partnership with ophthalmologists and non-governmental organizations (NGO's) to provide affordable US made ophthalmic products for cataract surgery.





# Visco

Ophthalmic viscosurgical devices (OVD) have become indispensable in cataract surgery. CIMA designs and manufactures its OVD product line to have excellent handling characteristics in a range of cohesive and dispersive properties, allowing them to meet surgeons' individual preferences.

CIMA offers a premium viscosurgical tool with excellent quality to support the complete surgical flow with a Cohesive/Dispersive OVD. CIMA OVDs and IOLs are designed to perfectly complement each other.



## ***Cohesive and Dispersive***

**Sodium Hyaluronate,  
Sodium Chondroitin Sulfate**

2% (NaHa) 3% (CS)

- High viscosity OVD with both cohesive and dispersive properties.
- Maintains a constant deep anterior chamber and protects all sensitive cell structures throughout the entire surgery.
- Creates superior stability in the anterior chamber and capsular bag during phakoemulsification from start to finish.





Visco



BiVisc™

*A well-balanced combination OVD in  
one convenient delivery system*

- Offers both cohesive and dispersive properties.
- Suitable for various steps and maneuvers performed during cataract surgeries.
- The cohesive properties help create and maintain space in anterior chamber and capsular bag, which also allows for easy removal.
- The dispersive properties provide optimum cell protection of the intraocular tissues.

**Content:** 2% Sodium Hyaluronate/ 3% Chondroitin Sulfate or

**Fill Volume:** 0.55ml or 1.0ml

**Package:** Supplied in a luer-loc glass syringe with a 23, 25 or  
27 gauge cannula in a medical grade peel pouch

**Storage:** Store at 2-8° C (36-46° F)





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### ***CIMflex Injector System***

The CIMflex Injector System is designed to easily fold and deliver a single-piece, foldable, hydrophobic or hydrophilic acrylic intraocular lens. It consists of the sterile SINGLE-USE injector with a silicone cushion and sterile SINGLE-USE cartridge. The injection application is in the capsular bag after extra-capsular cataract extraction. The appropriate cartridge is supplied with the injector in order to deliver lenses through a 1.8mm, 2.2mm or 2.4mm incision.



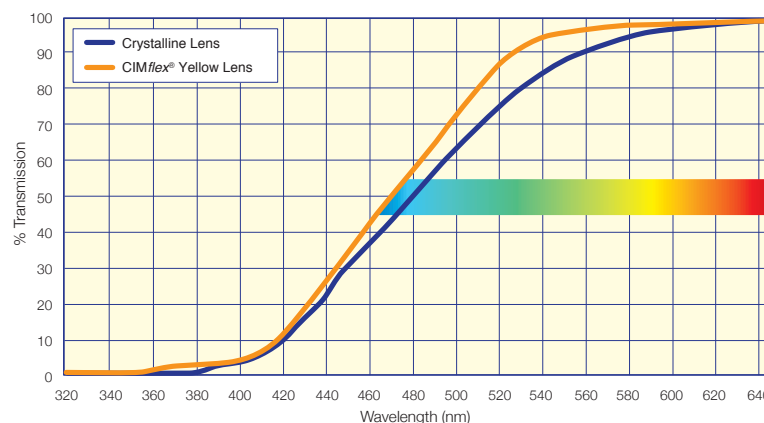
### ***Expect Clear Visual Results***

The CIMA team's focus is to deliver high quality intraocular lenses (IOLs) and ophthalmic viscosurgical devices (OVDs) to meet the needs of today's innovative and demanding cataract surgery.

The Asteri hydrophobic IOLs and CIMflex series of hydrophilic IOLs are manufactured using highly purified polymers to achieve consistent and reliable characteristics in IOL production as well as reliable and stable outcomes within the eye.

### ***Comparison of a Crystalline Lens Versus Cimflex Yellow Lens***

The yellow aspheric line of foldable IOLs takes advantage of the latest technology in UV-A blocking and violet light filtering material. The IOL material uses the same UV-A blocking and violet light filtering chromophore that is present in the human crystalline lens (3-Hydroxykynurenine). CIMflex yellow IOLs (hydrophilic) provide superior performance by protecting the retina without blocking blue light in order to improve contrast sensitivity and maintain excellent visual acuity and color perception.

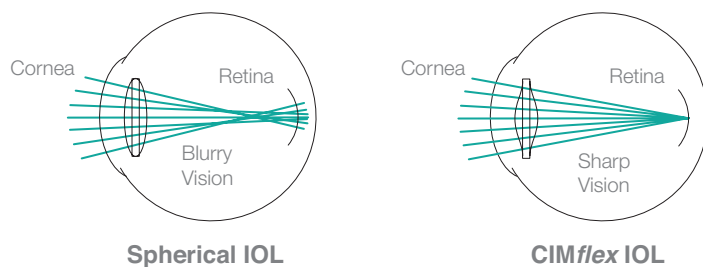




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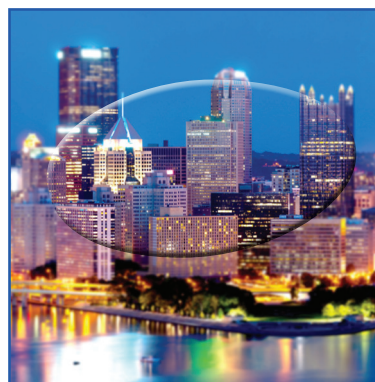
## Advanced Optics

Aspheric optics in IOLs are designed to account for the natural positive aberration found in the cornea, resulting in improved image quality and increased contrast sensitivity in cataract surgery patients. The optimized optical surface is designed to reduce the overall spherical aberration to provide excellent depth of field with minimal modulation transfer function (MTF) loss in case of decentration.



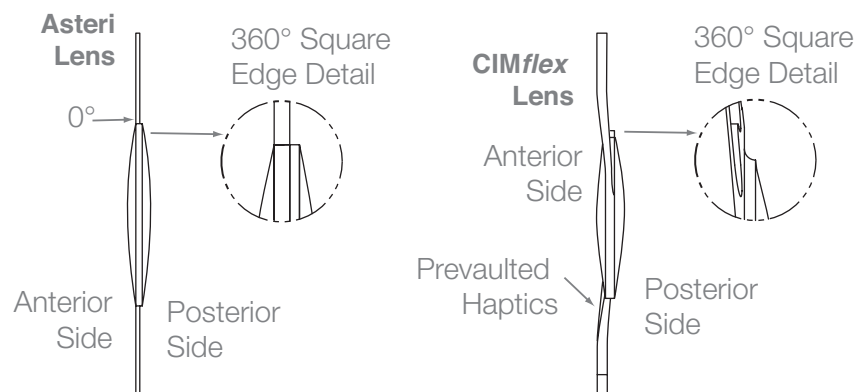
## COMPARISON PHOTO (SIMULATED)

Conventional Spherical IOL VS CIMflex Aspheric IOL



## PCO Prevention

In order to reduce Posterior Capsular Opacification (PCO), Asteri and CIMflex IOLs feature a continuous 360° Square Edge along the haptic-optic junction. As a result, lenticular epithelial cells are prevented from using the haptic-optic junction as a route for invading the optic surface. Once inside the capsular bag, increased contact of the optic with the posterior capsule from Asteri or CIMflex series IOLs, create a barrier to PCO and increased stability.





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## Aspheric – Clear and Natural Yellow IOLs

**Asteri and CIMflex Aspheric monofocal IOLs for optimal visual quality in all light conditions.**

- The aspheric optic improves contrast sensitivity compared with conventional spherical IOLs.
- Feature a negative spherical aberration to compensate for the positive aberration of an average cornea, resulting in significantly improved clarity.

**The CIMflex yellow series provides blue light filtering properties which replicates the natural yellow chromophore in the human crystalline lens.**

- Provides increased protection against harmful UV light while allowing optimal blue light transmission.
- Improves contrast sensitivity and maintains excellent visual acuity and color perception.

**Advanced Manufacturing processes result in excellent optical surface quality.**

- The 360° square edge design provides an advanced line of defense against PCO.
- IOLs made from hydrophobic or hydrophilic acrylic material with excellent biocompatibility and low Nd:YAG capsulotomy rates.

**Customized CIMflex Injection System provides smooth delivery**

- Sterile single-use CIMflex injector provides smooth and easy IOL delivery.
- Implanted through 2.2mm incision reducing surgically induced astigmatism.





# asteri

Hydrophobic

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## Asteri 56

CIMA Hydrophobic Aspheric IOLs

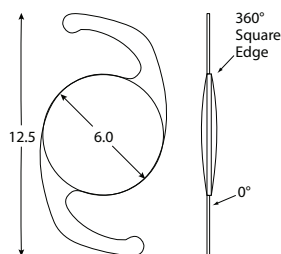
**Innovative hydrophobic material**

**Excellent biocompatibility and visual outcomes**

**Improved visual clarity and image quality**

**High refractive index allows for reduced center thickness**

- Innovative hydrophobic material, developed to create a balance between high refractive index, compression and fast unfolding time.
- Fully molded optic, superior optic quality compared with lathing technique.
- Ultra-high purity monomers and aspheric optic design provide excellent visual clarity, image quality and improved contrast sensitivity.
- Stable in the bag, minimal rotation.
- A high refractive index, facilitating smaller incision. The Asteri lens can be implanted through 2.2mm without wound-assistance.
- Supplied with a single use, easy to load Injector System for successful lens delivery. Minimal amount of BSS/NS or viscoelastic solution can be used for cartridge lubrication.



\*'A'-Constant OB is an estimated value. 'A'-Constant UB is an optimized value. It is recommended that these values be used as guidelines only, and that each surgeon develop his or her own values based on individual experience, equipment, technique and post operative results.

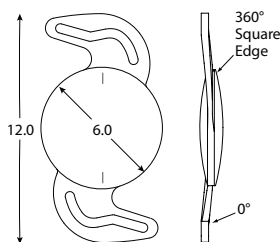
Lens Type:	Single Piece C-Loop, Aspheric Optic, 360° Square Edge
Material:	Acrylate/Methacrylate Copolymer, UV blocking, clear
Lens Power:	All lens powers are measured in air
Optic Design:	Biconvex, aspheric
Sterilization:	Ethylene Oxide (dry)
Nd:	YAG laser compatible
Angulation:	0°
Optic Diameter:	6.0mm
Overall Diameter:	12.5mm
Recommended *'A'-constant:	OB 118.6, UB 118.0
Refractive Index:	1.56@ 21°C
Power Availability:	+10.0D to +30.0D in 0.5D increments



*iol* **Hydrophilic**



Angulation: 0° Pre-vaulted  
Optic Diameter: 6.0mm  
Overall Length: 12.0mm  
Recommended  
\*A'-Constant: OB-118.9, UB-118.3  
ACD: 4.80  
Refractive Index: 1.46 @ 20° C



\*A'-Constant OB is an estimated value.  
A'-Constant UB is an optimized value. It is recommended that these values be used as guidelines only, and that each surgeon develop his or her own values based on individual experience, equipment, technique and post operative results.

## CIMflex Tc

### Premium Toric IOL correcting cataract and astigmatism in one surgical procedure

- The ideal choice for treating cataract patients with pre-existing corneal astigmatism.
- Available in a variety of cylinder powers.
- Proven CIMflex design ensures rotational stability and excellent centration.
- Provides predictable, stable and precise results for improved visual quality.

Lens Type: Single Piece  
Aspheric Optic  
360° Square Edge

Material: HEMA/MMA,  
UV Blocking Clear

Lens Power: All lens powers are  
measured in aqueous

Optic Design: All positive power  
lenses are square edge  
and biconvex

Sterilization: Steam

Nd: YAG laser compatible

Powers available: +18.0 to +22.0D in 0.5 diopter increments  
Available in cylinders 1.50, 2.25, 3.00, and  
3.75 Diopters <18.0 or >22.0 are available  
on special order



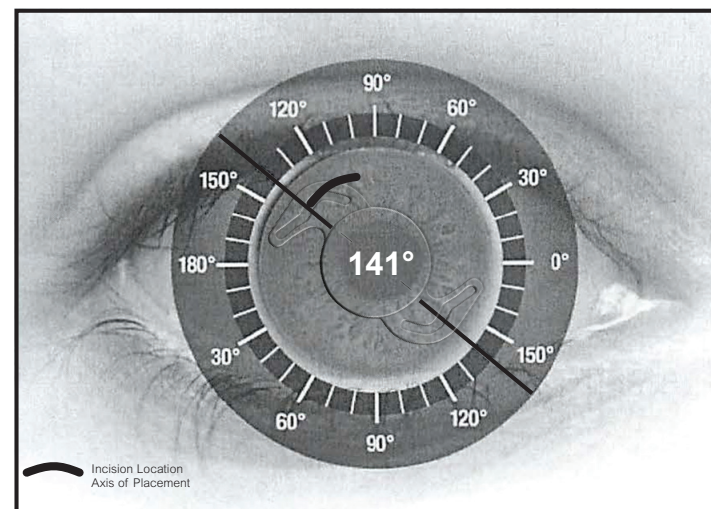
Hydrophilic *iol*

# TORIC

## Calculator

Toric IOL for premium performance during cataract surgery

Access the user friendly calculator  
on the Toric page of the CIMA Website  
[www.cimatechinc.com/toric](http://www.cimatechinc.com/toric)



### Quick and Easy Power Calculation

- CIMA Toric Calculator uses patient details from the planned surgery to suggest the axial placement of the IOL, to minimize postoperative astigmatism.
- Simply enter the biometry, keratometry and corneal topography readings to select the appropriate CIMAflex TC lens.

### Clear and Accurate Result

- Consistent and accurate IOL power recommendation.
- Printable version can be used as the surgical aid.

PROPERTIES	MODEL			
	CIMAflex Tc150	CIMAflex Tc225	CIMAflex Tc300	CIMAflex Tc375
Optic	Biconvex TORIC Aspheric			
Cylinder Power (IOL plane)	1.50	2.25	3.00	3.75
Cylinder Power (Corneal Plane)	1.03	1.55	2.06	2.57
Refractive Index	1.46			
Optic Diameter	6.0 mm			
Overall Length	12.0 mm			



*iol* **Hydrophilic**

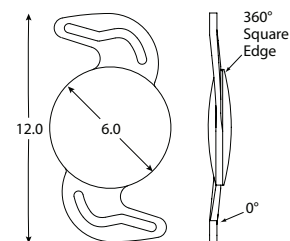
## **CIMflex 42 and CIMflex 42Y**

Lens Type:	Single Piece Aspheric Optic 360° Square Edge
Material - clear:	HEMA/MMA, UV Blocking Clear
Material - yellow:	HEMA/MMA with UV-A and violet absorbing chromophore YELLOW
Lens Power:	All lens powers are measured in aqueous
Optic Design:	All positive power lenses are square edge and biconvex
Sterilization:	Steam
Nd:	YAG laser compatible

\*'A'-Constant OB is an estimated value. 'A'-Constant UB is an optimized value. It is recommended that these values be used as guidelines only, and that each surgeon develop his or her own values based on individual experience, equipment, technique and post operative results.



Angulation:	0° Pre-vaulted
Optic Diameter:	6.0mm
Overall Length:	12.0mm
Recommended *'A'-Constant:	OB-118.9, UB-118.3
ACD:	4.80
Refractive Index:	1.46 @ 20° C
Powers available:	-5.0D to +30.0D in 1.0 diopter increments +16.5D to +24.5D in 0.5 diopter increments

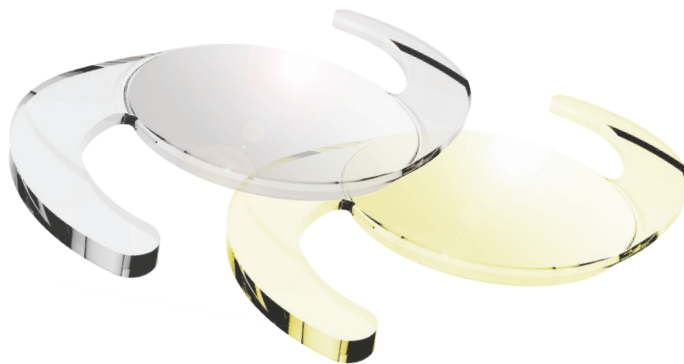




Hydrophilic

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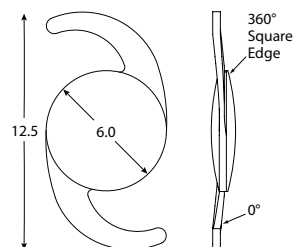
## CIMflex 21 and CIMflex 21Y



Angulation: 0° Pre-vaulted  
Optic Diameter: 6.0mm  
Overall Length: 12.5mm  
Recommended  
\*A'-Constant: OB-118.9, UB-118.3  
ACD: 4.80  
Refractive Index: 1.46 @ 20° C  
Powers available: -5.0D to +30.0D in 1.0 diopter increments  
+16.5D to +24.5D in 0.5 diopter increments

Lens Type: Single Piece  
Aspheric Optic  
360° Square Edge  
Material - clear: HEMA/MMA, UV Blocking  
Clear  
Material - yellow: HEMA/MMA with UV-A  
and violet absorbing  
chromophore YELLOW  
Lens Power: All lens powers are  
measured in aqueous  
Optic Design: All positive power  
lenses are square edge  
and biconvex  
Sterilization: Steam  
Nd: YAG laser compatible

\*A'-Constant OB is an estimated value. A'-Constant UB is an optimized value. It is recommended that these values be used as guidelines only, and that each surgeon develop his or her own values based on individual experience, equipment, technique and post operative results.





*iol* **Hydrophilic**



Lens Type:	Single Piece Aspheric Optic 360° Square Edge
Material - clear:	HEMA/MMA, UV Blocking Clear
Material - yellow:	HEMA/MMA with UV-A and violet absorbing chromophore YELLOW
Lens Power:	All lens powers are measured in aqueous
Optic Design:	All positive power lenses are square edge and biconvex
Sterilization:	Steam
Nd:	YAG laser compatible

\*'A'-Constant OB is an estimated value. 'A'-Constant UB is an optimized value. It is recommended that these values be used as guidelines only, and that each surgeon develop his or her own values based on individual experience, equipment, technique and post operative results.

## CIMflex MICS IOLs

### CIMflex QL and CIMflex QLY

**Excellent surgical outcome**

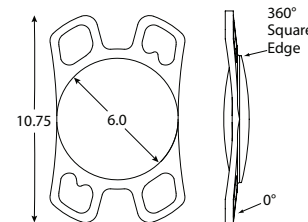
**Maximum patient satisfaction**

**Clear vision, minimum PCO**

**Minimal post-op astigmatism**

- CIMflex QL is designed to be injected through a 1.8mm incision. It offers patients all benefits of micro incision surgery.
- CIMflex QL unfolds smoothly and resists compression forces.
- CIMflex QL platform design delivers long-term stability in the eye.
- The 360 Square Edge design of CIMflex QL minimizes long-term PCO.
- The aspheric optic design of CIMflex QL offers patients excellent contrast sensitivity especially in low-light and night conditions.

Angulation:	0° Pre-vaulted
Optic Diameter:	6.0mm
Overall Length:	10.75mm
Recommended:	
*'A'-Constant:	OB-118.9, UB-118.3
ACD:	4.80
Refractive Index:	1.46 @ 20° C
Powers available:	0 to +30.0D in 1.0 diopter increments +18.5D to +23.5D in 0.5 diopter increments





PMMA *iol*

## PMMA Lenses

**PMMA lenses have stood the test of time. CIMA offers a variety of lens styles made of this proven biocompatible material.**

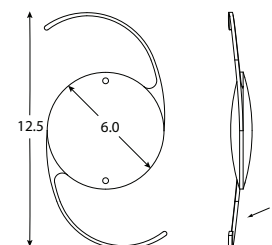
Lens Type:	Single Piece
Material:	Clinical quality PMMA with UV absorber
Lens Power:	All lens powers are measured in air
Optic Design:	All positive lenses are biconvex
Sterilization:	Ethylene Oxide (dry)
Nd:	YAG laser compatible

\*A'-Constant and ACD are estimated values. It is recommended that these values be used as guidelines only, and that each surgeon develop his or her own values based on individual experience, equipment, technique and post operative results.



### PC362 *Posterior Chamber*

Angulation:	3°
Optic Diameter:	6.0mm
Overall Diameter:	12.5mm
Recommended 'A'-Constant/ACD*:	118.2/4.80
Powers available:	-10.0D to +30.0D in 1.0 diopter increments +16.5D to +24.5D in 0.5 diopter increments





480 Davidson Road, Pittsburgh, PA 15239 USA  
Phone (724) 733-2627 Fax (724) 325-4925  
[www.cimatechinc.com](http://www.cimatechinc.com) [info@cimatechinc.com](mailto:info@cimatechinc.com)

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