

**1** BRAND  
TEAM  
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**PORTFOLIO**

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**HIGH DEFINITION IMPLANTS**

E



Leading Technology



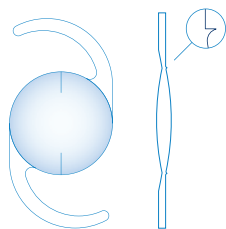
Premium Quality



Customized Service



Global Experience

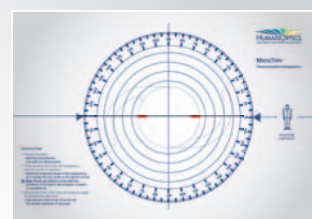
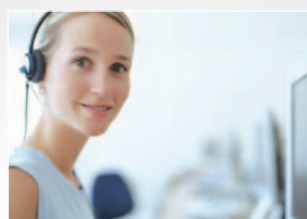


**CAPSULAR BAG**

MODEL	TORICA-aA
Type	Toric posterior chamber IOL, 1-piece, foldable
Optic diameter	6.0 mm
Total diameter	12.5 mm
Material	Hydrophilic MicroCryl®, UV absorber
Optic features	Torical meridional aspheric anterior surface, aberration-free, 360° LEC barrier, HD optic
Haptic shape	C-loop
Estimated A-constant (optical biometry)	118.4 <sup>(1)</sup>
Diopter range	sph: 10.0 to 30.0 D in 0.5 D steps cyl: 1.0 to 6.0 D in 0.5 D steps Extended diopter range on request
Also available as:	MC 6125 T

**PROFESSIONAL SERVICE**

Benefit from our know-how as a longtime, experienced manufacturer of advanced technology for ophthalmological implants.



**MicroTrace:**  
Use our online IOL toric calculator or consult our experts and engineers for precise, individual calculations.  
[www.iol-toric-calculator.com](http://www.iol-toric-calculator.com)  
[www.micro-trace.com](http://www.micro-trace.com)

**MicroTrim:**  
Print your own transparency sheet for each eye to ensure correct IOL positioning during surgery.



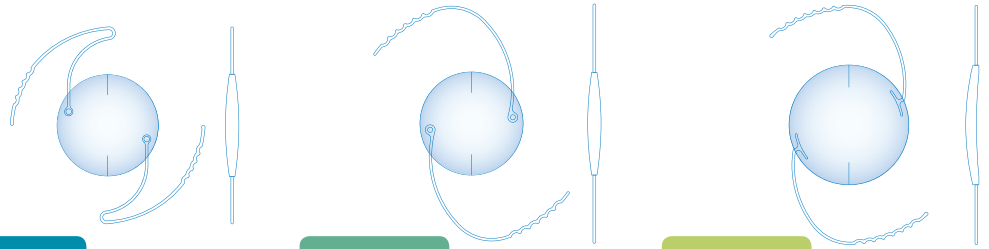
**ALL ADVANTAGES IN ONE LENS DESIGN**

- HD optic achieved by subnano resolution technology
- MICS
- Aberration-free optic
- 360° LEC barrier
- Based on the proven IOL design of the ASPIRA®-aA



The word “aberration” as used in this document refers to “spherical aberration”. It is mandatory to follow the instructions for use contained within the packaging.

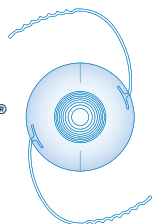
<sup>(1)</sup> For more details, please visit [www.humanoptics.com](http://www.humanoptics.com)



	CAPSULAR BAG	SULCUS	ADD-ON
MODEL	<b>TORICA-s</b> <b>TORICA-sY YELLOW</b>	<b>TORICA-sS</b> <b>TORICA-sSY YELLOW</b>	<b>TORICA-sPB</b> <b>TORICA-sPBY YELLOW</b>
Type	Toric posterior chamber IOL, 3-piece, foldable, blue-light protection optional	Toric posterior chamber IOL for sulcus placement, 3-piece, foldable, blue-light protection optional	Toric Add-On IOL for sulcus placement in pseudophakic eyes, 3-piece, foldable, blue-light protection optional
Optic diameter	6.0 mm	6.0 mm	7.0 mm (effective zone 6.0)
Total diameter	11.6 mm	14.0 mm	14.0 mm
Material	Optic: hydrophobic MicroSil®, UV absorber Haptic: PMMA	Optic: hydrophobic MicroSil®, UV absorber Haptic: PMMA	Optic: hydrophobic MicroSil®, UV absorber Haptic: PMMA
Optic features	Toric posterior surface, 360° sharp posterior edge	Toric posterior surface	Toric anterior surface, iris protection <sup>(2)</sup> , safety profile (back concave)
Haptic shape	Undulated Z-loop	Undulated extended C-loop	Undulated extended C-loop
Estimated A-constant (optical biometry)	118.6 <sup>(1)</sup>	118.0 <sup>(1)</sup>	Not applicable
Diopter range	sph: -30.0 to 34.0 D <sup>(3)</sup> cyl: 1.0 to 30.0 D <sup>(3)</sup>	sph: -30.0 to 34.0 D <sup>(3)</sup> cyl: 1.0 to 30.0 D <sup>(3)</sup>	sph: -30.0 to 6.0 D <sup>(3)</sup> cyl: 1.0 to 30.0 D <sup>(3)</sup>
Also available as:	MS 6116 TU MS 6116 T-Y <b>YELLOW</b>	MS 614 T MS 614 T-Y <b>YELLOW</b>	MS 714 TPB MS 714 TPB-Y <b>YELLOW</b>



Further information in the section:  
**DIFFRACTIVA®**



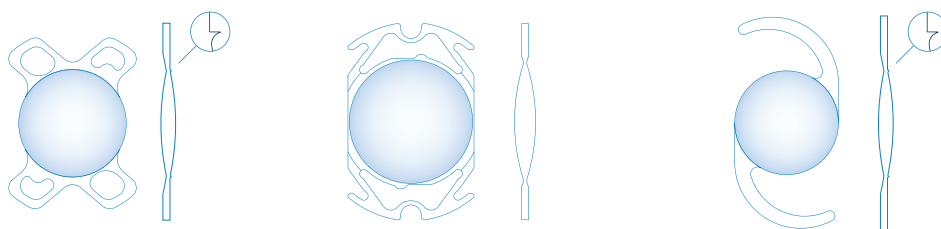
Also available as a multifocal toric model:  
**TORICADIFF-sPBI-Y**

<sup>(2)</sup> Optimized optical design to prevent iris capture

<sup>(3)</sup> Depending on sphero-cylindrical combination

# ASPIRA® MONOFOCAL 1P

## Advanced monobloc platform



CAPSULAR BAG	CAPSULAR BAG	CAPSULAR BAG	ALL THE BENEFITS AT A GLANCE:
ASPIRA-aQA	ASPIRA-aXA	ASPIRA-aA ASPIRA-aAY YELLOW	
Posterior chamber IOL, 1-piece, foldable	Posterior chamber IOL, 1-piece, foldable	Posterior chamber IOL, 1-piece, foldable, blue-light protection optional	<b>HD optic achieved by subnano resolution technology</b> Premium-quality optical surface – for clearer and sharper images.
6.0 mm	7.0 to 5.5 mm	6.0 mm	<b>MICS</b> For safer surgery and better predictability of the refractive results.
10.5 mm	11.0 mm	12.5 mm	<b>Aberration-free optic</b> Suitable for all patients regardless of cornea shape. To preserve depth of field and to enhance contrast sensitivity. <sup>(4)</sup>
Hydrophilic MicroCryl®, UV absorber	Hydrophilic MicroCryl®, UV absorber	Hydrophilic MicroCryl®, UV absorber	<b>360° LEC barrier</b> To prevent PCO.
Aspheric anterior surface, aberration-free, 360° LEC barrier	Bi-aspheric, aberration-correcting, 360° sharp posterior edge, HD optic	Aspheric anterior surface, aberration-free, 360° LEC barrier, HD optic (within the standard diopter range)	
Quattro-haptics	Modified frame haptic	C-loop	
118.7 <sup>(1)</sup>	118.3 <sup>(1)</sup>	118.4 <sup>(1)</sup>	
0 to 9.0 D in 1.0 D steps 10.0 to 30.0 D in 0.5 D steps Extended diopter range on request	-6.0 to 9.0 D in 1.0 D steps 10.0 to 30.0 D in 0.5 D steps 31.0 to 40.0 D in 1.0 D steps Extended diopter range on request	-10.0 to 9.0 D in 1.0 D steps 10.0 to 30.0 D in 0.5 D steps 31.0 to 50.0 D in 1.0 D steps	
MC 6105	MC X11 ASP	MC 6125 AS MC 6125 AS-Y YELLOW Also available with spherical optic: model AS/MC 5812 AS	



### ACCESSORIES FOR OPHTHALMIC SURGERY:



### NANOLUTION – BSS

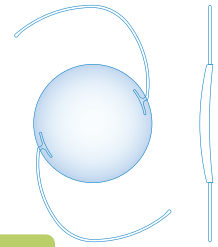
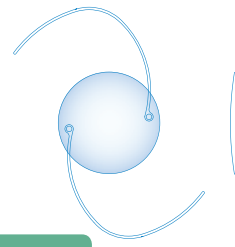
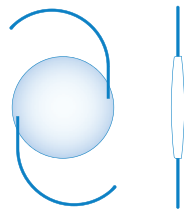
- Sterile eye-irrigation solution (Balanced Salt Solution) Not for intravenous infusion
- 250 ml and 500 ml
- Bottles made from safe plastic material (polypropylene) for easy handling



<sup>(4)</sup> As compared to aberration correcting and conventional spherical IOLs, respectively

# SECURA MONOFOCAL 3P

## Monofocal hybrid platform



CAPSULAR BAG	SULCUS	ADD-ON
<b>SECURA-aA</b>	<b>SECURA-sSA</b> <b>SECURA-sSAY YELLOW</b>	<b>SECURA-sPB</b> <b>SECURA-sPBY YELLOW</b>
Posterior chamber IOL, 3-piece, foldable	Posterior chamber IOL for sulcus placement, 3-piece, foldable, blue-light protection optional	Add-On IOL for sulcus placement in pseudophakic eyes, 3-piece, foldable, blue-light protection optional
6.0 mm	6.0 mm	7.0 mm
12.0 mm	14.0 mm	14.0 mm
Optic: hydrophilic MicroCryl®, UV absorber Haptic: blue PES	Optic: hydrophobic MicroSil®, UV absorber Haptic: PMMA	Optic: hydrophobic MicroSil®, UV absorber Haptic: PMMA
Aspheric posterior surface, aberration-free, 360° sharp posterior edge <b>HD optic</b>	Aspheric posterior surface, aberration-correcting	≈ Aberration-free, iris protection <sup>(2)</sup> , safety profile (back concave)
C-loop	Extended C-loop	Extended C-loop
118.6 <sup>(1)</sup>	118.0 <sup>(1)</sup>	Not applicable
10.0 to 30.0 D in 0.5 D steps	7.0 to 31.0 D in 0.5 D steps 32.0 to 40.0 D in 1.0 D steps	-6.0 to 6.0 D in 0.5 D steps <sup>(5)</sup>
<b>MC3P 612</b>	<b>MS 614 ASP</b> <b>MS 614 ASP-Y YELLOW</b>	<b>MS 714 PB</b> <b>MS 714 PB-Y YELLOW</b>

### NANOVISC – VISCO 2000

- Isotonic viscoelastic solution based on HPMC
- 2.0% ±0.2% hydroxypropyl methylcellulose in buffered physiological solution with pH 7.2 ±0.4
- 69 600 mPas (zero shear viscosity)
- 1 300 000 Daltons
- 1.5 ml
- 23 gauge

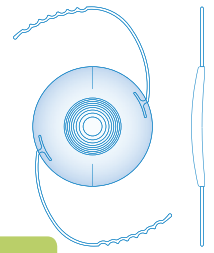
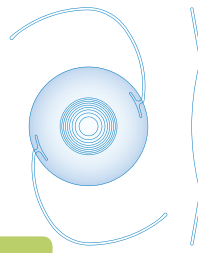
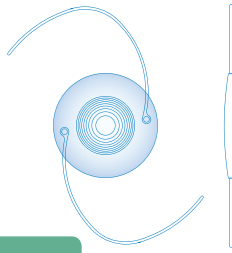
### NANOVISC – NALURON

- Isotonic viscoelastic solution based on NaHA
- 1.7% ±0.3% sodium hyaluronate in buffered physiological solution with pH 7.2 ±0.4
- 77 700 mPas (zero shear viscosity)
- 1 800 000 Daltons
- 1 ml
- 27 gauge

<sup>(5)</sup> No 0.0 power available for the SECURA®-sPB

# DIFFRACTIVA® MULTIFOCAL 3P

For comfortable vision at all distances:  
multifocal special solutions



SULCUS

ADD-ON

ADD-ON

**DIFF-sS**  
**DIFF-sSAY YELLOW**

**DIFF-sPB**  
**DIFF-sPBY YELLOW**

**TORICADIFF-sPB**  
**TORICADIFF-sPBY YELLOW**

Multifocal posterior chamber IOL for sulcus placement, 3-piece, foldable, blue-light protection optional

Multifocal Add-On IOL for sulcus placement in pseudophakic eyes, 3-piece, foldable, blue-light protection optional

Toric multifocal Add-On IOL for sulcus placement in pseudophakic eyes, 3-piece, foldable, blue-light protection optional

6.0 mm

7.0 mm

7.0 mm (effective zone 6.0)

14.0 mm

14.0 mm

14.0 mm

Optic: hydrophobic MicroSil®, UV absorber  
Haptic: PMMA

Optic: hydrophobic MicroSil®, UV absorber  
Haptic: PMMA

Optic: hydrophobic MicroSil®, UV absorber  
Haptic: PMMA

Central diffractive, aspheric anterior surface, aberration-**correcting**

Central diffractive anterior surface, ≈ aberration-**free**, iris protection<sup>(2)</sup>, safety profile (back concave)

Central diffractive anterior surface, toric posterior surface, ≈ aberration-**free**, iris protection<sup>(2)</sup>, safety profile (back concave)

Near addition +3.5 D<sup>(6)</sup>

Near addition +3.5 D<sup>(6)</sup>

Near addition +3.5 D<sup>(5)</sup>

Extended C-loop

Extended C-loop

Undulated extended C-loop

118.0<sup>(1)</sup>

Not applicable

Not applicable

10.0 to 30.0 D in 0.5 D steps

-6.0 to 6.0 D in 0.5 D steps

sph: -2.5 to 1.0 D in 0.5 D steps  
cyl: 1.0 to 4.0 D in 0.5 D steps

MS 614 DIFF  
MS 614 DAY **YELLOW**

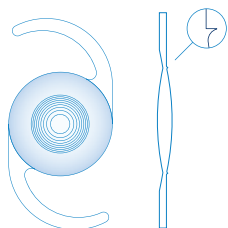
MS 714 PB DIFF  
MS 714 PB DIFF-Y **YELLOW**

MS 714 TPB DIFF  
MS 714 TPB DIFF-Y **YELLOW**



# DIFFRACTIVA® MULTIFOCAL 1P

For comfortable vision at all distances:  
near – intermediate – far



CAPSULAR BAG

MODEL	DIFF-aA DIFF-aAY <b>YELLOW</b>
Type	Multifocal posterior chamber IOL, 1-piece, foldable, blue-light protection optional
Optic diameter	6.0 mm
Total diameter	12.5 mm
Material	Hydrophilic MicroCryl®, UV absorber
Optic features	Central diffractive aspheric anterior surface, aberration-free, 360° LEC barrier, <b>HD optic</b>  Near addition +3.5 D <sup>(6)</sup>
Haptic shape	C-loop
Estimated A-constant (optical biometry)	118.4 <sup>(1)</sup>
Diopter range	sph: 10.0 to 30.0 D in 0.5 D steps
Also available as:	MC 6125 DIFF MC 6125 DAY <b>YELLOW</b>



The refractive outer structure of the IOL provides sharp distance vision like a standard monofocal lens.



A +3.5 D near addition offers enhanced reading comfort at the distance of approximately 40 cm.



## EFFICIENT LIGHT-DISTRIBUTION CONCEPT

- Balanced light distribution between the distance and near foci for everyday needs.
- Under mesopic and scotopic lighting conditions, more light is permitted to come through the peripheral refractive zone of the IOL, thus favoring distance vision.
- The diffractive zone with gradual tapering of the diffractive steps is limited to the center of the IOL; therefore photic phenomena are reduced to a minimum.
- Under photopic conditions, light is equally balanced to the far and near foci.



<sup>(6)</sup> At IOL plane

# ARTIFICIAL IRIS CUSTOM-MADE

For complete and partial aniridia

## ARTIFICIAL IRIS with Fiber



For cases where suturing  
**is** indicated

## ARTIFICIAL IRIS Fiber Free



For cases where suturing  
**is not** indicated

- Individual color composition
- Small-incision iris prosthesis
- Pigmented silicone elastomer with polymer fiber meshwork
- Diameter of the implant ( $\varnothing = 12.8$  mm) can be individually trephined
- For further information, please contact our qualified team of experts

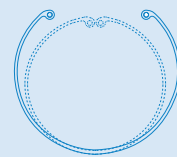


For more details, please visit [www.artificial-iris.com](http://www.artificial-iris.com)

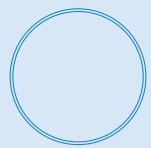
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**MICROPLEX**® CAPSULAR TENSION RING  
**MICROKER**® CORNEA RINGS for permanent implantation



MICROPLEX®



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