



PRODUCT MANUAL

INTEROJO **High Definition Vision Lens** technology effectively controls spherical aberration for crisper, sharper and clear vision

INTEROJO

The Leading Vision Care Innovator

Company History

INTEROJO

- **2020. Nov** Established the Third Factory
- **2016. Jun** Selected as a Member of World Class 300 Enterprise by Korean Government
- **2016. Mar** Established China Branch Office
- **2014. Jul** Selected as Asia's 200 Best Under a Billion US \$ by Forbes Asia
- **2012. Dec** 20 million dollars Export Award
- **2012. Mar** Established the Second Factory
- **2010. Nov** 10 million dollars Export Award
- **2010. Jul** Listed on KOSDAQ(Korean Securities Dealers Automated Quotations)
- **2009. Dec** PCT (Patent Cooperation Treaty) and EPC (European Patent Convention)
Patent pending technology - Hydrogel contact lenses having improved wettability
- **2008. Dec** United States 510(K) cleared - 55% Methafilcon A
- Single vision, Toric, Multifocal soft contact lens
- **2007. Apr** Acquired Patent of Contact Lens for cure
- **2006. Oct** Moved to a New Factory
- **2005. May** Approved for conformity of the quality control for medical device (GMP)
(by Korea Food & Drug Administration)
- **2004. Aug** Selected as the model of a small & medium business enterprise with technical innovation
(Inno-Biz) (by Small and Medium Business Administration)
- **2003. Apr** Acquired KGMP (Korean Pharmaceutical Manufacturers Association)
Certification (by Korea Food & Drug Administration)
- **2001. Dec** United States 510(K) cleared
- Polymacon Material
- Single vision, Color, Toric, Multifocal, Toric Multifocal Soft Contact Lens
- **2001. Oct** Acquired CE0120, ISO-9001, EN46002 Certification
- **2000. Dec** Registered manufactory facilities



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Blue-light Blocking Soft Contact Lens

Silicone Hydrogel

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Silicone Hydrogel

Clalen O2O2 1-Day

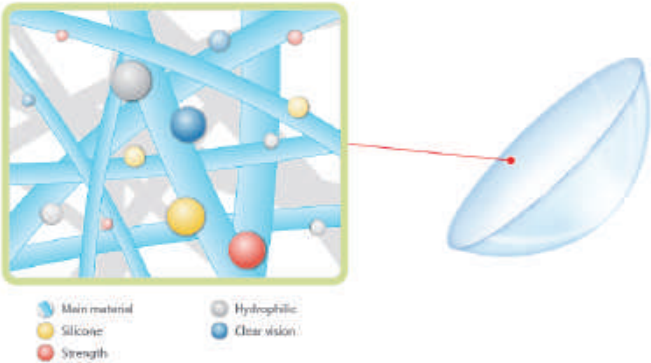
INTEROJO's own material-based silicone hydrogel lens provides comforts and makes eyes healthy with high DK and high water content through INTEROJO's innovative GrabSoo technology.



Base Curve	8.6 mm
Diameter	14.2 mm
Power	-6.00 to +6.00 (0.25 step) -10.00 to -6.00 (0.50 step)
UV A transmission rate %	< 10%
UV B transmission rate %	< 1%
DK	100
Center Thickness @-3.00	0.07 mm
DK/t	142
Water Content	54%
Material	Silicone Hydrogel
Feature	Grabsoo Technology HD Vision Aspheric Design

Feature

GrabSoo™ Technology



Hydrophilic Polymers grab each other tight like LEGO blocks. This combination lowers the contact angle and increases surface lubricity, which leads to the utmost comfort. Also, these combined polymers keep the water and prevent the cornea from protein disposition.

Silicone Hydrogel

Clalen O202 Color 1-Day

Clalen O202 1-Day is made of silicone hydrogel material that provides vision correction with high DK rate. With soft and natural colors and clear circle line, your eyes look more sophisticated and attractive.



Color	Sepia Choco EX, Ash Brown EX, Ash Gray EX, Blending Hazel EX, Blending Rose EX
Base Curve	8.6 mm
Diameter	14.2 mm
Power	0.00, -0.50~ -0.50 (0.25 step) -5.50~ -10.00 (0.50 step)
UV A transmission rate %	< 9.5%
UV B transmission rate %	< 0.95%
DK	70
Center Thickness @-3.00	0.054mm
DK/t	130
Water Content	45%
Material	Silicone Hydrogel
Feature	Grabsoo Technology HD Vision Aspheric Design DSSL Technology

Colors



Sepia Choco



Ash Brown EX



Ash Gray EX

Blending
Hazel EXBlending
Rose EX

Silicone Hydrogel

Clalen O2O2

INTEROJO's own material-based silicone hydrogel lens provides comforts and makes eyes healthy with high DK and high water content through INTEROJO's innovative GrabSoo technology.



Base Curve	8.6 mm		
Diameter	14.2 mm		
Power	+8.00 ~ +6.50 (0.50 step) +6.00 ~ -6.00 (0.25 step) -6.50 ~ -12.00 (0.50 step)	S.P : +6.00 ~ -6.00 (0.25 step) -6.50 ~ -12.00 (0.50 step) C.P : -0.75, -1.25, -1.75, -2.25, -2.75 Axis : 10° ~ 180° (Every 10 degree)	+6.00 ~ -5.50 (0.50 step) +5.00 ~ -6.00 (0.25 step) -6.50 ~ -12.00 (0.50 step) Add : +1.00 ~ +2.50 (0.50 step)
UV A transmission rate %	< 9.5 %		
UV B transmission rate %	< 0.95 %		
DK	70		
Center Thickness @-3.00	0.054mm	0.093mm	0.070mm
DK/t	130	75.27	100
Water Content	45%		
Material	Silicone Hydrogel		
Feature	Grabsoo Technology HD Vision Aspheric Design		

Silicone Hydrogel

Clalen O2O2 Color M

Clalen O2O2 Color M is made of silicone hydrogel material that provides vision correction with high DK rate. With soft and natural colors and clear circle line, your eyes look more sophisticated and attractive.



Color	Natural Brown EX, Natural Gray EX, Natural Chocolate EX, Mysti Gray EX, Mysti Khaki EX
Base Curve	8.6 mm
Diameter	14.2 mm
Power	-0.00~ -6.00 (0.25 step) -6.50~ -9.00 (0.50 step)
UV A transmission rate %	< 9.5%
UV B transmission rate %	< 0.95%
DK	70
DK/t	108
Water Content	45%
Material	Silicone Hydrogel
Feature	Grabsoo technology HD Vision Aspheric Design

Colors



Natural Brown EX



Natural Gray EX

Natural
Chocolate EX

Mysti Gray EX



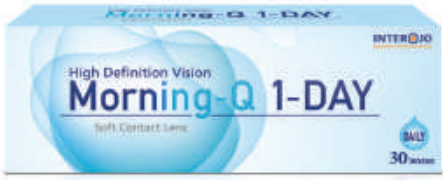
Mysti Khaki EX

Hydrogel

Clalen 1Day / Morning Q 1Day

INTEORJO's Hydrogel 1Day Clear lenses are extra comfortable with ASSL technology along with three different materials. Bioxifilcon with Hyaluronic Acid, Hioxifilcon with GMA, Methafilcon that proved its stability across the globe

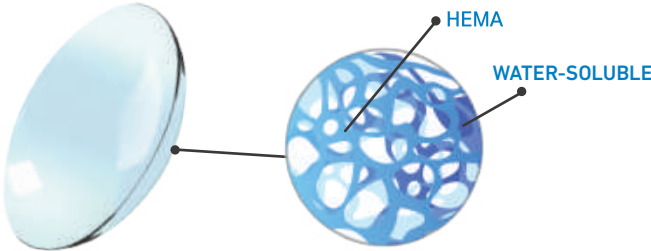
1)Hyaluronic acid: It naturally lies in the vitreous body of eyes, joints, placenta, and skin and has a moisture-binding ability.



Base Curve	8.6 mm		
Diameter	14.2 mm		
Power	+6.00 ~ -6.00 (0.25 step) -6.50 ~ -12.00 (0.50 step)		+6.00 ~ -6.00 (0.25 step) -6.50 ~ -10.00 (0.50 step)
UV A transmission rate %	< 30%		< 45%
UV B transmission rate %	< 5%		< 4.5%
Water Contents	58 %	58 %	55 %
Material	Bioxifilcon A	Hioxifilcon A	Methafilcon A
Feature	UltraSoo Technology HD Vision Aspheric Design ASSL Technology	HD Vision Aspheric Design ASSL Technology	HD Vision Aspheric Design ASSL Technology

Feature

ASSL Aqua Safety Shield Layer



ASSL - applied contact lens is more hydrophilic, has more reduced contact lens angle, and has more smoother surface with less protein deposition than the uncoated contact lens

Hydrogel

Morning Q Ultra Soo 55 / Morning Q 55UV / Clalen 55S

INTEROJO's Hydrogel FRP Clear lenses provide excellent fit by three different kinds of materials. Bioxifilcon with Hyaluronic Acid, Hioxifilcon with GMA, Methafilcon that proved its stability across the globe.

1)Hyaluronic acid: It naturally lies in the vitreous body of eyes, joints, placenta, and skin and has a moisture-binding ability.



Base Curve	8.6 mm		
Diameter	14.2 mm		
Power	+8.00 ~ +6.50 (0.50 step) +6.00 ~ -6.00 (0.25 step) -6.50 ~ -12.00 (0.50 step)		+12.00 ~ +6.50 (0.50 step) +6.00 ~ -6.00 (0.25 step) -6.50 ~ -20.00 (0.50 step)
UV A transmission rate %	≤ 85%		< 85%
UV B transmission rate %	≤ 80%		< 40 %
Water Contents	55 %		55 %
Material	Bioxifilcon B	Hioxifilcon D	Methafilcon A
Feature	HD Vision Aspheric Design		

Feature

Ultra-Soo lens Sodium Hyaluronate Lens

Ultra Soo is an Interojo's patented technology that employs Sodium Hyaluronate, which is the most moisture-absorbent molecules. By adding Sodium Hyaluronate with other raw materials including HEMA, the contact lens with Ultra Soo Technology provides excellent comfort with optimum wetting and all-day hydration.



+



=



Lens

Hyaluronate Acid

Combination

Ultra Soo Lens

Hydrogel

Clalen Astra Glitter / Estelle

Clalen Astra Glitter is a design inspired by subtle images of flowers, decorated by gold red pearl. Clalen Astra Estelle allows you to experience the sparkling and natural eyes by the combination of a subtle expression of pearl and gradation edge.



Color	Glitter, Estelle Brown, Estelle Gray
Base Curve	8.6 mm
Diameter	14.2 mm
Power	-0.00~-6.00 (0.25 step) -6.50~ -10.00 (0.50 step)
UV A transmission rate %	< 30%
UV B transmission rate %	< 5%
DK	20
DK/t	20
Water Content	55%
Material	Methafilcon A
Feature	HD Vision Aspheric Design DSSL Technology ASSL Technology

Colors



Glitter



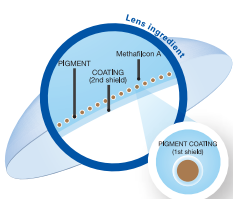
Estelle Brown



Estelle Gray

Feature

D.S.S.L Technology [Dual Safety Shield Layers] : Interjo's color 1-day Printing Technology



Pigment printing diagram



Cross sectional image of Color 1-Day Lens

How pigment does not touch the eye

1. Ultra Clear HEMA coats printed part and builds an extra layer
2. Coated pigments initially form a shield

* Ultra Clear HEMA : HEMA produced by PBH (Pre-Bonding-HEMA method)

Hydrogel

Clalen Iris 1Day

Clalen Iris 1Day is a design that divides pupil and iris and enhances your look with naturally radiant eyes. It is safe because the color pigments do not directly touch the eyes, and you can enjoy different looks with colors you want every day.



Color	Jazz Black, Soul Brown, Rhapsody, Latin, Blue Moon, Alice Brown, Suzy Gray, Suzy Brown
Base Curve	8.6 mm
Diameter	14.2 mm
Power	-0.00~-6.00 (0.25 step) -6.50~-10.00 (0.50 step)
UV A transmission rate %	< 47.5%
UV B transmission rate %	< 4.75%
DK	20
DK/t	20
Water Content	55%
Material	Methafilcon A
Feature	HD Vision Aspheric Design DSSL Technology ASSL Technology

Colors



Jazz Black



Soul Brown



Rhapsody



Latin



Blue Moon



Alice Brown



Suzy Gray



Suzy Brown

Hydrogel

Clalen Iris 1Day Toric

Clalen Iris 1Day Toric provides an opportunity for customers with astigmatic conditions to wear natural color lenses with vision correction. With combined technologies of INTEROJO, comfort and safety are assured as well as accurate correction.

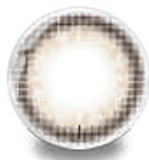


Color	Alicia Brown, Halo Brown, Halo Gray
Base Curve	8.6 mm
Diameter	14.2 mm
Power	S.P : 0.00, 0.50 ~ -6.00 (0.25 step) -6.50 ~ -9.00 (0.50 step) C.P: -0.75, -1.25, -1.75 Axis : 180
UV A transmission rate %	< 47.5%
UV B transmission rate %	< 4.75 %
Water Content	55%
Material	Methafilcon A
Feature	HD Vision Aspheric Design DSSL Technology ASSL Technology

Colors



Alicia Brown



Halo Brown



Halo Gray

Hydrogel

Morning Q Toric

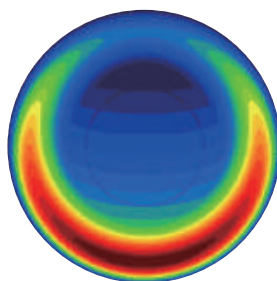
Morning Q Toric is available at a wide range, meeting the needs of the customers with various astigmatic conditions with clear vision correction.



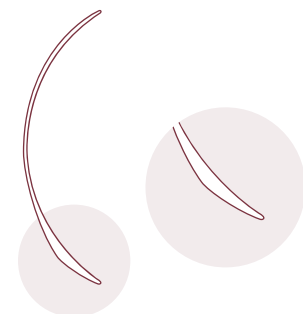
Base Curve	8.6 mm	
Diameter	14.0 mm	14.2 mm
Power	S.P : 0.00 ~ -6.00 (0.25 step) -6.50 ~ -10.00 (0.50 step) C.P : -0.75, -1.25, -1.75, -2.25, -2.75, -3.25 Axis : 10, 20, 30, 80, 90, 100, 150, 160, 170, 180	S.P : +6.00 ~ +4.50 (0.50 step) +4.00 ~ -6.00 (0.25 step) -6.50 ~ -12.00 C.P : -0.75, -1.25, -1.75, -2.25 Axis : 10 ~180 (Every 10 degree)
UV A transmission rate %	< 47.5%	< 85%
UV B transmission rate %	< 4.75%	< 40%
Water Content	38%	55%
Material	Polymacon	Hioxifilcon D
Feature	HD Vision Aspheric Design	

Feature

Prism Ballast Design



The prism ballast design offers stable axis calibration by ballasting with the thick lower hemisphere and the thin upper hemisphere



Smooth streamlined curve of the prism designed to offer soft fit

Hydrogel

Clalen Iris M / Clalen Vuticle / ADRIA

Color contact lenses of Interojo offer a variety of colors that naturally enhance your beauty with comfort.



Base Curve	8.6 mm		
Diameter	14.0 mm	14.2 mm	14.2 mm
Power	-0.00~ -6.00 (0.25 step) -6.50~ -10.00 (0.50 step)		
UV A transmission rate %	< 47.5%	≤ 85%	< 47.5%
UV B transmission rate %	< 4.75%	≤ 40%	< 4.75%
Water Contents	38 %	43 %	55 %
Material	Polymacon	Poly HEMA	Methafilcon A
Feature	HD Vision Aspheric Design		

Colors

New Fusion

3 Tone



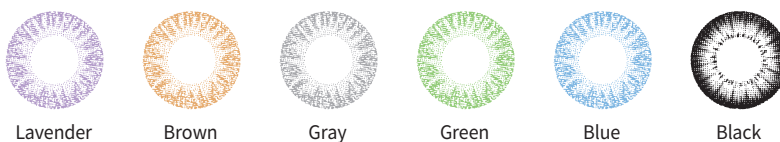
New Fusion

2 Tone



New Fusion

1 Tone



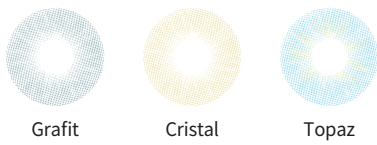
CLC10



CLC20



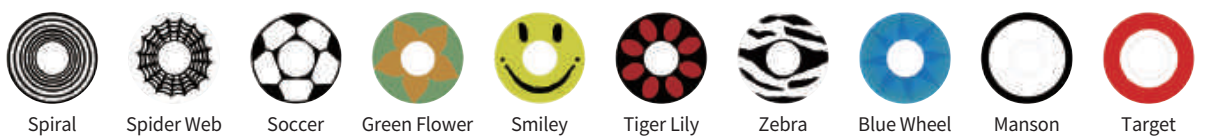
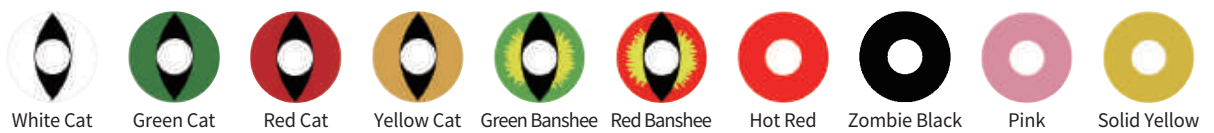
CLC30



CLC40



Crazy Lens



Hydrogel

Morning Q 38 / Morning Q UV55

The conventional lenses for long-term use employ HD Vision technology to offer more accurate and clear vision



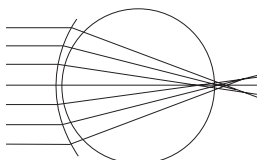
Base Curve	8.6 mm	
Diameter	14.0 mm	14.2 mm
Power	+20.00 ~ +6.50 (0.50 step) +6.00 ~ -6.00 (0.25 step) -6.50 ~ -20.00 (0.50 step)	+12.00 ~ +6.50 (0.50 step) +6.00 ~ -6.00 (0.25 step) -6.50 ~ -20.00 (0.50 step)
UV A transmission rate %	N/A	N/A
UV B transmission rate %	N/A	N/A
Water Contents	38 %	55 %
Material	Polymacon	Hioxifilcon D / Methafilcon A
Feature	HD Vision Aspheric Design	

Feature

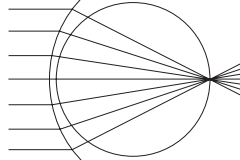
High Definition Vision Lens

The Interojo's High Definition Vision Lens, unlike other aspheric lens in the market, incorporates the ideal aspheric curvature for each soft lens power and thickness and compensate for aberration caused by lens flexure on the eye. This results in improved visual acuity at all distance, as well as increased depth of field, reduced refractive astigmatism and improved contrast sensitivity, providing crisper, sharper and clearer vision.

• Vision with Conventional Soft Lens



• Vision with High Definition Lens



Certificate

CE / ISO /
Patent

Quality management system



KGMP



ISO 13485:2016



MDSAP (ISO13485:2016)

Enviromental management system



ISO 14001:2015

Patent

- High Definition Vision technology (USA)
- Ultra-Soo technology (Hydrogel Contact Lenses Having Improved Wettability) (USA)

Certification by country



MFDS(Korea)



FDA(USA)



CE(EU)



CFDA(China)



PMDA(Japan)



GOST(Russia)

Blue-light Blocking

Silicone Hydrogel Blue-light Blocking Lens

Silicone Hydrogel 1Day Clear

Silicone Hydrogel Monthly Clear

Base Curve	8.6 mm	8.6 mm
Diameter	14.2 mm	14.2 mm
Power	+6.00 ~ -6.00 (0.25 step) -6.50 ~ -12.00 (0.50 step)	+6.00 ~ -6.00 (0.25 step) -6.50 ~ -12.00 (0.50 step) +6.50 ~ +8.00 (0.50 step)
Ultraviolet Radiation	Class 1 absorber	Class 1 absorber
Water Contents	45% / 54% / 60%	45 %
Material	Silicone Hydrogel	Silicone Hydrogel
Feature	HD Vision Aspheric Design GrabSoo Technology	HD Vision Aspheric Design GrabSoo Technology

Silicone Hydrogel 1Day Color

Silicone Hydrogel Monthly Color

Base Curve	8.6 mm	8.6 mm
Diameter	14.2 mm	14.2 mm
Power	0.00 ~ -6.00 (0.25 step) -6.50 ~ -10.00 (0.50 step)	0.00 ~ -6.00 (0.25 step) -6.50 ~ -10.00 (0.50 step)
Ultraviolet Radiation	Class 1 absorber	Class 1 absorber
Water Contents	45 %	45 %
Material	Silicone Hydrogel	Silicone Hydrogel
Feature	HD Vision Aspheric Design GrabSoo Technology	HD Vision Aspheric Design GrabSoo Technology

Feature



- Inserting only blue light blocking functionality into the optics is key technology
- Applied Optimal Optics Printing Outer Diameter of 8mm
 - Covers the maximum size of the pupil (in the dark)
 - Maintains aesthetics with color areas smaller than the size of the iris
- Blue light blocking rate 16% \pm 5% from 400 to 450nm

Blue-light Blocking

Clalen Freedom 380

Clalen Freedom 380 selectively blocks the blue light through the yellow color in the center of the lens. Entire visible light is transmitted through the rest of the uncolored part to ensure a clear vision and aesthetic appearance when it is worn.

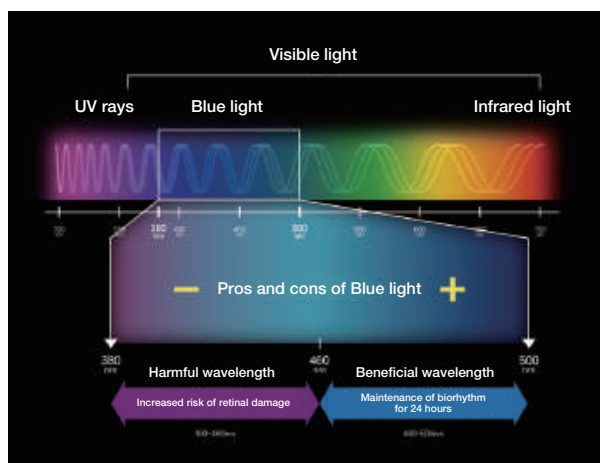


Methafilcon 1Day Clear

Methafilcon Monthly Clear

Base Curve	8.6 mm	8.6 mm
Diameter	14.2 mm	14.2 mm
Power	+6.00 ~ -6.00 (0.25 step) -6.50 ~ -10.00 (0.50 step)	+6.00 ~ -6.00 (0.25 step) -6.50 ~ -20.00 (0.50 step)
Ultraviolet Radiation	Class 2 absorber	Class 2 absorber
Water Contents	55 %	55 %
Material	Methafilcon A	Methafilcon A
Feature	HD Vision Aspheric Design ASSL Technology	HD Vision Aspheric Design ASSL Technology

Feature



Blue light is a range of the visible light spectrum, defined having a short wavelength between 400 to 450nm with high energy Blue light penetrates the lens and adversely affect retinal Epithelial cells (Macular degeneration, Eye strain Decreased vision, etc). When protected by Freedom 380, it blocks the high energy blue light and significantly reduces aging of the retina.



INTEROJO

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