



Digitally designed corrective lens for children
to improve visual concentration

CLEARi Junior

CLEARi Junior is a functional lens for children and youth. Retina Light Tracing System developed through clinical studies is architected into the lens design to determine the entrance of light and to reduce the stimulation for accommodation on near objects - thus slowing down myopic progression.

» Technology



Junior Retina Light Tracing System

- Designed with a system of tracking the entrance of light at the specific eye levels of children and youth
- Slows down the rate of myopia progression by mitigating the adjustment needed for near objects. (Design validated through clinical tests.)



Life Style Optimization

- Increased visibility with automatic compensation for the peripheral aberration induced by the eye movement based on Listing's Law
- Reinforced distance zone to match the wearer's lifestyle



User Power

- Dynamically optimized power through specific design calculations resulting in a wide field of view for the wearer
- Power compensated to the needs of the wearer for the most natural comfort



Real View Technology

- Superior vision improvement through natural lines of sight utilizing clinical data on ocular movements that lets the wearer forget that he or she had even been wearing glasses



Frame Shape Optimization

- Prescribed astigmatism optimized utilizing the frame data
- Advanced FSO technology that extrudes aberration outside the viewing zone



Atoric Design

- Peripheral distortion minimized to provide clear vision with an aspheric lens design that calculates every omnidirectional meridians of the lens

» Coating package

**CLEARi ULTRACLEAR AR**

Your sensory perception begins with your eyes; protect it



Hydrophobic



Oleophobic



Enhanced
abrasion
resistance



Anti-glare



Anti-static



Enhanced
heat resistance



Enhanced
impact
resistance



The coating is formed through layers of vacuum vapor deposition that prevents oil, water, fingerprints from sticking onto the surface of the lens while enhancing its impact resistance for the wearer to experience clear vision even during prolonged use. Maintenance and cleaning lenses worn during outdoor activities becomes especially easier with **CLEARi's UltraClear AR coating**.

» Features

	Frame Shape Optimization	Center-Thickness Optimization	Superior Balance Design	Enhanced Near Vision Design	Enhanced Distance Vision Design	Inset Optimization	World Class Custom Design
Junior	✓	✓	✓	✓	✓		



* Frame Shape Optimization

- Experience ultimate clarity with the prescription optimized to match the frame shape
- Frame shape data utilized to reduce distortion and aberration within the shape



* Center-Thickness Optimization

- Ideal center-thickness with the Backside Free-form Technology
- Thinner and lighter compared to conventional progressive lenses



* Superior Balance Design

- Balanced vision in all viewing zones provides optimal visibility
- Wider and comfortable overall vision in all gaze directions



* Enhanced Distance Vision Design

- Provides wider, clearer vision by calculating the meridians in the distance zone based on Listing's Law
- Designed to remove aberration when looking at distant objects for a wider distance vision



* Enhanced Near Vision Design

- Wider near and intermediate fields of view offers comfort when reading or working on desktop/tablet pcs
- Sharper distance vision provided by incorporating the natural, physiological eye movement data into the lens design

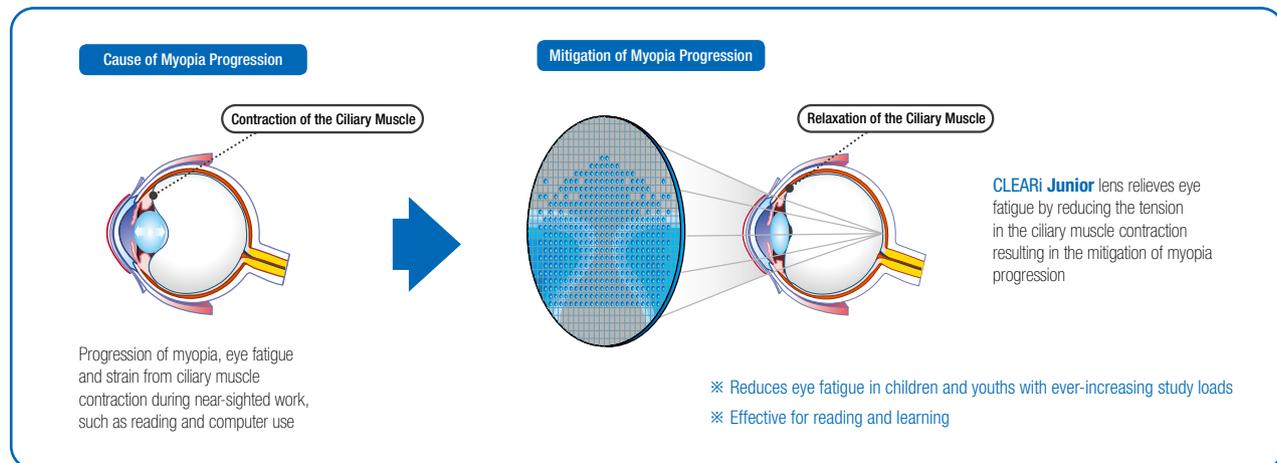
» Advantages

For customers who spend long periods of time in front of LCD screens, such as smartphones and computers, or reading

For customers with accommodative insufficiencies

For customers who lose concentration while reading

- > State-of-the-art Backside Freeform Design
- > Relieves myopia with Junior Retina Light Tracing Technology
- > Visual comfort in both the distance and near viewing zones with Junior's superior optical conditions
- > Natural comfort and fit with User Power Technology



Cause of Myopia Progression and mitigation

» Lens Design Information

Position of Wear	Default Values Applied
Corridor	14mm
Addition	+0.75D ~ +2.50D
Inset	2.5mm standard
Coating	UltraClear AR Blue Block AR
Tint	Optional
Prism	0.5 ~ 5.0△

※ Optimal Lens Design for Children and Youths: **CLEARi Junior**

Through 3 different elemental studies, the myopia progression rate is reduced in children and youths who spend longer periods of time reading books and looking at LED screens wearing CLEARi Junior functional lens.

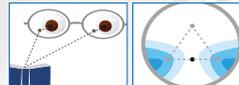
Near Vision Eye Shape Analysis

Reduces adjustment amount and provides natural near vision by computing the eye shape, gaze, and movements of the head and eye



Peripheral Vision Analysis

Provides superior comfort and wear by calculating into the lens design the optimal binocular balance by measuring the nose and eye levels based on the optical center



Behavioral Pattern Analysis

Implements behavioral patterns and activities of children and youths into the lens design



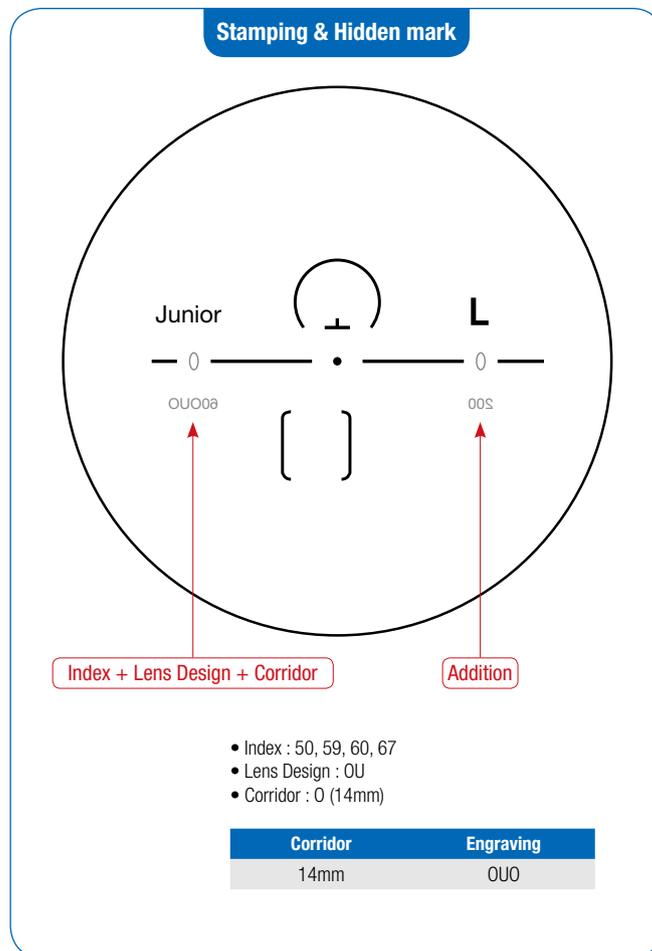
» Availability

CLEARi Junior

(ADD : +0.75D ~ +2.50D, Corridor : 14mm)

Index	Material	Power Range	Max Cylinder	Color
1.50	PLASTIC	-6.00 to +6.00	-4.00	option
1.59	Polycarbonate	-6.00 to +6.00	-4.00	N/A
1.60	PLASTIC	-10.00 to +8.00	-5.00	option
1.67	PLASTIC	-10.00 to +8.00	-6.00	option

Options
Tints (solid, gradient) - not available for polycarbonate
Prism 0.50 ~ 5.00△
Base curve selection





Clear Eyes for a Clear Vision

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