

SUNLIGHT

TOKYO OPHTHALMIC LENSES



ENGINEERED BY
LEADING SPECIALISTS
IN THE FIELD OF
OPTICAL MACHINERY &
LENS DESIGNING,
WITH A STRONG FOCUS IN
OPHTHALMIC PREMIUM LENSES.



BRINGING
NEW
SIGHT



KEY STRENGTHS

Extensive experience
with over
35 years of expertise
in
optical manufacturing
& lens software
Development



CUTTING- EDGE LENS DESIGN SOFTWARE & MACHINERY

Strategic Partnership

Sunlight Lens works with both lens design software pioneers and instrument manufacturers with the unique position to push the boundaries of each faculties.

Practical Expertise

CONTINUOUS
INNOVATION

KEY STRENGTHS

The new 4k Technology
offers the worlds'
best balance between
addition & distortion
zone



SUPERIOR OPTICAL QUALITY- LOW ABERRATION

Intelligent Design

By increasing the numbers
of iteration within the
design optimization
algorithm, the 4K
Technology presents an
extremely

**smooth power
transition with high
optical resolution.**

Brilliant, sharp, and
focused vision in a **wider
optical field** is produced.

FREE FORM DESIGN

GREATER CUSTOMER SATISFACTION

*Improved
visual acuity*



SUNLIGHT TOKYO LENS

- **Easy Wearer Adaption**
Balanced lenses with quick and increased wearer adaption rates.
- **Custom to Fit**
Offers maximum degrees of freedom to create your own unique design that is customizable.
- **Minimal Distortion**
Technology reduces lens astigmatic aberration by 30-40% giving highest visual comfort.
- **Specialised Lens Options**
Wide range of functional lenses suited to different visual requirements & life-styles such as :
Office Active, Office Relax, EasyLife, Digital Smart Boost, Dynamic Drive or Dynamic Sports.
, Myopia Control

HARMONISED, WELL
BALANCED
OPTICS

COMFORT

Balanced



COMFORT Balanced progressive lens is designed to optimise visual fields. Design Pro Technology focuses the Balanced ECO designs to offer a clear and comfortable view with well balanced visual fields. **All visual fields are weighted equally** in this design, providing a harmonic transition to the astigmatism areas in the near and the far areas. Distortion is minimised.



ALL DISTANCE EQUAL

Wearer's Benefits:

- + *Balanced in all fields of view*
- + *Greater comfort for office activities*
- + *Fully customized lens*
- + *Easy adaptation between zones*

Ideal for

All kind of office work that requires a balanced progressive lens

Application

Optimized and comfortable balanced view for office work

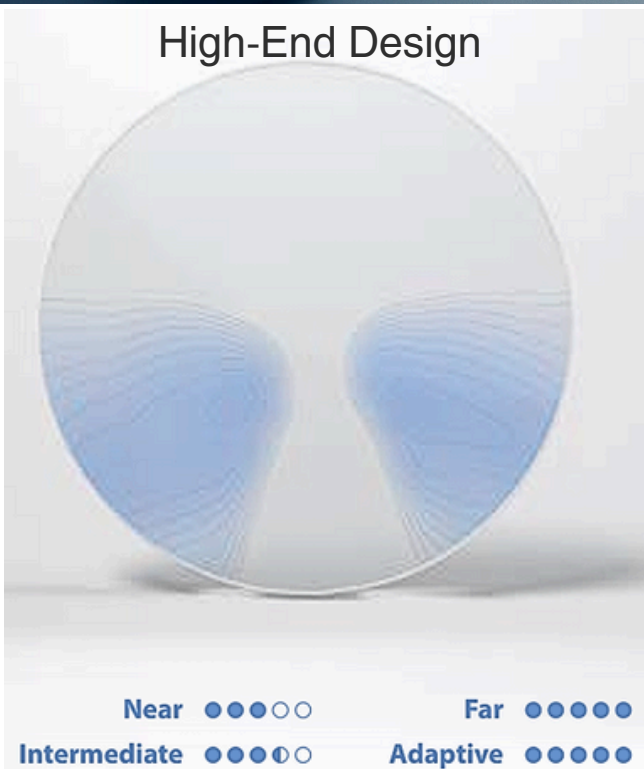
Design Characteristics

Available corridor length	7, 9, 11, 13 mm
Fitting cross position	4 mm
Recommended fitting height	16 – 22 mm
Min. fitting height	15 mm
Inset	2.5 mm
Centering chart (page 55)	A

PREMIUM



High-End Design



Far Pro

Based on the innovative ODP, 4K and the Minimal Distortion Technology. Far Pro is part of our High-End Lens Design family. It reduces distortions to an incredibly low level and creates the ideal lens layout from the wearer's individual parameters.

The result: A premium lens with exceptional distance vision performance with low levels of blur, practically immediate adaptation as well as high-definition and stable image quality.

FAR FOCUSED

Wearer's Benefits:

- + Superior focus & reduced eyestrain
- + Excellent far distance view
- + Highest comfort
- + Fully customized lens
- + Easy adaptation between zones

Ideal for

Experienced wearers looking for a premium lens with exceptional distance vision and unparalleled image stability

Application

Suitable for any distance visual activities such as watching movies, walking/jogging, travelling and enjoying landscapes

Design Characteristics

Available corridor length	5 – 13 / 1 mm step
Fitting cross position	4 mm
Recommended fitting height	14 – 22 mm
Min. fitting height	13 mm
Inset	0 – 4 mm
Centering chart (page 55)	B

PREMIUM

Near Pro

A premium progressive with superior and stable image quality for near vision. Powered by the OMD Technology, Near Pro offers superior performance for near distances and unparalleled image stability. The smooth layout enhances comfort and visual quality which provides the wearer with profound wide near vision at minimal distortion levels.



High-End Design



NEAR FOCUSED

Wearer's Benefits:

- + Superior focus & reduced eyestrain
- + Excellent near distance view
- + Highest comfort
- + Fully customized lens
- + Easy adaptation between zones

Design Characteristics

Available corridor length	5 – 13 / 1 mm step
Fitting cross position	4 mm
Recommended fitting height	14 – 22 mm
Min. fitting height	13 mm
Inset	0 – 4 mm
Centering chart (page 55)	B

Ideal for

Experienced wearers looking for a premium lens with generous near visual area and great image stability for comfortable vision

Application

Suitable for any close-up activities such as reading, studying or any other activities with prolonged use of near vision

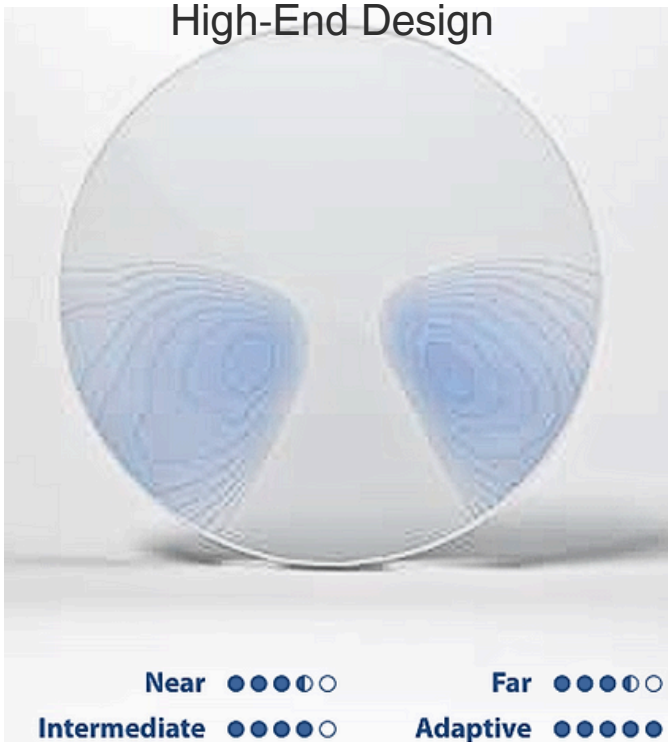
PREMIUM



BALANCED Pro

A Premium all-purpose lens with remarkable image stability for excellent vision designed to meet the high demanding visual needs of an active lifestyle. Unwanted astigmatism is reduced up to 40%, giving the wearer wide excellent vision and the utmost comfort for day-to-day activities. OMD Technology achieves outstanding visual performance combined with smooth power transition between distances and easy adaptation.

High-End Design



Near ●●●●○

Far ●●●●○

Intermediate ●●●●○

Adaptive ●●●●●

NEAR-FAR EQUAL

Ideal for

Wearers looking for a premium quality and enhanced vision at minimal distortion for everyday

Application

Enhanced clear and comfortable vision for day to day and for using electronic devices

Wearer's Benefits:

- + *Superior focus & reduced eyestrain*
- + *Excellent balanced view*
- + *Highest comfort*
- + *Fully customized lens*
- + *Easy adaptation between zones*

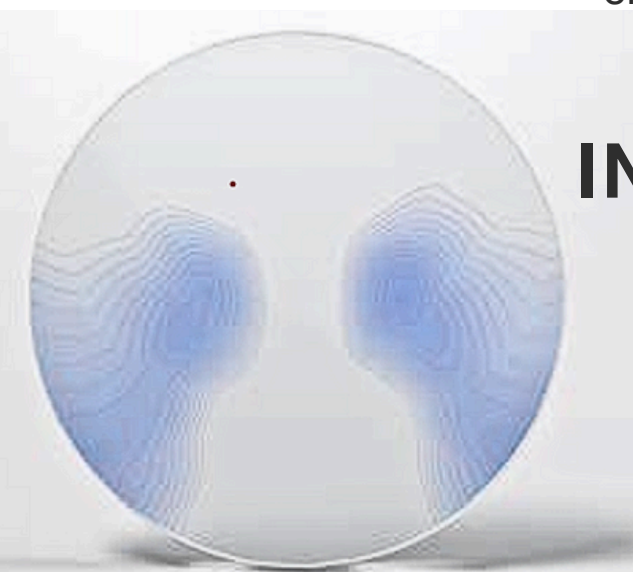
Design Characteristics

Available corridor length	5 – 13 / 1 mm step
Fitting cross position	4 mm
Recommended fitting height	14 – 22 mm
Min. fitting height	13 mm
Inset	0 – 4 mm
Centering chart (page 55)	B

OFFICE ACTIVE



Adaptive Office design with a power boost is the perfect visual supplement for all kinds of work in the office world. It is characterized by enhanced fields of vision in the near and intermediate zones, resulting in a lens that offers great comfort for reading, computer work or indoor meetings with colleagues and customers. The soft layout enables smooth power transition for an easier adapting vision between zones (focal distances). As a new feature, this design comes with a variable corridor length enabling tailor-made solutions. The design offer a brilliant, sharp & clear vision.



INTERMEDIATE TO NEAR

Wearer's Benefits:

- + *Natural vision and improved ergonomic posture*
- + *Enhanced near and intermediate visual fields*
- + *Easier adapting vision between zones*
- + *Fully customized lens*

Near ●●●●○

Far ●●○○○

Intermediate ●●●●●

Adaptive ●●●●●

Design Characteristics

Available corridor length	14, 16, 18 mm
Fitting cross position	4 mm
Recommended fitting height	16 – 22 mm
Min. fitting height	15 mm
Inset	1.5 mm
Centering chart (page 55)	C

	Prescribed	Dynamic Power Office Lens			
Add. Power	-0.75	-1.25	-1.75	-2.25	
0.75	Infinity				
1.00	4.00				
1.25	2.00	Infinity			
1.50	1.35	4.00			
1.75	1.00	2.00	Infinity		
2.00	0.80	1.35	4.00		
2.25		1.00	2.00	Infinity	
2.50		0.80	1.35	4.00	
2.75			1.00	2.00	
3.00			0.80	1.35	
3.25				1.00	
3.50				0.80	

Ideal for

Experienced progressive wearers who are looking for superior clear vision while working

Application

Large near and intermediate visual fields for working with computers & digital displays or other activities (e.g. reading, cooking, painting)

ANTI-FATIGUE

EASY

Anti-fatigue design with enhanced clear vision EasyLife is an adaptive anti-fatigue design which has a **slight power boost in the near** visual area to **relieve the symptoms of eyestrain** and increase focus as well as visual comfort. With a harmonized lens layout, distortion is pushed into smaller areas of the surface and reduced to a minimal level that is almost unnoticeable for the wearer. The wearer experiences smooth transition and easy adaptation between visual zones for everyday and for using electronic devices. The technology optimizes astigmatism to a minimum and the 4K Technology ensures further brilliant view.

Wearer's Benefits:

- + *Improved focus & reduced eyestrain*
- + *Greater comfort*
- + *Fully customized lens*
- + *Easy adaptation between zones*

Ideal for

Beginners or non-adapts who are looking for a premium anti-fatigue lens to avoid eyestrain or tired eyes

Application

Comfortable view for daily use, especially when using electronic devices



Design Characteristics

Available corridor length	9, 11, 13 mm
Fitting cross position	4 mm
Recommended fitting height	18 mm
Min. fitting height	17 mm
Inset	2.5 mm
Centering chart (page 55)	A

Smart Fit Support

The OptoCalc 4.0 calculation engine is designed to choose the mathematically best CRIB shape and decentration values depending on the fitting parameters with the optical labs individual specification included in the calculation. The integrated fit options guarantees minimal lens center thickness and maintain lab specific edge thickness during lens production. The following fit support options can either be configured in the calculation engine or send individually for each job data.

Basic Circular Fit: The calculation engine takes the individual fitting parameters and predefined decentration values (BCERIN, BCERUP) and calculates the best CRIB diameter accordingly.

Basic Elliptical Fit: The calculation engine takes the individual fitting parameters and predefined decentration values (BCERIN, BCERUP) and calculates the best oval shape CRIB and ELLH accordingly.

Optimized Fit: The calculation engine calculates the best CRIB diameter and decentration values (BCERIN / BCERUP) based on the BOX shape of the frame (HBOX / VBOX / FED).

Thickness reduction up to 10-20%

Smart Fit Support: The calculation engine calculates the best oval shape (CRIB / ELLH) and decentration values (BCERIN / BCERUP) based on the BOX shape of the frame trace data (TRCFMT).

Thickness reduction up to 30%



Positions of Wear

Optical professionals who skillfully measure the positions of wear can offer their customers the full potential of today's free-form lens design technology. Due to freeform manufacturing and lens design optimization which take into account every aspect of how an individual's lenses are positioned in front of their eyes. The result is a 100% individualized product.

IPD = Interpupillary distance

FH = Distance lower lens edge to pupil center

DBL = Distance between lenses

VBOX = Vertical boxed lens size

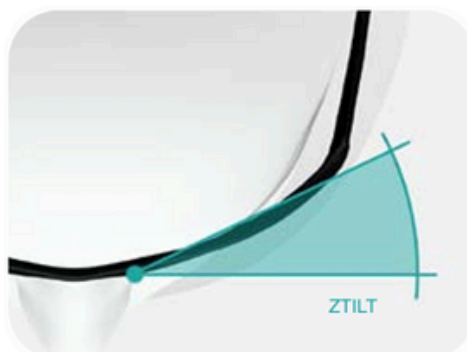
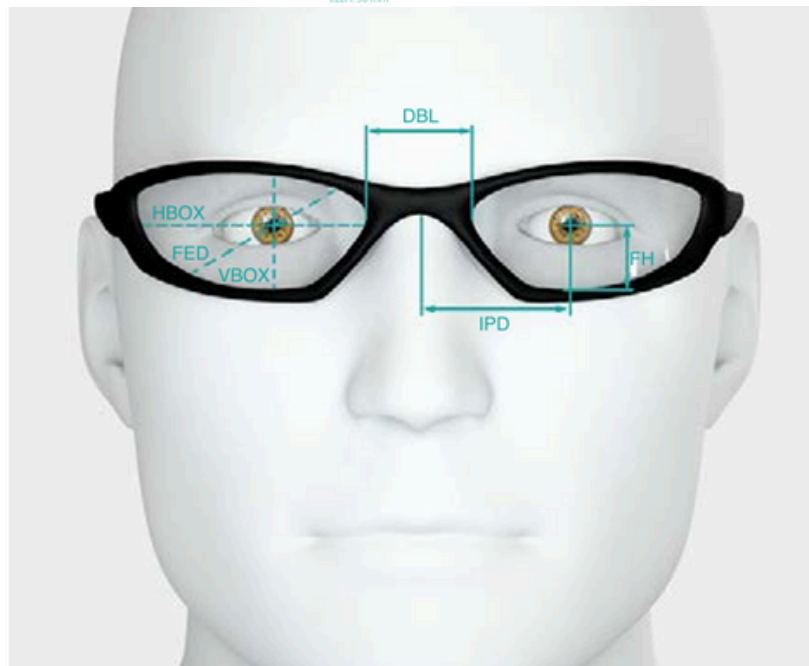
HBOX = Horizontal boxed lens size

FED = Frame effective diameter

PANTO = Pantoscopic angle

ZTILT = Wrapping angle

BVD = Back vertex distance



Advanced Ray Tracing Technology (ARTT)

With a complex ray tracing method, the optical paths through the lens and into the eye were analyzed from different angles and then optimized. For MD (multi-directional) optimized lenses, up to 6400 different visual angles were analyzed with modern computer technology and calculated for the human eye.

As a result, the recognized visual performance of the eye will be significantly increased. This addresses complaints such as tunnel view or unsharp lines of sight at the edge of other lens designs. With this technology swim/sway effects, can be nearly

eliminated. Additionally, to that MD optimized lenses in certain cases can result in 10 % thinner and lighter lenses in comparison to conventional products made out of the same material.

Examining the graph below allows one to see that aspheric lens with optimized S and T (sagittal and tangential) allow the power to stabilize in all viewing directions. As an added benefit the oblique astigmatism is significantly reduced. The patient has a much wider and clearer view without distortion.

