

THE SELF-DESIGNING PROGRESSIVE LENS

THAT ADAPTS TO ANY FRAME TYPES

BUILD INNOVATE INVENT
PATENT PENDING
INVENT INNOVATE BUILD

$D_1 = D_2$

OFTO⁺

OPTICAL LENS DESIGN SOFTWARE

WWW.OFTOPLUS.CLOUD

Dynamically sets the far zone and near zone length according to the frame shape

Adaptable far and near width

Moves the design to find the perfect fit to the frame shape

Dynamic decentration

Frame Design rotation

Rotates every single design progressive zones expanding the frame vision capabilities

D A F D

Dynamic Adaptable Frame Design



By sending the frame shape data to Opto+ LDS, DAFD Technology will automatically replicate on the cloud the real frame shape and will automatically adjust the progressive design according to the selected frame.

Opto+ DAFD performs automatic design rotation, automatic design decentration and automatic progressive zones (far and near) width setting and, as a last step, thanks to our AI (artificial intelligence), compares all the possible combinations and chooses the fittest one, guaranteeing the best combination between astigmatism, clear vision area and thickness.

Opto+ DAFD can be used in every production lab, with no changes in the existing software and machines, setting itself as the game changer in the ophthalmic market.

Dynamic Adaptable Frame Design

Due to geometrical aspects, not all modern and most fashionable frame shapes can be used with progressive designs.

Although frame shapes are a starting point for buying a new pair of eyeglasses, they are likely to become a limitation when choosing the progressive designs.

In most cases, progressive zones can't be properly defined, and vision comfort is severely affected. In such cases, the customer has to change the selected frame shape with a most suitable one. The main challenge today is to accomplish customer fashion frame requests with the best optical vision performance possible. The starting point of the Opto+ DAFD technology is the Opto+ Infinity design serie. Each infinity design can be individually tailored with different settings for far zone, near zone, inset, decentration etc. Labs can manually customize the design by choosing the width of progressive zones in mm. The Infinity designs and the Opto+ cloud computation power are the pillars of the Opto+ DAFD technology (Dynamic Adaptable Frame Design).

**Opto+ DAFD is
the self-designing lens.**

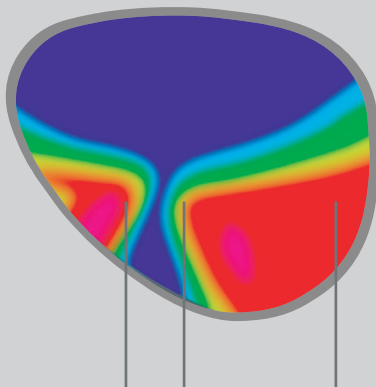
OPTO+ DAFD Technology

The self-designing progressive lens that adapts to any frame shape

OPTO+ DAFD Technology

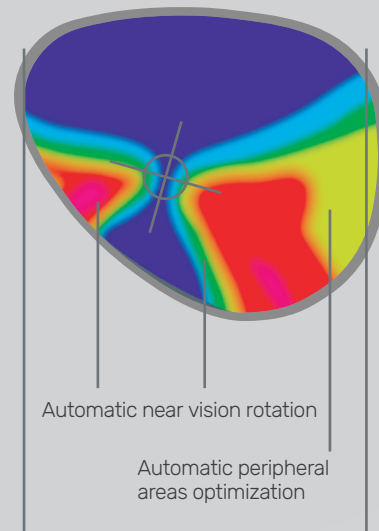
results in a progressive design which is highly tailored to customer vision needs and taste.

Opto+ Progressive design:



Without DAFD technology,
with manual design settings

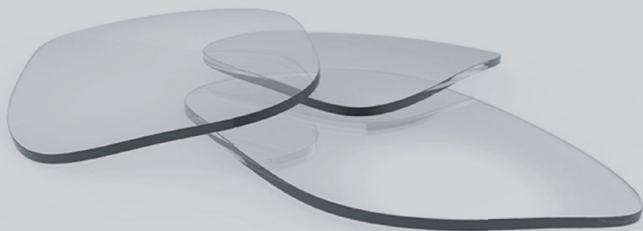
Opto+ Progressive design with DAFD technology:



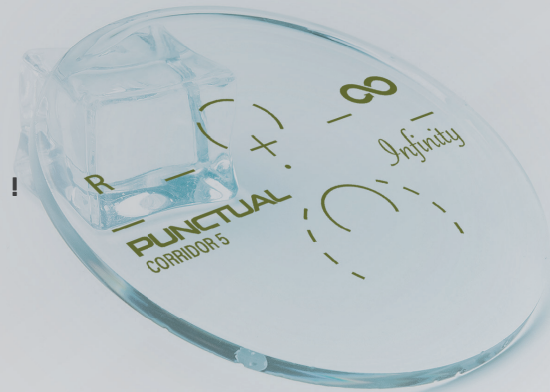
Automatic near vision rotation

Automatic peripheral
areas optimization

Automatic far vision area expansion



Do not worry anymore about customers' fancy requests!
Let them choose any desirable frame shape, Opto+ DAFD
will automatically adjust the progressive design with an
incredible vision comfort.
They won't believe their eyes!



Ask your LAB!

Opto+ progressive designs experience, the future of creating your lenses

a new concept of LDS software which reimagines the idea of progressive lens design using the most advanced technology at our disposition.

Optical

Our designs look super-innovative when compared to those already on the market. Under the same values and types of design, our lenses provide lower astigmatism, cleaner and wider areas. This is not fantasy. This is because our designs are made with algorithms based on curved surfaces (i.e circle and sphere-related basic math to draw curves) instead of algorithms based on curves' maths (B-Spline, NURBS etc.) which introduce additional astigmatism.

Opto+ is a new era of lens design calculation.



THE ITALIAN PROGRESSIVE DESIGN TECHNOLOGY

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Technology

Amazon AWS Cloud Platform: Scalable Computing Power. Opto+ is able to output 2 lenses every 5 sec (1440 lenses per hour) with the base setup. In case that limit is reached or exceeded, Opto+ automatically scales up its power to maintain the calculation speed. The average time to get a single prescription calculated for a pair of progressive lenses is 15 seconds (LAB REQUEST – COMPUTING DATACENTER – LAB RESULTS). Thanks to AWS, this can be granted all over the world, because the infrastructure will always choose the nearest data center for calculations. Therefore, we can say Opto+ has no power limits.

Opto+ gives the possibility to analyze the lenses via software using the real values of the calculated lenses, without having a physical lens mapper in house. Each calculated lens can be inspected in 2D, 3D view together with its power and cylinder map, with the possibility to check the real astigmatism value in each point of the lens. Moreover, Opto+ software returns the value of this lens thickness at each point.