

The Past



2



Hybrid lenses

- Rigid gas permeable optic zone
- Hydrogel peripheral zone
- Have been available for 40 years
- Their use in keratoconus was first described by Little in 1971.

Overcoming Limitations

Quarter Lambda Technologies, Inc. of SanMarcos, CA commenced a focused research and development program September 2001 to create an improved hybrid contact lens.

October 2003- company received IRB approval to begin with four of the SynergEyes products.

4







6

8

A Reverse Geometry Hybrid Contact Lens Design!

• SynergEyes[®] PS



SynergEyes® KC

Prolate ellipsoid base curve

Spherical Skirt begins at 9.0 mm diameter





3 skirt curve options for fitting flexibility

Patentpending Vault design The <u>vault</u> value describes the overall relative depth of the lens on the cornea

The goal is to determine the appropriate vault that provides complete apical clearance.

Design gives the ability to "vault" over the vast majority of ectasias without bearing



Step 1: Determine Vault





Patent-pending Vault -pending Vault

BC 6.7

BC 6.9

Design results in substantially lower lens

 Closer lens alignment to the cornea in conjunction with the lacrimal lens results in significantly lower powers.

Enhances optical quality and improves
Visual Acuity for the patient.

 Lower lens power in conjunction with superior centration substantially reduces coma and minification.



12

10

11

3

Ideal Skirt Curve Fit



13

THE FUTURE



14





Individually Designed for Premium Performance

- Personalized lenses made specifically for each patient by providing Ks, HVID and Rx.
- Exceptional clarity of a GP lens

• Empirically designed lens offers a streamlined fit, and a high rate of first-lens dispense, patient preference and satisfaction, and revenue retention.











ULTRAHEALTH FC

• UltraHealth FC is also available for post-refractive surgery patients. The oblate base curves offered in this addition to the UltraHealth family of lenses are well suited for post-Rk, post-LASIK and other cornea trauma conditions.

21

SynergEyes iD Single Vision

22

- Individually Designed for Premium Performance
 - Personalized lenses made specifically for each patient by providing Ks, HVID and Rx.
 - Exceptional clarity of a GP lens

• Empirically designed lens offers a streamlined fit, and a high rate of first-lens dispense, patient proference patient preference and satisfaction, and revenue retention.



	Diameter	14.5mm
Synergeyes ID Parameters	Skirt	38 to 49 in increments of 1 step to accommodate HVID range of 10.0 to 13.0mm. HVID outside the measurements will default to 10.0 or 13.0mm.
	Base Curves	7.10mm to 8.30mm in increments of 0.01mm
	Single Vision Lens Powers	+10.00 to -15.00D +8.00 to -8.00D in 0.25D steps +8.50 to +10.00D in 0.50D steps -8.50 to -15.00D in 0.50D steps

SynergEyes ID Multifocal EDOF



25

Presbyopic wearers can experience clearer vision at all distances with the proprietary Multifocal Extended Depth of Focus (EDOF) optical design

Even those with astignatism will experience clear, stable vision, without the hassle of blur caused by toric lens rotation.





26

SynergEyes Id Multifocal EDOF Parameters

Diameter	14.5mm
Skirt	38 to 49 in increments of 1 step to accommodate HVID range of 10.0 to 13.0mm. HVID outside the measurements will default to 10.0 or 13.0mm.
Base Curves	7.10mm to 8.30mm in increments of 0.01mm
Multifocal Lens Powers	+5.50 to -10.00D +5.50 to -8.00D in 0.25D steps -8.50 to -10.00D in 0.50D steps Add Power: Low, Medium, High