



# Monovision. Enhanced.\*

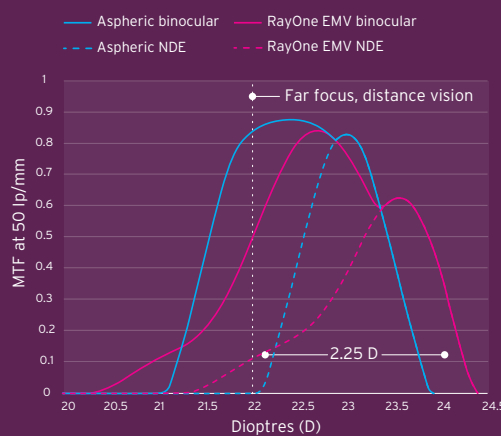
**RayOne EMV** is the world's first IOL specifically optimised to enhance pseudophakic monovision patient outcomes.



Rayner's new patented optic technology is designed to provide:

- Up to 2.25 D of extended depth of vision (with 1.0 D offset)
- Superior intermediate vision when compared with standard monofocals
- Reduced dysphotopsia compared to diffractive multifocal and EDOF IOL designs
- A smoother, blended transition between the dominant and non-dominant eyes when compared with standard monofocals, maintaining binocular stereoacuity and reducing asthenopia

Through focus MTF at 3mm pupil diameter - L&B model eye



Compatible with  
**RayPRO**  
[rayner.com/RayPRO](http://rayner.com/RayPRO)

**RayOne preloaded injector**

- True two-step system
- Sub 2.2 mm incision



[rayner.com/injector](http://rayner.com/injector)



# RayOne EMV Technical Information

Model Name		RayOne EMV
Model Number	RAO200E	
Power Range	+10.0 to +30.0 D (0.5 D increments)	
Delivery System Type	Fully preloaded IOL injection system	
Incision Size	Sub 2.2 mm	

Delivery System	
Injector Type	Single use, fully preloaded IOL injection system
Nozzle Size	1.65 mm
Bevel Angle	45°
Lens Delivery	Single handed plunger

Aspheric Monofocal IOL	
Material	Single piece Rayacryl hydrophilic acrylic
Water Content	26% in equilibrium
UV Protection	Benzophenone UV absorbing agent
UV Light Transmission	UV 10% cut-off is 380 nm
Refractive Index	1.46
ABBE	56
Overall Diameter	12.50 mm
Optic Diameter	6.00 mm
Optic Shape	Biconvex (positive powers)
Asphericity	Aspheric anterior surface
Optic Edge Design	Amon-Apple 360° enhanced square edge
Haptic Angulation	0°, uniplanar
Haptic style	Closed loop with anti-vaulting haptic (AVH) technology

Estimated Constants for Optical Biometry								
SRK/T	Haigis			HofferQ	Holladay	Holladay II	Barrett Universal II	
A-constant	a0	a1	a2	pACD	SF	pACD	LF	DF
118.6	1.17	0.40	0.10	5.32	1.56	5.32	1.67	0

For Contact Ultrasound, the estimated A-constant is 118.0

Please note that the constants indicated for all Rayner lenses are estimates and are for guidance purposes only. Surgeons must always expect to personalise their own constants based on initial patient outcomes, with further personalisation as the number of eyes increases.

\*Data on file, September 2020

**RayOne EMV is not approved by the US FDA**

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