

**iDIFF** *Plus*<sup>TM</sup>  
Presbyopic Foldable IOL

INTELLECTUALLY REDEFINED VISION



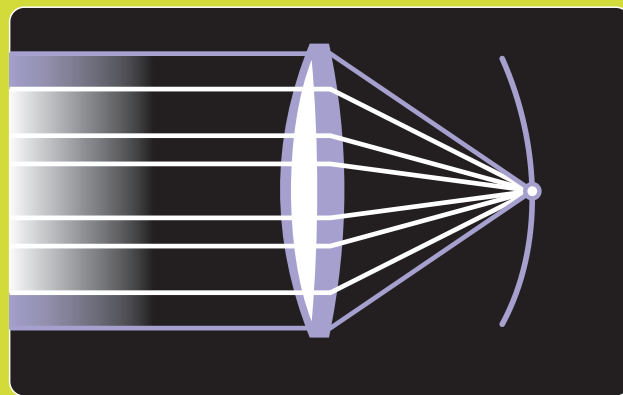
Patent Pending



## Suitable for majority of patients, aberration-free Aspheric IOLs

### iDIFF *Plus* Aspheric IOL

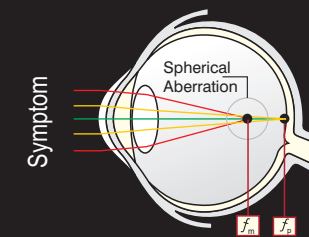
Peripheral and central light rays converge on the retina



- It is neutral to the cornea, thus suitable for majority of patients regardless of corneal shape.
- Performance is unaffected by optic misalignment or pupil decentration.
- Aspheric optic provides improved visual quality for the patients.
- iDIFF *Plus* is the only IOL, with optimized Q value for each diopter.

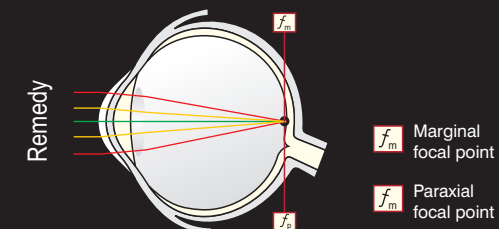
Aspheric design of iDIFF *Plus* IOL reduces spherical aberrations to provide improved image quality

#### Spherical aberration with Spherical IOL



Spherical aberration occurs when light rays are refracted at the periphery of optic like cornea or spherical IOL. Spherical IOL can increase Spherical aberration, which may reduce Contrast Sensitivity and decrease visual functions.

#### Correction with an Aspheric Optic



An Aspheric Optic aligns light rays to enhance clarity and image quality. iDIFF *Plus* Aspheric IOL is suitable for majority of patients, regardless of corneal shape. Performance of iDIFF *Plus* is unaffected by optical misalignment or pupil decentration.

### Mesopic Picture Condition\*

Aspheric Correction  
(simulated)

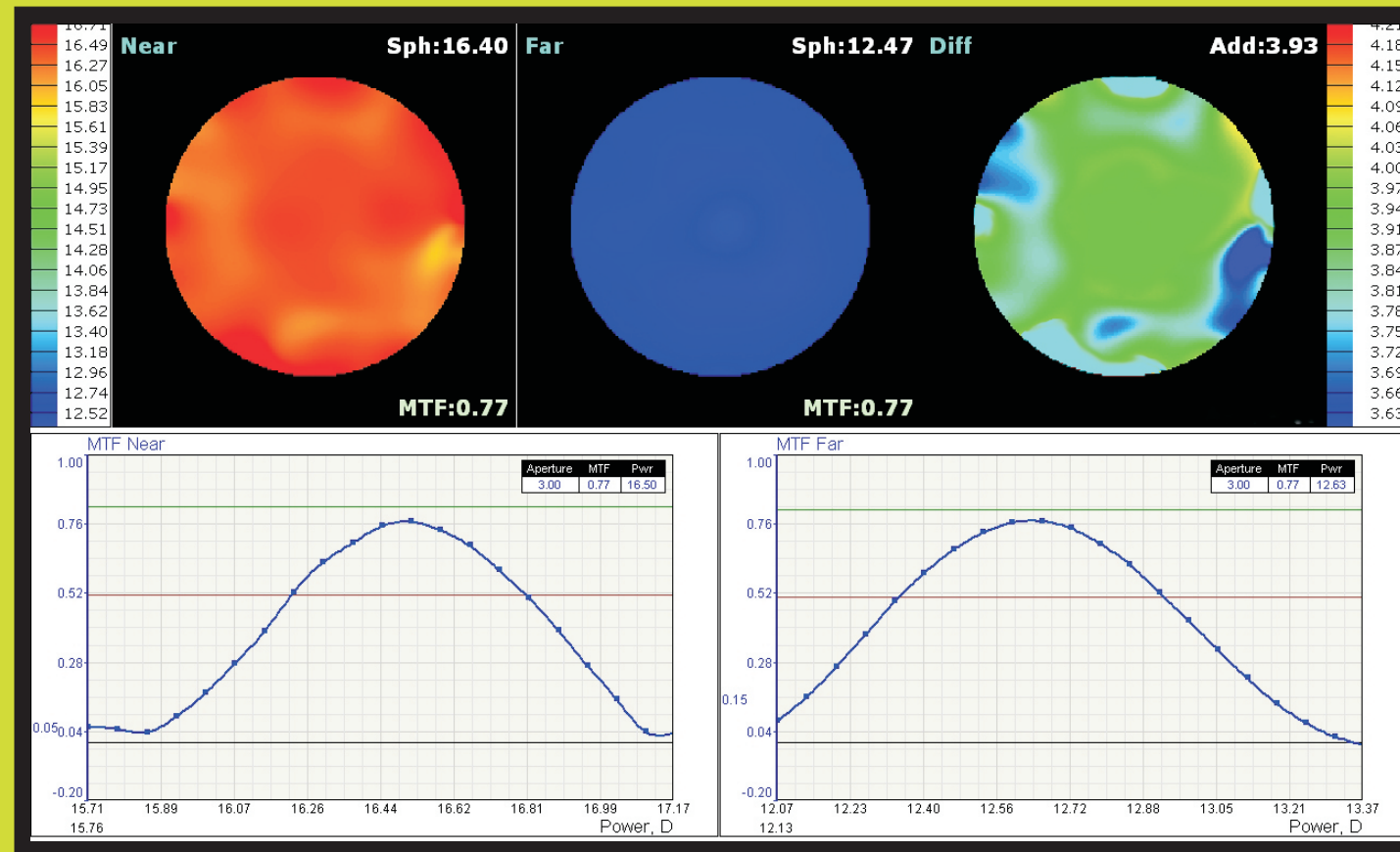


Spherical Aberration  
(simulated)



\* Refers to dim light level of 3 cd/m<sup>2</sup>

## Predictable Refractive Outcome

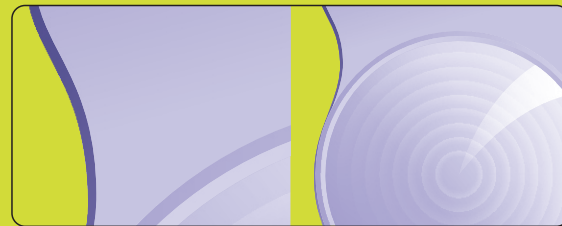


### Each Lens Is Accompanied By Power Map & MTF Graph Of Near & Far Focus

- Ensures Predictable Post-Operative refractive results.
- RNI - Relative Near Intensity: 60/40 % for far and near respectively.

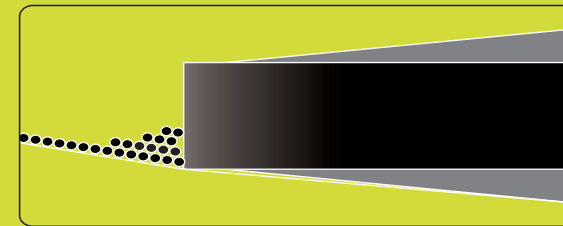
POWER MAP & MTF GRAPH FOR NEAR & FAR

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360° Posterior ridge and a Square Edge design to inhibit cells growth

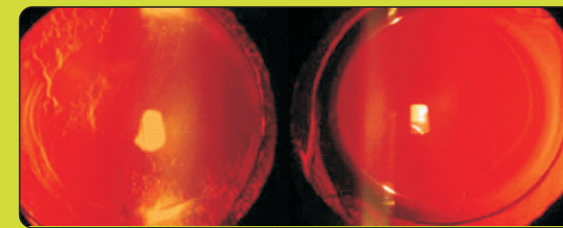
iDIFF *Plus* 360° Square Edge prevents PCO



iDIFF *Plus* Square Edge ensures second line defence against PCO



Anti Z effect Haptic design



Lens with PCO

Lens without PCO

## Provides improved visual quality by reducing reflected glare

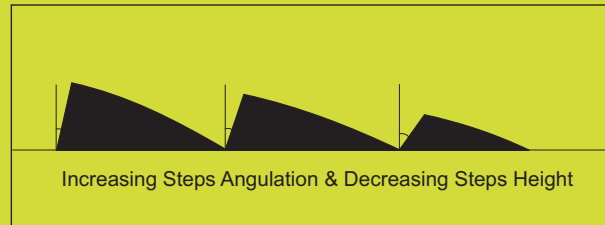
- iDIFF *Plus* material and 360° square edge design reduces LEC proliferation compared to other foldable IOLs.
- Edge thickness corresponds to standard designed IOLs.
- Perfect centration in the capsular bag
- Perfect optical performance
- Extremely low incidence of PCO
- Haptic design provides defence against Z effect

iDIFF *Plus* 360° Square Edge

Goal of cataract surgery - Full range of vision with enhanced contrast



## iDIFF *Plus* IOL

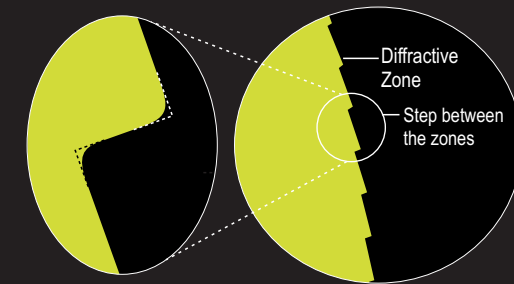


### Advantages

- Reduces chances of halos, glare and scattering of light.
- Ensures balanced distribution of light energy.

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## Popular Diffractive IOL



### Limitations

- Possibility of glare.
- Creates Halos and Scattering Light.

SLANTED TRANSITION ZONES

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## 1 Patient selection criteria

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Presbyopic IOL has demonstrated specific suitability in normal myopic and hyperopic patient.

Patient should not have:

- Amblyopia
- Squint
- Glaucoma
- Macular Diseases
- Previous Operations
- Pre operative Astigmatism > 1.5 D
- Retinal Pathology
- Congenital Cataract

## 2 Thorough counseling of patients

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- Counseling of patients & attendants, to whom iDIFF *Plus* IOL is offered, is mandatory.
- Awareness towards reasonable expected results. They may require use of powered glass.
- Typical patient achieves excellent distant & near vision after the procedure.
- Awareness about the risk involved with multifocal IOLs, is required to be given.
- As with refractive surgery, not all patients have favorable response of the vision they receive with the lens.

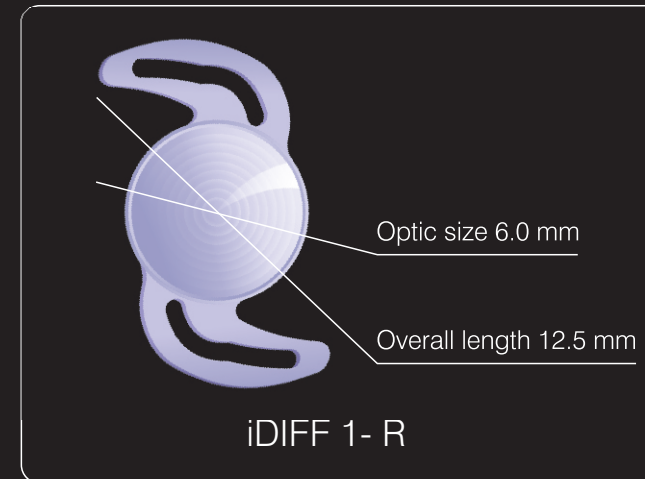
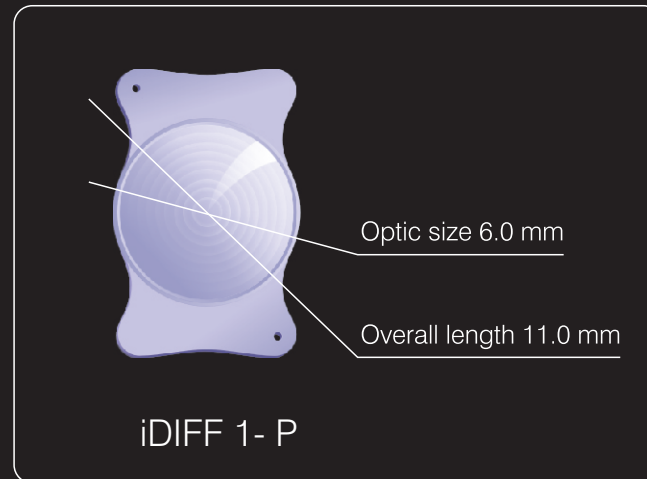
## 3 IOL Power calculation

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While calculating the IOL power please consider.

- Keratometry
- Biometry
- Water Immersion should be used
- Formula depends on Axial Length
- Aim Emmetropia & Astigmatism <1.50D
- A-Cosnt. & ACD ( Surgeon Factors)
- Personalize A-Constant to get predictable refractive results

## Technical Specifications



TECHNICAL SPECIFICATIONS

Optic Design	Modified refractive-diffractive & aspheric surface
Optic & Haptic Material	Hydrophilic Acrylic
Haptic Angulation	0°
Power	Available from +11.0D to +30.0D
Sterilization	Autoclave
Refractive Index	1.467
A-constant	118.0 (theoretical)
Delivery System	Disposable

+4 D / +3.5 D / +3 D addition for near focus

- Refractive - Diffractive Optic
- Slanted Transition Zones
- 360° Square Edge
- Aberration Neutral



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# Full Range Of Vision With iDIFF *Plus*

