

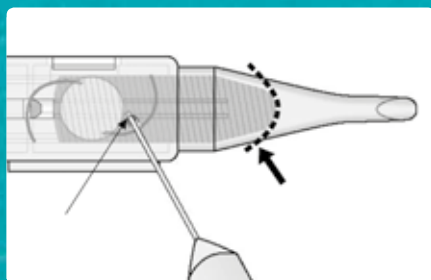
CONTROLLED PRECISION.

Introducing Avansee™Preset, the new fully preloaded IOL system from Kowa

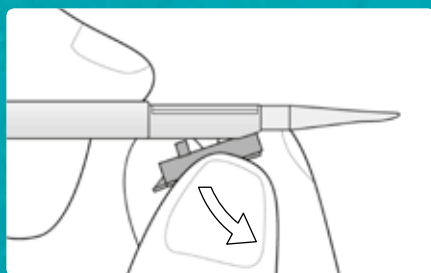
AvanseePreset

AvanseePreset IOL is placed in the capsular bag and is designed for implantation after phacoemulsification of cataracts.¹

AvanseePreset is a fully preloaded IOL system allowing preparation for IOL insertion in two simple steps:



Inject the ophthalmic viscosurgical device (OVD): 0.15ml

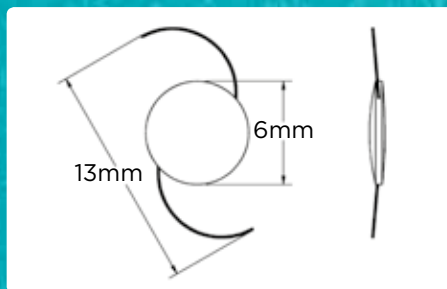


Remove the lens stage

AvanseePreset is a lightweight syringe-type injector that allows IOL insertion with just one hand.

Lens features

The Avansee lens is a foldable posterior chamber aspheric hydrophobic monofocal IOL.



Stable optic material

- The cast-moulded optics of Avansee are made from a stable, uniform and highly cross-linked polymer, preventing water from gathering in microvoids of the material, thereby eliminating glistening

Square-edged design

- Avansee is carved after polymerisation without grinding to provide a square edge, reducing posterior capsule opacification (PCO) formation

Soft, flexible haptics

- Polyvinylidene fluoride (PVDF) haptics reduce the risk of damage and deformation during insertion and unfolding

Aberration-neutral

- Avansee retains the spherical aberration (SA) of the eye, and is therefore less affected in conditions of decentration or tilt compared to IOLs with a greater SA corrective power (asphericity of Avansee is $-0.04\mu\text{m}^2$)



Technical specification

General

Model	PN6AS and PN6A (Natural type), PU6AS and PU6A (UV type)
Recommended incision size	PN6AS and PU6AS: 2.4mm PN6A and PU6A: 2.75mm
Overall length	13mm
A-constant* (ultrasound)	118.7
Predicted anterior chamber depth	5.3mm

Optimised IOL constants^{4,5}

Haigis	a0=1.57, a1=0.40, a2=0.10
HofferQ	pACD=5.64
Holl.1	sf=1.85
SRK/T	A=119.0
SRK II	A=119.3

Optic characteristics

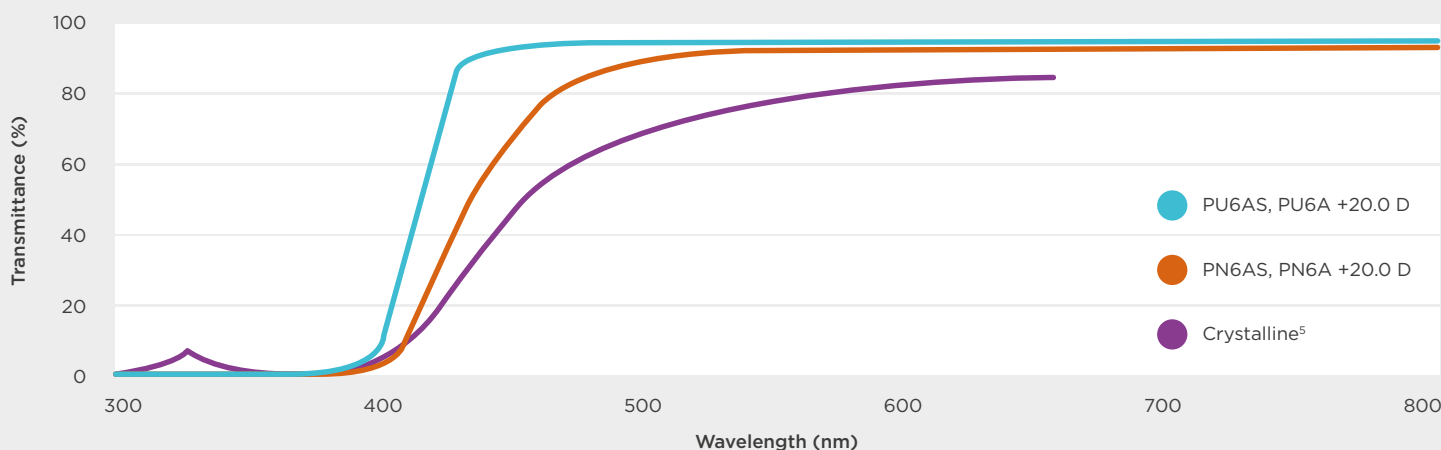
Material	Hydrophobic soft acrylic (UV-absorbing acrylic resin; natural type also contains proprietary blue-light filtering)
Design	Aspheric, asphericity: -0.04µm
Colour	Yellow (PN6AS and PN6A), Clear (PU6AS and PU6A)
Length	6mm
UV cut off at 10% T	405nm (+20.0 dioptre lens)
Refractive index	1.519 (35°C)
Configuration	Biconvex
Power range	+6.0 through +26.0 dioptre: +6.0 to +10.0 dioptre (1.0D increments) +10.0 to +26.0 dioptre (0.5D increments)

Haptic characteristics

Material	Polyvinylidene fluoride (PVDF)
Colour	Blue
Configuration	Modified C-loop
Angle	5°

Spectral transmittance curve

Spectral transmittance curves for PN6AS, PN6A/PU6AS, PU6A with a dioptric power of +20.0 together with the spectral transmittance curve for the phakic eye of a 53-year-old patient.^{1,5}



Adapted from Avansee™ Preset PI. 2014.

*Constants are presented as a starting point (reference value) for the lens power calculation. When calculating the exact lens power it is recommended that calculations should be performed individually based on equipment used and operating surgeon's own experience.

References: 1. Avansee™ Preset PI. 2014. 2. Fujikado T and Saika M. Journal of the Eye 2014; 31: 123-132. 3. Data by Kazuo Ichikawa MD, Nagoya, Japan (n=100). 4. User Group for Laser Interference Biometry. Available at: <http://www.augenklinik.uni-wuerzburg.de/ulib/c1.htm> Accessed: August 2015. 5. Boettner EA and Wolter JR. Invest Ophthalmol 1962; 1(6): 776-783.

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