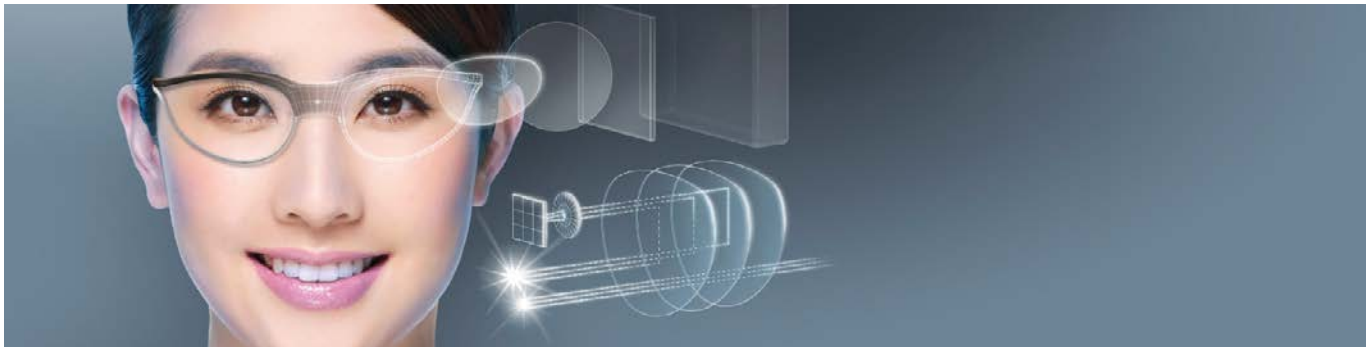
SCHOTT RealView™ – High Index Glass Wafer for Augmented Reality



Product Information

The still unimaginable cosmos of Augmented Reality experience is expected to change our everyday life – during work, during leisure time, the way we communicate.

High index glass wafer are a key component in the optical system influencing the visual user experience, such as Field-of-View (FoV) and image quality.

Our customers have in SCHOTT a strong partner, committed to innovation, high quality and reliable mass production.

Augmented Reality device requirement	**Customizeable properties of SCHOTT RealView™**	**Typical specification**
Field of view	Refractive index	≥ 1.7
Image quality (resolution, contract, brightness, ...)	High transmission	Optical glass grade
	Low birefringence	No polarization dependency of waveguide
	High homogeneity	Optical glass grade
	Flatness and thickness homogeneity	TTV < 1 µm
		Warp uncoated / coated < 35 µm / < 50 µm
		BOW uncoated / coated < 20 µm / < 35 µm
	Roughness uncoated / coated	< 1.0 / 2.0 nm R_a
	Anti reflective coating	Tailormade to customer requirements
	Cosmetic	40 / 20 scratch / dig
Form factor (light, weight, thin)	Low wafer thickness	≥ 0.3 mm
	Specific weight	Depending on glass type
	Wedge	< 0.03 arcmin
	Glass strength and stability	Compatible with automated wafer handling equipment
Mass manufacturing process	Wafer size	150 mm, 200 mm
	High volume processing and quality control	Full metrology capabilitites in mass production environment. Statistical process control established.

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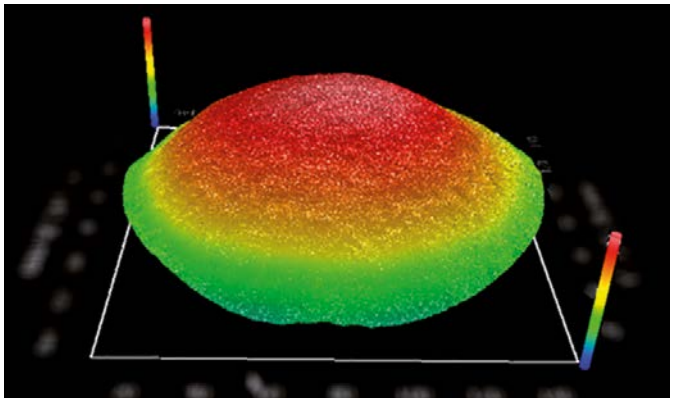
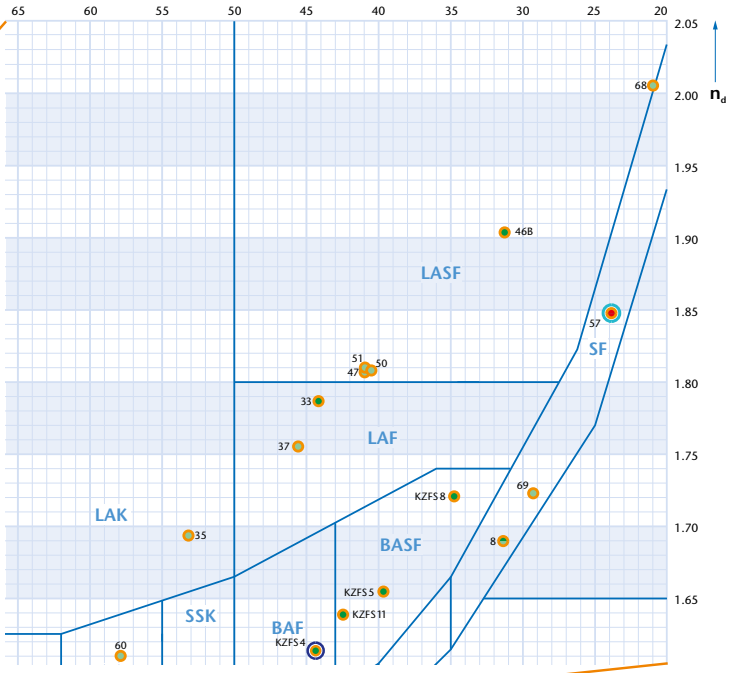


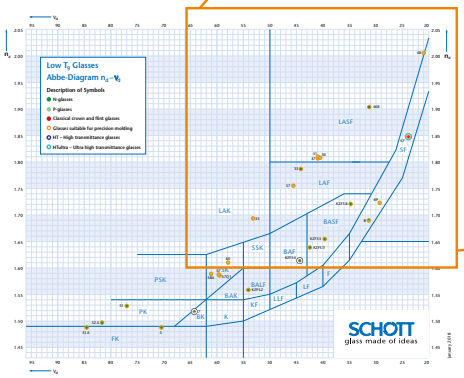
TTV Metrology

Coating Chamber

With our portfolio of more than 120 optical glasses, SCHOTT is an expert in mass manufacturing optical materials with properties tailored for our customer's applications. Our manufacturing capabilities cover raw glass melting, wafer manufacturing, optical coatings fulfilling the tightest specifications of the industry.

Our team is keen to learn more about your needs!





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