DIGILENS

Crystal50

DigiLens' family of 50-degree waveguides are ideal for building the extended reality (XR) experiences that the marketplace has been waiting for. Leveraging an integrated dual axis architecture that uses multiple overlapping diffractive grating layers, these waveguides are changing the face of head worn. With premier color, brightness and contrast the Crystal50 is perfect to couple with spatial computing technologies that allow for indoor and outdoor gaming, entertainment, and 3D viewing.

One Size Fits All Use Cases
Crystal50 is ready to transform the way users interact with data in multiple industries ranging from healthcare to education to energy and gaming

The Brightest 50° Around
At over 325 nits/lumen, Crystal50 is ready to be integrated into the wearable technologies that will drive tomorrow's innovations
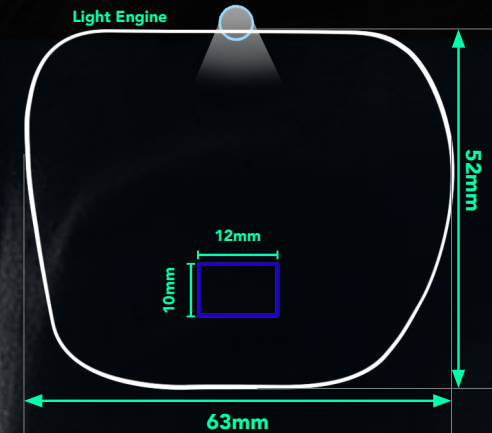
Discover Unmatched Performance
Hardware and software developers can finally begin building compelling extended reality experiences

Socially Acceptable
4x better than any other waveguides on the market today when it comes to eye glow

YOU'RE GOING TO WANT TO SEE THIS

Waveguide Specifications	**FIELD-OF-VIEW** 44° (h) X 25° (v); 50° (d)	**TRANSMITTANCE** > 80% (AR coated)
	FOCUS DISTANCE Infinity	**EYE RELIEF** 19mm to pupil
	EYE BOX 12mm x 10mm	**ANSI CONTRAST** 30:1
	ORIENTATION Landscape (16:9)	**UNIFORMITY** > 20%
	Specifications based on Coretronic light engine Crystal50 may be optimized for additional light engines	
Efficiency + Light Engine	**UNPOLARIZED** 175 nits/lumen	**POLARIZED** > 350 nits/lumen
Mechanical	**THICKNESS** < 2.5mm total	**CONFIGURATION** Top injected
	LAYERS 3 (R/G/B)	**WG RAKE** 0°
Availability	Now for approved partners – interested? Send an email to sales@digilens.com	

*Dimensions shown are of reference design sample