

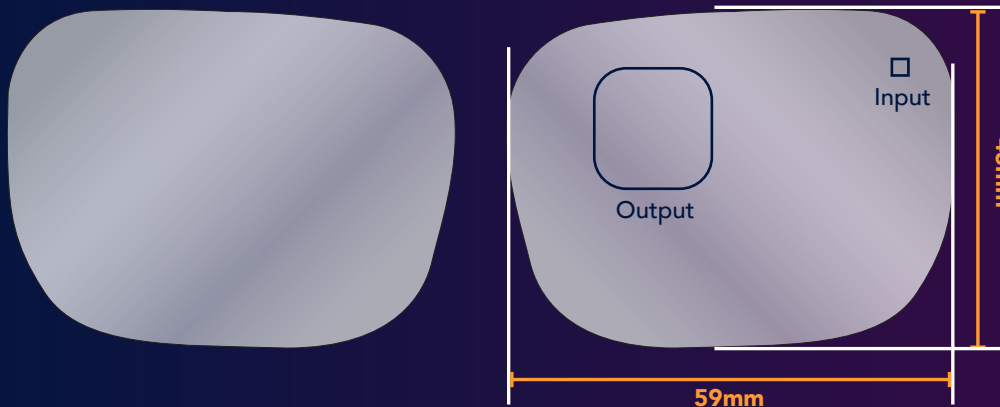
Crystal30

4TH GENERATION

Lightweight and Consumer Ready.

Increasing productivity is within reach for the innovators looking to push the boundaries of extended reality. Whether they are integrated into smartglasses, smart helmets, or other headworn devices, DigiLens' 4th generation of the Crystal30 waveguides allows for the natural integration of digital data over the physical world.

DigiLens Crystal waveguides deliver stunning image quality and are the brightest and most efficient waveguides in the market with the lowest measured eye glow, achievable at a consumer price point. Our waveguides power consumer, enterprise, and industrial products like smartglasses, helmets, and other headworn devices, and can accommodate various light engines based on customer preferences. Crystal30 is backed by DigiLens' global licensee network, enabling rapidly scalable, large-scale volume manufacturing to meet consumer market demands.



*All above values are rounded for summary purposes

Waveguide compatible with both Unpolarized (microLED/DLP) and Polarized (LCoS) projection engines.

Samples Q3 '24

Specifications

FIELD-OF-VIEW

30° (D); 21° (H) x 21° (V), 1:1 Aspect ratio ^{*4}

EYE BOX

10mm (h) x 10mm (v)

TRANSPARENCY

>90%

EYE RELIEF

17mm

FOCUS DISTANCE

Infinity

THICKNESS

1.2mm

WEIGHT

6g

PUPIL SIZE

2.4MM TO 4.0MM ^{*5}

UNPOLARIZED (n/L)

AVG LUM EFF ^{*3} >750n/L

PEAK LUM EFF ^{*3} >1500n/L

POLARIZED (n/L)

>1500n/L

>3000n/L

Measurements per Information Display Measurement Std (IDMS)

^{*1} Average of Field and Eyebox

^{*2} Compatible with ophthalmic inserts

^{*3} Alpha grade

^{*4} Aspect Ratio can be customized to [4:3] 30° DIAG

^{*5} Input coupler size/position can be optimized to match projector pupil