

# Crystal30

### **4<sup>TH</sup> GENERATION**

## **Lightweight and Consumer Ready**

The DigiLens Crystal30 4th generation waveguides are engineered for seamless integration into smartglasses, smart helmets, and other headworn XR devices. Designed to overlay digital data onto the physical world, these waveguides deliver industryleading performance for consumer, enterprise, and industrial applications.

## AVAILABLE NOW

sales@digilens.com

FOCUS DISTANCE

Infinity

1.2mm

**6**g

WEIGHT

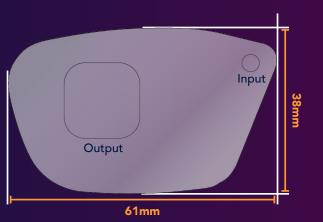
PUPIL SIZE

2.4MM TO 4.0MM \*5

THICKNESS

#### **KEY FEATURES**

- Exceptional Image Quality: Delivers highresolution, vivid imagery
- Market-Leading Brightness and Efficiency: Among the brightest and most energy-efficient wavequides available
- Ultra-Low Eye Glow: Achieves the lowest measured eye glow in its class, ensuring user privacy and comfort
- Versatile Integration: Compatible with a wide range of light engines to meet diverse customer requirements
- Scalable Manufacturing: Supported by DigiLens' global licensee network, enabling high-volume, cost-effective production to meet market demand



\*Values are rounded for summary purposes

## **Specifications**

#### **FIELD-OF-VIEW** 30° (D); 21° (H) x 21° (V)

1:1 Aspect ratio \*4

EYE BOX 12mm (H) x 10mm (V)

TRANSPARENCY >90%

EYE RELIEF 17mm

\*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

<sup>\*5</sup> Input coupler size/position can be optimized to match projector pupil

Waveguide compatible with both unpolarized (µLED/DLP) and polarized (LCoS) projection engines.

#### UNPOLARIZED (n/L)

>900n/L >1,500n/L

#### POLARIZED (n/L)

>1,800n/L >3,000n/L

Measurements per Information Display Measurement Std (IDMS)

AVG LUM EFF \*3 PEAK LUM EFF \*3