



# AUGMENCY

## Cyclops hmd<sup>®</sup>



## REVOLUTION IN INDUSTRIAL AUGMENTED REALITY

Unique Augmented Reality (AR) hardware and software designed to fit the toughest industrial scenarios.

Augmency is a high-tech company that designs and develops next-generation Augmented Reality for business.

Augmency offers both hardware and software with its expert team and award-winning knowledge of Augmented Reality technology.

**Display Features**  
Full-color OLED

**Field of View**  
22°

**Eye Relief**  
50 mm

**Camera**  
5MP fixed focus  
720p @30fps video

**IMU**  
Integrated 9-axis sensor  
Compass

**Sound**  
Bluetooth  
Headphone/Microphone

**Phone Connection**  
USB2.0 Cable

**Main Device**  
Android  
(6.0 and higher)

**Physical Properties**  
**Weight**  
(Without Cable) 83g

**Brightness**  
160 lumens

**Durability**  
IP54 protection  
(Protection against  
dust and water)

**Drop-Resistant**  
1.5 meters

**Operating  
Temperature**  
-25 ° C / 50 ° C

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Cyclops hmd<sup>®</sup> is a trademark of Augmency Corporation



When a problem occurs in the field, Cyclops hmd® provides the opportunity to assist the operator by connecting to the expert and has the feature of transferring live videos to the expert using its camera.

In cases where the light is insufficient, Cyclops hmd® can illuminate the environment with its LED light.

The high-resolution OLED screen displays important information on a semi-transparent mirror in front of the eye. In this way, the field of view is not blocked and the operator can focus on his/her work while looking at the screen.

The 9-axis IMU sensor in the device provides the acceleration information of the device and its direction and related compass information to the operator.

The touch panel provides a very comfortable and easy usage because of its location on the right-hand side of the device, and allows various interactions in the application used.

In scenarios where remote support is required, Cyclops hmd® transmits the field worker's live view to the expert and expert can also send images and files to the field worker's display. By freezing video and capturing the live image, the expert can make some annotations and draw images and write down some text messages on this image and send it back to the operator's display. This way, remote support is provided to the user in the field in a quick, safe and efficient way.

Cyclops hmd® can be used in logistics operations for facilitating warehouse operations such as picking and loading, order tracking, stock status. It can be integrated into different Warehouse Management Systems (WMS). It can also be used in manufacturing operations integrated with Manufacturing Execution Systems (MES).



### **Augmency Company Facts**

- Developing Hardware and Software Products for AR applications
- Established in 2016
- A Spin-off from Koc University
- 4 international patents and 1 design patent
- Major R&D grants from European Commission and TUBITAK-TEYDEB programme

Cyclops hmd is a wearable augmented reality device providing easy interaction with the user. With its built-in camera, OLED screen, LED light, IMU sensors (including compass) and touchpad, it works properly with Android (6.0 and higher) devices. iOS support will be available in Q4 2020.

Attached by the forehead of the user, Cyclops hmd® provides hand-free operation and brings the mobile application screen in front of the user's eye. In this way, Cyclops hmd® eliminates the dependence on the Handheld Devices.

Due to its elastic headband and its lightweight design, Cyclops hmd® is suitable for use all-day long without causing discomfort.

When you take a break from your work, you can get rid of the screen in front of your eyes without removing the device from your head