



ALEGER
AUGMENTED REALITY



DATASHEET



IN THE BOX



nreal



SPECIFICATION

01

Dimension

179 mm x 156.5 mm x 44 mm (unfolded)

166 mm x 49 mm x 47 mm (folded)

Weight

106g

Display

Resolution: 1080p per eye

Refresh rate: 60 Hz

Optics

Combined Light Guide optics

Field of View (FoV): 52°

Optimal Inter-pupillary Distance (IPD): 53.5-73.5 mm

Audio

Onboard dual speakers

Support high-definition ambisonic spatial audio output

Environment Understanding

6DoF (position and orientation) spatial tracking of headset

Support plane detection and image recognition

Sensors

2 spatial computing grey-scale cameras: FoV (120°);

Resolution (VGA: 640x480)

Photo/HD video RGB camera: FoV (74°)

Resolution(5MP: 2592x1944)

IMU

Ambient light sensor

Proximity sensor

Buttons

Brightness: Turn up/down the brightness of display

Volume: Turn up/down the volume

Connectivity

USB-C

Compatible with devices equipped with a full-function USB-C port.

Accessories

Corrective lenses (ocular vision) can be attached to the smart glasses via magnets. The device can compensate for myopia up to -8.0 D.

Nose pads: 3 sizes to choose from



MIXED
REALITY

**COMPUTING
UNIT**

02



Size

77 mm x 77 mm x 23 mm

Weight

140g

CPU & GPU

Qualcomm® Snapdragon™ 845 SoC

CPU: 8 Qualcomm® Kryo™ 385 64-bit core

GPU: Qualcomm® Adreno™ 630

RAM

6 GB

Storage

64 GB

Battery

7100mAh built-in battery

3.0 USB-C fast charge

Operation System

Android 8.0

Development Platform

Support Unity SDK

Main functions include: 6-DOF spatial positioning, plane recognition, picture recognition, low-latency rendering, gesture recognition, etc.

Button

Power key: functions: turn on / off / sleep / wake up the device

Volume key: functional for volume adjustment

LED Indicator

LED color indicator indicates status and power

Accessories

Hanging clip for easily carrying around the computing unit

Connect

Bluetooth 5.0, WiFi 802.11ac, USB-C, Micro-USB



MIXED
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CONTROLLER

03



Size

53 mm x 53 mm x 13 mm

Weight

20g

Tracking

3 DoF

Touch pad

Touch and pressure

Support sliding and customization

LED Indicator

LED color indicator indicates connection status and power

Battery

Built-in battery

Connect the computing unit to the box to pair and charge

Connect

Low Power Consumption Connection by Bluetooth



nreal Light Controller



nreal Phone Controller





Contact



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