Specification

General - VR

Dimension & weight (headset's in the process of optimization)

Width 200 mm
Height 100 mm
Depth 90 mm
Weight 350-400 g

Supported smartphones

Max. size in mm (H x W x D) $160 \times 83 \times 11 \text{ mm}$ Min. size in mm (H x W x D) $135 \times 67 \times 6 \text{ mm}$

Min. resolution FULL HD

Min. screen size 5"

Optics

Virtual Reality FOV 105°
3D Home Theater FOV 55°
Lenses size 48 mm

IPD coverage 55-72 mm

Sharpness regulation Covers nearsighted and farsighted eyes

(in the range from -3 diopter to +3 diopter)

10 mm of regulation in total

Lenses-to-eyes distance regulation 15 mm of regulation in total

Lens type Plastic

Cmoar sensors to smartphone connection

Smartphones with USB OTG (USB HOST) Micro USB dongle - radio connection with

latency <1 ms

Smartphones without USB OTG Bluetooth 4.0 LE - with latency < 8 ms

In-built electronics

Headtracking 6 DOF IMU output 1000 Hz

(accelerometer, gyrometer, magnetometer)

Radio communication 2.4 GHz Bluetooth 4.0 LE 2.4 GHz

Proximity sensor

Battery capacity 1000 mAh

Average battery life 15 h Charging time 2 h

Rechargeable via microUSB cable

Motion-to-Photon Latency

Bluetooth connection <30 ms Cmoar Radio connection <20 ms

Physical User Interface

Analogue
Back button
OK button
Menu button
Camera button

Ergonomics & Design

Head mounting Elastic, adjustable to head

Head mounting regulation By Velcro

Illumination Polychromatic, depending on the action

taken by the headset

Isolation of light Yes
Age of use 13-up

Color Black & red

Accessories

Full HD Add-on screen

Screen size 5,98"

Resolution 1920x1080 px

Display type TFT LCD Refresh rate 60 Hz

Connection with sensors Yes

Weight 40 g

2K Add-on screen

Screen size 5,98"

Resolution 2560x1440 px

Display type TFT LCD
Refresh rate 60 Hz

Connection with sensors Yes

Weight 40 g

3D Home Theater

FOV 55° Width 200 mm Height 100 mm Depth 130 mm

Color Black & grey

Cmoar Motion Controller

In-built sensors 6 DOF IMU output 1000 Hz

Accumulator capacity 3000 mAh

Average battery life 45 h

Connection Micro USB cable

Supported devices iOS, Android, Windows, Cmoar VR

Communication Bluetooth 4.0 LE / Cmoar Radio 2.4 GHz

Weight 100 g

Power Bank

Battery capacity 13000 mAh

Charging time ~15 h

Cmoar Stand

Headset charging function Yes

Output 5 V

Amperage 500 mA

Additional accessories in the box

USB cable for charging Manual Warranty

Warranty

Time Two years