VUZIX M400

This generation of M-Series products delivers increased processing power with the switch to the Qualcomm SXR1 platform with 8 cores and increased RAM and storage. The mechanical design has been ruggedized and waterproofed for wider-ranging applications like harsh environments where safety and durability are needed most. The display has been upgraded to an OLED panel while keeping the same resolution. The camera has also been improved, increasing the performance of scanning and telepresence capabilities.

The Snapdragon XR1 platform integrates Qualcomm Technologies' heterogeneous computing architecture, including an ARM-based multicore Central Processing Unit (CPU), vector processor, Graphics Processing Unit (GPU) and Qualcomm® AI Engine. The Snapdragon XR1 allows for power efficient on-device processing of vision-based machine learning algorithms that can help with key Augmented Reality (AR) use cases like superior pose prediction, object classification, etc. The Snapdragon XR1 platform is also designed to deliver an immersive User Interface (UI) experience, with features such as native voice processing, motion tracking, head tracking and more.

VUZIX M400

First Smart Glasses with Dedicated XR1 Platform

TECHNICAL SPECIFICATIONS[1]

OPTICS
- Display resolution: nHD color display
- Display type: OLED
- Aspect ratio: 16:9
- Field of View (diagonal): 16.8 degrees, equivalent to a 5 in. mobile device screen seen at 17 inches
- Brightness: > 2000 nits
- Contrast: > 10,000:1
- 24-bit color with true black
- Supports left or right eye use

SYSTEM
- 8 Core 2.52Ghz Qualcomm XR1
- 6GB LPDDR4 RAM
- 64GB internal flash memory
- Android 9.0 OS
- OS and apps OTA upgradeable
- MDM available from multiple partners

CERTIFICATIONS[2]
- Drop safe to 2 meters
- IEC60601-2:2014 Medical Device
- IP67 rated protection against water and dust (Longevity Series)

UNIVERSAL M-Series RAIL FOR VARIOUS MOUNTING OPTIONS
- Vuzix M-Series Rail Eyeglass frames without lens (standard)
- Weighs less than 3 oz.
- Eyeglass frames with lens
- Safety glasses
- Hard hat mount
- Headband mount
- Peltor headphone mount

BATTERY
- 135mAh internal battery supports hot swapping of external batteries
- 750 mAh IP67 certified USB-C battery with 3-level LED indictor (Longevity Series)
- Extended life 3350 mAh USB-C battery (Extended Series)
- Can be powered by 3rd-party USB battery packs in place of head-worn battery
- 2 – 12 hours of operation based on external battery choice

CONTROLS
- 3 control buttons
- Voice control – customizable and supports multiple languages
- 2 axis touchpad with multi-finger support

AUDIO
- Integrated speaker (up to 97db output)
- Triple noise-cancelling microphones
- BT audio: HSP / A2DP

CAMERA
- Up to 12.8-megapixel stills
- Up to 4k30 video
- Improved auto-focus (PDAF)
- Improved optical image stabilization
- LED flash/scene illumination
- Barcode scanning

CONNECTIVITY
- USB 3.1 Gen 2 on USB Type-C
- Wi-Fi 2.4/5Ghz 802.11 a/b/g/n/ac
- Bluetooth 5.0 BR/EDR/LE

INTEGRATED HEAD TRACKER
- 3-degree of freedom head tracking
- 3 axis gyro
- 3 axis accelerometer
- 3 axis mag/integrated compass

GPS
- GPS / GLONASS

ENVIRONMENT
- Operating temperature -20ºC to 45ºC/-4ºF to 113ºF
- Operating humidity 0-95% RH
- Storage temperature 10-45ºC
- Storage humidity 0-95% RH

[1]Specifications are subject to change   [2]Targeted Certifications

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