

VUZIX®



VUZIX M400™

First Smart Glasses with Dedicated XR1 Platform

We are pleased to announce the debut of Vuzix' next generation enterprise smart glasses, the M400. Based on the industry leading M-Series platform, the M400 features the newest Qualcomm® Snapdragon™ XR1 platform. Snapdragon XR1 is the first dedicated XR platform from Qualcomm Technologies designed to accelerate high quality video, audio, and interaction experiences on smart glasses. Vuzix' focus on wearability, experience, and form factor, combined with the power of the XR1, will drive smart glasses performance and functionality to the next level.

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.

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TECHNICAL SPECIFICATIONS¹

OPTICS

- Display resolution: nHD color display
- Display type: OLED
- Aspect ratio: 16:9
- Field of View (diagonal): 17 degrees, equivalent to a 5 in. mobile device screen seen at 17 inches.
- Brightness: >1600 nits
- Contrast: > 100,000:1
- 24-bit color with true black
- Supports left or right eye use

SYSTEM

- 8 Core Qualcomm XR1
- 6GB system RAM
- 64GB internal flash memory
- Android 8.1 OS
- OS and apps OTA upgradeable
- MDM available from multiple partners

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

- 94mAh internal battery supports hot swapping of external batteries
- 860mAh smart external battery with 3-level LED indicator
- Supports USB batteries providing at least 1 Amp
- 2 – 12 hours of operation based on external battery choice

CONNECTIVITY

- USB 3.1 Gen 2 on USB Type-C
- Wi-Fi a/b/g/n/ac – Dual-B 2.4/5 GHz
- BT 5.0

INTEGRATED HEAD TRACKER

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

GPS

- GPS / GLONASS

AUDIO

- Ear speaker (up to 97db output)
- 3 noise canceling microphones
- BT Audio: HSP / A2DP

CAMERA

- Up to 12.8 megapixel stills
- Up to 1080p60 video
- Auto-Focus (PDAF)
- Optical Image Stabilization
- Flash/Scene illumination
- Barcode scanning
- Telephoto lens add-on

CONTROLS

- 3 standard Android control buttons
- Voice control – customizable and supports multiple languages
- 2 Axis touchpad with multi-finger support

CERTIFICATIONS²

- IP67
- Drop Safe to 2 meters
- MIL-STD-810

¹Specifications preliminary and subject to change

²Targeted Certifications

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