



Fully rugged performance

The RealWear® HMT-1Z1 is an intrinsically safe ATEX Zone 1 and CSA C1/D1 certified fully rugged head-mounted device. Use it in wet, dusty, hot, dangerous environments. It optionally snaps into safety helmets and can be used with safety glasses or corrective eyewear.

The high-resolution micro display fits just below your line of sight and views like a 7" tablet. It's an industrial dashboard: there when you need it and out of your way when you don't.

The HMT-1Z1 works with powerful software applications from our solution partners in four core categories, each optimized for completely hands-free voice control. That means no scrolling, swiping, or tapping - just simple voice commands. Use it for remote mentor video calling, document navigation, digital workflow, mobile forms and industrial IoT data visualization.



HMT-1Z1

product specifications

Core platform & functions

Operating System

Chipset Memory

Included Applications Languages Supported

Connectivity & sensors

Bluetooth

Wi-Fi

GPS and Location

IMU

Battery

Capacity

Battery Life

Physical characteristics

Weight

Ruggedization

Dedicated keys

Ports

Boom arm

Display

Туре

Resolution

Audio

Microphones

Speaker

Multimedia

Camera

Video

Accessories

Included Optional Android 8.1 (AOSP) + WearHF™ hands-free interface

2.0 GHz 8-core Qualcomm® Snapdragon™ 625 with Adreno 506 GPU - OpenGL ES 3.1 & OpenGL 2.0

16 GB Internal Storage / 2 GB RAM / MicroSD slot (max card supported 64 GB)

Document Navigator, Camera with Barcode Reader, Video Recorder, Media Player

English, Spanish, French, German, Italian, Portuguese, Russian, Mandarin Chinese,

Japanese, Korean, Thai, Polish

Bluetooth Low Energy 4.1

802.11 a/b/g/n/ac - 2.4GHz and 5GHz

GPS, GLONASS, A-GPS

9-DOF (3-axis accelerometer, magnetometer, and gyroscope), software enhanced stabilization

3400 mAh/12.24 wH Li-lon, non-removable, rechargeable; charging cable contains an inline "safety box"

Full shift (8-10 hrs) with typical use

430 g

Intrinsically Safe, 2 meter drop, IP66, MIL-STD-810G

Power key, application specific action key

3.5mm audio, 1 micro-USB for data and charging

Adjusts six ways for all head sizes, left or right eye compatible, display flips out of way when not in use

20° field-of-view, 1 meter fixed focus, 24-bit color LCD, 0.33 inch diagonal, outdoor visible

WVGA (854x480)

4 digital microphones with active noise cancellation

Accurate voice recognition even in 95 dBA of typical industrial noise

16 MP 4-axis optical image stabilization, PDAF with LED Flashlight

Up to 1080p @30fps. Codecs: VP8, VP9 and hardware encoding support for H.264, H.265 HEVC

Overhead strap and rear pad (not attached), and intrinsically safe inline safety box charging cable Hard hat clips, Intrinsically Safe ear bud hearing protection headphone rated at 33dB noise reduction

rating (NRR), replacement overhead straps, and rear pads.

For more information contact:

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