



RealWear HMT-1Z1 – Industrial smart glasses for hazardous areas

- ✓ Protection classifications for use in hazardous environments
- ✓ Hands-free operation with access to information and communication
- ✓ Video remote support for maintenance and assistance
- ✓ Digital directional microphones and active noise cancellation for use in noisy environments
- ✓ Android 10 and WiFi/Bluetooth interfaces for diverse software solutions

Specs

MicroDisplay 854×480 px (**appears like 7"**)

16 MP camera, autofocus & image stabiliser for high-resolution photo shooting and video calls

Multiple digital directional microphones & advanced active noise cancellation

Voice control suitable for use in **loud industrial noise** up to 95dB - no buttons, swiping or gestures

17 languages

Built-in **91dB speaker** and 3.5mm jack for headphones (with ear protection)

IP66 - dustproof & waterproof - 2 metre drop protection on concrete

Intrinsically safe: ATEX, IECEx und NEC500

Android 10 Qualcomm Snapdragon 626 platform, 3 GB RAM / 32 GB Flash

Wi-Fi + Bluetooth LE. Tether to smartphones, Mi-Fi or plug-in USB dongles for LTE access

8h battery life

GPS, gyroscopes and **digital compass** for positioning. Detects Bluetooth beacons

Weighs only **380 g**

Clips for mounting on **safety helmet**

Accessories

3-point head strap RW-HMT-TRIS

Workband

Helmet clips

Belt clip RW-HMT-BECL

Padded carry bag

Hard shell suitcase

Hard shell suitcase for HMT-1 + helmet

Platform & Features

Operating system: Android 8.1.0 (AOSP) + WearHFT™ Hands-Free Interface

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

Memory: 16 GB internal memory / 2 GB RAM / MicroSD slot (max. 256 GB)

Included applications: Document Navigator, camera with barcode reader, video recorder, media player

Supported languages: : English, German, Spanish, French, Italian, Portuguese, Polish, Russian, Mandarin & Chinese, Japanese, Korean, Polish, Indonesian, Thai

Connectivity & Sensors

Bluetooth: Bluetooth Low Energy 4.1

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

GPS and localization: GPS, GLONASS, A-GPS

IMU: 9-DOF (3-axis acceleration, magnetometer, gyroscope)

Battery

Capacity: 3400 mAh Li-Ion, exchangeable

Duration: 8 h for typical use

Physical Properties

Weight: 430 g

Keys: On/Off, application-specific action key

Ports: 3.5mm audio, 1 Micro-USB, 1 USB Type-C

Boom arm: freely adjustable, for right or left eye, when not in use simply fold away

Protection: IP66, MIL-STD-810G, 2 m drop test, dust-tight, waterjet-proof

Ex Protection:

ATEX: II 2G Ex ib IIC T4 Gb | II 2D Ex ib III C T135°C Db IP6X

IECEX: Ex ib IIC T4 Gb | Ex ib III C T135°C Db IP6X

NEC500: Class I, Division 1, Groups A, B, C, D T4 | Class II & III, Division 1, Groups E, F, G T4

Display

Type: 20° field of view, 1 meter fixed focus, 24-bit color LCD, 0.33 inch diagonal, also outdoor good readability

Resolution: WVGA (854×480)

Audio

Microphones: 4 digital microphones with active noise cancellation, precise voice control even at 95 dBA typical industrial noise

Loudspeaker: max. volume 91 dB

Multimedia

Camera: 16 MP 4-axis optical image stabilisation, PDAF with LED light

Video: Up to 1080p @30fps. Codecs: VP8, VP9 and hardware encoding support for