

HMT-171®

World's first intrinsically safe, hands-free Android™ tablet class wearable computer for industrial workers.

Go Beyond.

Fully Rugged Performance.

The RealWear® HMT-1Z1™ is an intrinsically safe ATEX Zone 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.

ATEX ZONE 1 AND CSA C1/D1
100% Hands Free

Intrinsically Safe

Voice based operating system with local speech recognition in loud areas.

Unmatched	Noise Cancellation
Four digital mi	crophones and
advanced algo	rithms.

Powerful Audio Integrated speaker and 3.5mm audio jack

for use with hearing protection.

PPE Compatible
Designed to work with standard hard
helmets, bump caps and safety glasses.

Full Shift Internal Battery 8-10 hours with typical use.



Class I, Division 1, Groups A,B,C,D T4 Class II

& III, Division 1, Groups E,F,G T4



NFC500



C1/D1 and ATEX Zone 1 Intrinsically Safe for Oil, Gas & Chemical Industries



Outdoor Display

Appears size of 7" tablet, viewable in bright sunlight.

Water Resistant

IP66 - Protected against heavy seas or powerful jets of water.

Dust Tight

IP66 - Complete protection against the ingress of micro particles.

Drop Proof

Resistant to 2 meter drops onto concrete from any angle.

Built Rugged Fully operational from -20° C to +50° C MIL-STD-810G.



realwear.com

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HMT-1Z1® Product Specification



Core Platform & Functions			
Operating System	Android 8 (AOSP) + WearHF™ 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 Storage / 2 GB RAM / MicroSD slot (max card supported 64 GB)		
Included Applications	Document Navigator, Camera with Barcode Reader, Video Recorder, Media Player		
Languages Supported	English, Spanish, French, German, Italian, Portuguese, Russian, Mandarin Chinese, Japanese, Korean, Thai, Polish		

Connectivity & Sensors	
Bluetooth	BT 4.1 LE (Low Energy)
Wi-Fi	802.11 a/b/g/n/ac - 2.4GHz and 5GHz
GPS and Location	GPS, GLONASS, A-GPS
IMU	9-DOF (3-axis accelerometer, magnetometer, and gyroscope), software enhanced stabilization

Battery	
Capacity	3400 mAh Li-lon, non-removable, rechargeable charging cable contains an inline "safety box"
Battery Life	Full shift (8-10 hrs) with typical use

Physical Characteristics	
Weight	430 g
Ruggedization	Intrinsically safe, 2 meter drop, IP66, MIL-STD-810G
Dedicated Keys	Power key, application specific action key
Ports	3.5mm audio, 1 micro-USB for data and charging
Boom Arm	Adjusts six ways for all head sizes, left or right eye compatible, display flips out of way when not in use

Display	
Туре	20° field-of-view, 1 meter fixed focus, 24-bit color LCD, 0.33 inch diagonal, outdoor visible
Resolution	WVGA (854x480)

Audio		
Microphones	4 digital microphones with active noise cancellation Accurate voice recognition even in 95 dBA of typical industrial noise	
Speaker	Internal 91 dB loudspeaker	
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Multimedia	
Camera	16 MP 4-image stabilized, PDAF with LED Flashlight
Video	Up to 1080p @30fps. Codecs: VP8, VP9 and hardware encoding support for H.264, H.265 HEVC

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Accessories			
Included	Overhead straps and rear pads (not attached), and intrinsically safe inline safety box		
Optional Hard Hat Clips, Intrinsically Safe Ear Bud Hearing Protection Headphone rated at 33dB noise reduction rating (NRR), Replacement Overhead Straps and Rear Pads		ne rated at 33dB noise reduction	
ST Engineering is an authorised value-added reseller of RealWear in Singapore and Vietnam. Version 22.5 050292019			