

LEADING EDGE INNOVATIONS PRESENTS

CONNECTED MINER SOLUTION



PROUDLY PARTNERED WITH
realwear

LEADINGEDGEINNOVATIONS.COM.AU



INTRODUCING THE **CONNECTED MINER SOLUTION**

A state-of-the art, ruggedised assisted reality solution designed specifically for the Mining Industry.

Improve safety, productivity and compliance with secure hands-free, voice-enabled collaboration.

Built to tackle operational challenges, mitigate safety risks, and reduce the emerging knowledge gap from retiring experts. Experience hands-free communication and streamlined two way data sharing, that will revolutionise knowledge sharing for your frontline teams in hazardous environments.

From operating heavy machinery to capturing content for future training and references, the revolutionary, wearable, assisted reality technology incorporated in this solution, partnered with custom workflow and Microsoft Teams integration, is designed to create efficiencies by providing your team with access to resources when they need them and freeing their hands in the most challenging of environments.

Utilising the power of a built-in screen, high definition camera, voice activation and Leading Edge Innovations' team of certified technicians and trainers, your workers and operators can be instantaneously remotely connected with the tools and personnel required, anywhere, anytime, completely hands-free. Initiate calls with simple voice commands and dictation in 14 languages, capture images and videos, play back training videos, refer to manuals, check compliance, follow digital workflow for complex procedures, order parts and more. All on site, all in real time.

Australia can be a harsh environment. Heat, dust, unforgiving landscapes. This solution has been designed to withstand extreme conditions making it ideal for mining environments. With IP66 rating for dust and water, and used in temperatures ranging from -20C to +50C. RealWear is also shockproof and can work with existing safety equipment, including those that wear glasses or protective glasses, with a hot-swappable battery for full shift use. The built-in smart camera is designed to work even in very low light with full zoom features so your worker or operator can share their point of view instantly whilst still using their hands to point to issues or continue to work. Unrivaled noise cancellation capability means you will always be able to hear and be heard even in the noisiest of environments up to 100dBA.

PRODUCTIVITY



STAY CONNECTED WHEREVER YOU ARE

Faster connectivity with Wi-Fi 6/6E with an optional 5G solution.



VIEW EVERYTHING YOU NEED AT A GLANCE

720p HD display plus 128GB to store content locally.



SHARE WHAT YOU SEE IN INCREDIBLE DETAIL

48MP camera with advanced image stabilisation.



SAFETY



COMFORTABLE FOR ALL-DAY USE

The lightest, toughest ATEX Zone 1 and CSA C1/D1 and mining-certified wearable.



BE HEARD IN ANY ENVIRONMENT

Noise cancellation enables voice operation in high ambient noise areas up to 100dBA.



RUGGED FOR DEMANDING ENVIRONMENTS

Stress tested, drop tested, and able to withstand extreme temps.



FUTURE



RUN TASKS WITH AI- POWERED APPS

AI Core processor will continue to enable new use cases.



CUSTOMISE FOR THE WAY YOU WORK

Modular design and accessories provide additional functionality.



SEE THE INVISIBLE WITH THERMAL CAMERA

Optional unit to identify abnormal heat signatures.



KEY APPLICATIONS

MAINTENANCE AND ASSET INTEGRITY

Ensuring production and operations equipment are maintained in an efficient state and working order is a time intensive process. With RealWear, workers can capture photos and videos, refer to documentation or troubleshoot with a remote expert. When workers run into a problem they can't fix, a remote expert can annotate on their computer screen or share technical documents through RealWear all while still on the call to troubleshoot the issue.

OPERATIONS

Hands-free access to work instructions, learning and expert assistance ensures that frontline technicians and operators do every job right the first time. Data collection via voice provides further efficiency, enabling users to update asset information without any manual input. RealWear mitigates errors in data entry and decreases the cost of labor and operations through remote mentor and visual assist capabilities.

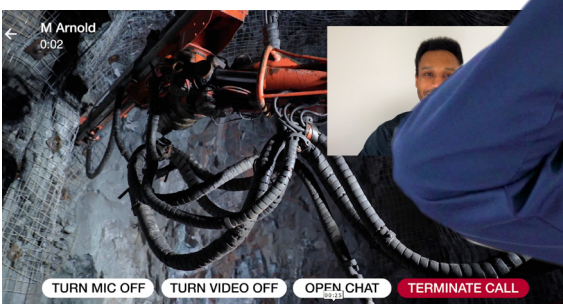
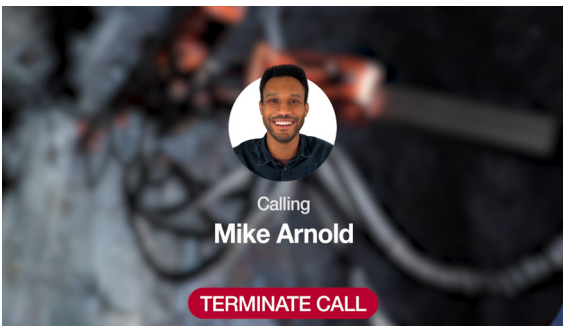
SAFETY

Moving from a hand-held to a hands-free device, and removing the necessity for the worker to remove their gloves, enables workers to be fully protected while maintaining full situational awareness. Ideal for hands-free audits and inspections, in-field training and emergency response support. Equipped with a high-definition camera for capturing photos and videos in hard-to-reach places like tunnels, towers, or behind large machinery and equipment. Workers can leverage the device for hands-free verification and visual documentation.

"A new era of computing has arrived. Just as laptops and mobile phones are standard for desk workers, voice command and augmented reality for wearable computers will become commonplace for field staff in our industry, driving safety and productivity."

**Digital Realities Lead,
Global Mining Company**

DEPLOYED GLOBALLY



LIMITED TIME SPECIAL OFFER

SCAN THE QR CODE TO GET YOUR EXCLUSIVE IMARC LIMITED TIME SPECIAL PRICE



REALWEAR NAVIGATOR® Z1 SPECIFICATIONS



Core platform and functions

Operating System	Android 12 (AOSP) + WearHF® hands-free interface
Chipset	Qualcomm® QCS6490
Memory	128 GB Internal Storage / 8 GB RAM
Included Applications	Document Navigator, Camera with Barcode Reader, Audio Recorder, Video Recorder, Webpage Viewer, Cloud Sync, Media Player, Calculator, Pedometer, Timer
Languages Supported	Chinese (Cantonese, Mandarin-Simplified and Traditional), Czech, Danish, Dutch, English (American, Australian, British, Indian), French, German, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Thai, Turkish

Connectivity and sensors

Bluetooth	Bluetooth Low Energy 5.2
Wi-Fi	Wi-Fi 6 (802.11ax) and Wi-Fi 6E (6 GHz)
GPS and Location	GPS, GLONASS, NavIC, BeiDou, Galileo, QZSS, and SBAS
IMU	9-DOF (3-axis accelerometer, magnetometer, and gyroscope), software enhanced stabilization

Battery

Capacity	2550 mAh Li-Ion; removable and rechargeable (Outside of Zone 1)
Battery	Life Full shift with typical use

Physical characteristics

Weight	383g
Ruggedization	Intrinsically Safe (ATEX Zone 1 and CSA C1/D1), 2 meter drop tested, IP66, MIL-STD-810H
Ports	3.5mm audio, 1 USB-C 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
Operating Temperature	-4° F to +131° F / -20° C to +55° C

Display

Type	24° field-of-view, 24-bit color LCoS, 0.35 inch diagonal, outdoor visible
Resolution	HD (1280x720)

Audio

Microphones	4 digital microphones with active noise cancellation. Accurate noise cancellation up to 100dBA
Speaker	Internal 94dBA loudspeaker

Multimedia

Camera	48 MP Sensor, PDAF with LED flashlight, modular (removable outside of Zone 1)
Video	Up to 1080p @ 60fps, >6X zoom in HD, video stabilization. codecs: VP8, VP9, H.264, H.265 HEVC

Accessories

Included	Intrinsically Safe inline safety box charging cable, RealWear Protective carry case, Tri band strap and PPE Clips. Works with most RealWear Navigator accessories including mounting solutions, Intrinsically Safe hearing protection, replacement clips, and more. Single Battery Charger and Thermal Camera Module are planned future accessories. Not all accessories are rated for IS zones.
----------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------