REALWEAR NAVIGATOR™ 500

The Next Generation Industrial Strength Assisted Reality Solution

The RealWear Navigator™ 500 is the leading ruggedized assisted reality solution designed to engage, empower and elevate the modern frontline worker. Connect and collaborate with remote experts, follow digital workflows, visualize IoT data and much more. Safely reduce downtime, improve quality and employee productivity, while realizing significant ROI.

Built for Productivity. Designed for Safety.

Full-Shift, Hands-Free Use

Work comfortably all day and easily hot-swap your battery without losing a minute on the job.

Enhanced Remote Collaboration

Improves productivity, saves travel costs and reduces equipment downtime.

Revolutionary Modular Design

Enables on-the-job agility and adaptability to support even more use cases.

Secure, Seamless Sign-On & Enterprise Deployment

Reduces time and friction to get devices up and running, deployed and managed securely.

Transform Your Frontline

Works with more PPE than other head-worn devices.

Hot-swappable battery for full shift use.

Stunning, modular 48MP camera sensor even in low light settings.

Unrivaled noise cancellation with 4 microphones for hands-free use.

Drop tested, dust tight and water resistant for challenging work environments including extreme heat up to 122°F / 50°C.

Clear, vibrant display, that views like a 7" screen.

RealWear Navigator™ 500 Specifications

General	
Operating System	Android 11 (AOSP) + WearHF™ hands-free interface + Enterprise features
Chipset	2.0 GHz 8-core Qualcomm® Snapdragon™ 662 with Adreno 610 GPU - OpenGL® ES 3.2 & OpenCL™ 2.0
Memory	64GB internal storage / 4GB RAM / MicroSD slot (max card supported 512GB)
Weight	9.5oz/270g
Ruggedization	IP66, MIL-STD-810H, 6.5 feet / 2-meter drop
Dedicated Buttons	Power button (with integrated fingerprint sensor), Programmable: action button, left button, right button
Ports	1/8" / 3.5mm audio, 1 USB Type-C
Boom Arm	Adjusts six ways for most head sizes, left or right eye compatible, display can be moved out of way when not in use
Operating Temperature, Humidity	-4°F to +122°F / -20°C to +50°C, 5% to 95% relative humidity (non-condensing)
Included Applications	Document Navigator, Camera with Barcode Reader, Audio Recorder, Video Recorder, Webpage Viewer, Cloud Sync, Media Player, Calculator, Pedometer, Timer
Languages & Dialects Supported	Chinese (Cantonese, Mandarin-Simplified and Traditional), Czech, Dutch, English (American, Australian, British), French, German, Indonesian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Thai
Sign-in Options	Companion App, Voice Keyboard with secure mode

Connectivity & Sensors	
Bluetooth	Bluetooth® 5.1
Wi-Fi	802.11 a/b/g/n/ac - 2.4 GHz and 5GHz
GPS and Location	• GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS • NavIC support • Dual-Frequency GNSS (L1 + L5) • Qualcomm® Sensor-Assisted Positioning
IMU - Head Movement Tracking	3 IMUs (including 3-axis accelerometers, gyroscopes, eCompass)

Battery	
Capacity	2,600 mAh / 10.0 Wh Li-polymer, rechargeable, hot-swappable

Security	
Security	Qualcomm® Trusted Execution Environment, Crypto Engine, Secure Boot

Display	
Type	20° field-of-view, 24-bit color LCD, 0.32-inch diagonal, outdoor visible
Resolution	WVGA (854X480)

Audio	
Microphone	4 digital microphones with active noise cancellation Accurate voice recognition in noise up to 100 dBA
Speaker	Internal 94 dBA loudspeaker

Camera	
Image	48 MP Sensor, PDAF with LED flashlight
Video	Up to 1080p @ 60fps, >6X zoom in HD, video stabilization. codecs: VP8, VP9, H.264, H.265 HEVC

Compatibility	
PPE	Works with many hard hats, protective eyewear, masks and more

Warranty	
Warranty	1-Year Warranty
Extended Service & Support Plans	Available

Accessories	
Included	Workband, USB Type-C charging cable

Cloud Services	
Foresight	Accelerates centralized deployment and management of devices

Model Name T21G
Specifications are subject to change without notice.