



Realwear Navigator™ 520

The Next Generation Industrial
Strength Assisted Reality Solution



The Realwear Navigator™ 520 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

Hot-swappable battery for full shift use.

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

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



Works with more PPE than other head-worn devices.

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

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

RealWear Navigator™ 520 Specifications

General	
Operating System	Ari OS 2.0 (Android 13 based)
Chipset	2.0 GHz 8-core Qualcomm® Snapdragon™ 662 with Adreno 610 GPU - OpenGL® ES 3.2 and OpenCL™ 2.0.
Memory	64GB internal storage / 4GB RAM / micro SD card slot (max card supported 512GB).
Weight & Dimensions:	9.5 ounces (270 grams).
Ruggedization	IP66, MIL-STD-810H, 6.5-foot (2-meter) drop.
Ports	1/8-inch (3.5 mm) audio, 1 USB Type-C.
Temperature, Humidity	-20°C to 45°C/ Humidity: 10% to 80% (non-condensing)
Languages & Dialects Supported	Chinese (Cantonese, Mandarin-Simplified and Traditional), Czech, Dutch, English (American, Australian, British), French, German, Indonesian, Italian, Japanese, Korean, Polish, Portuguese, Ukrainian, Spanish, Thai
Sign-in Options	Companion app, voice keyboard with secure mode.
Display	
Display Technology	24° FOV, LCOS, outdoor visible.
Resolution	HD 1280x720
See Through	No
Connectivity & Sensors	
Bluetooth	Bluetooth® 5.1.
Wi-Fi	802.11 a/b/g/n/ac – 2.4GHz and 5GHz.
Battery	
Capacity	2600 mAh / 10.0 Wh Li-polymer, rechargeable, hot-swappable.
Security	
Security	Qualcomm® Trusted Execution Environment, Crypto Engine, Secure Boot
Audio	
Microphone Count	4 digital microphones with active noise cancellation. Accurate voice recognition in noise up to 100 dBA.
Technology	Noise reduction and echo cancellation
Speaker	Internal 94dbA loudspeaker.
Camera	
Image	48 MP sensor, PDAF with LED flashlight. 82° FOV
Video	Up to 1080p at 60fps, > 6X zoom in HD, video stabilization
Video Capabilities	4K at 30fps, 1080p at 120fps
Supported Codecs	VP8, VP9, H.264, H.265 HEVC
Accessories	
Included	Workband, USB Type-A cable, Quick Start Guide
Cloud Services	
Ari Cloud	Accelerates centralized deployment and management of devices
Operating Environment	
Supported Eye Use	Left or right eye compatible, display can be moved out of the way when not in use.
Compatible With	Helmets, prescription/safety glasses, masks, in-ear hearing protection, Bluetooth & wired in-ear headphones