



Lightweight robustness

The RealWear Navigator 500 smart glasses are particularly robust and comfortable to wear. Information for various purposes can be safely navigated on the dynamic display via voice control, and the user's hands are always free for tools and a secure grip. With the flexibly adjustable display arm, all users can find an ideal positioning, and the display can also be simply rotated completely out of the field of vision.

Several features of the RealWear Navigator 500 ensure reliable communication: the automatic noise suppression allows understandable conversations even in the presence of 100 dB of loud ambient noise, and the 48-megapixel camera with 6x zoom allows the smallest details and fast movements to be transmitted live in razor-sharp detail. The data connection is made with current WLAN and Bluetooth standards or with an optional mobile modem.

The Android 11 operating system ensures quick integration and simple management of the smart glasses via EMM. Over 200 apps optimised for RealWear devices offer the right tool for every application. Several apps are already pre-installed on the device for easy access and basic functionalities. Voice control in 16 languages (German, English, French, Italian, Russian, Polish, Czech, Spanish, Portuguese, Dutch, Chinese (Cantonese, Mandarin Simplified and Traditional), Indonesian, Japanese, Korean, Thai) allows

a quick start, with virtually no training required. The fingerprint sensor integrated into the power button offers additional security against unauthorised access.

For areas where helmets are not mandatory, the RealWear Navigator 500 can be worn with the included workband. Mounting on safety helmets is done in a few simple steps; matching helmet clips are available for a wide range of manufacturers and models. In both cases, the reduced weight of 272 grams and the durable padding ensure a comfortable wearing experience.

Neither drops of up to 2 metres nor liquids or dust can harm the RealWear Navigator 500. The robust smart glasses are also ready for use in temperatures ranging from -20 to +50 °C. The external battery can be replaced without switching off the device, ideal for quick shift changes and particularly long operations.

Features

Display: 854 × 480 px display (appears like 7 inch)

Audio: 4 microphones, 94 dB loudspeaker

Voice control: 16 languages

Camera: 48 MP, image stabilisation, LED light

Protection: IP66, dropproof up to 2 metres

Battery: 6 - 8 h, can be changed without interruption

Connectivity: WLAN, Bluetooth

Additional features: GPS, eCompass, 3axis acceleration, gyroscope, fingerprint sensor

Operating system: Android 11

Processor: 2.0 GHz 8core Qualcomm Snapdragon 662

Memory: 64 GB (with additional SD card up to 512 GB), 4GB RAM

Operating temperature: -20 - 50 °C

Weight: 272 g

Optional accessories

Helmet clips

Head straps

LTE / 4G Modem

Chargers

Bags and cases

Thermal Camera

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	9.59oz / 272g
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, Everykey
Connectivity & Sensors	
Bluetooth	Bluetooth® 5.1
Wi-Fi	802.11 a/b/g/n/ac - 2.4 GHz and 5GHz
GPS and Location	<ul style="list-style-type: none"> • 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

Specifications are subject to change without notice.