

DATASHEET

REALWEAR NAVIGATOR Z1



APPROVALS



ATEX approval: EX-Zone 1/21
 ⚡ I M1 Ex ia I Ma
 ⚡ II 2G Ex ib IIC T4 Gb
 ⚡ II 2D Ex ib IIIC T200°C Db



UKCA approval: EX-Zone 1/21
 ⚡ I M1 Ex ia I Ma
 ⚡ II 2G Ex ib IIC T4 Gb
 ⚡ II 2D Ex ib IIIC T200°C Db



IECEx approval: EX-Zone 1/21
 Ex ia I Ma
 Ex ib IIC T4 Gb
 Ex ib IIIC T200°C Db



North America approval:
 INTRINSICALLY SAFE
 Class I Division 1 Groups ABCD T4
 Class II Division 1 Groups EFG T200 °C,
 Class III

Further approvals: IA (South Africa) | INMETRO (Brazil) | PCEC (China) | TIIS (Japan) | KCs (South Korea)

TECHNICAL FEATURES

Operating system	Android™ 12 (AOSP) + WearHF™ hands-free interface
Processor	Qualcomm® QCS6490
Memory	8 GB RAM 128 GB internal memory
Dimensions	Weight: 383 g
Display	0,35" 24° field-of-view, 24-bit color LCoS, outdoor visible 720 x 1280 pixels
Battery	2550 mAh Li-Ion removable and rechargeable for full shift use
Camera/Video	48 MP AF PDAF with LED flashlight Up to 1080p @ 60 fps, >6x zoom in HD, video stabilization. codecs: VP8, VP9, H.264, H.265 HEVC
Thermal camera	Thermal sensor: FLIR Lepton® 3.5, Thermal resolution: 160 x 120, Effective frame rate: 8.7Hz, FOV: 57° (H) nominal 71° (D) nominal, Object temp. range: -20 to 400 °C, Thermal sensitivity (NETD): <50mK, Spectral range: 8 to 14µm, Accuracy - High gain Mode: Greater of +/- 5 °C or 5% (typical), Low gain Mode: Greater of +/- 10 °C or 10% (typical)
Connections	Wi-Fi® 6/6E Bluetooth® 5.2 GPS, Glonass, Beidou, Galileo, NavIC, QZSS, SBAS
Interfaces	USB-C port 3,5 mm audio
Sensors	9-DOF (3-axis accelerometer, magnetometer, and gyroscope), software enhanced stabilization)
Types of protection	IP66 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C
Supported languages	German, English, French, Spanish, Italian, Portuguese, Chinese, Turkish, Czech, Dutch, Russian, Norwegian, Danish, Polish, Indonesian, Japanese, Korean, Thai

FURTHER FEATURES

100 % hands-free operation thanks to intuitive voice control

Included applications: Document Navigator, Camera with Barcode Reader, Audio Recorder, Video Recorder, Webpage Viewer, Cloud Sync, Media Player, Calculator, Pedometer, Timer

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

Internal 94 dB open-air loudspeaker with a visual warning that must be acknowledged above 80 dB. Standard acoustic output level is below 76 dB.

SET CONTENT

REALWEAR NAVIGATOR Z1, Battery, i.safe PROTECTOR 2.0 USB-C Cable, Carrying Case, Screwdriver, Safety Instructions.

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.