

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

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|----------------------------|--|
| 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.