



REALWEAR NAVIGATOR Z1

HEAD MOUNTED TABLET

APPROVAL

I M1 Ex ia I Ma
 II 2G Ex ib IIC T4 Gb
 II 2D Ex ib IIIC T200°C Db
 Ex ib IIC T4 Gb
 Ex ib IIIC T200°C Db
 Class I Div. 1 Groups A, B, C, D, T4
 Class II Div. 1 Groups E, F, G, T200°C
 Class III

OPERATING SYSTEM

Android™ 12 (AOSP) + WearHF™
 hands-free interface

DIMENSIONS

weight: 383 g

DISPLAY

0,35"; 24° field-of-view, 24-bit color LCoS,
 outdoor visible, resolution 720 x 1280 px

THERMAL CAMERA MODULE

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)

VISUAL CAMERA

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

WIRELESS COMMUNICATION

Bluetooth® 5.2, Wi-Fi® 6/6E, GPS,
 GLONASS, Beidou, Galileo, NavIC, QZSS,
 SBAS

PROCESSOR

Qualcomm® SQCS6490

MEMORY

8 GB RAM, 125 GB internal memory

INCLUDED APPLICATIONS

document navigator, camera with
 barcode reader, Audio Recorder, Video
 Recorder, Webpage Viewer, Cloud Sync,
 Media Player, Calculator, Pedometer,
 Timer

BATTERY

2550 mAh, replaceable and
 rechargeable, for full shift use

DEGREE OF PROTECTION

IP66
 MIL-STD 810H
 usable from -20 °C to +55 °C

Mobile phones, smartphones and tablets for ATEX zone 1, 2, mining and industrial use

The i.safe MOBILE GmbH is your partner for the development, approval and marketing of explosion-proof mobile communication devices. With more than 15 years of experience, i.safe MOBILE GmbH belongs to the most innovative and well-established experts worldwide.

Our priority is development of practice-oriented products based on the legal requirements. We place great emphasis on quality not only in the development of our products, but also by offering customized service to your needs and detailed maintenance plan. To improve upon customer relationship we rely on our authorized worldwide partner network.

In case you need an optimal solution from a technical and economic point of view – i.safe MOBILE GmbH is your expert.

We look forward to have a long-term and trusting relationship with you.

i.safe MOBILE product specifications



IP6X dust and
water protected



impervious to dust and
microparticles



operation range from
-20°C to +60°C



RugDisplay-Glass



cleaning with
germicide possible



amplified loudspeaker



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Zone M1 Mining



i.safe MOBILE



IS440.M1

5G RADIO

APPROVAL

Ⓔ I M1 Ex ia I Ma
 Ⓔ Ex ib IIC T4 Gb
 Ⓔ Ex ib IIIC T135°C Db
 Ex ia I Ma
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db

OPERATING SYSTEM

ISM-OS

DIMENSIONS

weight: 307 g
 size: 136,6 x 70 x 32 mm

DISPLAY

2,4" Corning® Gorilla® Glass,
 3rd generation with a resolution
 of 320 x 240 px

CAMERA

8 MP AF (front)

WIRELESS COMMUNICATION

Bluetooth® 5.2, NFC, Wi-Fi®, GPS,
 A-GPS, GLONASS, A-GLONASS, Beidou,
 Galileo, NavIC, QZSS, SBAS

PROCESSOR

Qualcomm® QCM6490

MEMORY

4 GB RAM, 64 GB internal memory

FREQUENCIES

4G LTE-FDD: B1/2/3/4/5/7/8/12
 with MFB1/13/14/17/20/25/26/28/29/
 30/66/68/71
 4G LTE-TDD: B38/39/40/41/42/43/48
 5G NR: n1/n2/n3/n5/n7/n8/n12/n14/
 20/n25/n28/n30/n38/n40/n41/n48/n66/
 n71/n77/n78/n79

BATTERY

2400 mAh, replaceable

SAFETY FUNCTIONS

function key red (e.g. SOS),
 side key left (e.g. PTT),
 LWP ready*, PTT ready*

DEGREE OF PROTECTION

IP68 dust-/waterproof
 MIL-STD 810H
 usable from -20 °C to +55 °C

IS540.M1

SMARTPHONE

APPROVAL

Ⓔ I M1 Ex ia I Ma
 Ⓔ II 2G Ex ib IIC T4 Gb
 Ⓔ II 2D Ex ib IIIC T135°C Db
 Ex ia I Ma
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db

OPERATING SYSTEM

Android™ 14

DIMENSIONS

weight: 422 g
 size: 180,0 x 84,9 x 20,6 mm

DISPLAY

6" Corning® Gorilla® Glass,
 3rd generation, resolution of
 1080 x 2160 px

CAMERA

48 MP AF (rear), 5 MP FF (front)

WIRELESS COMMUNICATION

Bluetooth® 5.2, NFC, Wi-Fi® 6, GPS,
 A-GPS, GLONASS, Beidou, Galileo

PROCESSOR

Qualcomm® QCM6490 Octa Core

MEMORY

8 GB RAM, 128 GB internal memory,
 microSD up to 128 GB

FREQUENCIES

GSM: 850/900/1800/1900 MHz
 WCDMA: B1/2/4/5/8
 LTE-FDD: B1/2/3/4/5/7/8/12
 with MFB1/13/ 14/17/20/25/26/28/28/
 29/30/66/71
 LTE-TDD: B38/39/40/41/42/43/48
 NR: n1/n2/n3/n5/n7/n8/n12/n20/n25/
 n28/n30/n38/n40/n41/n48/n66/n71/
 n77/n78/n79

BATTERY

4400 mAh, replaceable

SAFETY FUNCTIONS

function key red,
 LWP ready*, PTT ready*

DEGREE OF PROTECTION

IP68 dust-/waterproof
 MIL-STD 810H
 usable from -20 °C to +55 °C

APPROVAL

Ⓔ I M1 Ex ia I Ma
 Ⓔ II 2G Ex ib IIC T4 Gb
 Ⓔ II 2D Ex ib IIIC T135°C Db
 Ex ia I Ma
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db

OPERATING SYSTEM

Android™ 14

DIMENSIONS

weight: 1059 g
 size: 266,17 x 168,46 x 19,82 mm

DISPLAY

10,1" Corning® Gorilla® Glass,
 3rd Generation with a resolution
 of 1200 x 1920 px

CAMERA

50 MP AF (rear), 5 MP FF (front)

WIRELESS COMMUNICATION

Bluetooth® 5.2, NFC, Wi-Fi® 6, GPS,
 A-GPS, GLONASS, A-GLONASS, Beidou,
 Galileo

PROCESSOR

Qualcomm® QCM6490 Octa Core

IS940.M1

ANDROID TABLET

APPROVAL

Ⓔ I M1 Ex ia I Ma
 Ⓔ II 2G Ex ib IIC T4 Gb
 Ⓔ II 2D Ex ib IIIC T135°C Db
 Ex ia I Ma
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db

OPERATING SYSTEM

Android™ 14

DIMENSIONS

weight: 1059 g
 size: 266,17 x 168,46 x 19,82 mm

DISPLAY

10,1" Corning® Gorilla® Glass,
 3rd Generation with a resolution
 of 1200 x 1920 px

CAMERA

50 MP AF (rear), 5 MP FF (front)

WIRELESS COMMUNICATION

Bluetooth® 5.2, NFC, Wi-Fi® 6, GPS,
 A-GPS, GLONASS, A-GLONASS, Beidou,
 Galileo

PROCESSOR

Qualcomm® QCM6490 Octa Core

MEMORY

8 GB RAM, 128 GB internal memory,
 external memory microSD up to
 512 GB

FREQUENCIES

4G LTE-FDD: B1/B2/B3/B4/B5/B7/B8/
 B12 with MFB1/B13/B14/B17/B20/
 B25/B26/B28A/B28B/B29/B30/B66/
 B68/B71
 4G LTE-TDD: B38/B39/B40/B41/B42/
 B43/B48
 5G NR: n1/n2/n3/n5/n7/n8/n12/n14/
 n20/n25/n28/n30/n38/n40/n41/n48/
 n66/n71/n77/n78/n79

BATTERY

8160 mAh, replaceable

SAFETY FUNCTIONS

function key red,
 PTT ready*, LWP ready*

DEGREE OF PROTECTION

IP68 dust-/waterproof
 MIL-STD 810H
 usable from -20 °C to +55 °C

*Push-to-talk/LWP (third party application required)

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