



REALWEAR NAVIGATOR Z1

HEAD MOUNTED TABLET

APPROVAL

Ⓜ 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

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, removable and
rechargeable, for full shift use

DEGREE OF PROTECTION

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



IS-SW1.1

SMARTWATCH

APPROVAL

Ⓜ II 2G Ex ib IIC T4 Gb
Ⓜ II 2D Ex ib IIIC T135°C Db
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db

OPERATING SYSTEM

ISM-OS

DIMENSIONS

weight: 70 g
size: 53,95 x 45,4 x 17,6 mm

DISPLAY

1,6" touchscreen with a
resolution of 320 x 360 px

BATTERY

500 mAh

WIRELESS COMMUNICATION

Bluetooth® 5.1, Wi-Fi® 2,4 GHz, GPS,
GLONASS, Beidou, Galileo, NFC

SENSORS

Pulse, SpO₂, accelerometer,
gyroscope, magnetic, pressure

MEMORY

1 GB RAM, 8 GB internal
memory

SAFETY FUNCTIONS

SOS key, LWP ready*

VIBRATION ALARM

DEGREE OF PROTECTION

IP68
MIL-STD 810H
usable from -10 °C to +55 °C



IS-TH1XX.1

HANDHELD BARCODE-SCANNER

APPROVAL

Ⓜ II 2G Ex ib op is IIC T4 Gb
Ⓜ II 2D Ex ib op is IIIC T135°C Db
Ex ib op is IIC T4 Gb
Ex ib op is IIIC T135°C Db
Class I Div. 1 Groups A, B, C, D, T4
Class II Div. 1 Groups E, F, G, T135°C
Class III Div. 1

DIMENSIONS

weight: 377 g
size: 202 x 127 x 90 mm

INDICATION FUNCTION

loudspeaker
vibration
LED display

COMMUNICATION

over the multi functional
ISM interface

POWER SUPPLY

over the connected device,
this can be loaded in the Trigger
Handle

SCAN TYPES

Available device options:
IS-TH1MR.1 (mid range)
with Zebra SE4750 MR up to 6 m

IS-TH1ER.1 (extended range)
with Zebra SE4850 ER up to 18 m



IS-RSMG2.1

REMOTE SPEAKER MICROPHONE

APPROVAL

Ⓜ II 2G Ex ib IIC T4 Gb
Ex ib IIC T4 Gb
Class I Div. 1 Groups A B C D T4

DIMENSIONS

weight: 212 g
size: 98,11 x 65,93 x 26,96 mm

CONNECTION

ISM interface,
over the spiral cable

POWER SUPPLY

over the connected device

LOUDSPEAKER

dynamic, 3-stage volume control
sensitivity: 93 dB (1 mW)
bandwidth: 50 Hz to 8 kHz

MICROPHONE

electret, omnidirectional
sensitivity: -38 dB ±3 dB (1 kHz)
bandwidth: 50 Hz to 16 kHz

DEGREE OF PROTECTION

IP54
operation range -20 to +60 °C

MORE FEATURES

PTT key

Mobile phones, smartphones and tablets for ATEX zone 1, 2 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



i.safe MOBILE GmbH
i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
Germany

isafe-mobile.com

Zone 1/21 CL I, II, III DIV 1



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



IS120.1
MOBILE PHONE

IS440.1
5G RADIO

IS530.1
SMARTPHONE

IS540.1
SMARTPHONE

IS930.1
TABLET

IS940.1
ANDROID TABLET

IS945.1
WINDOWS TABLET

APPROVAL Ⓔ II 2G Ex ib IIC T4 Gb Ⓔ II 2D Ex ib IIIC T135°C Db Ex ib IIC T4 Gb Ex ib IIIC T135°C Db	MEMORY 2 GB RAM, 16 GB internal memory
OPERATING SYSTEM ISM-OS	FREQUENCIES GSM: B2/3/5/8 WCDMA: B1/2/4/5/8 LTE-FDD: B1/2/3/4/5/7/8/20/28 LTE-TDD: B34/B38/39/B40/B41
DIMENSIONS weight: 214 g size: 139,2 x 63,2 x 25,7 mm	BATTERY 2200 mAh, replaceable
DISPLAY 2,4" Corning® Gorilla® Glass with a resolution of 240 x 320 px	DEGREE OF PROTECTION IP68 dust-/waterproof MIL-STD 810H usable from -20 °C to +60 °C
WIRELESS COMMUNICATION Bluetooth® 5, Wi-Fi®	
PROCESSOR MT6761D Quad Core, 1,8 GHz	

APPROVAL Ⓔ II 2G Ex ib IIC T4 Gb Ⓔ II 2D Ex ib IIIC T135°C Db Ex ib IIC T4 Gb Ex ib IIIC T135°C Db	MEMORY 4 GB RAM, 64 GB internal memory
OPERATING SYSTEM ISM-OS	FREQUENCIES 4G LTE-FDD: B1/2/3/4/5/7/8/12 mit 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
DIMENSIONS weight: 307 g size: 136,6 x 70 x 32 mm	BATTERY 2400 mAh, replaceable
DISPLAY 2,4" Corning® Gorilla® Glass, 3rd generation with a resolution of 320 x 240 px	SAFETY FUNCTIONS SOS key, PTT key LWP ready*, PTT ready*
CAMERA 8 MP AF (front)	DEGREE OF PROTECTION IP68 dust-/waterproof MIL-STD 810H usable from -20 °C to +55 °C
WIRELESS COMMUNICATION Bluetooth® 5.2, NFC, Wi-Fi®, GPS, A-GPS, GLONASS, A-GLONASS, Beidou, Galileo	
PROCESSOR Qualcomm® QCM6490	

APPROVAL Ⓔ II 2G Ex ib IIC T4 Gb Ⓔ II 2D Ex ib IIIC T135°C Db IP6X Ex ib IIC T4 Gb Ex ib IIIC T135°C Db IP6X Class I Div. 1 Groups A, B, C, D, T4 Class II Div. 1 Groups E, F, G, T135°C Class III Div. 1	MEMORY 4 GB RAM, 64 GB internal memory, external memory microSD up to 128 GB
OPERATING SYSTEM Android™ 13	FREQUENCIES GSM: 850/900/1800/1900 MHz WCDMA: B1/2/4/5/8 LTE-FDD: B1/2/3/4/5/7/8/12 mit MFB1/ 13/14/17/20/25/ 26/28A/28B/29/30/66 LTE-TDD: B38/B39/B40/B41 LTE-TD: B34/B39
DIMENSIONS weight: 325 g size: 155 x 80 x 25 mm	BATTERY 3600 mAh, replaceable
DISPLAY 4,5" Corning® Gorilla® Glass with a resolution of 854 x 480 px	SAFETY FUNCTIONS SOS key, PTT key LWP ready*, PTT ready*
CAMERA 13 MP AF (rear), 5 MP FF (front)	DEGREE OF PROTECTION IP68 dust-/waterproof MIL-STD 810H usable from -20 °C to +60 °C
WIRELESS COMMUNICATION Bluetooth® 5, NFC, Wi-Fi®, GPS, A-GPS, GLONASS, Beidou, Galileo	
PROCESSOR Qualcomm® Snapdragon™SDM660 Octa Core (2,2 GHz/1,8 GHz)	

APPROVAL Ⓔ II 2G Ex ib IIC T4 Gb Ⓔ II 2D Ex ib IIIC T135°C Db Ex ib IIC T4 Gb Ex ib IIIC T135°C Db IP6X Class I Div. 1 Groups A, B, C, D, T4 Class II Div. 1 Groups E, F, G, T135°C Class III Div. 1	PROCESSOR Qualcomm® QCM6490 Octa Core
OPERATING SYSTEM Android™ 12	MEMORY 8 GB RAM, 128 GB internal memory, microSD up to 128 GB
DIMENSIONS weight: 422 g size: 180,0 x 84,9 x 20,6 mm	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
DISPLAY 6" Corning® Gorilla® Glass, 3rd generation, resolution of 1080 x 2160 px	BATTERY 4400 mAh, replaceable
CAMERA 48 MP AF (rear), 5 MP FF (front)	SAFETY FUNCTIONS Red key LWP ready*, PTT ready*
WIRELESS COMMUNICATION Bluetooth® 5.2, NFC, Wi-Fi® 6, GPS, A-GPS, GLONASS, A-GIONASS, Beidou, Galileo	DEGREE OF PROTECTION IP68 dust-/waterproof MIL-STD 810H usable from -20 °C to +55 °C

APPROVAL Ⓔ II 2G Ex ib IIC T4 Gb Ⓔ II 2D Ex ib IIIC T135°C Db IP6X Ex ib IIC T4 Gb Ex ib IIIC T135°C Db IP6X Class I Div. 1 Groups A, B, C, D, T4 Class II Div. 1 Groups E, F, G, T135°C Class III Div. 1	MEMORY 4 GB RAM, 64 GB internal memory, external memory microSD up to 128 GB
OPERATING SYSTEM Android™13	FREQUENCIES GSM: 850/900/1800/1900 MHz WCDMA: B1/2/4/5/8 LTE-FDD: B1/2/3/4/5/7/8/12 with MFB1/13/14/17/20/25/26/28A/ 28B/29/30/66 LTE-TDD: B38/B39/B40/B41 TD-SCDMA: B34/B39
DIMENSIONS weight: 890 g size: 237 x 156 x 22 mm	BATTERY 8400 mAh
DISPLAY 8" RugDisplay Glass multi capacitive touchscreen with a resolution of 1200 x 1920 px	SAFETY FUNCTIONS SOS key, LWP ready*
CAMERA 13 MP AF (rear), 5 MP FF (front)	DEGREE OF PROTECTION IP68 dust-/waterproof MIL-STD 810H usable from -20 °C to +60 °C
WIRELESS COMMUNICATION Bluetooth® 5, NFC, Wi-Fi® 6, GPS, A-GPS, GLONASS, Beidou, Galileo	
PROCESSOR Qualcomm® Snapdragon™ SDM660 Octa Core (2,2 GHz/1,8 GHz)	

APPROVAL (REQUESTED) Ⓔ II 2G Ex ib IIC T4 Gb Ⓔ II 2D Ex ib IIIC T135°C Db Ex ib IIC T4 Gb Ex ib IIIC T135°C Db Class I Div. 1 Groups A, B, C, D, T4 Class II Div. 1 Groups E, F, G, T135°C Class III Div. 1	PROCESSOR Qualcomm® QCM6490 Octa Core
OPERATING SYSTEM Android™ 13 (IS940.1) Windows 11 IoT Enterprise (IS945.1)	MEMORY 8 GB RAM, 128 GB interner Speicher, externer Speicher microSD erweiterbar auf 128 GB
DIMENSIONS weight: 1059 g size: 266,17 x 168,46 x 19,82 mm	FREQUENCIES 4G, 5G
DISPLAY 10,1" Corning® Gorilla® Glass, 3rd Generation with a resolution of 1200 x 1920 px	BATTERY 8160 mAh, replacable
CAMERA AOS: 50 MP AF (rear), 5 MP FF (front) WIN: 12 MP AF (rear), 5 MP FF (front)	SAFETY FUNCTIONS SOS key, PTT ready*, LWP ready*
WIRELESS COMMUNICATION Bluetooth® 5.2, NFC, Wi-Fi® 6, GPS, GPS, A-GPS, GLONASS, A-GLONASS, Beidou, Galileo	DEGREE OF PROTECTION IP68 dust-/waterproof MIL-STD 810H usable from -20 °C to +55 °C

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