NAUTIZ X6
MANUAL

**handheld**

① WHAT'S IN THE BOX

The pictures shown below may differ from the actual products.
To purchase additional or optional products, contact our customer center.
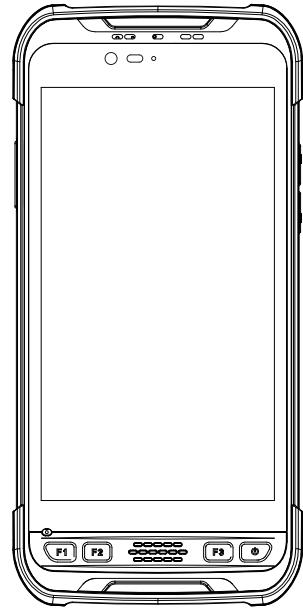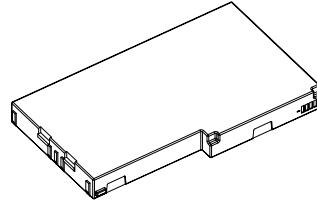
Standard battery

Charging adaptor

Nautiz X6 Main body
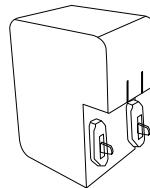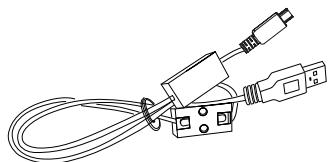
Type-C cable

Converter plugs

Earpiece

Front camera

Light sensor

Configurable side button

Volume up

Volume down

Microphone

Speaker

Function Key 1

Power button

Function Key 2

Function Key 3

F1

F2

F3

③ YOUR NAUTIZ X6

Docking port

Rear camera

LED flash

Battery cover lock

TYPE-C interface
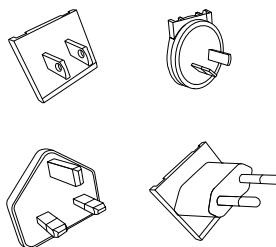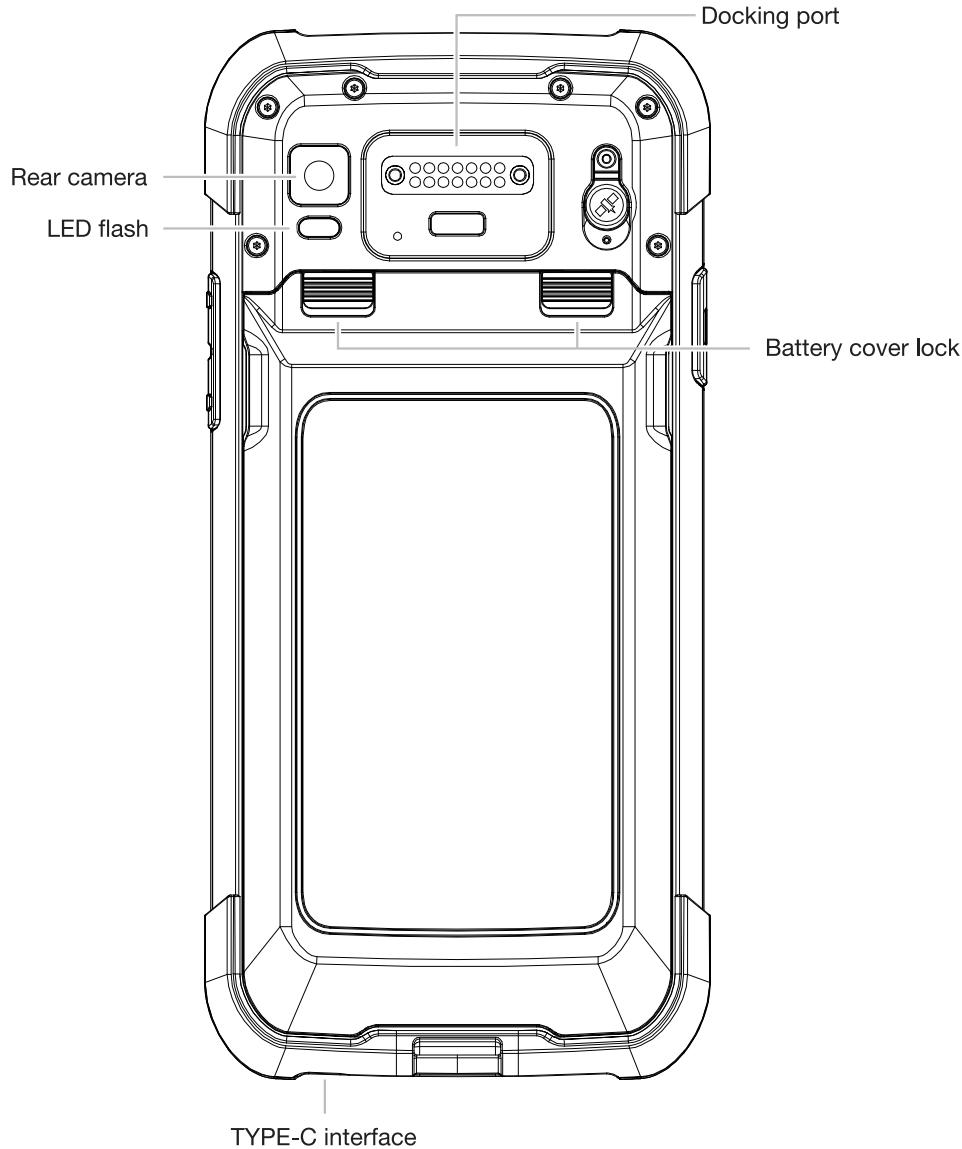
④ SIM/MICRO SD CARD

This is how you insert and remove the SIM/micro SD.

SD Card

Sim1

Sim2
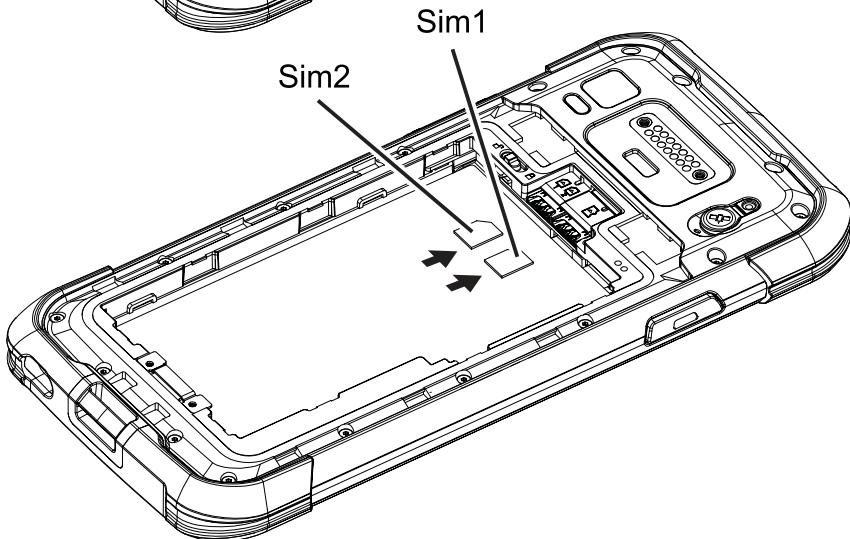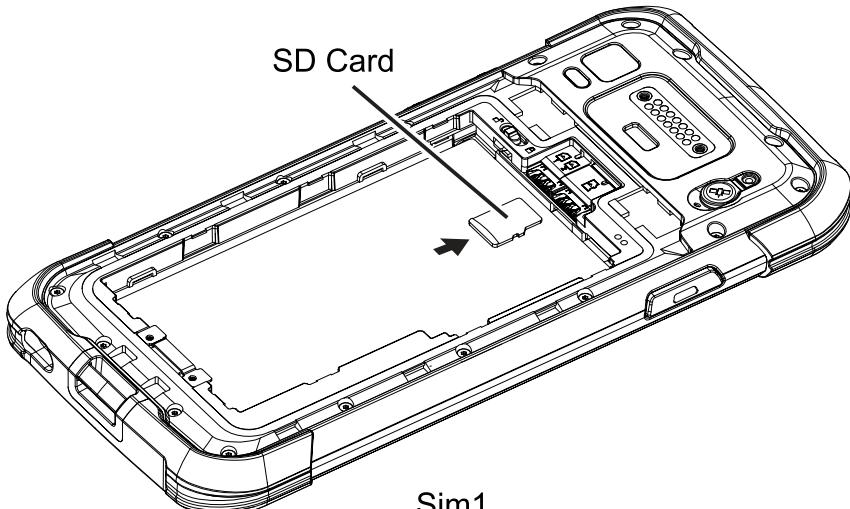
⑤ INSERT BATTERY

To insert the battery

1. Insert the battery
2. Push the battery lock to the close position
3. Attach the battery cover
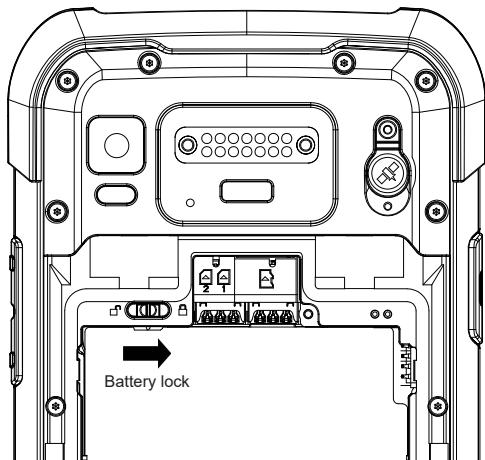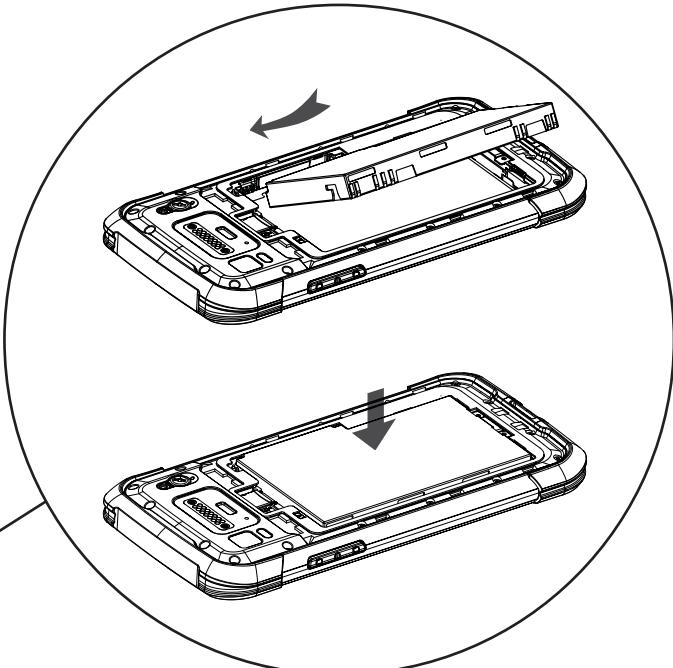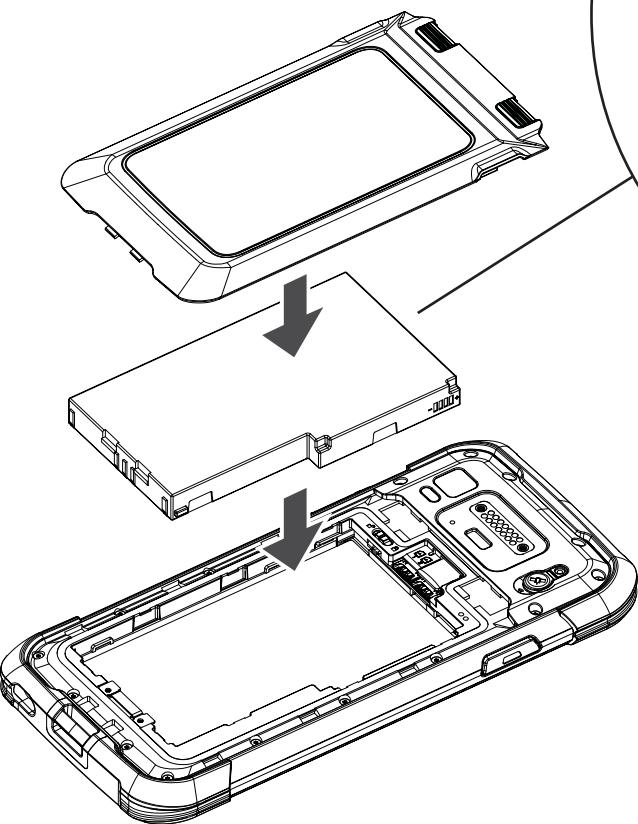
Battery lock

⑥ INSERT BATTERY

To insert the battery

4. Push the battery cover lock to the close position
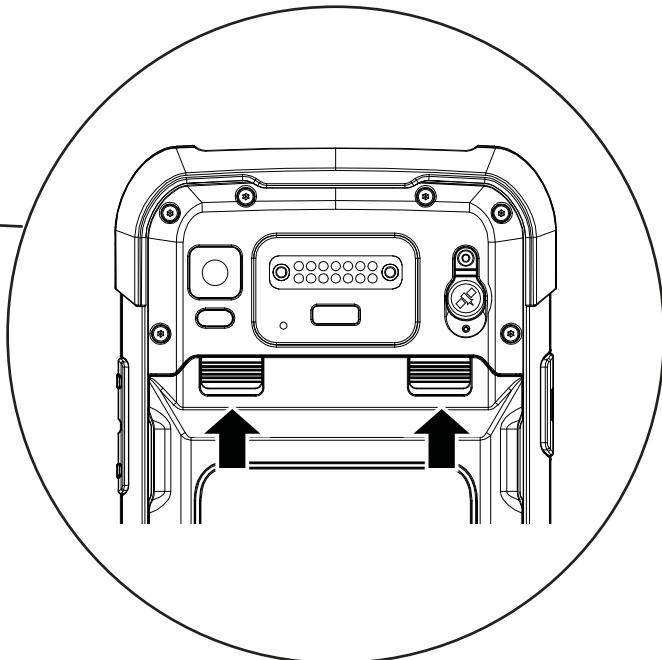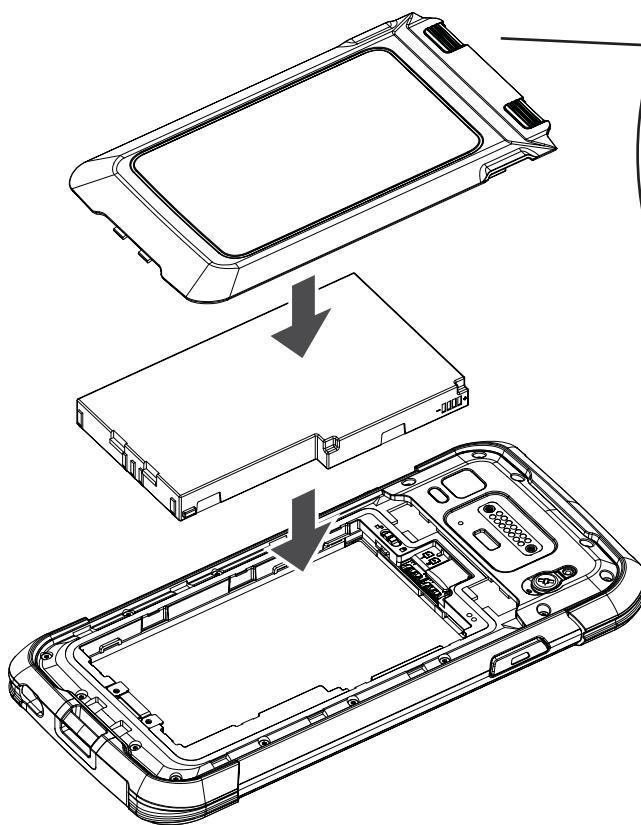
⑦ REMOVE BATTERY

To remove the battery

1. Power off the device before removing the battery
2. Push the battery cover lock to the open position
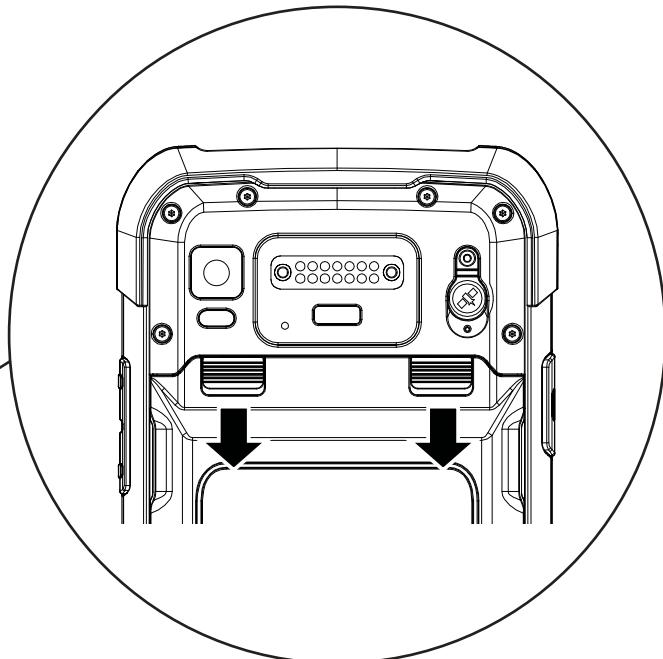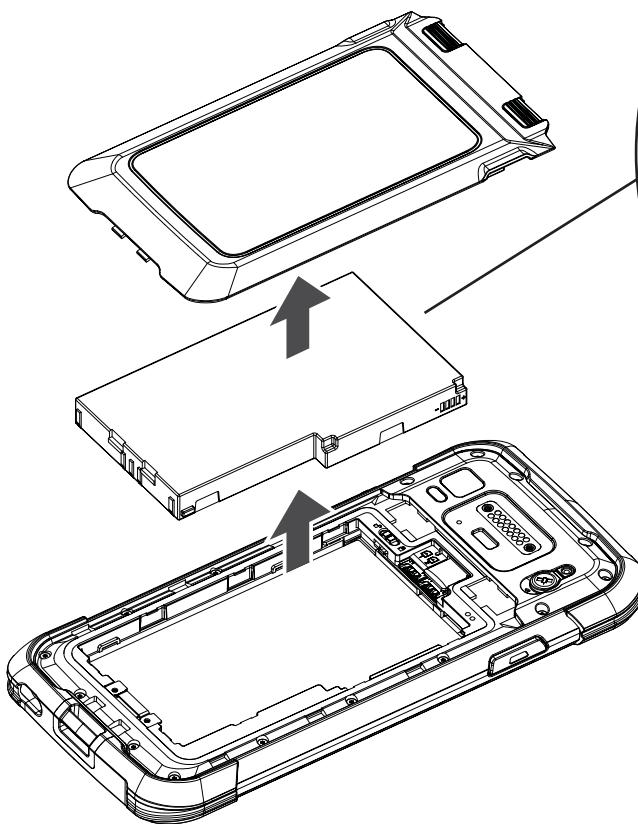
⑧ REMOVE BATTERY

To remove the battery

3. Detach the battery cover
4. Push the battery lock to the open position
5. Remove the battery

Battery unlock

Please go to www.handheldgroup.com/knowledgebase to download more information.
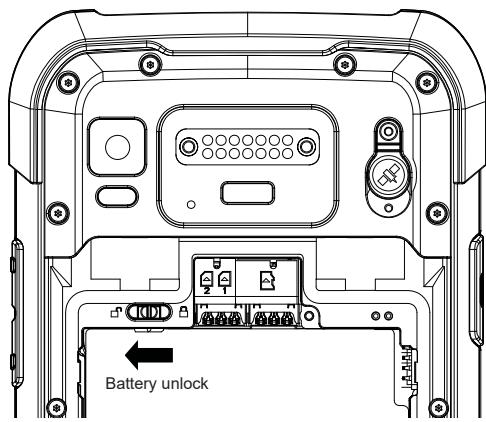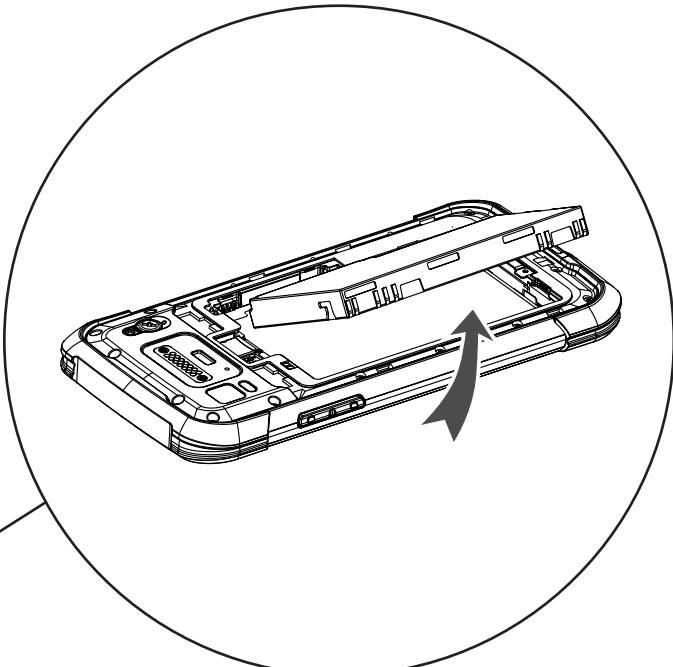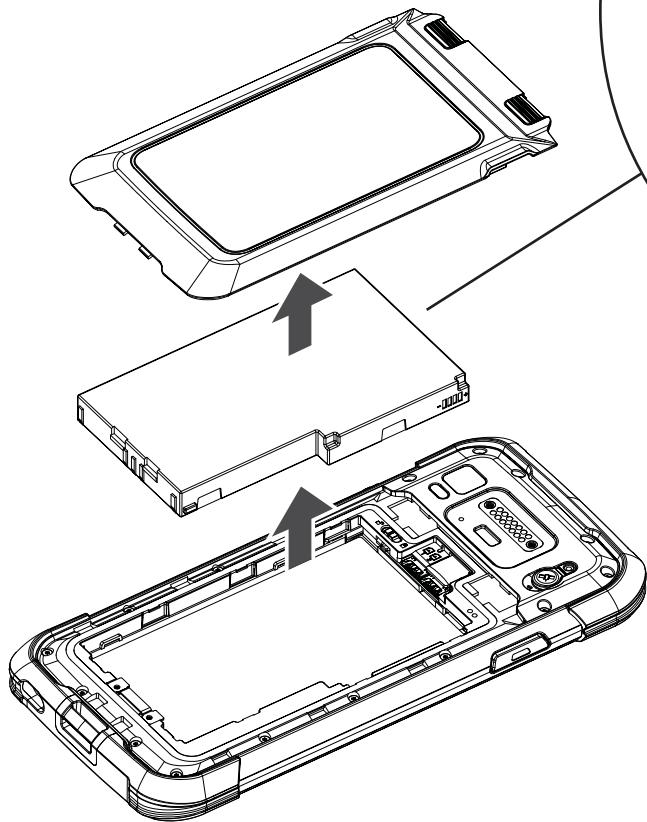
⑨ BARCODE SCANNER

1. Buckle the scanner to the back of the device.

2. Open the barcode scanner APK.

3. Enter any open text box, press the side scan key and the information will be returned.
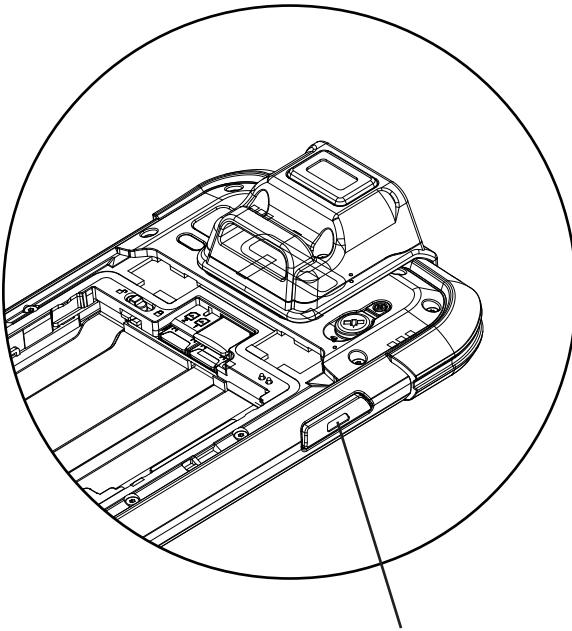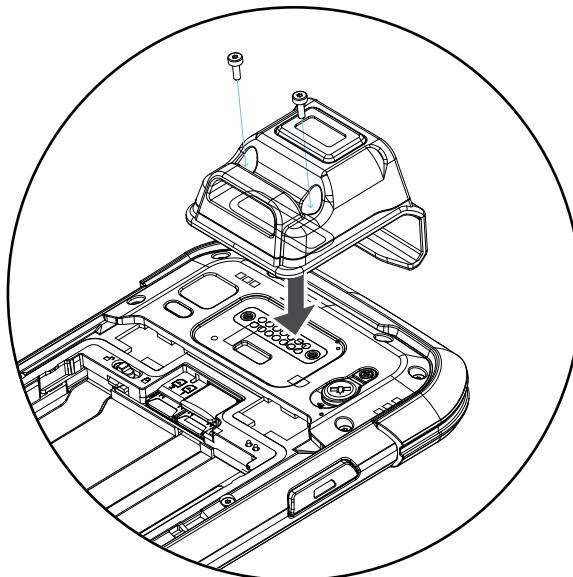
Side scan key

⑩ POGO PIN DEFINITION
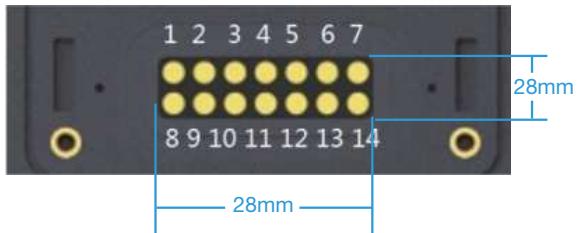
#	Name	Description	#	Name	Description
1	**GND**	Ground PIN	8	**UART_RX**	3.3V UART RXD
2	**GND**	Ground PIN	9	**UART_TX**	3.3V UART TXD
3	**USB_DM**	USB 2.0 bus Data -	10	**GPIO_1**	3.3V GPIO 1
4	**USB_DP**	USB 2.0 bus Data +	11	**GPIO_2**	3.3V GPIO 2
5	**USB_ID**	USB 2.0 OTG ID PIN	12	**IRQ**	3.3V External Interrupt PIN
6	**POGO_5V**	5V Power OUT,1A MAX	13	**POGO_5V**	Same as PIN 6
7	**POGO_3.3V**	3.3V Power OUT,1A MAX	14	**POGO_3.3V**	Same as PIN 7

⑪ TOUCH MODES

▨ ▨ 🔋 10:48 AM	▨ ▨ 🔋 10:48 AM

Settings   🔍

◑	**Display** Wallpaper, sleep, font size
🔊	**Sound** Volume, vibration, Do Not Disturb
☰	**Storage** 32% used - 21.85 GB free
🔒	**Security & Location** Screen lock
👤	**Users & accounts** Current user: Owner
🧍	**Accessibility** Screen readers, display, interaction controls
G	**Google** Services & preferences

←   **Display**

Glove Mode

Brightness level

Night Light
Off. Will never turn on automatically.

Adaptive brightness
Optimize brightness level for
available light

⌄   Advanced
Wallpaper, Sleep, Device rotation, Font size..

Figure 1

Figure 2

⑫ TOUCH MODES

10:48 AM

← Glove Mode

Glove Mode ☑
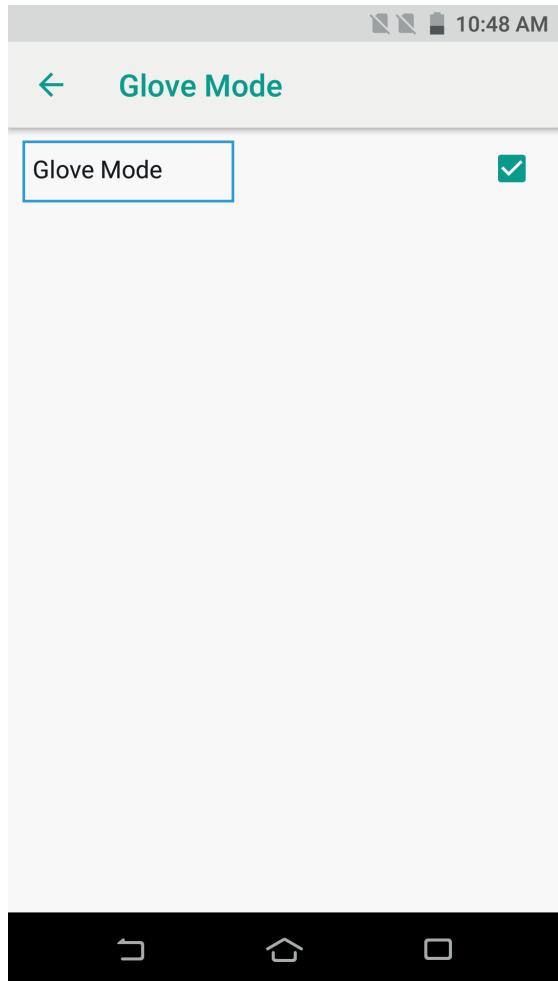
Figure 3

⑬ GNSS ANTENNA

The voltage provided is 3.2-3.3V

MMCX

GNSS antenna MMCX connector
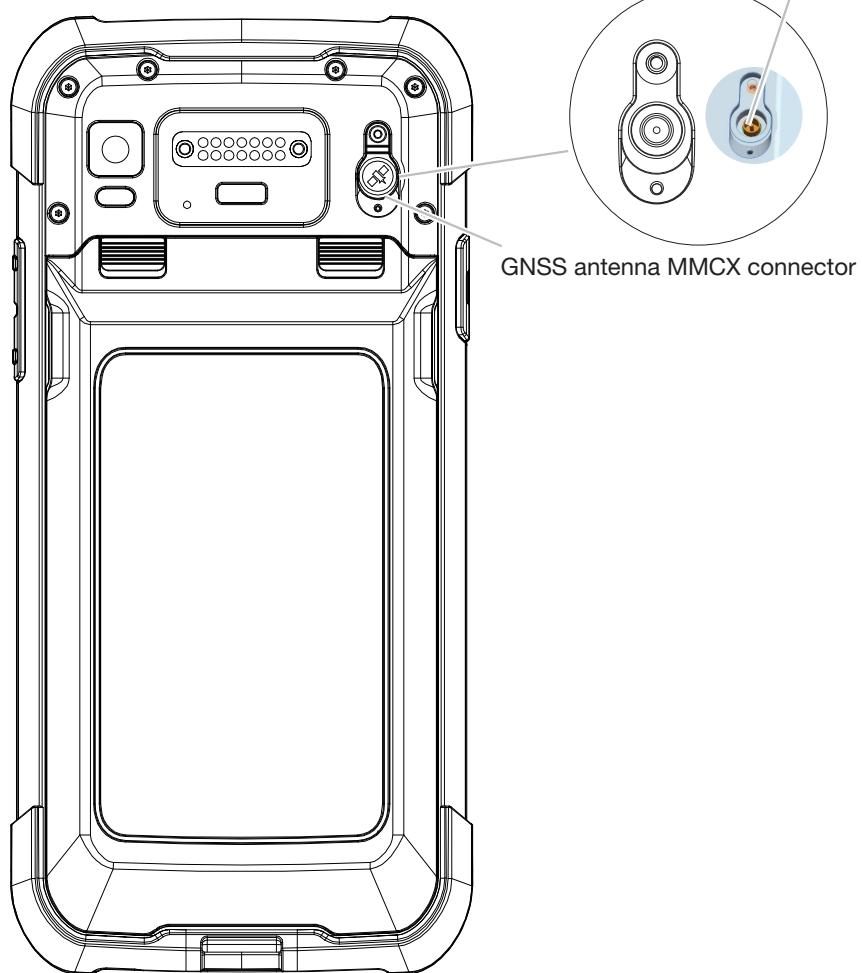
⑭ SCAN/F1/F2/F3 FUNCTION KEY SETTINGS
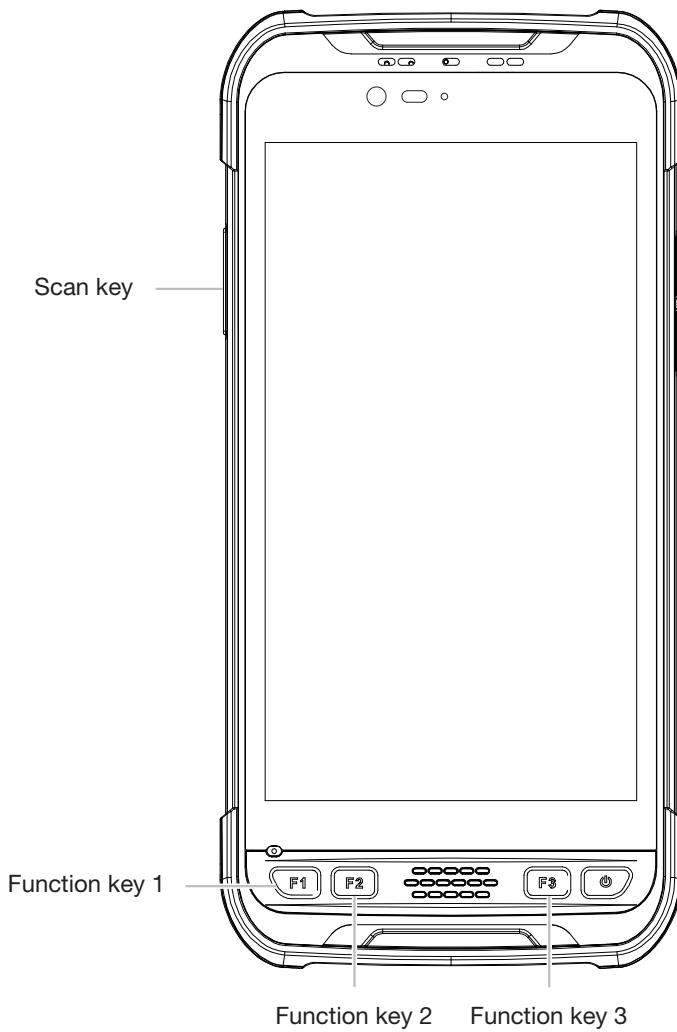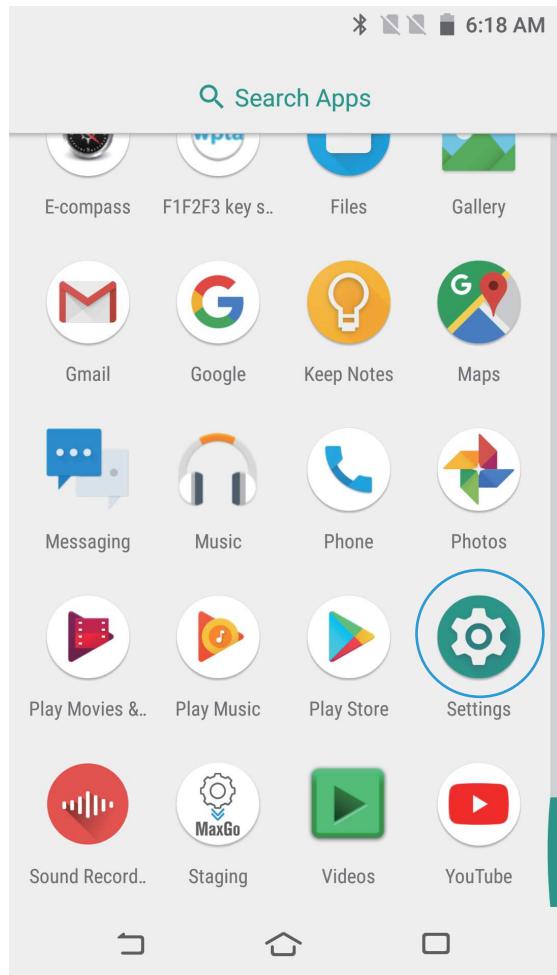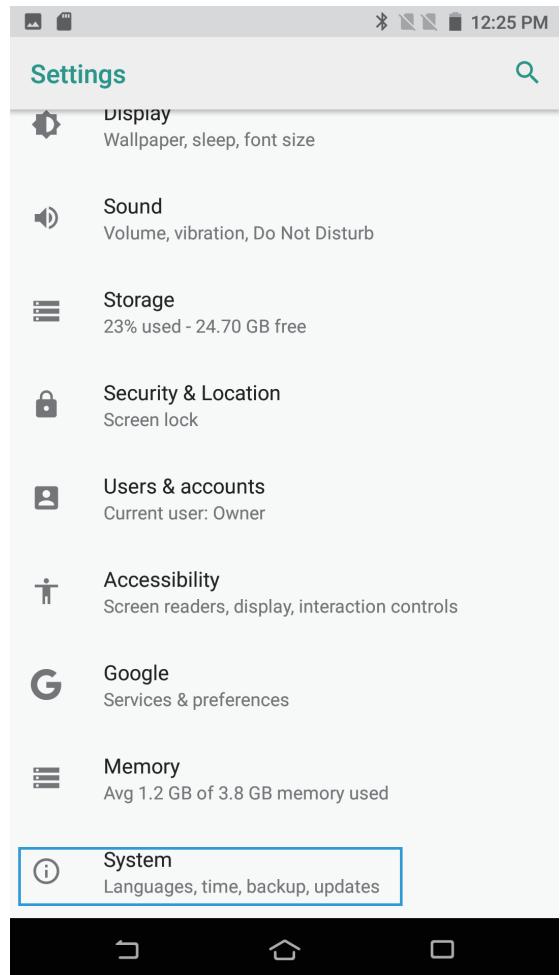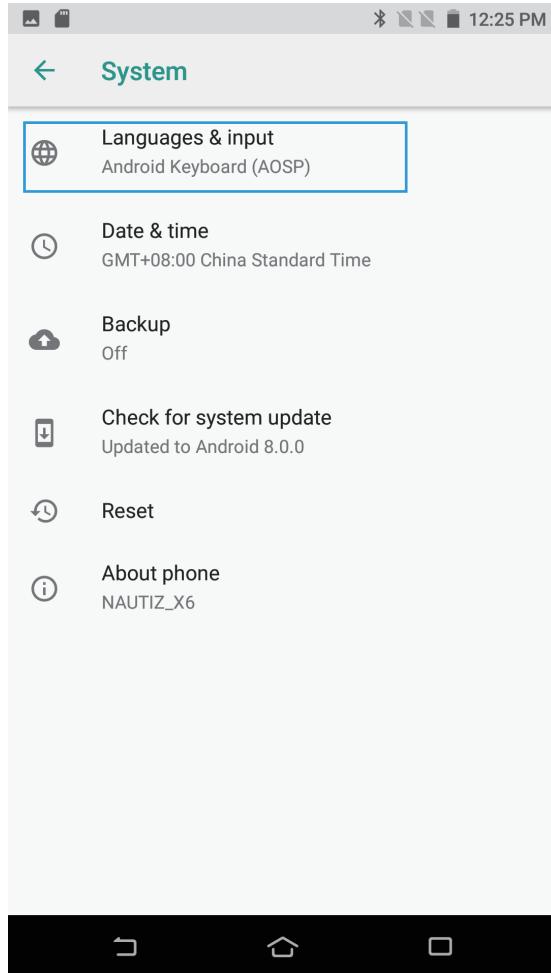
Scan key

Function key 1

Function key 2   Function key 3

⑮ FUNCTION KEY SETTINGS

Figure 1

Figure 2

⑯ FUNCTION KEY SETTINGS

Figure 1

Figure 2

⑰ FUNCTION KEY SETTINGS

Figure 1

Figure 2

⑱ FUNCTION KEY SETTINGS

Title	
F1Key	○
F2Key	○
F3Key	○
ScanKey	○
AppSwitchKey	○
CamreaKey	◉
CalculatorKey	○
EnterKey	○
HelpKey	○

Cancel	Default	Ok

4:11 PM

Figure 1

← Languages & input

Languages
English (United States)

Keyboard & inputs

⚙ Function keys

Please restart device for your changes to take effect

YES

Not connected

∨ Advanced
Input assistance, Gestures

6:20 AM
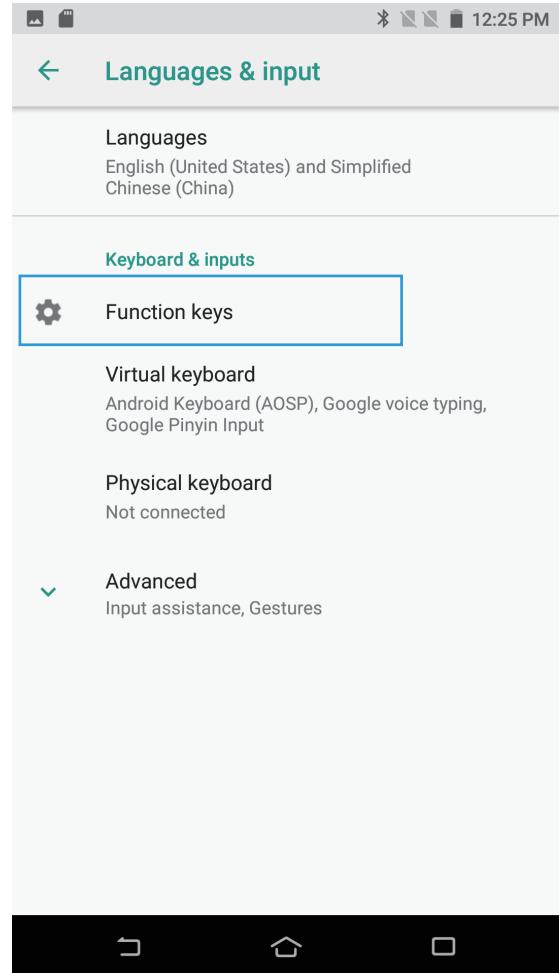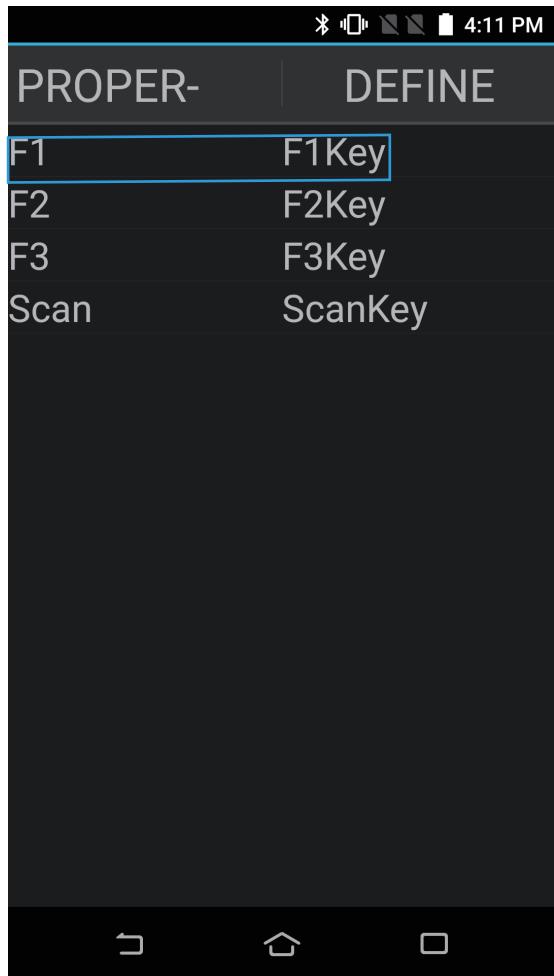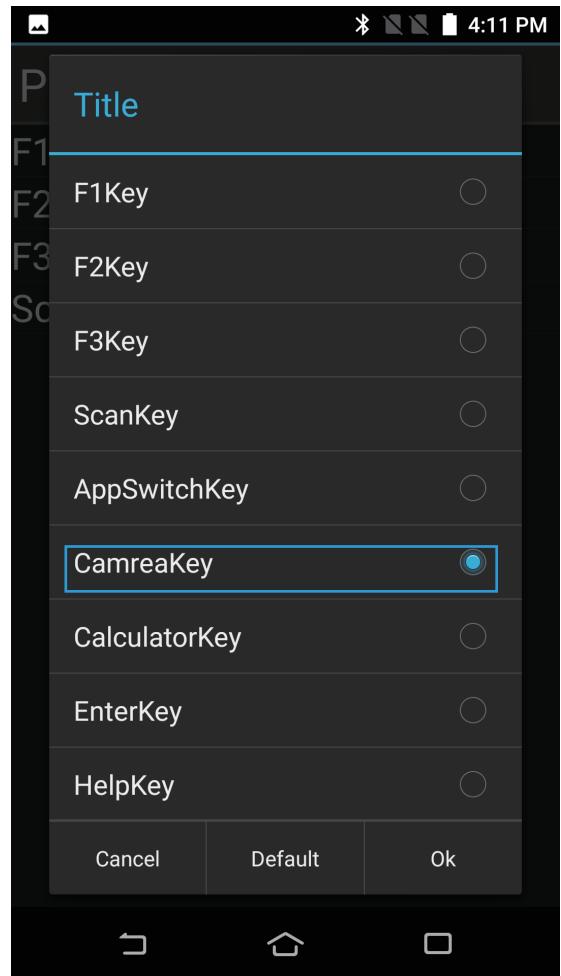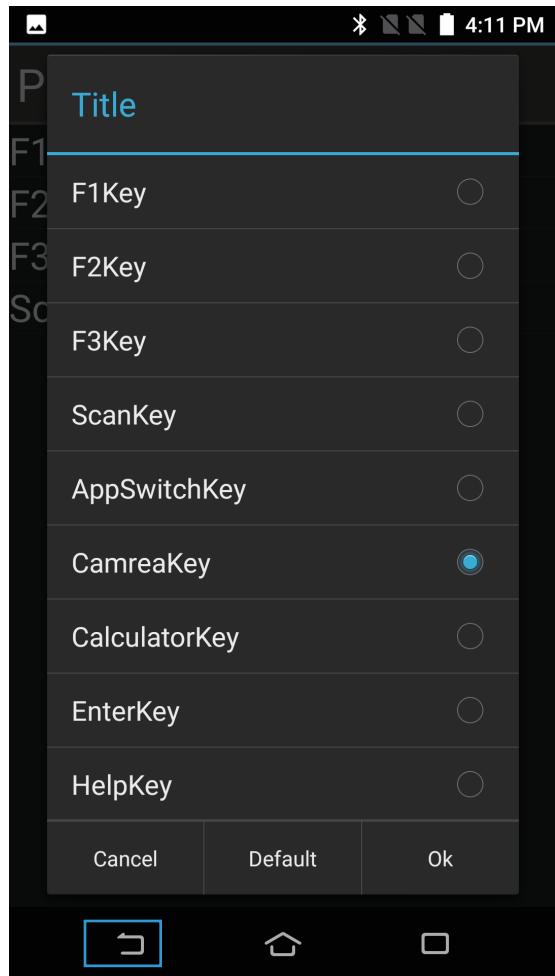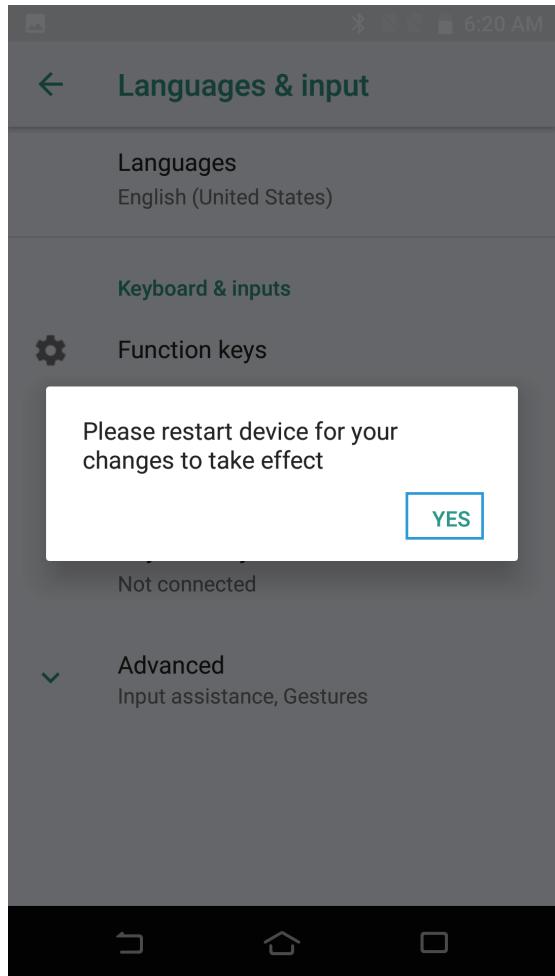
Figure 2

NOTICE:
The SAR limit of Europe is 2.0 W/kg. Device types NAUTIZ X6 has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 0.26W/kg and when properly worn on the body is 1.309W/kg This device was tested for typical body - worn operations with the back of the handset kept 0.5cm from the body. To maintain compliance with RF exposure requirements, use accessories that maintain a 0.5 cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided.

Working Temperature: -20℃ ~ +45℃   Charging mode need to operate indoors, please pay attention
Storage Temperature: -40℃ ~ +70℃   to the environment temperature should be -20℃ ~ +35℃

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

Hereby, [Handheld Group AB] declares that the radio equipment type [NAUTIZ X6] is in compliance with Directive 2014 / 53 /EU.
The full text of the EU declaration of conformity is available at the following internet address:
https://www.handheldgroup.com

This device complies with Part 22 & 24 and Part 27 of the FCC Rules.

SAR INFORMATION

The SAR limit of FCC and ISED is 1.6 W/kg averaged over one gram of tissue. Device types NAUTIZ X6 (FCC ID:YY3-14246 and IC:11695A-14246) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 0.383 W/kg and when properly worn on the body is 1.120 W/kg. This device was tested for typical body -worn operations with the back of the handset kept 1 cm from the body. To maintain compliance with FCC and ISED RF exposure requirements, use accessories that maintain a 1 cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC and ISED RF exposure requirements, and should be avoided.

NOTICE:
This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTICE:
Changes or modifications made to this equipment not expressly approved by Handheld Group AB. may void the FCC authorization to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installe d and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

NOTICE:
This Class [B] digital apparatus complies with Canadian ICES -003.
Cet appareil numérique de la classe [B] est conforme à la norme NMB - 003 du Canada.
RF mode and power tune-up refer to appendix A

Normal Mode RF Power Range (GSM, WCDMA)

Mode	Range(dBm)
GSM900	31.00-33.00
GPRS900(1 Slot)	31.00-33.00
GPRS900(2 Slots)	30.00-32.00
GPRS900(3 Slots)	28.50-30.50
GPRS900(4 Slots)	26.00-28.00
EGPRS (8PSK, 1-Slot)	24.50-26.50
EGPRS (8PSK, 2-Slots)	23.00-25.00
EGPRS (8PSK, 3-Slots)	22.00-24.00
EGPRS (8PSK, 4-Slots)	21.00-23.00
GSM1800	28.50-30.50
GPRS1800(1 Slot)	28.50-30.50
GPRS1800(2 Slots)	28.00-30.00
GPRS1800(3 Slots)	27.00-29.00
GPRS1800(4 Slots)	25.50-27.50
EGPRS (8PSK, 1-Slot)	24.00-26.00
EGPRS (8PSK, 2-Slots)	22.50-24.50
EGPRS (8PSK, 3-Slots)	21.50-23.50
EGPRS (8PSK, 4-Slots)	20.50-22.50
WCDMA Band 1 RMC	21.50-23.50
HSDPA Band 1	20.50-22.50
HSUPA Band 1	19.50-22.50
WCDMA Band 8 RMC	21.50-23.50
HSDPA Band 8	20.50-22.50
HSUPA Band 8	19.50-22.50

Normal Mode RF Power Range (LTE)

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 1	20 MHz	1	QPSK	19.80-21.80
		50		19.00-21.00
		100		19.00-21.00
		1	16QAM	19.00-21.00
		50		18.00-20.00
		100		18.00-20.00
	15 MHz	1	QPSK	19.80-21.80
		36		19.00-21.00
		75		19.00-21.00
		1	16QAM	19.00-21.00
		36		18.00-20.00
		75		18.00-20.00
	10 MHz	1	QPSK	19.80-21.80
		25		19.00-21.00
		50		19.00-21.00
		1	16QAM	19.00-21.00
		25		18.00-20.00
		50		18.00-20.00
	5 MHz	1	QPSK	19.80-21.80
		12		19.00-21.00
		25		19.00-21.00
		1	16QAM	19.00-21.00
		12		18.00-20.00
		25		18.00-20.00

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 3	20 MHz	1	QPSK	20.80-22.80
		50		20.00-22.00
		100		20.00-22.00
		1	16QAM	20.00-22.00
		50		19.00-21.00
		100		19.00-21.00
	15 MHz	1	QPSK	20.80-22.80
		36		20.00-22.00
		75		20.00-22.00
		1	16QAM	20.00-22.00
		36		19.00-21.00
		75		19.00-21.00
	10 MHz	1	QPSK	20.80-22.80
		25		20.00-22.00
		50		20.00-22.00
		1	16QAM	20.00-22.00
		25		19.00-21.00
		50		19.00-21.00
	5 MHz	1	QPSK	20.80-22.80
		12		20.00-22.00
		25		20.00-22.00
		1	16QAM	20.00-22.00
		12		19.00-21.00
		25		19.00-21.00

LTE Band 3	3 MHz	1	QPSK	20.80-22.80
		8		20.00-22.00
		15		20.00-22.00
		1	16QAM	20.00-22.00
		8		19.00-21.00
		15		19.00-21.00
	1.4 MHz	1	QPSK	20.80-22.80
		3		20.00-22.00
		6		20.00-22.00
		1	16QAM	20.00-22.00
		3		19.00-21.00
		6		19.00-21.00

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 7	20 MHz	1	QPSK	19.80-21.80
		50		19.00-21.00
		100		19.00-21.00
		1	16QAM	19.00-21.00
		50		18.00-20.00
		100		18.00-20.00
	15 MHz	1	QPSK	19.80-21.80
		36		19.00-21.00
		75		19.00-21.00
		1	16QAM	19.00-21.00
		36		18.00-20.00
		75		18.00-20.00
	10 MHz	1	QPSK	19.80-21.80
		25		19.00-21.00
		50		19.00-21.00
		1	16QAM	19.00-21.00
		25		18.00-20.00
		50		18.00-20.00
	5 MHz	1	QPSK	19.80-21.80
		12		19.00-21.00
		25		19.00-21.00
		1	16QAM	19.00-21.00
		12		18.00-20.00
		25		18.00-20.00

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 8	10 MHz	1	QPSK	21.00-23.00
		25		20.00-22.00
		50		20.00-22.00
		1	16QAM	20.00-22.00
		25		19.00-21.00
		50		19.00-21.00
	5 MHz	1	QPSK	21.00-23.00
		12		20.00-22.00
		25		20.00-22.00
		1	16QAM	20.00-22.00
		12		19.00-21.00
		25		19.00-21.00
	3 MHz	1	QPSK	21.00-23.00
		8		20.00-22.00
		15		20.00-22.00
		1	16QAM	20.00-22.00
		8		19.00-21.00
		15		19.00-21.00
	1.4 MHz	1	QPSK	21.00-23.00
		3		21.00-23.00
		6		21.00-23.00
		1	16QAM	20.00-22.00
		3		19.00-21.00
		6		19.00-21.00

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 20	20 MHz	1	QPSK	21.00-23.00
		50		20.50-22.50
		100		20.50-22.50
		1	16QAM	20.50-22.50
		50		19.00-21.00
		100		19.00-21.00
	15 MHz	1	QPSK	21.00-23.00
		36		20.50-22.50
		75		20.50-22.50
		1	16QAM	20.50-22.50
		36		19.00-21.00
		75		19.00-21.00
	10 MHz	1	QPSK	21.00-23.00
		25		20.50-22.50
		50		20.50-22.50
		1	16QAM	20.50-22.50
		25		19.00-21.00
		50		19.00-21.00
	5 MHz	1	QPSK	21.00-23.00
		12		20.50-22.50
		25		20.50-22.50
		1	16QAM	20.50-22.50
		12		19.00-21.00
		25		19.00-21.00

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 28	20 MHz	1	QPSK	21.50-23.50
		50		20.50-22.50
		100		20.50-22.50
		1	16QAM	20.50-22.50
		50		19.50-21.50
		100		19.50-21.50
	15 MHz	1	QPSK	21.50-23.50
		36		20.50-22.50
		75		20.50-22.50
		1	16QAM	20.50-22.50
		36		19.50-21.50
		75		19.50-21.50
	10 MHz	1	QPSK	21.50-23.50
		25		20.50-22.50
		50		20.50-22.50
		1	16QAM	20.50-22.50
		25		19.50-21.50
		50		19.50-21.50
	5 MHz	1	QPSK	21.50-23.50
		12		20.50-22.50
		25		20.50-22.50
		1	16QAM	20.50-22.50
		12		20.00-22.00
		25		20.00-22.00
	3 MHz	1	QPSK	21.50-23.50
		8		20.50-22.50
		15		20.50-22.50
		1	16QAM	20.50-22.50
		8		20.00-22.00
		15		20.00-22.00

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 38	20 MHz	1	QPSK	20.00-22.00
		50		19.00-21.00
		100		19.00-21.00
		1	16QAM	19.50-21.50
		50		18.00-20.00
		100		18.00-20.00
	15 MHz	1	QPSK	20.00-22.00
		36		19.00-21.00
		75		19.00-21.00
		1	16QAM	19.50-21.50
		36		18.00-20.00
		75		18.00-20.00
	10 MHz	1	QPSK	20.00-22.00
		25		19.00-21.00
		50		19.00-21.00
		1	16QAM	19.50-21.50
		25		18.00-20.00
		50		18.00-20.00
	5 MHz	1	QPSK	20.00-22.00
		12		19.00-21.00
		25		19.00-21.00
		1	16QAM	19.50-21.50
		12		18.00-20.00
		25		18.00-20.00

Mode	Bandwidth	RB	Modulation	Range(dBm)
LTE Band 40	20 MHz	1	QPSK	20.00-22.00
		50		19.00-21.00
		100		19.00-21.00
		1	16QAM	19.00-21.00
		50		18.00-20.00
		100		18.00-20.00
	15 MHz	1	QPSK	20.00-22.00
		36		19.00-21.00
		75		19.00-21.00
		1	16QAM	19.00-21.00
		36		18.50-20.50
		75		18.50-20.50
	10 MHz	1	QPSK	20.00-22.00
		25		19.00-21.00
		50		19.00-21.00
		1	16QAM	19.00-21.00
		25		18.00-20.00
		50		18.00-20.00
	5 MHz	1	QPSK	20.00-22.00
		12		19.00-21.00
		25		19.00-21.00
		1	16QAM	19.00-21.00
		12		18.00-20.00
		25		18.00-20.00

Normal Mode RF Power Range (WLAN/Bluetooth)

Band (GHz)	Mode	Channel	Freq. (MHz)	Range(dBm)
WIFI 2.4G (2.4~2.4835)	802.11b	CH1	2412	11.50-13.50
		CH 7	2442	11.50-13.50
		CH 13	2472	11.50-13.50
	802.11g	CH 1	2412	11.50-13.50
		CH 7	2442	11.50-13.50
		CH 13	2472	11.50-13.50
	802.11n(HT20)	CH 1	2412	10.50-12.50
		CH 7	2442	10.50-12.50
		CH 13	2472	10.50-12.50

Band (GHz)	Mode	Channel	Freq. (MHz)	Range(dBm)
WIFI 5.2 G (5.15~5.25)	802.11ac(VHT20)	36	5180	10.00-12.00
		44	5220	10.00-12.00
		48	5240	10.00-12.00
	802.11ac(VHT40)	38	5190	10.00-12.00
		46	5230	10.00-12.00
	802.11ac(VHT80)	42	5210	9.00-11.00
WIFI 5.8G (5.725~5.850)	802.11ac(VHT20)	149	5745	12.50-14.50
		157	5785	12.50-14.50
		165	5825	12.50-14.50
	802.11ac(VHT40)	151	5755	12.00-14.00
		159	5795	12.00-14.00
	802.11ac(VHT80)	155	5775	12.00-14.00

Band (GHz)	Mode	Range(dBm)
Bluetooth (2.4~2.4835)	GFSK	3.00-5.00
	π/4-DQPSK	1.00-3.00
	8-DPSK	1.00-3.00
	BLE	2.00-4.00

handheld