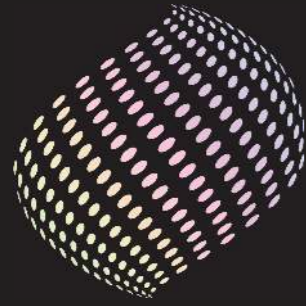


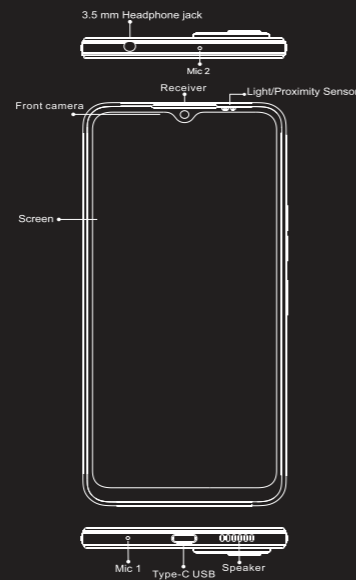
# VORTEX



## Z23

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[www.vortexcellular.com](http://www.vortexcellular.com)

### PRODUCT HEX-VISION IMAGE

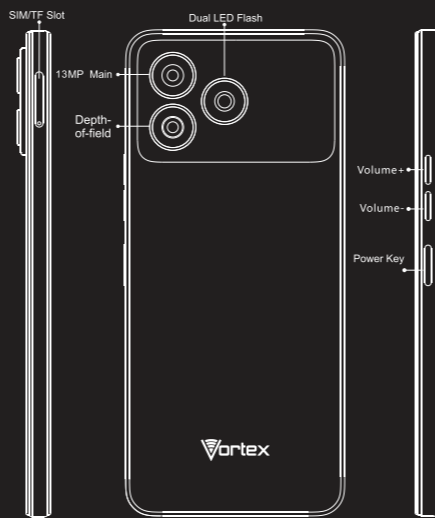


**POWER BUTTON:** Long press to turn on the device; When the device is on, short press Power Button to shutdown or turn on the screen.

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### PRODUCT HEX-VISION IMAGE



**VOLUME BUTTON:** Short press to adjust the volume or to mute incoming calls.

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### CARD INSERT MANUAL

#### Insert Nano-SIM Card

Please face the chip side of the Nano-SIM card down when inserting into the slot. Be aware of the direction of the cut edge when placing the Nano-SIM card into the slot.

#### Reminder:

Please use standard Nano-SIM card. Please don't use a non-standard card that is pre-cut, in order to prevent the SIM slot and card tray from being damaged and card-rejection situation that may cause damage to the phone.



#### TF Card Installation

Please place the metal contact of the TF card face down, be aware of the direction of the cut edge. Place the card onto the tray and insert into the device.

#### Reminder:

Please turn off the phone before changing or replacing the TF card. TF card does not come with the phone, please purchase separately.

Please do not insert and remove sim card tray when the phone is on. Be careful when using the slot thimble from scratching the phone.

#### DUAL-SIM MANAGEMENT

Please choose which SIM card slot to be the main one to be for 4G network via Setting > SIM Card. Choose your preferred network types of 4G/3G/2G via Setting > Network & Internet > Mobile network > Preferred network type

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### NETWORK CONNECTION

#### Connecting WiFi

Into the setting of WiFi via Settings > Network & Internet > Wi-Fi. When WiFi is on, a list available WiFi connection will appear. Click on the one you want to connect to, enter the password if the network is encrypted, then click Connect. When it's a public network, just click Connect. When the network shows "connected", it is available to use.

#### Bluetooth Function

Into the setting of Bluetooth function via Settings > Connected devices > Bluetooth. Enable the Bluetooth function by clicking the Menu Button then select "Scan", then the phone will search for available Bluetooth devices for pairing and list on the screen. Click on the one you want to pair with, then click "Pair" on the dialog pop-up. Documents are available for transmission after Bluetooth pairing.

#### Reminder:

Slide down the status bar twice to open the shortcut switches for Bluetooth and other functions.

#### WiFi and Hot-spot Setting

Click on via Settings > Network & Internet > Hotspot & tethering > Wi-Fi hotspot to turn on the Portable WiFi Hot-spot function. When setting up WiFi hot-spot, enter your user name in "Network Name" and password, then click Save. Another device can use the WiFi hot-spot by searching and entering the password.

#### Reminder:

Please enable the Data Connection before enabling the network sharing function. Your mobile traffic will be shared by other devices, so please use it carefully. The signal of the WiFi hot-spot depends on the signal strength and devices

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### CAMERA

Aim the camera at the shooting object, the phone will start to focus automatically, or you can click on the screen to choose the object you want to focus on, then click "Capture" icon to take photos. You can also choose other modes such as video recording.

### INSTRUCTIONS FOR DUAL-CARD STANDBY

"Dual card, dual standby, single pass" means you can insert two SIM cards and have them both "standby", but cannot make phone calls at the same time. During the standby mode both cards are available for receiving phone calls, but once one of the cards is activated, the other one cannot receive phone calls nor make phone calls.

### SECURITY INFORMATION

Security information (including BS, ES, battery security information) of third-party software installation and function may vary in different regions or by different hardware specifications. Vortex holds disclaimer for the performance problem or incompatibility caused by third-party applications, registry editing, OS software modifying. Customizing the OS may cause the device or some applications fail to work properly.

Please prevent the device or the battery in extreme cold/hot condition. The extreme temperature will lead to deformation of the phone and reduce the charging capacity and battery life.

Please only use the custom designed and approved battery and charger by Vortex. Incompatible battery and charger may cause damage to the phone. Please abide by local regulation when disposing of the used batteries and phones.

Please do not place the battery or the phone onto or inside heating devices such as microwave, oven or radiator. The battery may explode if it gets too hot.

Please do not crush or pierce the battery. Prevent the battery from getting high pressure from outside, it may cause internal short and overheating

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### SPECIFICATIONS

#### BASIC INFORMATION

Model	Z23
Operating System	Android™ 13
CPU	MediaTek Helio A22 Quad-Core 4x ARM Cortex-A53 Mpcore up to 2.0GHz IMG PowerVR GE8300 up to 660MHz
GPU	
RAM	3GB
ROM	4GB
Battery	5150mAh

#### Display

Screen Size	6.52 inch
Resolution	720x1600 Pixels
Touch	Capacitive multi-touch

#### Cameras

Rear Camera	13MP+2MP Camera
Front Camera	5MP Camera

#### Connection(I/O)

Band	LTE FDD B2/4/5/12/13/25/26/66/71 TDD B41F WCDMA B2/4/5 GSM B2/3/5/8 2 Nano SIM Card Or 1 Nano SIM and 1 TF Card IEEE802.11 ac/a/b/g/n Bluetooth 5.0 GPS, Beidou, Glonass, Galileo
SIM/TF card	
WiFi	
Bluetooth	
GNSS	
FM	Yes
Earphone Port	3.5mm
USB Port	Type-C

#### Other Features

Video File Format	3GP/MPEG4, etc.
Audio File Format	WAV/MP3/AAC/AMR/MIDI/APE/WMA, etc.
Card Extend	Support TF card up to 256 GB
Language	Support Multi-language
Sensor	G-Sensor, P-Sensor, L-Sensor, Compass,

#### In the box

- 1x Phone
- 1x Screen Protector (pre-applied)
- 1x Phone Case
- 1x Type-C Cable
- 1x Power Adapter
- 1x SIM Tray Ejector
- 1x Quick Start Guide

Android is a trademark of Google LLC.

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### Safety Statement

#### FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.  
This device complies with part 15 of the FCC Rules. 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.  
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 installed 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.

#### ISED Warning:

Operation of 5150-5250 MHz is restricted to indoor use only.  
This device complies with Innovation, Science, and Economic Development Canada (Innovation) (ICES) standards. Operation is subject to the following two conditions:  
(1) This device must not cause interference, and  
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le fonctionnement de 5150-5250 MHz est limité à une utilisation en intérieur uniquement.  
Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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.

Specific Absorption Rate (SAR) information:  
SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the phone transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. Before a new model phone is available for sale to the public, it must be tested and certified to the FCC/ISED that it does not exceed the exposure limit established by the FCC/ISED, tests for each phone are performed in positions and locations as required by the FCC/ISED.

For body worn operation, this model phone has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designed for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 10mm from the body. Non-compliance with the above restrictions may result in violation of RF exposure guidelines.  
Informations sur le taux d'absorption spécifique (DAS)  
Les tests SAR sont effectués en utilisant des positions de fonctionnement standard acceptées par la FCC/ISED avec le téléphone transmettant à son niveau de puissance certifié le plus élevé dans toutes les bandes de fréquences testées, bien que le SAR soit déterminé au niveau de puissance certifié le plus élevé, le niveau SAR réel du téléphone tout en fonctionnement peut être bien en dessous de la valeur maximale. Avant qu'un nouveau modèle de téléphone ne soit disponible à la vente au public, il doit être testé et certifié par la FCC/ISED qu'il ne dépasse pas la limite d'exposition établie par la FCC/ISED, des tests pour chaque téléphone sont effectués dans des positions et des emplacements tel que requis par la FCC/ISED.

Pour un fonctionnement porté sur le corps, ce modèle de téléphone a été testé et répond aux directives d'exposition RF FCC/ISED lorsqu'il est utilisé avec un accessoire conçu pour ce produit ou lorsqu'il est utilisé avec un accessoire qui ne contient pas de métal et qui positionne le combiné à au moins 10 mm du corps. Le non-respect des restrictions ci-dessus peut entraîner une violation des directives d'exposition aux RF.

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### Safety Statement



BE	BG	CZ	DK	DE	EE	IE	EL
ES	FR	HR	IT	CY	LV	LT	LU
HU	MT	NL	AT	PL	PT	RO	SI
SK	FI	SE	NO	IS	LI	CH	TR

In all EU member states, operation of 5150-5250 MHz is restricted to indoor use only.

#### Frequency Range:

EGSM890: 880-915 MHz (TX), 925-960 MHz (RX)

DCS1800: 1755-1785 MHz (TX), 1805-1880 MHz (RX)

WCDMA900: 880-915 MHz (TX), 925-960 MHz (RX)

WCDMA2100: 1920-1980 MHz (TX), 2110-2170 MHz (RX)

LTE Band 1: 1500-1580MHz(TX), 2110-2170MHz(RX)

LTE Band 3: 1710-1780MHz(TX), 1920-1980MHz(RX)

LTE Band 7: 2500-2570MHz(TX), 2620-2690MHz(RX)

LTE Band 8: 880-915MHz(TX), 925-960MHz(RX)

LTE Band 38: 2670-2690MHz(TX/RX)

LTE Band 40: 2300-2600MHz(TX/RX)

SG-WIFI: 2412-2472MHz(2422-2484MHz(TX/RX))

Bluetooth/BLE: 2402-2480MHz(TX/RX)

GPS L1 CAZ: BDS B1I Galileo E1: 1559-1610MHz (RX)

FM: 87.5-108MHz (RX)

#### RF Output Power:

EGSM890: 33.0dBm(MSD), 27.0dBm(PSPK)

DCS1800: 30.0dBm(MSD), 28.0dBm(PSPK)

WCDMA900: 23.0dBm

WCDMA2100: 22.0dBm

LTE Band 1: 23.0dBm

LTE Band 3: 22.0dBm

LTE Band 7: 23.0dBm

LTE Band 8: 23.0dBm

LTE Band 38: 23.0dBm

LTE Band 40: 24.0dBm

SG-WIFI:

5150-5250MHz

12.9dBm@100MHz, 13.0dBm@100MHz, 12.9dBm@100MHz

12.9dBm@100MHz, 12.14dBm@100MHz, 12.9dBm@100MHz

5725-5850MHz

10.4dBm@100MHz, 11.0dBm@100MHz, 10.4dBm@100MHz

11.3dBm@100MHz, 11.2dBm@100MHz, 10.7dBm@100MHz

2.42dBm@100MHz, 18.2dBm@100MHz, 17.2dBm@100MHz

16.3dBm@100MHz, 16.2dBm@100MHz, 16.3dBm@100MHz

Bluetooth: 6.99dBm

BLE: 0.22dBm

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