

# User Manual

## Mobile Phone

Model: VFD 320

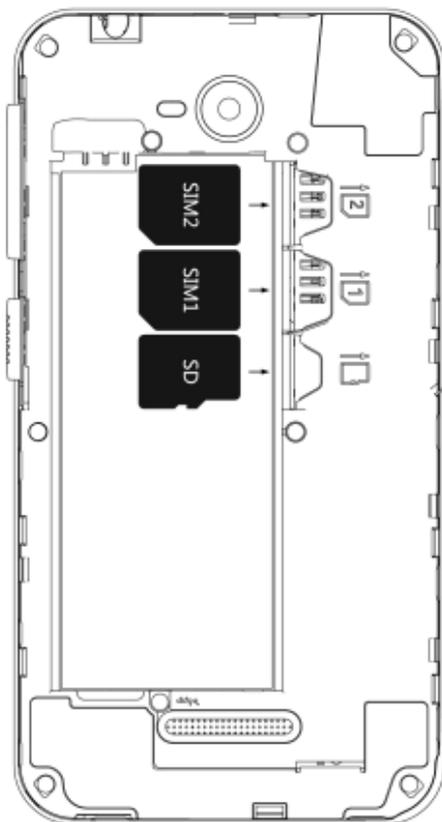
Hereby, MOBILE LIMITED  
declares that this Mobile Phone is in  
compliance with the essential  
requirements and other relevant  
provisions of Directive 2014/53/EU.

# Know your phone



# SIM/SD card installation

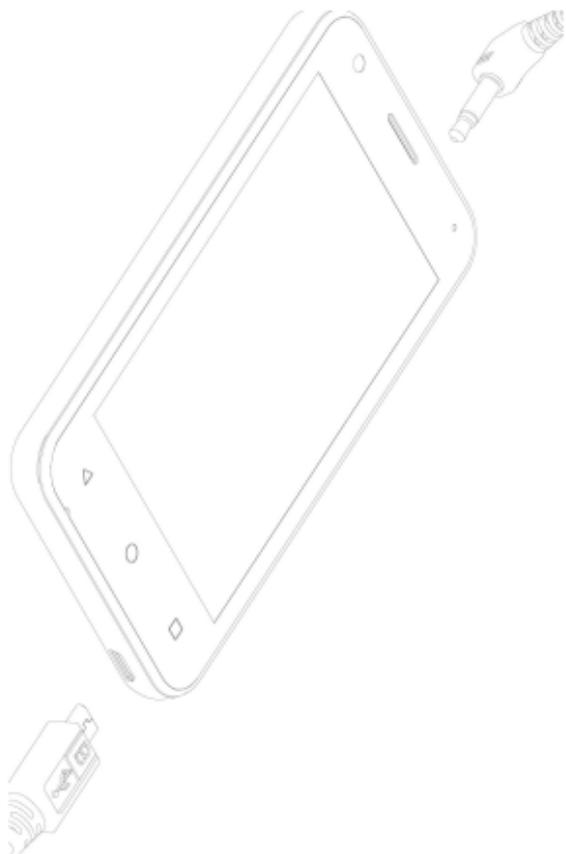
1. Power off mobile.
2. Refer to the following picture for SIM / SD card installation.



# Charging the phone

You can charge your device using a charger or by connecting it to the computer using a USB cable (comes with the phone).

1. Please remind the front and back of the plug.
2. Use only original charger and cables. Other chargers or cables may damage the device or your device. This will invalidate your phone warranty.



## Operating Frequency Band (RF):

GSM850:824-849 MHz(TX), 869-894 MHz(RX),  
EGSM900:880.0–915.0MHz(TX), 925.0–960.0MHz(RX)  
DCS 1800: 1710.0–1785.0MHz (TX), 1805.0–1880.0 MHz (RX)  
PCS 1900: 1850.0–1910.0MHz (TX), 1930.0–1990.0MHz (RX)  
WCDMA BAND1: 1920-1980MHz (TX), 2110-2170MHz (RX)  
WCDMA BAND8: 880-915MHz (TX), 925-960MHz (RX)  
Bluetooth: 2402-2480MHz (TX/RX)  
WIFI: 2412-2462MHz (TX/RX)  
GPS:1575.42MHz  
FM: 87.5MHz-108MHz(RX)

## Modulation mode:

GMSK (GSM850/GSM900/DCS/PCS)  
WCDMA Uplink: BPSK/QPSK/16QAM;  
WCDMA Downlink: BPSK/QPSK /16QAM/64QAM  
GFSK/ $\pi/4$ -DQPSK/ 8-DPSK (Bluetooth)  
BPSK/QPSK/16QAM/64QAM/DSSS/OFDM/ CCK (WIFI b/g/n)  
BPSK/QPSK (GPS)

## Max Output Power:

Item	Max Output Power(dBm)
GSM850/GSM900	33.5
PCS1800/DCS1900	30.5
WCDMA900/WCDMA2100	23
BT	5.5
802.11b	15.5
802.11g	13.5
802.11n 20M	12.5
802.11n 40M	11

# CAUTION:

1. Use careful with the earphone maybe excessive sound pressure from earphones and headphones can cause hearing loss.
2. Risk of explosion if battery is replaced by an incorrect type, dispose of used batteries according to the instructions.
3. The product shall only be connected to a USB interface of version USB2.0.
4. Adapter shall be installed near the equipment and shall be easily accessible.
5. EUT Temperature:  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ .
6. Charger1:A31A-050100U-EU1  
Charger2:A31A-050100U-EU1  
Charger3:WUK550mA5V00  
Charger4:TUUK050055  
Charger5:TUAU050055
7. The device complies with RF specifications when the device used at 5mm from your body.
8. To prevent possible hearing damage, do not listen at high volume levels for long periods.
9. Earphone and USB cable are shielded.



Figure 1 - Warning label (IEC 60417-0444)

Hereby, vodafone, declares that this device (VFD 321/ VFD 320)is in compliance with the essential requirements and other relevant provisions of Directive 2014 / 53 / EU. The full text of the EU declaration of conformity is available at the following internet address: [www.vodafone.com](http://www.vodafone.com)

## FCC Regulations

(15C) 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.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

(15B) 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.

#### Radio Frequency (RF) Energy

This phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the United States.

During SAR testing, this device was set to transmit at its highest certified power level in all tested frequency bands, and placed in positions that simulate RF exposure in usage against the head with no separation, and near the body with the separation of 10 mm. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the phone is

designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The exposure standard for wireless devices employing a unit of measurement is known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.

This device is complied with SAR for general population /uncontrolled exposure limits in ANSI/IEEE C95.1-1992 and had been tested in accordance with the measurement methods and procedures specified in IEEE1528.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of [www.fcc.gov/oet/ea/fccid](http://www.fcc.gov/oet/ea/fccid) after searching on FCC ID: QPN-VFD320

For this device, the highest reported SAR value for usage against the head is 1.133W/kg, and for usage near the body is 1.133W/kg.

While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirements.

SAR compliance for body-worn operation is based on a

separation distance of 10 mm between the unit and the human body. Carry this device at least 10 mm away from your body to ensure RF exposure level compliant or lower to the reported level. To support body-worn operation, choose the belt clips or holsters, which do not contain metallic components, to maintain a separation of 10 mm between this device and your body.

RF exposure compliance with any body-worn accessory, which contains metal, was not tested and certified, and using such body-worn accessory should be avoided.