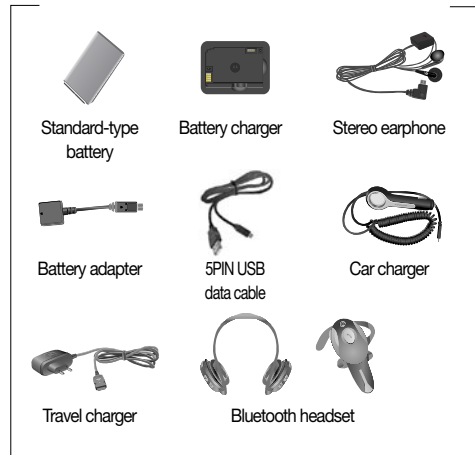


# 1. Accessories

You can purchase optional items at the nearest Motorola service center or accessory shop. Contact the service provider or visit Motorola homepage ([www.mymotorola.co.kr](http://www.mymotorola.co.kr)) for details.



# 2. Troubleshooting

## Nothing is displayed on the screen

- Check the battery.

## No antenna bar is displayed on the screen

- Move to other place and then attempt a call again.

## It sounds 'Toot-Toot' when a call is placed

- There is no communication channel available or your phone has failed in communicating with a base station. Press to clear the call and press to redial the number.

## The charging lamp of the charger blinks in red

- Check the battery position or clean the terminals before reattempting charging. If the lamp keeps blinking, contact the nearest service center.

## Battery operating time does not comply with the User Manual

- The battery operating time reduces slowly as the battery repeats charging and discharging. The operating time reduces rapidly if the battery is left in a cold or hot place for a long time.

## Malfunction or failure to power On

- Remove the battery and reinstall it, and then turn the power on.

# 3. Spec and Feature

	Wireless communications service	Bluetooth
Transmit frequency	1942.8~1977.2MHz	2402~2480MHz
Receive frequency	2132.8~2167.2MHz	2402~2480MHz
TX power	200mW	0.1mW
Number of channel	8CH	79CH
Type of emission	G7W	F1D
Modulation system	QPSK	GFSK
Communication mode	duplex operation system	semi-duplex operation
Transformer	PLL	
Power	DC 3.8V	
Exterior, weight	48.9(W)mmX100.0(L)mmX18.5(T)mm, 103g(±3g)	
Relative humidity	-20°C~+50°C, 0%~95%	

# 4. Authentication label

1. Name of the model : Wireless communications service device (VU20)
2. Authentication number : MOT-W-VU20-0804
3. Authentication Trade name : Motorola Korea Inc.
4. The date of manufacture: 2008. 4 . .
5. Manufacturer/country : Motorola Korea Inc. / China

## 5. Specific Absorption Rate

This mobile phone satisfies the Standard of Human Body Protection against Electromagnetic Wave specified on No.2001-88 notified by Ministry of Information and Communication Republic of Korea.

The phone is designed and manufactured to limit or not to exceed RF exposure level as a wireless transceiver. The limit requirement is a part of the synthetic guideline to define the permissible value of high frequency for general users. The guidelines are based on the standard developed through regular and thorough research & evaluation at a separate research institute. One of them is the practical safety limit which is to seek everybody's safety regardless of age and health condition.

The exposure standard of mobile phone has been established by the use of Specific Absorption Rate (SAR), a measuring unit. SAR limit is set to 1.6 W/kg in this model. SAR test is done; the mobile phone in normal operation is tested under which transmission is done at the maximum output level authorized in all tested frequency band. SAR is set at authorized maximum output level, but real SAR level of a phone in operation is likely to be lower than the maximum level. Because the phone is designed to be operated at various output levels in order to use only output required to reach wireless base station. In general, the nearer the base station, power gets lower.

We test our products to confirm if they satisfy these requirements before sales for general users. The phones are tested at the position subject to the test method determined by professional standard institute. The maximum SAR level is 0.489W/kg when the phone is tested under which it is placed on a user's ear.

SAR level is subject to change depending on places where each phone is used, but it satisfies our governments safety exposure requirements. SAR level of next models may vary thanks to improved functions of the phone but we hope you understand our products are designed to satisfy the above guidelines in any case.

## 6. Collecting wasted-mobile phones

The collected wasted-mobile phones are utilized as resources and the residues are treated ecologically. Motorola is willing to do its best to protect environment not only today but in the future also. We kindly inviting you to participate in this movement for the protection of environment.

### Motorola phone collecting centers



### Recycling of wasted-mobile phone

- Return the old one to the distributor when you purchase a new phone. ■ Visit a near-by representative of the manufacturer or A/S center.
- Return your mobile phone to a representative of mobile service provider.
- Utilize a collecting bag with no charger (arranged in provincial office, distributor, representative)

### Guidelines for collecting discarded Motorola mobile phones



Please think of environment when you discard your phones and accessories. Do not discard old mobile phones or accessories such as battery pack, battery charger, etc. together with household waste. In some countries and areas, they have established a system to treat useless electronic and electrical products and batteries. Please contact your area for more information. If there is no appropriate system available, please send useless mobile phone and accessories to a near-by Motorola service center.

# FCC Notice to User

The following statement applies to all products that have received FCC approval. Applicable products bear the FCC logo, and/or an FCC ID in the format FCC-ID:xxxxxx on the product label.

Motorola has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment. See 47 CFR Sec. 15.21.

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. See 47 CFR Sec. 15.19(3).

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 the receiver.
- Connect the equipment to 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.

## Bluetooth

- Bluetooth mode : (Left)[Menu]
- Connect bluetooth : (Left)[Menu]
- Settings : (Left)[Menu]
- My Device Info : (Left)[Menu]

## Dictionary

- English-Korean : (Left)[Menu]
- Korean-English : (Left)[Menu]
- My Vocabulary : (Left)[Menu]
- Previous Key Word : (Left)[Menu]
- Settings : (Left)[Menu]

## Photo Capture

- In standby screen, press and hold (Camera) for a while.

## Movie Capture

- In standby screen, press and hold (Camera)



## Summary Table

## Saving Phone Number

- Save number from menu: (Right)[Phonebook] (Right)[Add New]
- Save number in standby screen: Enter number (Right)[Save]

## Searching Phone Number

- In the standby screen, press and hold (Right)[Phonebook] and select Speed/All/Group/Number

## Messages

- Checking message: 1
- Writing message: 2

## T LIVE

- Recent video list: 1
- Video message box: 2
- VTC contents box: 3
- Movie/Photo album: 4
- T LIVE settings: 5

## Main Menu Setting

- Sounds: (Left)[Menu] 1
- Display: (Left)[Menu] 2
- Message: (Left)[Menu] 3
- Camera: (Left)[Menu] 4
- June setting: (Left)[Menu] 5
- Bluetooth: (Left)[Menu] 6
- T LIVE settings: (Left)[Menu] 7

## One-Touch Dial

- Set/Release Etiquette: In standby screen, press and hold
- Lock/Unlock: In standby screen, press and hold
- W: In standby screen, press
- Moneta: In standby screen, press
- My Menu: In standby screen, press
- T MAP: In standby screen, press and hold
- NATE: In standby screen, press and hold
- Operation Effects: In standby screen, press
- T interactive: In standby screen, press and hold

## Warranty Policy

Thank you for purchasing a Motorola product. This product has passed a strict quality control and inspection of the Motorola Technology Team. If a defect is found in your product during the warranty period, it will be repaired free of charge at a Motorola Service Center.

### Warranty Period

- Terminal Equipment : 1 year
- Lithium ion battery : 6 months
- Other Accessories : 1 year

### Free Warranty Service

Free warranty service will be provided for one year (warranty period) after purchasing.

Type of defects or trouble	Compensation		
	Under warranty	After expiry of warranty	
Critical repair service request resulting from performance and function failures occurred in normal operation within 10 days after purchasing	Exchange or refund	N/A	
Critical repair service request resulting from performance and function failures occurred in normal operation within 1 month after purchasing	Exchange or repair		
Critical repair service request within 1 month of exchange. Exchange the product is impossible	Refund		
Repairable	Performance and function failures occurred	Free service	Paid service
	Three times of repair and four times of defects resulting from the same reason Four times of repair and five times of defects resulting from the different reasons	Exchange or refund	Paid service
Non-repairable	A/S parts are available but repair is impossible	Exchange or refund	Refund the price deducted by the depreciation amount
	Repair is impossible because A/S parts are not in stock.		Refund the price deducted by the depreciation amount and added by its 10%
lost of repair request product by the user	Exchange or refund		Refund the price deducted by the depreciation amount and added by its 10%

Model		Serial No.	
Purchase Date	Year Month Day	Customer	
Distributor		Price	

※ When you purchase the product, please fill the blanks on the Warranty Policy and keep it together with the receipt in order to obtain more beneficial service.

### Paid Service

- Reasons other than defects  
Service requests for symptoms other than defects will be charged after expiry of the warranty period. Carefully read the User's Manual before you visit a service center.
- Defects resulting from user's errors
  - Defects caused by careless handling (soaking, impact) or improper repairing and remodeling.
  - Defects caused by using improper power supply.
  - Defects caused by repairs done at a place other than the Motorola Service Centers.
  - Defects caused by using accessories not provided by Motorola. (hands free, quick charger, charger, battery, stereo headset, battery cover, etc.)
  - Defects or damages resulting from dropping while moving the product.
- Others
  - Defects resulting from natural disasters such as fire, earthquake, flood, etc.
  - Expiry of life time of consumables (battery, stereo headset, external memory, antenna, and various accessories)

