



KICKFLIP™



User's Manual



Kickflip User's Manual.

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- Product meets current FCC Radio Frequency Exposure Guidelines. FCC Equipment Authorization ID: SBWVK650C. Additional details within and at <http://fcc.gov/oet/fccid>.
- TTY compatible.
- Phone appearance and features may vary from device shown.
- Screen shots simulated. Actual results vary.
- Meets FCC SAR limit.
- All features, functionality or other product specifications are subject to change without notice or obligation. Battery should be recycled or disposed of properly.
- Phone made in Korea with Korean and foreign components. Other items imported. See each item for country of origin.
- Hearing Aid Compatibility (HAC) level = M3.

Some features, content, and applications are not available in all areas and are device dependent. Service and features are subject to change without notice. Coverage and service are network dependent and are not available everywhere. Airtime, messaging, application, and content charges may apply depending on your rate plan. Higher rates apply to international calls and messages. Accessories are sold separately. Helio LLC is not responsible for any third party applications, content, information, or data that is accessible on your Helio device. See enclosed Subscriber Agreement (on CD) for complete terms and conditions. By activating your Helio device, you are agreeing to the Subscriber Agreement. Some screen shots are representations, and the image you see on your Helio device may be different.

Thank you for purchasing a Helio mobile device.

Helio mobile devices, designed by VK Mobile®, are designed and manufactured in compliance with very strict in-house and international quality standards and are run through a series of rigorous tests, including temperature, humidity, impact, dust, vibration, and falling tests. We are confident that you will be fully satisfied with your mobile device.

- The contents of this user's manual and the functions of the mobile device are subject to change.
- We suggest that mobile devices be set to Vibration or Silent Mode in public places.

■ Important Information

This user's manual contains important information on the use and operation of this mobile device. Please read all information carefully to ensure optimal performance and to prevent any damage to or misuse of the device. Any changes or modifications not expressly approved in this user's manual could void your warranty for this equipment. **FAILURE TO FOLLOW THE INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY AND PROPERTY DAMAGE.**



To reduce the possibility of electric shock, do not expose your device to high humidity areas, such as the bathroom, swimming pool, etc.

Always store your mobile device away from heat.

Never store your device in settings that may expose it to temperatures less than 32°F or greater than 104°F, such as outside during a snowstorm or in your car on a hot day. Exposure to excessive cold or heat will result in malfunction, damage, and/or catastrophic failure.

Be careful when using your mobile device near other electronic devices.


RF emissions from your device may affect any inadequately shielded electronic equipment nearby. You should consult with the manufacturers of any personal medical devices, such as pacemakers or hearing aids, to determine if they are susceptible to interference from your mobile device. Turn off your mobile device in medical facilities and at gas stations. Never place your device in a microwave oven, as this will cause the battery to explode.

IMPORTANT! Please read the TIA SAFETY INFORMATION on page 129 before using your mobile device.

Safety Information

Please read and observe the following information for the safe and proper use of your device and to prevent any accidental damage. Also, keep this user's manual in an accessible place after reading it.

- Unplug the power cord and charger during a lightning storm to avoid electric shock or fire.
- Do not use your device in high explosive areas, as the device may generate sparks.
- Do not put your device in a place subject to excessive dust, and maintain the minimum required distance between the power cord and heat sources.
- Unplug the power cord prior to cleaning your device, and clean the power plug pin when it is dirty.
- Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose, as it may cause fire or electric shock.
- Hold the power cord plug firmly to plug and unplug the power cord. Ensure the plug is firmly connected. If it is not firmly connected, it may cause excessive heat or fire.
- Do not place heavy items on the power cord. Do not allow the power cord to be crimped, as it may cause fire or electric shock.
- Be careful not to let the battery contact metal conductors, such as a necklace or coins. When shorted, it may cause an explosion.
- Do not disassemble or deliver any impact to the battery, as it may cause electric shock, short-circuit, and fire. Store the battery in a place out of reach of children.
- Using a damaged battery or placing a battery in your mouth may cause serious injury.

- 
- Do not place items containing magnetic components, such as a credit cards, phone cards, bank books, or subway tickets, near your mobile device. The magnetism of the device may damage the data stored in a magnetic strip.
 - Do not hold the antenna or let it come into contact with your body during a call.
 - Talking on your mobile device for a long period of time may reduce the call quality due to heat generated during use.
 - Do not allow excessive vibration or impact to the device.
 - When you do not use the device for a long period time, store it in a safe area with the power cord unplugged.

■ Precautions When Using Batteries

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the device near a network base station, it uses less power; talk and standby times are greatly affected by the network signal strength and the parameters set by the network operator.
- Battery charging times depend on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it's time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only approved batteries, and recharge your battery only with approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, as overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter, as you will reduce the capacity and life of the battery. Always try to keep the battery at room temperature. A device with a hot or cold battery may be temporarily inoperational, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0°C (32°F).
- Accidental short circuiting can occur when a metallic object, such as a coin, clip, or pen, causes a direct connection between the + and – terminals of the battery (the metal strips on the back of the battery)—for example, when you carry a spare battery

- in a pocket or bag. Shorting the terminals may damage the battery or the object causing the short.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

■ Cautions for Charger and Battery

Charger cautions:

- Using the wrong Charger could damage your mobile device and void your warranty.
- The Charger is intended for indoor use only.
- Do not expose the Charger to direct sunlight or use it in places with high humidity, such as the bathroom.

IMPORTANT SAFETY INSTRUCTIONS—SAVE THESE INSTRUCTIONS

DANGER—TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, FOLLOW THESE INSTRUCTIONS CAREFULLY

For connection to a non-US power outlet, use a power adapter with the proper configuration for the power outlet.

The power unit is intended to be correctly oriented in a vertical or floor mount position.

CAUTION

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

- ▶ Do not disassemble.
- ▶ Do not short-circuit.
- ▶ Do not expose to high temperatures above 60°C (140°F).
- ▶ Do not incinerate.

Battery Disposal

- ▶ Dispose of your battery properly or bring it to your local wireless carrier for recycling.
- ▶ Do not dispose in fire or with hazardous or flammable materials.

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Before Using Your Device

- Parts and Accessories
- Device
- Inserting/Removing the Battery
- Charging the Battery
- About the Battery

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■ Parts and Accessories

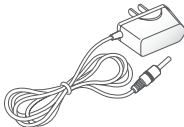
Verify that all parts and accessories are included with your purchase. (Visit the nearest store or service center to obtain missing parts.)



Device



Battery



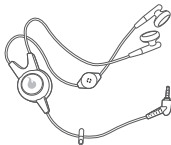
Charger



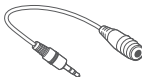
CD



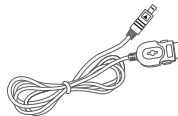
LCD Cleaner



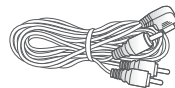
Headset



2.5mm to 3.5mm Adapter



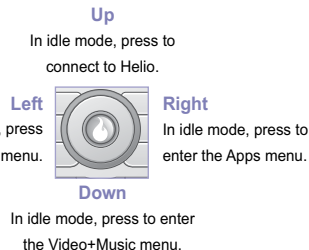
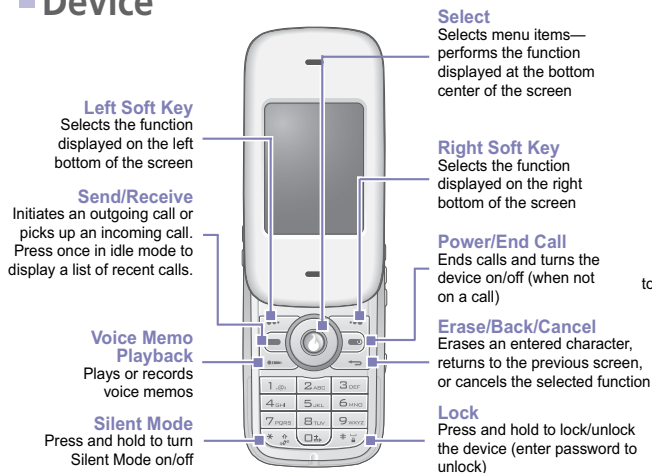
USB Cable

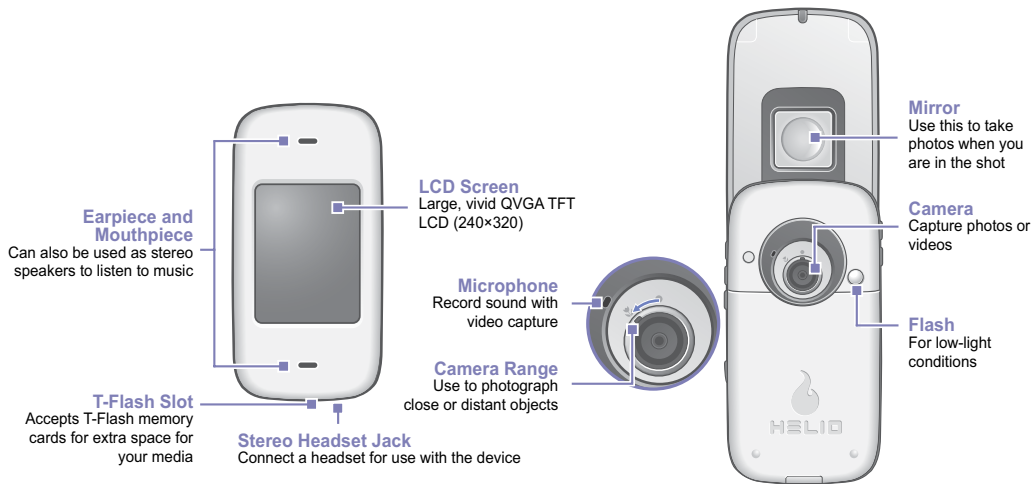


TV Cable (Optional)

※ Actual products may look different from the above pictures. The optional TV Cable can be purchased separately.

■ Device



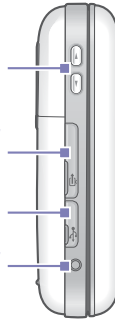


Volume
Adjusts the sound volume in idle mode or the voice volume during a call. Adjusts the image resolution in Camera Mode.

24-Pin Connector
Connect the optional TV Cable for photo/video playback on your TV

USB
Connect a USB cable to transfer data or charge your device

Power Connector
Connect the Charger here to charge your device















Fast Reverse
Play/Pause
Fast Forward









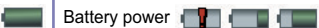

Camera
Opens the camera viewfinder and captures photos or videos



To prevent a short from occurring, cap the end of the exposed part of each unused connector to prevent short circuits. In the event that the power supply is cut due to a short, remove the battery from the device and then reattach it.

Status Icon Legend

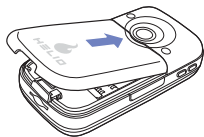
	In the connection area,  indicates a weak connection;  indicates a strong connection.
	International roaming or roaming with another telecommunications service provider within the US
	Call in progress
	No service
	Text message waiting
	Picture message waiting
	Voice message waiting
	Text and voice messages waiting
	Picture and voice messages waiting
	Text and picture messages waiting

	Text, picture, and voice messages waiting
	Alarm set
	Silent Mode on
	Ring on incoming call
	Vibrate on incoming call
	Ring and vibrate on incoming call
	Vibrate then ring on incoming call
	T-flash card inserted
	Battery power
	Device locked

※ Direct light is not necessary when viewing the LCD screen. The screen remains fully bright and never dims under shade; it is bright enough to read a book.

■ Inserting/Removing the Battery

Attaching Battery

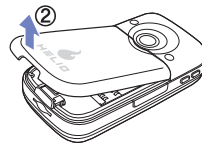


- ① Insert the battery into the back of the device and slide the cover forward.



- ② Press the battery down until you hear a click.

Removing Battery



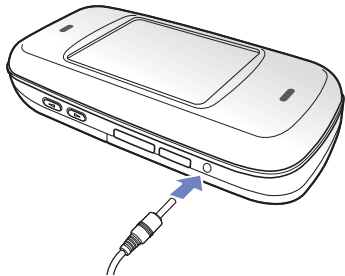
- ① While pressing the release button,
- ② pull the cover in the arrow direction.



To prevent damage, make sure the device is OFF before removing the battery.

■ Charging the Battery

Using the Charger



To charge the battery, connect the Charger between the wall and the power connector on the side of your device.

- ▶ Use only the Charger designed for your device.
- ▶ If you do not charge your mobile device regularly and with the Charger designed for it, its performance and battery capacity will decline.



Do not accidentally connect the headset to the power connector jack.

■ About the Battery

Battery Life

Normal State

Activity \ Type	Standard Battery
Continuous Standby	About 120 hours
Continuous Call	About 170 minutes
Charging Time	About 150 minutes

Operating State

Activity \ Type		Standard Battery
Playing Games		About 250 minutes (Playing games with loud sounds will reduce the battery time.)
Using Camera		About 300 minutes
Play MP3s	Using Speaker	About 400 minutes
	Using Headset	About 470 minutes
Play Videos	Using Speaker	About 360 minutes
	Using Headset	About 360 minutes

How to Maximize Battery Life

- ▶ Entering characters, storing files, gaming, using the Internet, and playing video and music files will greatly reduce battery life.
- ▶ In idle mode, using images and/or animations will decrease battery life by 20–30%.
- ▶ Enabling button or flip sound effects, or frequent opening and closing of the flip will reduce battery life considerably.
- ▶ Use of Slot Mode will reduce battery life.
- ※ What is Slot Mode? Within a wireless network, a mobile device will periodically communicate with the network. Frequent communication will occur, resulting in reduced battery life in Slot Mode. Once communication with the wireless network is established, the frequency of communication will be about 2.5–5 times higher.
- ▶ When the device is not in a service area, its battery life will decrease as it will constantly check for a signal.
- ▶ Weak signals or overlapping channels in an area will waste battery life, as the mobile service will continue to configure and connect.
- ▶ Answering and ending calls often will result in faster expenditure of battery life.
- ▶ Lengthy calls will consume battery life.
- ▶ Continual use of the battery will slowly reduce its lifespan over time.
- ▶ After the battery charge is used up, the battery icon will indicate the discharged state. The device will emit a warning sound and then shut off. The battery must be charged to turn the device on again.

USB Cable Use Precautions

- ▶ Use only the included USB cable for charging.
- ▶ When connected to a notebook or desktop computer, charging may not perform normally or may take a long time due to concurrent use of other USB devices or degradation of computer performance.
- ▶ Use the included USB cable only with VK Mobile devices.


Basic Functions

- Power On/Off
- Making Calls
- Idle Mode
- Answering Calls
- Character Input


KICKFLIP

■ Power On/Off

Power On

Hold down . The intro splash screen will appear, followed by the idle mode display.


Power Off

In idle mode, hold down  to turn off your device. The exit splash screen will display before the device turns off.

–When powering on, the device will vibrate if the ring is set to silent.

■ Making Calls




Dialing a Number


Dial the phone number, then press .

The length of the call is displayed on screen.

When locked, enter your password to make outgoing calls.


Using the Contact List

In idle mode, press . Press  to search for a number in the list of incoming and outgoing calls. Press  to dial.

Once a stored number is identified by name or some icon, its phone number, date, and time are also marked at the lower end of the contact list screen (press  to view the details).


Using Speed Dial

Speed dial can be used to quickly dial saved phone numbers by assigning a short tag (2–99). Speed dial numbers 2–9 are dialed by holding down the assigned number, and stored numbers 10–99 are dialed by entering the first digit then holding down the second digit.



Example: Hold down  to dial the number stored in the second slot.

Press  and hold down  to dial the number stored in the 10th slot.






The first slot  connects you to voice mail.

Dialing with the Last Four Digits of a Number

From idle mode, dial the last four digits of the phone number—the four digits will be matched against numbers in the contact list and recent incoming/outgoing numbers and the resultant phone numbers displayed. Select the desired number from the list using  and press .


Enter the last four digits to search through the numbers saved in the contact list or call list.
If your device is locked, you must supply your password to make a call.

Saving a Number from a Recent Call

Press . Using , select a number to save. Press . Select **Save**. Enter the contact info and save.

You can select a number from the recent calls list and save it in your contact list.
For more information on saving a phone number, see page 84.

■ Idle Mode Menu

In idle mode, enter the number and press  to bring up the menu.

Send Pic Msg

Send a picture message to the number you have entered.



For more information on sending picture messages, see page 70.

Send Message


Send a text message to the number you have entered.

For more information on sending text messages, see page 62.

Dialing International Calls

Press the  key for 2 seconds. The + symbol will display. Enter the country code, area code, and phone number after the + symbol. Press the  key.

Hard Pause







Insert a hard pause. The device will wait until you press  to dial the rest of the number. This can be useful when using an automated response service (ARS).

2 Sec Pause



Inserts a pause of two seconds. The device will pause while dialing for two seconds. This can be useful when using an ARS.

■ Answering Calls

Incoming Calls

- ▶ When the flip is open, press . How to answer a call varies depending on the device settings. For more information, see page 119.
- ▶ When the call is complete, press  or close the flip.
- ▶ To silence an incoming call, press either  button. To reject the call (send to voicemail), press either  button again.
- ▶ To mute the ring when the flip is open, press . To reject the call (send to voicemail), press  again.

During a Call


Press  to enable/disable speakerphone. Press  to access the on-screen menu:

Mute/Unmute: Mutes/unmutes outgoing voices so the caller on the other end cannot hear them.

Search Contact: Searches for a contact during a call.

Save Contact: Stores a phone number during a call.

Record Call: Records a phone conversation. The outgoing voice is not recorded. The recording is saved under **Voice Recorder** in the **Plan** menu. (DTMF key tones are not sent while a call is being recorded.)


Number Memo: Save a number in a memo. The saved memo can be viewed in the recent calls list. Press  in idle mode to display the recent calls list.

Read Message: View, reply to, forward, delete, or save a received text message during a call. Save the sender's number or block it as a spam number. For more information on receiving a text message, see "Inbox" on page 63.


Privacy: Turns voice encryption on/off.

Send My #: Sends your number automatically to a pager or an ARS.



During a call, adjust the volume using the  buttons.


Silent Mode

Press and hold  to enter/exit Silent Mode.

In Silent Mode, alerts for schedule items, important events, alarms, and messages will vibrate instead of ringing. The event will be displayed on screen.

■ Character Input

Changing the Text Input Mode

When you are in a field that allows character entry, there is a text input mode indicator at the bottom of the display. To change the text input mode, press the  key repeatedly until you find the desired input mode.

- T9 mode: T9ABC, T9Abc, T9abc
- Korean mode: Kor
- ABC: ABC, Abc, abc
- Numeric: Num
- Symbol: Sym

Directions for using each of the text input modes begin on page 36.



You can also change the text input mode by pressing the key repeatedly in the text entry screen to cycle through the modes in the following order:

T9 ABC > Kor > Num > Sym > ABC


T9® Predictive Text Input


T9 mode allows you to enter English words with only one key press per letter.

Each key on a keypad has more than one letter associated with it. For instance, a single press of the **5** key could indicate 'J', 'K', or 'L'. T9 mode automatically compares your key presses to a built-in dictionary to determine the correct word. As such, it requires far fewer keystrokes than the traditional multi-tap method.

Typing English Words

To type a word, press the keys corresponding to the letters you need. Remember the following as you are typing:


1. Press a key on the device just once per desired letter. For example, to enter "hello," press 4-3-5-5-6.
2. The word you are typing appears on the display. It may change with each key you press.
3. Complete each word with a space by pressing the  key.

4. If the word that appears on the display is not the intended word, press  one or more times to display alternate word choices for the keys you have typed (for example, "of" and "me" both share the sequence 6-3). The device displays the most commonly used choice first.

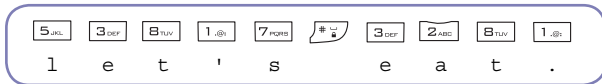


T9 mode displays all words containing the letters you have entered, saving you extra key presses.


Smart Punctuation

Periods, hyphens, and apostrophes can be entered by pressing the  key. T9 mode applies the rules of grammar to insert the correct punctuation.

Note that the  key is used twice in the following example to enter two punctuation marks:



Changing Case

To change the case in T9 mode, press the  key. Lowercase (abc), caps lock (ABC), and initial caps (Abc) are available.

Clearing Characters


Press  to remove characters from the text area.










ABC Mode

When typing in ABC mode, press the number keys labeled with the desired character—once for the first character, twice for the second character, and so on. For example, press the **2** key three times quickly to enter the character 'C' and the **5** key three times quickly to enter the character 'L'. This method is called multi-tap typing.

The cursor moves to the right when you press a different key. When using the same key again for another character, wait a few seconds for the cursor to move right automatically and then enter the next character. Refer to the table on page 40 for the list of characters assigned to each key.

Changing Case

To change the case in ABC mode, press the  key. Lowercase (abc), caps lock (ABC), and initial caps (Abc) are available.

Key	Available Characters (in the order displayed)	
	ABC	abc
1 	. @ : , - ? ! ' 1	. @ : , - ? ! ' 1
2 	A B C 2	a b c 2
3 	D E F 3	d e f 3
4 	G H I 4	g h i 4
5 	J K L 5	j k l 5
6 	M N O 6	m n o 6
7 	P Q R S 7	p q r s 7
8 	T U V 8	t u v 8
9 	W X Y Z 9	w x y z 9


Clearing Strokes and Characters

Press  to delete characters.

Numeric Mode

Numeric mode allows you to enter numbers into a text message. Press the number keys corresponding to the desired digits.

Symbolic Mode

Symbolic mode allows you to enter symbols into a text message. To scroll through the available symbol categories, press . When you see the desired symbol on the display, press the associated number key to insert the symbol. The device automatically switches back to the text entry mode in use prior to selecting Symbolic mode.

Menu Functions


- STYLE
- SURF
- SNAP
- TEXT
- CONTACT
- APPS
- PLAN
- VIDEO+MUSIC
- SETUP

KICKFLIP

■ STYLE


1. Rings






You can select a ringtone that will play when receiving a call. You can select from downloaded ringtones as well as the default ringtones.


In idle mode, press , select **Style**, then select **1. Rings**.

Rings: Select a live ringtone. Press  to select a menu option:

- Set as Ringtone: Specify the selected live ringtone as the default ringtone that will play when receiving a call.
- Delete: Delete the selected live ringtone.
- Rename: Rename the selected live ringtone.
- Content Properties: Rename, protect, unprotect or delete the selected live ringtone or check its content information.
- Delete All: Delete all contents in the live ringtone list.

Select a ringtone from the list and press  to play it.

During playback, use  to fast forward or fast reverse, or  to adjust the volume. Press  to pause; press  again to resume. Press  to select one of the following options:

- Switch Screen: Select this option to play in full-screen mode. To return to the original size (176×144), press .

- Playback Option: Select playback options (Repeat, Shuffle, Play While Closed, Backlight On During Playback). Use 🔊 to make a selection and ⏏ to apply the selection.
- Segment Repeat: Select a segment to repeat. To cancel segment repeat, press ⏏.
- Text Message: Send or view a text message during content playback.

Freebies: Select from the default ringtones.

Bell Rings: Select from your downloaded ringtones. (This option appears only when there are downloaded ringtones stored on your device. It does not appear when there are no downloaded ringtones or all downloaded ringtones have been deleted.)

2. Ringtone Download


Connects directly to the Helio Store, where you can download ringtones.

In idle mode, press ⏏, select **Style**, then select **2. Download**.

※ A service fee may be charged for downloaded ringtones. For more information, contact Helio.

3. Screens

Selects the wallpaper image displayed in idle mode. In addition to the default images, you can select a downloaded image, VideoScreen, picture, or video clip as your screen.

In idle mode, press , select **Style**, then select **3. Screens**.


Screens: Select from downloaded screens, or from the provided freebies.




VideoScreens: Select a VideoScreen. Press  to select a menu item:





- Screen Setup: Specify the selected VideoScreen as the standby screen, intro splash, exit splash, or connection screen.
- Delete: Delete the selected VideoScreen.
- Rename: Rename the selected VideoScreen.

Content Management

- Rename: Rename the selected content.
- Protect/Unprotect: Protect/Unprotect the selected content. Protected content cannot be deleted.
- Delete: Delete the selected content.
- Content Information: Display the selected content's title, copyright, protection status, play time, size, bit rate, valid duration, valid number of playback, lyrics status, and audio information.
- Delete All: Delete all contents in the VideoScreen list.

Press  to play the selected VideoScreen.

During playback, use  to fast forward or fast reverse. Press  to pause; press it again to resume. Press  to select from the following options:

- Switch Screen: Select this option to play in full screen mode. To return to the original playback screen, press .
- Playback Option: Select a combination from Repeat / Shuffle / Play While Closed / Backlight On During Playback. Use  to make a selection and  to apply the selection.
- Segment Repeat: Select a segment to repeat. To cancel segment repeat, press .
- Text Message: Send or view text messages during content playback.


Photos: Select from saved images.

Video Recordings: Select from saved video clips.

Freebies: Select from the default screens.

4. Screen Download

Connects directly to the Helio Store, where you can download screens and VideoScreens.

In idle mode, press , select **Style**, then select **4. Download**.

※ A service fee may be charged for downloads. For more information, contact Helio.

5. Call Screens

Selects the screen that will be displayed when receiving a call. In addition to the default images, you can select a downloaded image or picture as the call screen.

In idle mode, press , select **Style**, then select **5. Call Screens**.


Screens: Select from downloaded images.

Photos: Select from saved images.

Freebies: Select from the default screens.

6. Call Screen Download

Connects directly to the Helio Store, where you can download screens.

In idle mode, press , select **Style**, then select **6. Download**.

※ A service fee may be charged for downloads. For more information, contact Helio.




7. H.O.T. Screens

Starts H.O.T.™ (Helio On Top) screens.

In idle mode, press , select **Style**, then select **7. H.O.T. Screens**.

8. H.O.T. Screen Download

Connects directly to the Helio Store, where you can download H.O.T. screens.

In idle mode, press , select **Style**, then select **8. Download**.


※ A service fee may be charged for downloads. For more information, contact Helio.

■ SURF

Helio enables you to access information on the web anytime, anywhere via your mobile device.

In idle mode, press , then select **Surf**.

OR

In idle mode, press .

When browsing the web, press  to access the menu.

FAST ACCESS

Navigation options.

- Home: Go to the Helio start page.
- Search: Search the web.
- Go: Jump directly to a specified website.
- Forward: Jumps forward to the next page in the History.



BOOKMARKS

Manages bookmarks.

- Add: Adds a bookmark.
- View All: Displays all bookmarks.

HISTORY



Displays the browsing history.

SETTING

Other browser options.

- Refresh Page: Refreshes the currently displayed web page.
- Setup Options: Changes general browser settings.
- Lookup Contact: Allows you to browse your contact list.
- Browser Info: Displays browser version information.


■ SNAP

In idle mode, press  on the right side of your device to access the Camera menu. Press and hold  to open the camera viewfinder directly.

Before Using the Camera

Your device is set to generate a 60–68dBA sound effect when taking a picture or recording video, even when in Silent or Vibration Mode.


1. For best image quality, a subject should get more lighting than its surroundings. When shooting, avoid direct light and turn off the backlight.
2. When shooting, make sure to keep the camera and subject as stationary as possible, as it takes time for the camera sensors to adjust.
3. When taking pictures indoors, bright lighting (ambient illumination of 300–500lux) is recommended. You can set the camera mode to Portrait, Landscape, Evening, or Night, depending on the situation, to obtain the best image quality.
4. Once the camera is directed positioned, the camera sensors take time to adapt to the lighting. In particular, when taking a picture with little ambient light, the sensors require at least 3–5 seconds before the camera becomes fully functional.
5. When using the flash in dark settings, make sure to keep the shooting range short (approximately 20–50cm), as the flash performance decreases as the shooting range increases. However, if the distance is too short, automatic exposure adjustment may not work properly, making the picture too bright.

6. A close shot can be taken of a subject as close as 50cm. A subject closer than 30cm can be captured with a macro shot. If you rotate the slide at the top of the camera lens to , the camera is set to macro shot mode, which allows you to take clearer pictures at close range.
7. To shoot a self-portrait, open the flip and use the mirror to align the camera. You will obtain the best results when the shooting range is 50–80cm. About 60% of the reflected image is captured by the camera, so adjust the camera position accordingly.






- Since the camera is equipped with a high-precision image sensor that can be damaged upon impact, make sure not to drop it. In addition, the camera is sensitive to temperature and humidity, so keep your device out of extreme temperatures and high humidity.
- To avoid vision damage, avoid pointing the flash directly into the eyes.
- If the camera lens becomes dirty, it may cause blurred photos. Be sure it is clean before taking a picture.

1. Camera

In idle mode, press , select **Snap**, then select **1. Camera**.

OR

Press and hold .

Set the menu options as needed. Press  to shoot a photo. To save, press  then enter a name.

Press  to turn on the flash. Press  to open the camera menu:

Flash: Turn the flash on/off: Off, Auto, On.

Resolution: Specify the resolution: 240×320, 320×240, 640×480, 800×600, 1280×960, 1600×1200.

Quality: Specify the image quality: Small, Normal, Fine, Superfine.

Zoom: Zoom in/out (not supported when the resolution is set to 800×600 or higher).

Series: Turn on continuous shooting. Up to nine frames are supported. For more information on continuous shooting, see "Camera Setup" on page 59. (Continuous shooting is supported only when the resolution is set to 240×320 or 320×240.)

Stickers: Overlay the photo with a sticker. Ten stickers are available. (Sticker shooting is supported only when the resolution is set to 240×320.)

Brightness: Adjust the image brightness.

Light: Select the lighting mode: Auto, Cloudy, Daylight, Fluorescent 1, Fluorescent 2, Light Bulb.


Capture Mode: Select the shooting mode: Normal, Dark, Low Light, Person + Scene, Scene, Person.

Effect: Select an image effect: None, Negative, Embossing, Black & White, Sketch, Solarize, Sepia, Aqua, Posterize, Warm, Cool, Antique, Moonlight, Fog.

Rotate: Rotate the image: Off, 180°, Flip Horizontal, Flip Vertical.

Memory: Save the photo in internal or external memory. (A photo can be saved in external memory only when a T-Flash card is installed.)


► When entering Camera Mode, all settings but flash, resolution, and save location are restored to the defaults.

After taking a picture, press  to access a menu option before saving it.

Send Pic Msg: Send a picture message with the photo attached. (A picture message cannot be sent when the picture is saved on a T-Flash card.)




Set as Background: Set the photo as your background screen.


Macro Shot Mode

Set the camera lens on the back of your camera to  to switch to macro shot mode.



2. Video Camera

In idle mode, press , select **Snap**, then select **2. Video Camera**. Set the menu options as desired. Press  to start recording, then again to stop. To save, press  then enter a name.

Press  to access the menu:

Quality: Adjust the video image quality: Small, Normal, Fine.

Brightness: Adjust the image brightness.

Light: Select the lighting conditions: Auto, Cloudy, Daylight, Fluorescent 1, Fluorescent 2, Light Bulb.

Capture Mode: Select the recording mode: Normal, Person, Scene, Person + Scene, Low Light, Dark.

Effect: Select an image effect from None, Negative, Embossing, Black & White, Sketch, Solarize, Sepia, Aqua, Posterize, Warm, Cool, Antique, Moonlight, Fog.

Memory: Save the recorded video in internal or external memory. (Video can be saved in external memory only when a T-Flash card is installed.)




Sound: Specify whether to record sound during video recording.

It may take a while to save a video clip depending on its size.

※ A video clip less than three seconds long cannot be saved.

Previewing Recorded Video

Once you have recorded a video, it will begin to play back so you can preview it.

In the preview screen, press  to pause and resume playback. Press  to adjust the volume. Press  to switch the preview screen mode.




3. Photo Album

The Photo Album displays and allows you to manage pictures stored in internal and external (T-Flash) memory.

In idle mode, press , select **Snap**, then select **3. Photo Album**.

You can save up to 500 photos. However, the number of photos that can be saved may vary depending on the image resolution.

※ A picture can be locked or unlocked. A locked picture can be viewed or manipulated with menu options only after entering the password.

Press  to select a photo. After selecting a photo, press  to view its date, time, resolution, and file size. Press  to switch the viewing mode (the viewing mode can be switched only when the image resolution is 640×480).

Press  to select a menu option:

Send Pic Msg: Send the selected photo in a picture message. (You can only send pictures stored in Internal memory, not External memory.)

Rename: Rename the selected photo.

Delete: Delete the selected photo.

Delete All: Delete all photos saved in the Photo Album.

View External: View pictures saved on a T-Flash card.

Lock: Lock the selected photo. A locked picture can be viewed only after entering the password.

Copy to External: Copy the selected picture to the inserted T-Flash card.


* If you have pictures or videos stored in internal memory and in external memory (T-Flash card), opening the Photo Album or Video Album will default to the pictures and videos stored on the T-Flash card.






4. Video Album

The Video Album allows you to view and manage video clips stored in internal and external (T-Flash) memory.

In idle mode, press , select **Snap**, then select **4. Video Album**.

- * A video clip can be locked or unlocked. A locked clip can be viewed or deleted only after entering the password.
- * You can save and view up to 100 clips. However, the number of clips that can be saved will vary depending on play time.
- * A video clip can be locked or unlocked. A locked clip can be viewed or deleted only after entering the password.

Select a video clip and press  to play it.

During playback, press  to pause. Press  again to continue playback. Press  to switch the viewing mode. Press  to adjust the volume. Press  to select menu options:

Send Pic Msg: Send the selected video clip as a picture message. (You can only send videos stored in Internal memory, not External memory.)

Rename: Rename the selected video clip.

Delete: Delete the selected video clip.

Delete All: Delete all video clips saved in the Video Album.

View External: View video clips saved in external memory.

Lock: Lock the selected video clip. A locked clip can be viewed only after entering the password.


Detail View: Displays the selected clip's date, time, file size, play time, and video and audio bitrates.



Copy to External: Copy the selected video clip to the inserted T-Flash card.


* If you have pictures or videos stored in internal memory and in external memory (T-Flash card), opening the Photo Album or Video Album will default to the pictures and videos stored on the T-Flash card.

5. Settings

Sets camera options.

In idle mode, press , select **Snap**, then select **5. Settings**.

Album Lock: Lock the Photo Album or the Video Album to prevent others from accessing them. Enter your password to access this menu. Select albums to be locked by pressing , then save the settings by pressing .

Shutter Sound: Select a shutter sound. Press  to preview a selected sound.

※ Even if Silent Mode is enabled, the selected shutter sound is still played when you take a photo or video.

Memory Select: Save photos to internal or external memory.

Series Delay Time: Specify the time interval for continuous shooting (0.5sec, 1sec, 3sec, or 5sec).

Call Restriction: Specify whether or not to block incoming calls during video recording. If this option is enabled, you can continue video recording without being interrupted by incoming calls. Calls received during video recording are treated as missed calls and can be viewed in the Recent Calls list after video recording is complete.

6. Memory Info

Display internal and external (T-Flash) memory usage.

In idle mode, press , select **Snap**, then select **6. Memory Info**.

Total: Total internal memory space available

Used: Amount of internal memory used to save pictures, videos, MP3s, applications, and ringtones

Empty: Internal memory space available to save pictures, videos, MP3s, applications, and ringtones

Photo: Internal memory space used to store picture files

Video: Internal memory space used to store video files

Total (E): Storage capacity of the inserted T-flash card

Used (E): External memory space used to save pictures, videos, MP3s, and applications


Empty (E): External memory space available to store pictures, videos, MP3s, and applications







Photo (E): External memory space used to save picture files

Video (E): External memory space used to save video files

► The number of photos or video clips that can be shot depends on resolution and recording time.

Taking Photos with the Device Closed

When your mobile device is closed, press and hold  to open the camera viewfinder.

- Press  to shoot. The picture will be saved automatically.
- Press  to change the resolution, which is displayed at the top right of the display.
- Press  to turn the flash on/off.
- Press   to adjust the brightness.
- Press and hold  again to return to idle mode.





When shooting in dark settings or at night, a dim streak may appear in part of the screen. This occurs only when shooting in a dark space.

■ TEXT


Press  to go directly to the Text menu.

1. New Text Msg

Compose a text message. You can send the same message to up to 20 recipients at a time.

In idle mode, press , select Text, then select 1. New Text Msg. Enter a message, enter recipient's number, then press  to send.

For information on entering message text, see page 35.

While entering a message, press  to save it in the Saved box.

In the Recipient area, press  to search for a phone number:

Contacts: Search for a number in the Contact list.

Call Log: Search for a number in the Recent Calls list.

Groups: Search for a number by group in the Contact list.

※ In a text message, up to 160 Latin characters or 70 Korean characters are allowed in the US. Korean language SMS may not be available in your area. Contact Helio for more information.

2. Text Messages

View and manage text messages that have been sent, received, or saved.

In idle mode, press , select **Text**, then select **2. Text Messages**.

1. New Text Msg

Send a text message. For information on creating and sending a message, see page 62.

2. Inbox

View received messages. Press  to view a message. Press  to send a reply. Press  to select menu options:

Reply: Send a reply to the sender.

Forward: Forward the selected message to a third party.

Delete: Delete the selected message.


Delete All: Delete all messages in the Inbox.

Save Phone Number: Save a sender's phone number. (Select  in the text message window to display this option.)




To Saved: Save the selected message in the Saved box.

To Spam: Flag the selected message as spam. Further messages from the sender will be moved directly to the Spam box. For information on spam settings, see page 68.

※ A new message sound is played upon arrival of a new message.

Messages are displayed in the order they are received. When viewing a message, press  to view the previous/next message. You can save up to 100 messages.

3. Outbox

View sent messages. Select a message and press  to view the message. Press  to edit the message and send it out again. Press  and select from the following options:

Forward: Forward the selected message.

Delete: Delete the selected message.




Delete All: Delete all messages in the Outbox.

To Saved: Save the selected message in the Saved box.

To save sent messages in the Outbox, enable **Message Saving** in the **Send Text** settings under the text messages **Settings** menu (see page 67).

※ Save up to 20 messages in the Outbox.



4. Saved

Stores messages saved from other message boxes or while composing. Select a message and press  to view it. Press  to forward it. Press  to select from the following options:

Forward: Forward the selected message.

Delete: Delete the selected message.

Delete All: Delete all messages in the Saved box.

While viewing a message, press  to send it out again. Press  to select from the following options:



Forward: Forward the selected message.


Resend: Send out the selected message again.

Delete: Delete the selected message.

* Save up to 20 messages in the Saved box.

5. Drafts

If a message cannot be sent or an incoming call is received while creating a message, the message is saved automatically in Drafts. Select a message and press  to view the message. Press  to edit the message and send it out again. Press

 and select from the following options:


Forward: Forward the selected message.

Delete: Delete the selected message.

Delete All: Delete all messages in Drafts.

※ Save up to 20 messages in Drafts.

6. Templates

Save frequently used messages and use them as templates to quickly send out common messages. By default, 10 templates are provided. Press  to select from the following options:

New: Create a new template.

Edit: Change the selected template.

Delete: Delete the selected template.

Delete All: Delete all templates.

※ Up to 20 templates can be saved. The maximum length is 10 Korean characters or 20 Latin characters.

7. Settings

Specify text message settings.

Inbox Settings

Alert Frequency: Sets the alert frequency for new text messages: Off, Once (activated only when the Message View option is enabled), or Every 2min.

Alert Bell Select: Sets the alert sound: Mute, New Message, or Bell 1–4.

Volume: Sets the new message alert volume.

Incoming Alert: Display a new message arrival notification during a call.

Message View: In idle mode, display newly arrived messages automatically.

Send Text Settings



Message Saving: Specify whether to save a message in the Outbox when sending it out. (A message that has not been sent out successfully is saved in Drafts regardless of the Send Text settings.)

Sending Speed: Specify the transmission speed: Normal or Urgent.

8. Spam



Designate unwanted advertisements, phone numbers, or text strings as spam. Messages that come from the designated numbers or contain the designated text strings are automatically classified as spam and moved directly to the Spam box.

Spam Number

Specify a phone number to be blocked. When there are no phone numbers specified, the phone number input window opens automatically. Press  to add, delete, or delete all numbers. Press  to edit a number.

* Save up to 15 phone numbers in the spam list. A valid phone number must have at least 4 digits and can have up to 32 digits.




Spam Text

Specify a word or phrase to be blocked. When there are no text strings specified, the string input window opens automatically. Press  to add, delete, or delete all text strings. Press  to edit a string.

* Save up to 15 strings in the spam list. A valid string must have at least 2 Korean characters or 4 Latin characters, and can have up to 10 alphanumeric characters or symbols.

Spam Box

Up to 10 spam messages can be saved in the Spam box. When more than 10 spam messages are received, the oldest messages are deleted.

In the Spam box, select a message and press  to view its contents. Press  to save it in the Saved box. Press  to select from the following options:

Delete: Delete the selected message.

Delete All: Delete all messages in the Spam box.

Spam Setup


Enable/disable spam protection.



9. Memory Info

Displays the number of messages saved in all message boxes.

3. New Pic Msg

Picture messages can contain video, audio, color text, and pictograms.

In idle mode, press , select **Text**, then select **3. New Pic Msg**. Enter a message and recipient phone number(s), then press .

In the message input window, press  to switch the text input mode. See page 35 for instructions on entering characters. Press  to select from the following options:

Emoticon: Add up to 60 emoticons to your message.

Quick Text: Add a frequently used phrase. Up to 10 common phrases can be saved.

In the Recipient area, press  to select from the following options:

Enter Email: Enter an email address as a recipient.

Search by Group: Search for a number by group in the Contact list.

Contacts: Search for a number in the Contact list.

*A message can be sent to up to five people at a time.

A message is saved in the Outbox when it has been sent successfully, or in Drafts when it has not.

Backgrounds

Navigate to the top of the message and select **Backgrounds** in the upper left of the message input window to choose from various backgrounds.

Image Background: Set an image as the message background.

Photo Background: Set a photo as the message background.


Color Background: Set a color as the message background.

No Background: Don't use a background.



Font Color



Navigate to the top of the message and select **Font Color** in the upper left of the message input window to set the font color used in a message.

File Attachment (Add)

Move the cursor to the **Add** box and press  to attach a media file or delete the selected media file from the message:

Add Photo: Attach a photo to the message. In the list of photos, press  to preview a photo or  to delete or rename it.

Add Music: Attach a music file to the message. In the list of music files, press  to listen to a file or  to delete or rename it.

Add Video Rec: Attach a video recording to the message. In the list of video recordings, press  to preview a recording or  to delete or rename it.

Delete Media: Delete an attached file or all attached files from the message.

Press  to preview the message.

※ You can attach up to three pictures, one music file, or one video recording. All attachments together cannot exceed 950 kbytes.

4. Pic Messages

View and manage picture messages that have been sent, received, or saved.

In idle mode, press , select **Text**, then select **4. Pic Messages**.

1. New Pic Msg




Send a picture message. For information on creating and sending picture messages, see page 70.

2. Inbox

View received messages.

※ When a new message arrives, a notification sound is generated.

1. Received Msg

Holds received messages. Select a message and press  to view its contents. Press  to delete it. Press  to select from the following options:




Reply: Send a reply to the sender.

Details: Display the time the message was received and the sender's phone number.

Forward: Forward the message (purchasable content should be purchased through the Helio Store before being sent).

Save Message: Save the selected message in Saved.

Delete All: Delete all messages.


While viewing a message, press  to play or stop content. Press  to send a reply. Press  to select from the following options:

Delete: Delete the message.




Details: Display the time the message was received and the sender's phone number.

Forward: Forward the message (purchasable content should be purchased through the Helio Store before being sent).

Save Message: Save the message in Saved.

Messages are displayed in the order they are received. When viewing a message, press  to view the previous/next message. The number of messages that can be saved depends on the size of the message attachments.

2. Saved




Holds saved picture messages from the Inbox. In Saved, select a message and press  to view its contents. Press  to delete it. Press  to select from the following options:

Reply: Send a reply to the sender.

Details: Display the time the message was received and the sender's phone number.

Forward: Forward the message (purchasable content should be purchased through the Helio Store before being sent).

Delete All: Delete all messages in Saved.



While viewing a message, press  to play or stop content. Press  to send a reply. Press  to select from the following options:

Delete: Delete the message.

Details: Display the time the message was received and the sender's phone number.




Forward: Forward the message (purchasable content should be purchased through the Helio Store before being sent).

3. Spam Msg

When a message marked as spam arrives, it is automatically classified as spam and saved in Spam Msg. In the Spam Msg list, select a message to view and press  to view its contents or  to delete it.

3. Outbox

1. Sent Msg



Holds messages that have been sent. Select a message and press  to view its contents. Press  to delete it. Press  to select from the following options:

Edit/Send: Send the message again.

Recipient: View the time the selected message was sent and the recipient's number.

Save Message: Save the selected message in Saved.

Delete All: Delete all messages.

While viewing a message, press  to send it again. Press  to select from the following options:




Delete: Delete the message.

Recipient: View the time the message was sent and the recipient's number.

Save: Save the message in Saved.



※ Up to 20 messages can be saved in Sent Msg. The number of messages that can be saved depends on the size of the message attachments.

2. Saved




Holds sent messages that have been saved. Select a message and press  to view its contents. Press  to delete it. Press  to select from the following options:

Create/Send: Send the message again.

Delete All: Delete all messages.

While viewing a message, press  to delete the message or  to send it again.

4. Drafts


A message that has not been sent successfully or has been interrupted by a call is automatically saved in Drafts. Select a message and press  to edit its contents and send it out again (see page 70 for instructions on composing a picture message). Press  to delete a selected message. Press  to delete all messages.

※ Up to 20 messages can be saved in Drafts. The number of messages that can be saved depends on the size of the message attachments.

5. Media

View and manage pictures, music, or videos.

1. Photos

View saved photos. Press  to select from the following options:

Send: Send a message with the selected photo attached to it.

Set as Wallpaper: Set the selected photo as a background image.


Rename: Rename the selected photo.

Delete: Delete the selected photo.

Hide/Release: Lock/unlock the selected photo.

Delete All: Delete all saved photos.

2. Music

View saved music. Press  to select from the following options:

Send: Send a message with the selected music file attached to it.

Record: Record a new audio file.

Rename: Rename the selected music file.

Delete: Delete the selected music file.

Delete All: Delete all saved music.

3. Movies

View saved video recordings. Press  to select from the following options:

Send: Send a message with the selected video recording attached to it.


Set as Wallpaper: Set the selected video recording as the background image.

Rename: Rename the selected video recording.

Delete: Delete the selected video recording.

Hide/Release: Lock/unlock the selected video recording.

Delete All: Delete all saved video recordings.

During playback, press  to pause and resume playback.

6. Settings

Specify the default message background, font color, arrival notification alert settings, spam settings, photo size, and auto save options.

1. Background

Specify the default message background to be used when creating a picture message. Select Image Background, Picture Background, Color Background, or No Background.

2. Font Color

Specify the default font color to be used when creating a picture message.

3. Msg Rcv Alert

Alarm Settings: Set the alarm frequency: Mute, 1 Time (activated only when the Message View option is enabled), or Every 2min.

Alert Type: Set the alarm sound: New Message or Sound 1–4.

Alert Volume: Adjust the alarm volume.

4. Spam Filter

Use this setting to designate phone numbers as sources of spam. Messages that come from a designated number are automatically classified as spam and moved directly to the Spam Msg box in the Inbox. When a spam message arrives, an arrival notification is not generated.

Block Number

Specify a phone number to be blocked. Press  to select from the following options

Protection Off: Removes the selected number from the list.

Add Number: Adds a new number to the list.

Delete All: Deletes all numbers in the list.

※ Up to 15 phone numbers can be saved in the spam list. A valid phone number must have at least 4 digits and can have up to 32 digits.

Spam Setting

Enable/disable spam protection.

5. Photo Size

Specify the size of pictures sent out from your mobile device:

Reduced Size: Reduces the resolution of photos attached to picture messages to 640×480 to reduce message size.


Original Size: Leaves attached photos at their original resolution.

6. Msg Auto Save

Save sent messages automatically to the Sent Msg box in the Outbox.


5. Email

Send and receive an email via your mobile device. Directs you to the Helio web email interface.


In idle mode, press , select **Text**, then select **5. Email**.

6. Voice Mail


Check your voice mail.

In idle mode, press , select **Text**, then select **6. Voice Mail**.

1. Call Voice Mail

Connect to your voice mail box. Alternatively, call your mobile number in idle mode or press and hold  to connect to your voice mail box.



While roaming with another service provider, you may not receive new voice mail. When roaming, the  icon is displayed at the top of the screen.


2. Clear Envelope

When the voice mail icon is displayed, no notification is generated, even if a new voice mail is received. Because the voice mail icon disappears only when all messages in the voice mail box are deleted, you need to clear the voice mail icon to receive a new mail notification when you have checked but not deleted voice mails. The notification sound is the same as when a general text message is received and switches to vibration when in Silent Mode.

CONTACT

1. New Contact

Add a new contact to the contact list. Up to 1,200 contacts can be stored.

In idle mode, press , select **Contact**, then select **1. New Contact**. Enter the contact info and press .

The item types are limited as follows:



Name: 9 Korean characters or 18 Latin characters


Phone Number: 32 digits

Email Address: 66 alphanumeric characters

Memo: 40 Korean characters or 80 Latin characters

You can take a photo and use it as a contact's image (see page 51 for instructions on taking a picture). When a call is received from a number stored in your contact list that has an associated image, the image is displayed on the screen along with the caller's name and number.


To attach an image, enter the first and family names, then press . When the picture window is displayed, press  and insert the desired image.

When adding a phone number, you can assign a speed dial number to it by pressing  (see page 87 for information on speed dialing). The assigned speed dial number is recorded next to the item.


► See page 89 for instructions on synchronizing the address book with your MyHelio.com webmail address book.

2. Contact List


Browse and search your contact list.

In idle mode, press , select **Contact**, then select **2. Contact List**. Enter a name to search for.

OR

From the standby screen, press .

Search for a contact by entering the desired name letter by letter until the contact appears.

Select a contact and press  to select from the following options:


Send Message: Sends a text message to the selected contact.

Send Pic Msg: Sends a picture message to the selected contact.

Edit: Opens the selected contact for editing.

Add New Contact: Adds a new contact to the list.


Delete: Deletes the selected contact.

Press  to view information on the selected contact.

3. Groups

View the contacts saved in a group, and create or manage groups. You can have up to 30 groups.

In idle mode, press , select **Contact**, then select **3. Groups**. Select the desired group and press  to view the list of phone numbers saved in the group.

In the list of groups, press  to select from the following options:

Edit: Edit group options for the selected group—specify a ringtone.

Add: Add a new group.

Delete: Delete the selected group.




Reset Group: Move all contacts in the selected group to the Other group and delete the group (if it isn't a default group).


There are five default groups: Other, Family, Friend, School, and Office. You can edit a default group but cannot delete it. The group Other cannot be renamed or deleted; only its ringtone can be changed.

If a group is not specified when adding a new contact, the contact is saved in the Other group.

4. Speed Dials

Assign speed dial numbers to saved phone numbers for easy access. 98 speed dial numbers are available (2–99).

In idle mode, press , select Contact, then select 4. Speed Dials. Select the desired speed dial number and press . Enter a number from you contact list and press .

A speed dial number can be assigned to a phone number in the contact list only. In the number input window, press  with no numbers entered to view the entire contact list.



Press  to replace the number assigned to the selected speed dial slot.




Speed dial slot 1 is reserved for voice mail.

5. Call Log

View the list of Missed calls, Outgoing calls, Incoming calls, and All calls. (Up to 30 calls can be saved in each category.)

In idle mode, press , select Contact, then select 5. Call Log. Select the desired call log and press .

In the phone number list, press  to select from the following options:

Delete: Delete the selected entry.

Save: Add the selected entry to the contact list.

Send Message: Send a message to the selected entry.

Delete All: Delete all entries from the list.

6. Sync Contacts

Synchronize your mobile device's contact list with your MyHelio.com webmail address book. You can also use the USB cable to synchronize contact information with a PC. Visit **Helio.com/support** for more details.


In idle mode, press , select **Contact**, then select **6. Sync Contacts**.

Sync Contacts: Perform the synchronization.

Preview Sync: Review what contacts are to be changed on your mobile device and in your MyHelio.com address book.


Username/Password: Enter your MyHelio.com username and password. You must do this before synchronizing.



Help: View a help message regarding contact synchronization.

When setting your MyHelio.com username and password, press  to switch the text input mode. For the username, enter the portion of your MyHelio.com email address before the '@' symbol.

7. Emergency Number

Save up to three numbers to be called in emergency situations.

In idle mode, press , select **Contact**, then select **7. Emergency Number**.

You can call 911 or any of the three emergency numbers even when the device is locked. When the device is locked, press  in idle mode to dial an emergency number. Select the desired number and press  to dial.


8. My Number

View your mobile number.

In idle mode, press , select **Contact**, then select **8. My Number**.

9. Service Number

Connect to Information or Helio Customer Care.

In idle mode, press , select Contact, then select 9. Service Number. Select the desired number to dial.

Information: Connect to the Helio information operator (411).

Customer Care: Connect to the Helio customer service center (when the language is set to English, dial 611; when it is set to Korean, dial *116).

*. Phone Info

View contact list usage information.


In idle mode, press , select **Contact**, then select ***. Phone Info**.

■ APPS




Access your downloaded games and applications. You can also specify settings for applications such as Helio On Top (H.O.T.)

In idle mode, press , then select **Apps**.

OR

In idle mode, press .

To set the Helio On Top (H.O.T.) application as your topmost application:



1. In idle mode, press , select **Style**, then select **7. H.O.T. Screens**.
2. Press  as needed to highlight the H.O.T. application.
3. Press , select **Turn On H.O.T.**
4. Press OK three times.
5. Close and re-open the flip. The H.O.T. application is now running and will remain available even after temporarily exiting H.O.T. to use other features of the device (such as making a call or using the camera).


■ PLAN

1. Calendar

Set an alarm and message for a specified date and time for appointments and anniversaries.

In idle mode, press , select **Plan**, then select **1. Calendar**.

In the monthly view, select a date and press  to switch to the daily view. Press  to switch back to the monthly view.


In the monthly view, press  to select from the following options:

New Event: Add an event on the selected day.

Event List: Display a list of events on the selected day.

Alert Event: Set alarm options.

Search Day: Jump to a specific date.

In the daily view, press  to select from the following options:



New Event: Add a new event.

New Anniversary: Add a new anniversary.

Delete: Delete the selected event/anniversary.



Delete All: Delete all events/anniversaries on the selected date.

Scheduling Events

In the monthly view, select the desired date. In the daily view, press  and select **New Event**. Select a frequency, then enter the event details and press .

► Enter up to 16 Korean characters or 33 Latin characters for the memo. Up to 60 events and anniversaries can be saved.


Scheduling Anniversaries



In the monthly view, select the desired date. In the daily view, press  and select **New Anniversary**. Enter the event details and press .


► Enter up to 16 Korean characters or 33 Latin characters for the memo. Up to 60 events and anniversaries can be saved.

2. Alarm

Set one-time or repeating alarms.

In idle mode, press , select **Plan**, then select **2. Alarm**.



When there are alarms set, select an alarm and press  to edit it. When there are no alarms set, press  to add a new alarm. Select a time option: Assign Time, 10min Later, 30min Later, or 1hr Later. Selecting **Assign Time** allows you to set a specific date and time for the alarm as well as repeat and ring options. The saved alarm rings for about 50 seconds at the specified time.

Press  to select from the following options:

Add: Add an alarm.

Delete: Delete the selected alarm.

Delete All: Delete all alarms.

When the device is in Silent Mode and an alarm occurs, the device does not ring, but an icon flashes and the device vibrates. To stop an alarm, open the flip and press  or .

3. World Time

View local time for 29 cities around the world.


In idle mode, press , select **Plan**, then select **3. World Time**. Use  to navigate through the time zones.










► Your device compensates for Daylight Savings Time.

4. Calculator

Carry out mathematical operations on numbers of up to 32 digits.

In idle mode, press , select **Plan**, then select **4. Calculator**.

Press  to delete entered characters (or return to the menu if there are no characters entered).


Operations	 : +	 : -
	 : ×	 : ÷  : =
	Trigonometric functions (sin, cos, tan, log, ln, exp)	
	Decimal Point	
	Open Parenthesis: (
	Close Parenthesis:)	



5. Voice Recorder

Record voice memos or calls.

In idle mode, press , select Plan, then select 5. Voice Recorder.

OR





In idle mode, press .

If there are no stored voice memos, your device will ask if you wish to record one. Press  to do so. When finished recording, press  again. The following options will appear:

Review: Play back the memo for review.

Re-record: Record the memo again.

Save: Save the memo.

If there are stored voice memos, select one and press  to play it back. Press  to pause and resume playback. Press  to stop and start playback. When the memo is stopped, press  to delete the recording.

From the voice memo list, press  to select from the following options:

Add Voice Memo: Record a new memo.

Voice Info: Display the date, time, and length of the selected memo.


Delete: Erase the selected memo.

Delete All: Erase all voice memos.

※ Up to 30 voice memos can be recorded and stored. The maximum allowed length depends on available memory space.

6. Notepad

Store short text memos for quick recall.

In idle mode, press , select **Plan**, then select **6. Notepad**.

When there are no memos saved, press  to add a new memo. Press  to select from the following options:

Add Notepad: Add a memo.

Delete Notepad: Erase the selected memo.

Delete All: Erase all memos.

※ Save up to 20 memos, each of up to 100 Korean characters or 200 Latin characters.



7. Memory Info

View information about the size and contents of internal and external memory.

In idle mode, press , select **Plan**, then select **7. Memory Info**.

1. Internal


View information about the device's internal memory.

2. T-Flash

View information about the inserted T-Flash card.

■ VIDEO+MUSIC


Play downloaded music and video. Connect to the Helio Store to download video and music video content.

In idle mode, press  to access Video+Music directly.

1. Video + Music


Display and play back your downloaded music and video.

No sound will be played when your device is in Silent Mode. Press and hold  to enable/disable Silent Mode.

In idle mode, press , select **Video+Music**, then select **1. Video + Music**.




All Files

View all downloaded music and video on the device.

Press  to display the menu:

Messaging: Send and receive text messages. See page 62 for details.

Delete All: Erase all stored music and video.

Press  to select files from the list for playback. Press  to begin playback. Press  to deselect unwanted files and return to the menu.

After selecting content from a list, press  to navigate through the menu options:

Delete: Erase selected files.

Add to Playlist: Add files to a playlist.


Change Play Order: Re-order selected files.

Content Properties

Rename: Change titles of selected content.

Lock/Unlock: Protect/unprotect selected content. Protected content cannot be erased. Protected content is marked by an icon next to the file.

Delete: Erase selected content.

Content Info: View the content's title, copyright information, erasure protection status, playback length, content cookies, bitrate, available period, available playback frequency, and audio information. From the content's information screen, press  to change title, protect, unprotect, or delete files.

View By: The contents in All Files can be sorted by artist, genre, or album.

Messaging: Send and receive text messages. See page 62 for details.




Delete All: Erase all stored music and video.

Recent

View a list of the most recently played content.

Press  to display the menu:

Messaging: Send and receive text messages. See page 62 for details.

Press  to select files from the list for playback. Press  to begin playback. Press  to deselect unwanted files and return to the menu.

After selecting content from a list, press  to navigate through the menu options:



Add to Playlist: Add files to a playlist.


Change Play Order: Re-order selected files.

Messaging: Send and receive text messages. See page 62 for details.

Playlists


Display saved playlists and play content by playlist.

To play selected content, press the  key to select the content items and then press .

When there are no playlists, press  to select from the following menu options:

New Playlist: Add a new playlist.

Messaging: Send and receive text messages. See page 62 for details.


When there are playlists, select one from the list and press  to select from the following menu options:

New Playlist: Add a new playlist.


Delete Playlist: Delete the selected playlist. Although the playlist is deleted, the content items in the playlist are not deleted but can be viewed in All Files.

Rename Playlist: Rename the selected playlist.

Messaging: Send and receive text messages. See page 62 for details.

After accessing a playlist, press  to deselect content and return to the menu:

Messaging: Send and receive text messages. See page 62 for details.








Select content from the selected playlist and press  to select from the following menu options:

Change Play Order: Re-order selected content.


Delete: Delete the selected content items from the playlist. Deleted contents can be found in All Files.



Messaging: Send and receive text messages. See page 62 for details.


Playing Content

	Play/pause	 	Volume control
	Up: Play next track Down: Press once to return to the beginning of the current track, then again to return to previous tracks		Menu
	Left: Fast reverses two seconds when pressed briefly; fast reverses continuously when held down Right: Fast forwards two seconds when pressed briefly; fast forwards continuously when held down		Return to a recently played track

During playback, press  to select from the following menu options:

Enlarged View/Original View: Play in Enlarged View (full-screen) mode or Original View. When in Enlarged View mode, press  to switch the display size during playback.

Playback Settings: Set playback options: Repeat, Shuffle, Play While Closed, or Backlight On During Playback. Press , then select with .

Loop Segment: Loop the current track; to cancel, press .

Messaging: Send and receive text and picture messages.













Streaming or downloading content will continue to play even if the flip is closed (with "Play while Closed" mode enabled). Helio's service includes the pre-downloading/pre-viewing of content to allow continuous playback regardless of whether the flip is open or closed. However, if the content is not accessed via Helio's service, playback will cease upon closure of the flip.

Playing Content with the Flip Closed

(Disabled when the device is locked)

With the flip closed, press and hold  to view downloaded music and video.

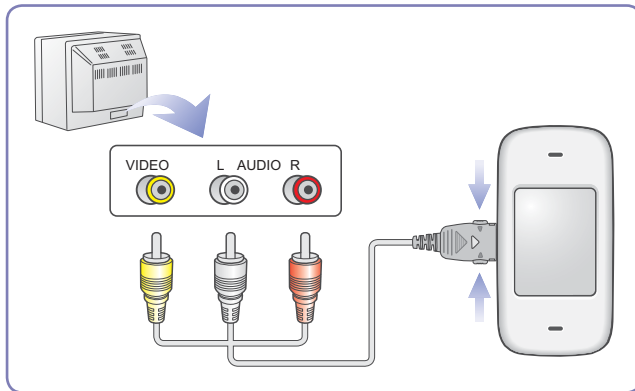
- Press   to go through the lists (Recently, All Files, Playlists).
- Press  to play everything from the selected lists. Use the same function to Play/Temporarily Pause content.
- Press  to stop playback; content will be added to the recently played list.
- Press  to adjust the volume.
- During playback, briefly press  to seek ahead two seconds; press and hold   to fast forward.
- During playback, briefly press  to go back two seconds; press and hold  to fast reverse.



With the flip closed, if the selected content is transferred during playback, the random playback, ordered playback, and music selection functions cannot be used.

Connecting to a TV

You can use the optional TV Cable to connect your mobile device to a TV. You can view video content stored in the device and downloaded from Helio on the connected TV.




1. Connect the yellow, white, and red connectors of the TV Cable to their TV input counterparts.
2. Once the device is connected to the TV, its LCD is turned off and the TV becomes the display.
3. Press the two buttons on the side of the TV Cable to remove from the device.




2. Download Video

Download video content from the Helio Store.

In idle mode, press , select **Video+Music**, then select **2. Download Video**.

3. Download Music

Download music content from the Helio Store.

In idle mode, press , select **Video+Music**, then select **3. Download Music**.

4. Memory Info

View information about saved content in internal and external memory.

In idle mode, press , select **Video+Music**, then select **4. Memory Info**.

1. Internal

View information about the device's internal memory.

2. T-Flash

View information about the inserted T-Flash card.



■ SETUP


1. Sound

1. Rings

Select your ringtone.

In idle mode, press , select **Setup**, select **1. Sound**, then select **1. Rings**. Select your ringtone.

2. Vibrate

In idle mode, press , select **Setup**, select **1. Sound**, then select **2. Vibrate**.

Select incoming call ring options.

Vibrate Off: Incoming calls will ring.


Vibrate On: Incoming calls will ring and vibrate.

Vibrate Only: Incoming calls will vibrate only.

Vibrate Then Ring: Incoming calls will vibrate then ring after a short period.



3. Volume

In idle mode, press , select **Setup**, select **1. Sound**, then select **3. Volume**.

Adjust the volume of device sounds.

Ring Volume: Adjust the incoming call ring volume.


Receiver Volume: Adjust the speaker volume during calls.

Keypad Volume: Adjust the keypad volume.

Flip Volume: Adjust the volume of the flip sound.

Alert Volume: Adjust the alert volume.

4. Sound Effects

In idle mode, press , select **Setup**, select **1. Sound**, then select **4. Sound Effects**.

Keypad Sound: Set the tone played when a key is depressed.

Flip Sound: Set the sound played when the flip is opened or closed.

Every Hour Alert: Set a sound to play every hour.

System Confirmation: Set the sound played for confirmation messages.


Alert Sound: Set the sound that plays when message transmission fails or the device is out of the service area.

Call Connect Alert: Set the sound that plays when a call connects.

Call Disconnect Alert: Set the sound that plays when call is disconnected.

5. Missed Call Alert


Generates an alert when a call is missed.

In idle mode, press , select **Setup**, select **1. Sound**, then select **5. Missed Call Alert**.

Set the alert frequency: Every 2min, Once, or Off.

6. TTY Mode

Place calls using a TTY device.

In idle mode, press , select **Setup**, select **1. Sound**, then select **6. TTY Mode**.

To use TTY, connect a TTY device to the power connector and enable the TTY setting.




TTY is a system designed to help a hearing impaired person communicate. If TTY mode is enabled, it may degrade the performance of any headset or accessory that does not support TTY.

2. Display

1. Screens

Set your screen.

In idle mode, press , select **Setup**, select **2. Display**, then select **1.Screens**.

Screens: Use a downloaded image.

Video Screens: Use a downloaded VideoScreen.


Photos: Use a stored photo.

Video Recordings: Use a stored video recording.

Freebies: Use a default screen.

2. Call Screens

Set you screen for incoming calls.

In idle mode, press , select **Setup**, select **2. Display**, then select **2. Call Screens**.


Screens: Use a downloaded VideoScreen.

Photos: Use a stored photo.

Freebies: Use a default screen.

3. H.O.T. Screens

Select a H.O.T. screen.

In idle mode, press , select **Setup**, select **2. Display**, then select **3. H.O.T. Screens**.

4. Clock & Calendar

Display the date and time on the idle screen.


In idle mode, press , select **Setup**, select **2. Display**, then select **4. Clock & Calendar**.

Clock Type: Use either a digital or an analog clock.

Calendar Type: Turn the calendar on/off.

5. Banner

Display a banner on the idle screen.

In idle mode, press , select **Setup**, select **2. Display**, then select **5. Banner**.

Banner: Turn the banner on/off and set it's text.


Banner Location: Set the banner's location on the screen.

Font Color: Set the banner's font color.

Background Color: Set the banner's background color.

6. Fonts


Set the font used for all text on your mobile device.

In idle mode, press , select **Setup**, select **2. Display**, then select **6. Fonts**.

The following fonts are available: Herb, Blueberry, and Red Wine.

7. Backlighting

Set backlight options.

In idle mode, press , select **Setup**, select **2. Display**, then select **7. Backlighting**.

Backlight Mode: Set the backlight mode: Default, Power-Saving, or User. The rest of the options are only available when User is selected.

Backlight: Set the duration and brightness of the backlight. Time: 5sec, 10sec, 20sec, 30sec, or 1min. Brightness: Normal, Lighter, or Dark.


Backlight When Closed: Set the backlight duration when the flip is closed: 5sec, 10sec, 20sec, 30sec, or 1min.

Keypad Light Time: Set the keypad light duration: 5sec, 10sec, 20sec, 30sec, or 1min.

3. Call

1. Answering Options


Set how you answer calls on your device.


In idle mode, press , select **Setup**, select **3. Call**, then select **1. Answering Options**.

Flip Open: Answer an incoming call by opening the flip. When the flip is open, press the  button to answer a call.

Flip Open & Any Key: When the flip is open, use any button other than , , or  to answer an incoming call.




When the flip is closed and a call is in progress, press and hold  to mute.

When the flip is open and a call is in progress, press  to mute.

2. Show My ID


Turn Caller ID on/off to display/hide your number on the other party's device.

In idle mode, press , select **Setup**, select **3. Call**, then select **2. Show My ID**.

On: Enable Caller ID. To hide your number when this is enabled, dial *67 before the other party's number.

Off: Disable Caller ID. The other party's device displays "Caller's Number Restricted".

4. Network

In idle mode, press , select **Setup**, then select **4. Network**.

Receive Mode

Select the network receive mode: Voice, Data, or Fax.

Comm Port

Select USB to use the USB Cable, or UART to use a serial cable.

Select "DS:USB DM:UART" to use PS Sync.

※ "DS:UART DM:USB" and PS Sync will no longer be available.

Comm Speed

Set the connection speed used for the serial port: 19,200, 115,200, 230,400, or Fax Only. The maximum speed when connected to a computer is 115,200 under normal circumstances.

Go to **Helio.com/support** for more detailed information.

Connection

Select the network connection speed: EV-DO or 1X Only.

What is 1x Only?


CDMA2000 1x mode allows calls and data transfers.



What is EV-DO Mode?

CDMA2000 1x Mode is used for voice calls; for data transfers to services such as Helio Online, the CDMA2000 1x EV-DO mode can support a maximum speed of 2.4Mbps—16 times faster than CDMA2000 1x Mode.

5. Device

In idle mode, press , select **Setup**, then select **5. Device**.

1. My Number

Display your mobile number.

2. Reset

Reset device settings.

In idle mode, press , select **Setup**, select **5. Device**, then select **2. Reset**. Enter your password, then select the settings to be reset.


Default Settings: Reset or initialize the device to factory defaults, but keep all files and content.

Factory Settings: Reset or initialize the device to factory defaults, and delete all files and content.

Delete Contacts: Delete all entries in the contact list.


► After each initialization, the device's memory capacity may decrease slightly.

6. Security

In idle mode, press , select **Setup**, then select **5. Device**.


1. Set Password

Set your password. The default password is '0000'.

In idle mode, press , select **Setup**, select **6. Security**, then select **1. Set Password**. Enter the current password, then enter and confirm the new password.

2. Password Hint

Set a password hint. The password hint will display whenever your device asks for your password.

In idle mode, press , select **Setup**, select **6.Security**, then select **2. Password Hint**. Enter your password, then enter a password hint.

For further details about entering text, refer to page 35.

3. Lock

Lock device functions to prevent use. You must enter your password to use locked functions.

In idle mode, press , select **Setup**, select **6. Security**, then select **3. Lock**. Enter your password.

Phone Lock: Lock the device.

Call Blocking: Lock outgoing calls.

Helio Lock: Lock access to Helio services.

Call Log Lock: Lock the call log.


Contacts Lock: Lock the contacts list.

Message Lock: Lock access to text and picture messages.

Int'l Calling Lock: Lock international calls.

7. Language

Select the language for device menus: English or Korean.

In idle mode, press , select **Setup**, then select **8. Language**. Select the desired language.

8. Phone Info

Display the mobile number, hardware version, software version, date and time of first use, and serial number for your device.

In idle mode, press , select **Setup**, then select **9. Phone Info**.



9. Memory Info

View the contents of internal and external (T-Flash) memory.

In idle mode, press , select **Setup**, then select **9. Memory Info**.

1. Internal

View information on the device's internal memory.

2.T-Flash

View information on the inserted T-Flash card.

Safety Information

- Device Password
- TIA Safety Information
- FDA Consumer Update
- FCC RF Exposure Information
- FCC Hearing Aid Compatibility Regulations for Wireless Devices

KICKFLIP



■ Device Password

The device password helps protect your device against unauthorized use. It is used for unlocking the keys, deleting all contact list entries, restoring factory settings, and locking or unlocking the phone. If the Device Lock feature is enabled, you must enter the password each time you turn the device on.

The default password is '0000'.

■ TIA Safety Information

Provided herein is the complete TIA Safety Information for Wireless Handheld phones. Inclusion of the text covering Pacemakers, Hearing Aids, and Other Medical Devices is required in the owner's manual for CTIA Certification. Use of the remaining TIA language is encouraged when appropriate.

Exposure to Radio Frequency Signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.


In August, 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992)*

NCRP Report 86 (1986)

ICNIRP (1996)

*American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection



Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your device complies with the FCC guidelines (and those standards).

Device Position

Normal Position : Hold the device as you would any other telephone with the antenna pointed up and over your shoulder.

Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your device while driving, please :

- Give full attention to driving—driving safely is your first responsibility
- Use hands-free operation, if available
- Pull off the road and park before making or answering a call if driving conditions so require.

Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless device.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers :

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON.
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.



Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

You should also consult the manufacturer of any equipment that has been added to your vehicle.

For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area.

If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

Aircraft

FCC regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a “blasting area” or in areas posted: “Turn off two-way radio”. Obey all signs and instructions.

Potentially Explosive Atmospheres

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

■ FDA Consumer Update

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode.

Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:


- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones



that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

What kinds of phones are the subject of this update?

The term “wireless phone” refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user’s head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person’s RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC’s compliance limits.

What are the results of the research done already?


The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research

methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and



the time tumors develop—if they do—may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.


How can I find out how much radio frequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radio frequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and other federal health and safety agencies. The FCC limit for exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissue that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

What has FDA done to measure the radio frequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radio frequency energy (RF) exposure from wireless phones and other wireless hand sets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices : Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency



of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guideline.

What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

* If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and


teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that that no interference occurs when a person uses a “compatible” phone



and a “compatible” hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Where can I find additional information?

For additional information, please refer to the following resources:

FDA web page on wireless phones

[\(<http://www.fda.gov/cdrh/phones/index.html>\)](http://www.fda.gov/cdrh/phones/index.html)

Federal Communications Commission FCC RF Safety Program (<http://www.fda.gov/oet/rfsafety>)

International Commission on Non-Ionizing Radiation Protection (<http://www.icnirp.de>)

World Health Organization (WHO) International EMF Project (<http://www.who.int/emf>)


National Radiological Protection Board (UK) (<http://www.nrpb.org.uk>)

■ FCC RF Exposure Information

Read this information before using your mobile device.

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.



In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this device complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damaged the device, or result in violation of FCC regulations.

Do not use the device with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-Worn Operation

This device has been tested for body-worn operation and meets FCC RF exposure guidelines, and positions the handset at a minimum of 3/4 inch(2centimeters) from the body. Use of any body-worn accessories may not compliance with FCC RF exposure guidelines.

For more information about RF exposure, please visit the FCC website at www.fcc.gov

Specific Absorption Rate (SAR) for Wireless Devices

The SAR is a value that corresponds to the relative amount of RF energy absorbed in the head of a user for a wireless

handset. The SAR value of a device is the result of an extensive testing, measuring and calculation process. It does not represent how much RF the device emits. All device models are tested at their highest value in strict laboratory settings. But when in operation, the SAR of a device can be substantially less than the level reported to the FCC. This is because of a variety of factors including its proximity to a base station antenna, device design and other factors. What is important to remember is that each device meets strict federal guidelines. Variations in SAR's do not represent a variation in safety. All devices must meet the federal standard, which incorporates a substantial margin of safety. As stated above, variations in SAR values between different model devices do not mean variations in safety. SAR values at or below the federal standard of 1.6W/kg are considered safe for use by the public.

The highest reported SAR values of VK650C are:

CDMA Head SAR: 0.427mW/g, CDMA Body SAR: 0.427mW/g

PCS Head SAR: 0.864mW/g, PCS Body SAR: 0.538mW/g

FCC Radio Frequency Emission

This device meets the FCC Radio Frequency Emission Guidelines. FCC ID number: SBWVK650C

More information on the device's SAR can be found from the following FCC website: <http://www.fcc.gov/oet/fccid>

FCC Part 15 Class B Compliance

This device and its accessories comply with part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device and its accessories may not cause harmful interference, and (2) this device and its accessories must accept any interference received, including interference that may cause undesired operation.

■ FCC Hearing Aid Compatibility (HAC) Regulations for Wireless Devices

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

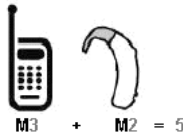
While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.



In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This should provide the hearing aid user with “normal usage” while using their hearing aid with the particular wireless phone. “Normal usage” in this context is defined as a signal quality that is acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT

marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

For information about hearing aids and digital wireless phones

FCC Hearing Aid Compatibility and Volume Control

<http://www.fcc.gov/cgb/dro/hearing.html>

Gallaudet University, RERC

<http://tap.gallaudet.edu/DigWireless.KS/DigWireless.htm>

Self Help for Hard of Hearing People Inc.[SHHH]

www.hearingloss.org/hat/TipsWirelessPhones.htm

The Hearing Aid Compatibility FCC Order

http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-168A1.pdf

■ Limited Warranty


VK MOBILE INC. ("VK MOBILE") warrants that this cellular phone ("Product") is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

1. The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.
2. The limited warranty extends only to the original purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end-user.
3. The limited warranty extends only to Consumers who purchase the Product in the United States of America.
4. During the limited warranty period, VK MOBILE will repair, or replace, at VK MOBILE's sole option, any defective parts, or any parts that will not properly operate for their intended use, with new or refurbished replacement items, if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. VK MOBILE will also pay for the labor charges incurred by VK MOBILE in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. VK MOBILE's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the

price paid by the Consumer for the Product less a reasonable amount for usage. VK MOBILE shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.

5. Upon request from VK MOBILE, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.
6. The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:
 - a. The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts that are not the fault of VK MOBILE, including damage caused by shipping
 - b. The Product has been damaged from external causes such as collision with an object; from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions; an Act of God; battery leakage, theft, blown fuse, or improper use of any electrical source; damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by VK MOBILE.
 - c. VK MOBILE was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.

- d. The Product serial number plate or the enhancement data code has been removed, defaced, or altered.
 - e. The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.
7. VK MOBILE does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:
- a. Should your Product need warranty service within the first 30 days of purchase, return it to the dealer/retailer from whom it was purchased. If purchased directly from Helio, contact Helio at 1.800.505.3565 or visit www.helio.com. Should the Product need warranty service between 31-365 days of purchase, contact Helio at 1.800.505.3565 or visit www.helio.com.
 - b. The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase, and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.
 - c. The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.
 - d. If you prearrange a repair with us, VK MOBILE will repair the Product under the limited warranty within 30 days after receipt of the Product.

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- e. If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, VK MOBILE's normal service policies shall apply and the Consumer will be responsible for all shipping charges.
8. You (the Consumer) understand that the product may consist of refurbished equipment that contains used components, some of which have been reprocessed. The used components comply with Product performance and reliability specifications.
9. ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. VK MOBILE SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE

THEORY, EVEN IF VK MOBILE KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. VK MOBILE SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

10. Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.
11. VK MOBILE neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.
12. This is the entire warranty between VK MOBILE and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.
13. This limited warranty allocates the risk of failure of the Product between the Consumer and VK MOBILE. The allocation is recognized by the Consumer and is reflected in the purchase price.
14. Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.



VK650C Kick Flip CD KA/A

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