

User Guide

A decorative orange line graphic that starts from the left, curves upwards and then downwards, crossing itself, and ending with a small orange dot. The line is smooth and fluid.

PANTECH P9090

Thank you for choosing the Pantech P9090, our latest smartphone. The Pantech P9090 has many features designed to enhance your mobile experience. With its unique, stylish design you will enjoy the entire phone experience.

This User Guide contains important and useful information that will maximize your familiarity with all that the Pantech phone has to offer.

Some of the contents in this manual may differ from your phone depending on the software of the phone. Actual color may vary.

Your phone is designed to make it easy for you to access a wide variety of content. For your protection, we want you to be aware that some applications that you enable may involve the location of your phone being shared. For applications available through XXXX, we offer privacy controls that let you decide how an application may use the location of your phone and other phones on your account. However, the XXXX privacy tools do not apply to applications available outside of XXXX. Please review the terms and conditions and the associated privacy policy for each location-based service to learn how location information will be used and protected. In addition, your XXXX phone may be used to access the internet and to download, and/or purchase goods, applications, and services from XXXX or elsewhere from third parties. XXXX provides tools for you to control access to the Internet and certain Internet content. These controls may not be available for certain devices which bypass XXXX controls.

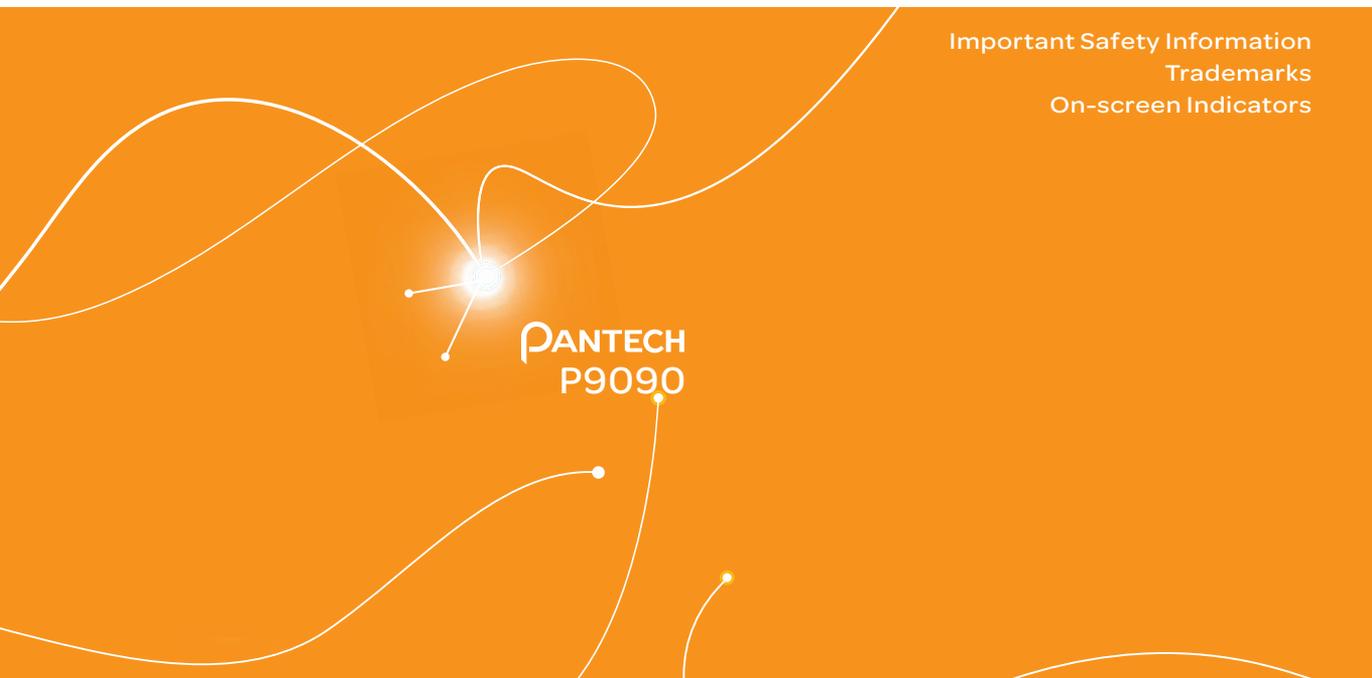
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1

READ THIS FIRST

Important Safety Information
Trademarks
On-screen Indicators



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READ THIS FIRST

Important Safety Information

Safety Information

The following list shows how to maintain your mobile phone and precautions to take as you use the device.

- Keep your mobile phone and its accessories out of the reach of children and pets.
- Maintain your mobile phone in dry conditions and keep it within normal operating temperatures. It may be damaged at temperatures higher than 55 °C/131 °F or lower than -20 °C/-4 °F.
- Do not dry your phone in a microwave oven. Sparks may occur and cause an explosion or fire.
- Do not use or store your mobile phone in dusty, dirty areas.
- Do not disassemble your mobile phone.
- Do not drop or cause severe impact to your mobile phone.
- Do not clean your mobile phone with chemical products, cleaning solvents or detergents.
- Contact your dealer immediately if your mobile phone does not work properly.
- Use only authorized batteries, battery chargers and accessories. Any malfunction or damage caused by the use of unauthorized batteries, battery chargers and accessories will void the limited product warranty.
- Ensure that the battery and the battery charger do not come in contact with conductive objects.
- For optimal performance, use cases and accessories that do not contain magnets.

Safety Precautions

- Using a mobile phone while driving is prohibited.
- Using a mobile phone while driving can distract your attention and cause an accident. Always switch your phone off to drive safely.
- In an emergency, use a hands-free device built into your car or pull over in a safe place first.
- Check local laws and regulations and comply with them, with regard to the prohibition of mobile phone use while driving.

Switch off in restricted areas

Always switch your phone off in areas where mobile phone use is restricted.

Switch off in an aircraft

Always switch your phone off or select the airplane mode when you are in an aircraft. Electromagnetic waves emitted by your phone may affect the electronic navigation equipment in the aircraft.

Switch off in hospitals and near medical equipment

Always switch your phone off in hospitals and obey their regulations. Switch your phone off when using medical equipment for private purposes. Always consult with the medical equipment's manufacturer or an expert regarding phone use near the medical equipment.

Switch Off In Dangerous Areas

Always switch your phone off in areas where explosive or dangerous materials (e.g. fuels or chemical products) are located and obey relevant instructions or signals. Do not insert or remove your mobile phone's battery in such areas.

Install a Hands-free Device In a Safe Location

Install a hands-free device away from the steering wheel and airbag expansion areas. Otherwise you can be injured in a car accident.

Keep Away From Other Electronic Devices

Mobile phones emit electromagnetic waves that may affect nearby electronic devices. After switching on your phone, do not place it close to other electronic goods.

About the Battery Usage

Your phone is powered by a Lithium Ion (Li-Ion) battery. This type of battery typically has a longer lifespan than other types of batteries. However, it must be handled with care. Please read and follow these battery guidelines:

- Do not use a damaged battery or charger.
- Do not disassemble, open, crush, bend, deform, puncture, or shred the battery.
- Do not modify or remanufacture the battery, insert foreign objects into the battery, immerse or expose the battery to water or other liquids, or expose it to fire, explosions, or other hazard.

- Dispose of and recycle used batteries in accordance with local regulations. Do not dispose of batteries by burning as they may explode. Do not use an unauthorized charger or battery.
- Use the battery only for the device for which it is specified.
- Use the battery with a charging device that has been qualified for the device. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Replace the battery only with another battery that has been qualified with the device per the IEEE-Std-1725-2006.
- Children should not be allowed to handle the battery.
- Avoid dropping the phone or the battery. If the phone or the battery is dropped, especially on a hard surface, and you suspect damage, take it to a service center for inspection.
- Use your battery for its specified purpose only.
- The battery recharging time varies depending on the remaining battery capacity and the battery and charger type.
- Battery life inevitably shortens over time.
- Since overcharging may shorten battery life, remove the phone from its charger once it is fully charged. Unplug the charger once charging is complete. Do not store the battery in exceedingly hot or cold places, such as inside a car in the summer or winter as doing so may reduce its capacity and life span.

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READ THIS FIRST

On-screen Indicators

Icon	Description
	A call is in progress.
	Missed call
	Call on hold
	A call is in progress using a Bluetooth device.
	Microphone muted
	The speakerphone is active.
	New voicemail
	New SMS message
	New MMS message
	New Email
	New Google Talk message
	No SIM or USIM card
	Silent mode activated
	Vibrate mode activated
	An error has occurred

Icon	Description
	Firmware upgrade is available.
	Software upgrade is available.
	New application is available.
	Power saver mode is on.
	An alarm has been set.
	Timer has been set.
	Music is playing.
	Another device is attempting to play back content.
	Data manager is connected.
	The GPS is active
	Sync in progress
	Downloading data
	Uploading data
	Connected to a Bluetooth headset
	Bluetooth is active.
	Bluetooth tethering is active.

Icon	Description
	Wi-Fi signal strength
	Portable Wi-Fi hotspot is active
	USB tethering is active.
	USB tethering and Wi-Fi hotspot are active.
	Bluetooth tethering is active.
	Connected to a computer via a supported USB cable connection
	USB debugging mode activated
	Connected to the LTE 4G network
	Signal strength: The number of bars increases when the signal is strong.
	No signal
	Airplane mode is active.
	Battery level: The greener the icon, the more charge that is remaining.
	The battery is charging.

2

GETTING STARTED

Layout

Inside the Package

Using the SIM or USIM Card

Using the Battery

Installing an optional microSD Card

Turning the Phone On or Off

Setting up the Phone

Resetting the Phone

Locking the Screen

Unlocking the Screen

Using the Touch Screen

Entering Text

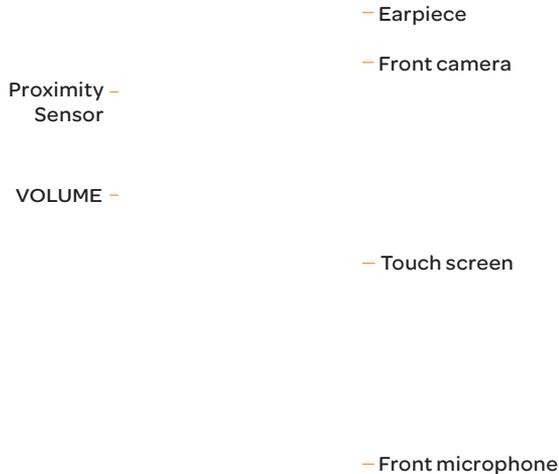


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GETTING STARTED

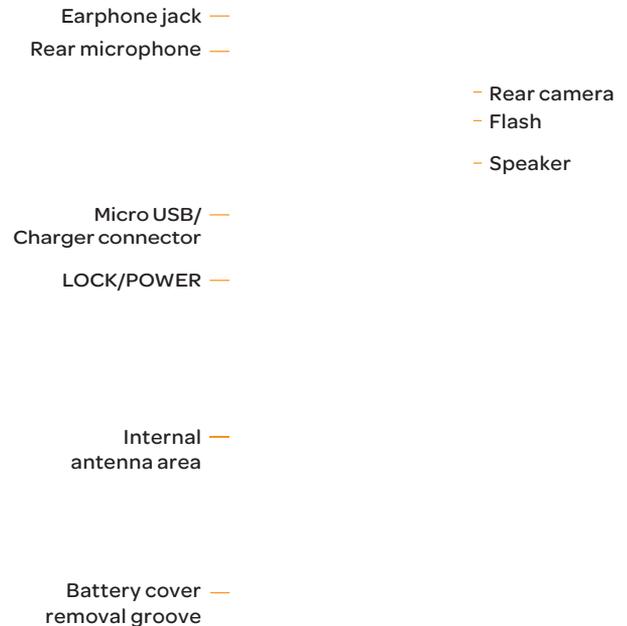
Layout

Front View



Key	Function
VOLUME	Adjust sound volume. Adjust the ring mode.

Rear View



Key	Function
LOCK/PWR	Lock the screen. Turn the phone on or off.

GETTING STARTED

① Note

- Your phone may not be compatible with all types of stereo earphones.
- Do not cover the proximity sensor area with LCD protection film. If you cover the sensor, the touch screen may not perform properly.
- Do not allow the touch screen to come in contact with water or chemicals.
- Do not block the internal antenna embedded in the phone.
- Do not hold the handset too close to your face, as you may block the microphone and prevent others from hearing you clearly.

Gripping the Phone

Hold the phone in the correct position to avoid blocking the internal antenna.

Correct

Incorrect

① Note

- If you block the internal antenna, you may disrupt the wireless signal and increase battery consumption.
- Do not use metallic cases or accessories, as they can interfere with the signal reception.

Inside the Package

Check your product package for the following items:

- Handset
- Battery
- Adapter
- USB cable
- Quick Start Guide

Using the SIM or USIM Card

Before Using the Card

- Be careful not to damage your fingernails when you remove the battery cover.
- Turn off the phone before installing the SIM or USIM card.
- Do not bend or force the card. Doing so may damage the card or destroy data on the card.
- Turn off the phone before removing the SIM or USIM card.
- Do not expose the SIM or USIM card to moisture.
- Avoid static electricity.
- Do not lose or transfer your SIM or USIM card to someone. Pantech is not responsible for damage due to theft or loss.

Installing the SIM or USIM Card

1. Insert your fingernail into the groove at the bottom of the phone, and then lift up to remove the battery cover.
2. Remove the battery.
3. Insert the SIM or USIM card into the card slot. Ensure that the gold contacts on the card are facing the metal contacts on the phone.
4. Reinsert the battery and reattach the battery cover.

About SIM or USIM Cards

When you sign up for phone service, you will receive a SIM or USIM card that contains your registration information, PIN code, and other personal data. Keep the card secure and handle it carefully. Do not bend or scratch the card and keep it away from moisture and static electricity. Pantech is not responsible for damages caused by theft or loss of your personal data.

Using the Battery

Inserting the Battery

1. Turn off the phone, if it is not already turned off.
2. Insert your fingernail into the groove at the bottom of the phone, and then lift up to remove the battery cover.
3. Align the gold contacts on the battery with the contacts located at the top of the battery compartment.
4. Slide the battery into the phone until it lays flat in the compartment.

5. Reattach the battery cover.

① **Note** Be careful not to damage your fingernails when you remove the battery cover.

About the Battery

Your battery uses a lithium ion (Li-Ion) battery. Use only approved batteries and chargers with your phone. The average battery life will vary, based on your usage patterns. For more details, contact your retailer.

Charging the Battery

Insert the plug into a power outlet, and then connect the charger adapter to the Micro USB/Charger connector of the phone.

① **Note**

- Do not use the handset while the battery is charging. Doing so may result in an electric shock.
- Use only authorized adapters. Using unauthorized adapters may cause the handset to malfunction or may damage the handset or battery.
- Carefully align the connector as indicated in the image. Failure to do so may damage the charger connector or prevent the battery from charging.

Installing an optional microSD Card

Insert a microSD card to store files, such as photos or videos.

1. Insert your fingernail into the groove at the bottom of the phone, and then lift up to remove the battery cover.
2. Remove the battery.
3. Insert the microSD card into the memory card slot. Ensure that the gold contacts on the card face the metal contacts on the phone.

4. Reinsert the battery and reattach the battery cover.

About the microSD Card

Inserting a microSD card allows you to store files and application data. You can use up to a 32 GB microSD card. We recommend that you format the microSD card before using it.

Turning the Phone On or Off

Turning the Phone On

Press and hold the LOCK/PWR key for more than two seconds.

Turning the Phone Off

1. Press and hold the LOCK/PWR key for more than two seconds.
 2. Tap **Power off > OK**.
- ① **Note** If you forcibly shut down the phone by removing the battery, the screen may malfunction shortly. This is normal and should not affect the lifespan of the screen.

GETTING STARTED

Setting Mute Mode

Press and hold the LOCK/PWR key for more than two seconds, and then tap . All sounds except multimedia and alarms are silenced.

Setting Vibrate Mode

Press and hold the LOCK/PWR key for more than two seconds, and then tap .

Setting Airplane Mode

Press and hold the LOCK/PWR key for more than two seconds, and then tap **Airplane mode** to turn off Wi-Fi, Bluetooth, and GPS functions. You can reactivate these functions individually, if desired.

You can also drag the area at the top of the screen downward, and then tap .

Setting up the Phone

When you turn on the phone for the first time, a welcome screen appears. To use Google applications and services, you must create or sign into a Google account. You can synchronize Contact, Calendar, and Gmail data for each account if you register multiple accounts.

1. Select and tap a language, and then tap **START**.
2. Select and tap a phone experience, and then tap **Next**.
 - Your phone provides two experiences, Pantech Easy and Standard. For details about how to change the phone experience, refer to chapter 3.

3. Tap **Connect to Wi-Fi network**, and then select and tap an available Wi-Fi network.
 - Tap **Skip**, and go to step 5 to connect to the network later.
4. Tap **Connect > Next**.
 - If the Wi-Fi network is secured, enter the password for it.
5. Tap **Tap to set up Google account** to set up a Google account, and then follow the necessary steps.
 - Tap **Skip** to set up an account later.
6. Tap **OFF** next to **See location in applications (such as Maps) using wireless networks** to use Google location, and then tap **Agree** for Location consent.
 - Go to step 7 if you do not want to use Google location.
7. Tap **Finish**.

Resetting the Phone

Email, Google account information, and contacts will also be deleted when you reset the phone. Before you reset the phone, back up your contacts, messages, photos, and other data.

1. Tap  > **Settings > Backup & reset**.
 2. Tap **Factory data reset**.
 3. Tap **Reset phone**.
 4. Tap **Erase everything**.
- ① **Note** If you reset the phone, all data saved on the phone will be lost.

Locking the Screen

Press and hold the LOCK/PWR key briefly to lock the screen.

Changing the Screen Lock Type

1. Tap  > **Settings**.
2. Tap **Security** > **Screen lock**.
3. Select and tap a screen lock type.

Setting an Unlock Pattern, PIN, or Password

You must connect at least four dots for a pattern lock, enter at least four numbers for a PIN lock, or enter a password that is at least four characters long (at least one character must be a letter).

1. Tap  > **Settings**.
2. Tap **Security** > **Screen lock**.
3. Select and tap a lock type, and then follow the on-screen instructions.
 - Tap **None** to disable the screen lock.

Setting the Face Unlock Function

You can use this feature to recognize your face for unlocking the phone. The face unlock function is less secure than locking the phone with a pattern or PIN.

1. Tap  > **Settings** > **Security** > **Screen lock** > **Face Unlock**.
2. Tap **Set it up** > **Continue**.
3. Align your face with the figure on the screen.
4. Tap **Continue** when your face is captured.
5. Select and tap the secondary unlock type.
6. Configure the secondary unlock settings, and then tap **OK**.

Unlocking the Screen

Unlocking the Screen with a Pattern

1. Press the LOCK/PWR key if the phone is automatically locked.
2. Draw a pattern on the screen.

① **Note** You can make emergency calls without having to unlock the screen.

If You Forget Your Pattern

If you draw an incorrect pattern more than five times in a row, you cannot retry for 30 seconds. When this happens, you can unlock the phone by entering your Google account information.

If you draw an incorrect pattern more than 20 times total, you must do one of the following to unlock it:

If you registered a Google account:

Enter your account information

If you did not register a Google account:

Visit the Pantech website

Visit a Pantech Service Center

① **Note** For more details about registering your Google account, refer to page 53.

Unlocking the Screen with a PIN or Password

1. Press the LOCK/PWR key if the phone is automatically locked.
2. Enter your PIN or password, and then tap **OK, Done**,  or .

 **Note** You can make emergency calls without having to unlock the screen.

If you Forget Your PIN or Password

Visit a Pantech Service Center to unlock the phone.

Unlocking the Screen with Face Recognition

When you set the Face Unlock function, the screen unlocks when you align your face to the figure on the screen. If the phone fails to recognize your face, use a secondary unlock type to unlock the phone.

1. Press the LOCK/PWR key if the phone is automatically locked.
2. Align your face with the figure on the screen.

Unlocking the Phone with the Visual Lock

When you do not use the phone for a specified length of time or press the LOCK/PWR key, the screen turns off and the phone locks automatically.

1. Press the LOCK/PWR key.
2. Tap and drag  to .
 - You can also drag an application shortcut to  to unlock the screen and launch the application.

Adding a Screen Lock Wallpaper

To display wallpaper on the locked screen, tap  > **Settings** > **User theme** > **Screen lock** > **Wallpaper**, select a folder that contains images, and then tap **Save**. If you do not select a folder, only the default image will appear.

Changing Screen Lock Shortcuts

To change screen lock shortcuts, tap  > **Settings** > **User theme** > **Screen lock** > **Shortcuts**. You can change the shortcuts to your favorite applications on the locked screen.

Unlocking the Phone with the Slide Lock

When you do not use the phone for a specified length of time or press the LOCK/PWR key, the screen turns off and the phone locks automatically.

1. Press the LOCK/PWR key.
2. Tap and drag  to .
 - You can also tap and drag  to  to unlock the screen and launch the camera application.

Unlocking the Phone with the Modern Lock

When you do not use the phone for a specified length of time or press the LOCK/PWR key, the screen turns off and the phone locks.

1. Press the LOCK/PWR key.
2. Tap and drag  into the circle.
 - You can also drag an application shortcut into the circle to unlock the screen and launch the application.

Adding a Screen Lock Wallpaper

To display wallpaper on the locked screen, tap  > **Settings** > **User theme** > **Screen lock** > **Wallpaper** > a category > an image and then tap **Save**.

① Note

- If you select an image from Gallery, you can crop the image to set as wallpaper.
- If you select **Home wallpaper image**, the default image will appear.

Changing Screen Lock Shortcuts

To change screen lock shortcuts, tap  > **Settings** > **User theme** > **Screen lock** > **Shortcuts**. You can change the shortcuts to your favorite applications on the locked screen.

Using the Touch Screen

About the Touch Screen

- Do not subject the touch screen to strong impacts.
- Do not use sharp tools that can scratch the touch screen.
- Do not allow the touch screen to come in contact with water or chemicals.
- Do not sit on the phone. Doing so may damage the touch screen.

Performing Touch Screen Commands

- **Tap:** Tap once to access a menu or an option.
- **Drag:** Tap and hold your finger on an item, and then move your finger without lifting it from the the screen.
- **Flick:** Place a finger on the screen and move the screen up, down, left, or right.
- **Pinch:** Place two fingers on the screen, and then spread them apart to zoom in, or squeeze together to zoom out.
- **Select and tap:** Tap an item in a list.
- **Tap and hold:** Touch and hold an area for a few seconds.

Tap

Drag

Flick

Tap and hold

Entering Text

Entering Text with the Android Keyboard

Enter text with the keypad at the bottom of the screen. The keyboard shows word suggestions as you type. Tap a word to use it.

No.	Description
1	Change the case.
2	Clear your input.
3	Start a new line.
4	Insert a period.
5	Insert a space. Tap and hold to select an input method.
6	Switch to Voice mode. Tap and hold to open input options.
7	Switch between ABC mode and Number/Symbol mode.

Entering Text with SwiftKey for Pantech

SwiftKey predicts what you want to type before you type your text. SwiftKey learns new words as you enter them, and suggests those words in its future predictions. Tap one of the three dynamic buttons above the keyboard to select a prediction.

No.	Description
1	Actual characters entered.
2	Primary Swiftkey prediction. Tap on the word or hit space to enter (depending on your spacebar settings.)
3	Secondary Swiftkey prediction. Tap on the word to enter.
4	Clear you input.
5	Start a new line.
6	Insert a question mark.
7	Insert a period.
8	Insert a space.

No.	Description
9	Insert a comma.
10	Switch to Voice mode. Tap and hold to open input options or settings; share SwiftKey via Gmail, Twitter, or more; view support.
11	Switch between ABC and Number/Symbol mode.
12	Change the case.

Entering Text with the Swype Keyboard

Swype is a fast and easy way to enter text. For example, drag your finger on the screen keyboard as shown and input "Quick."

No.	Description
1	Change the case.
2	Clear your input.
3	Start a new line.
4	Switch to Voice mode.

No.	Description
5	Insert a period.
6	Insert a space.
7	Insert a comma.
8	Switch between ABC mode and Number/Symbol mode. Tap and hold the key in Number/Symbol mode to edit text.
9	Tap and hold to open settings.

Entering Text with Your Voice

Use your voice to enter text with the Voice to Text feature.

1. Tap  or  on the keyboard.
2. Speak clearly into the microphone.

Editing Text

1. Tap and hold a word that you want to copy or cut.
2. Drag the handles to adjust the selection.
 - Tap  to select all text.
3. Tap  (cut) or  (copy).
4. Tap the point where you want to paste the text.
5. Tap the handle, and then tap **PASTE**.

Adding a Word to the User Dictionary

Add frequently-used words to the user dictionary for later use. You cannot add words that are already registered in the world suggestion list.

1. Enter a word in the text input field.
2. Tap the word in the word suggestion list.
3. Tap the word again to add to the user dictionary.

To Insert a Word from the User Dictionary

Enter a few characters of the word, and then tap the word when it appears in the word suggestion list.

3

PHONE EXPERIENCE

About the Phone Experience
Setting the Phone Experience
Learning to Use the Pantech Easy Experience



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PHONE EXPERIENCE

About the Phone Experience

Your phone provides two phone experiences, Pantech Easy and Standard. The Pantech Easy Experience provides an easy-to-understand interface that helps you to use the phone more simply. The Standard Experience is recommended for general users. The instructions in this manual are based on the Standard Experience.

Setting the Phone Experience

When you turn on the phone for the first time and set up the phone, you are encouraged to select a phone experience. You can change the phone experience at anytime in the Settings menu.

Changing the Phone Experience

If you are using Pantech Easy Experience, tap  > **Settings** > **Personalize** > **Change Experience** > **Pantech Standard Experience**.

If you are using Pantech Standard Experience, tap  > **Settings** > **Change Experience** > **Pantech Easy Experience**.

① **Note** Some functions and menus are not available in Pantech Easy Experience.

Pantech Easy Experience

Pantech Standard
Experience

Learning to Use the Pantech Easy Experience

Learn how to use the functions and menus in Pantech Easy Experience.

Layout of the Home Screen

No.	Description
1	Drag the area at the top of the screen downward to access Quick settings or view battery usage, current time and date, signal strength, or ongoing events.
2	View the current time, date, and temperature.
3	Access the web.
4	Open Quick Contacts.
5	Open shortcuts for applications.
6	Make calls.
7	Take pictures and record videos.

No.	Description
8	Send and receive messages.
9	Open menus.

Menu Items in Pantech Easy Experience

No.	Description
1	View contacts.
2	Send and receive messages.
3	Take pictures and record videos.
4	Start Document Viewer, Gallery, Music Player, or Video Player.
5	Access the web.
6	Play games or start applications.
7	Start Alarm/Clock, Calculator, Calendar, Converter, NotePad, Pill Reminder, or Tip Calculator.
8	Access the settings. For details, refer to page 87

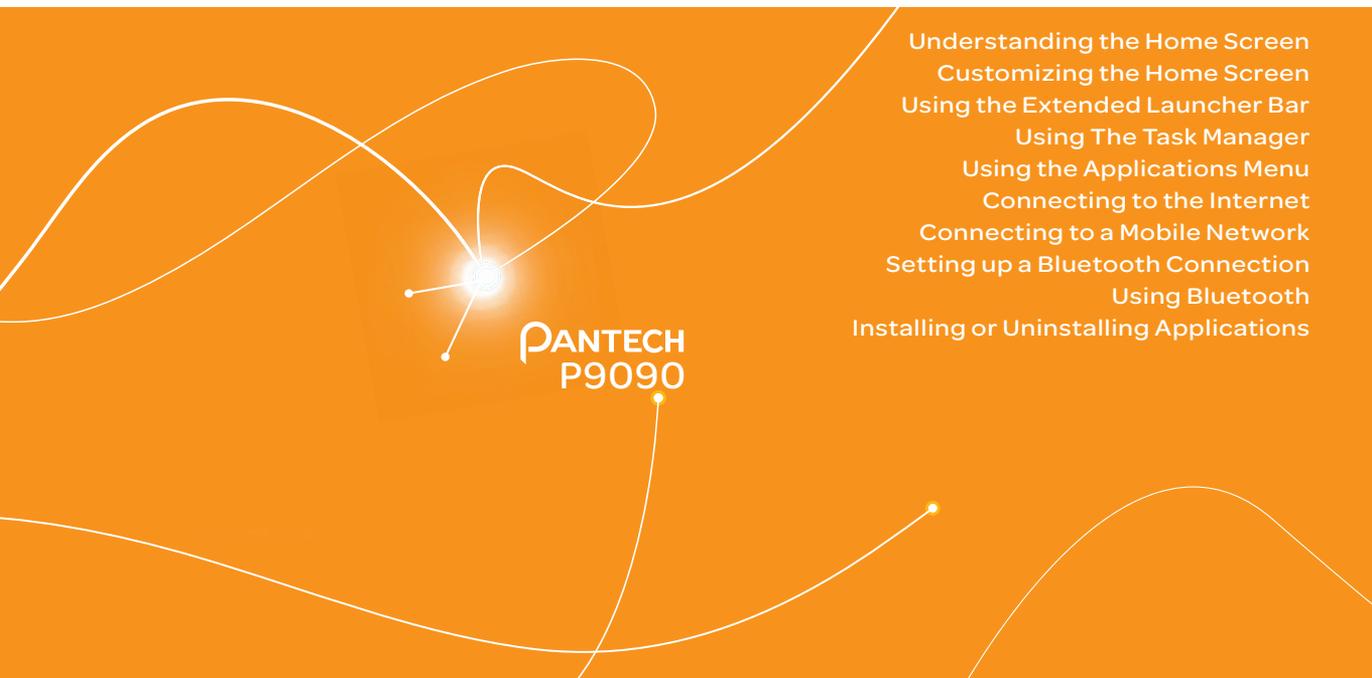
Locked Screen for the Pantech Easy Experience

- Switch on to unlock the screen.

4

BASIC OPERATIONS

- Understanding the Home Screen
- Customizing the Home Screen
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BASIC OPERATIONS

Understanding the Home Screen

Layout of the Home Screen

The Home screen is the starting point for using applications. Here you can access widgets, shortcuts, or folders. The Home screen consists of five panels. When you access the Home screen for the first time, you will be shown usage tips for the Home screen.

No.	Description
1	Notification bar View the phone's status, battery usage, current time, and more.

No.	Description
2	Home screen <ul style="list-style-type: none">Flick to the left or right to move to panel. There are two panels to the panels to the right.Spread your fingers apart to hidePinch your fingers together to edit the home screen.
3	Panel location bar View the number of panels and the location of the current panel. <ul style="list-style-type: none">Drag the white line to move to another panel.Tap the line below a panel to switch to that panel.
4	Extended launcher bar View shortcut icons and folders <ul style="list-style-type: none">Tap a shortcut to run an application.Tap a folder to open it.
5	Basic launcher bar View shortcut icons and the applications menu icon. <ul style="list-style-type: none">Tap a shortcut to run an application.Tap  to open the menu screen.Flick to the left or right to view the Extended launcher bar (4).
6	Navigation buttons <ul style="list-style-type: none"> (Back): Return to the previous screen. (Home): Return to the Home screen. (Recent applications): View a list of recently-accessed applications.

Navigating the Quick Settings, Detail Settings, and Notification Screen

The Quick settings, Detail settings, and Notification screens help you manage important functions easily and keep up events, network, GPS, or sound settings, or running applications. Drag the area at the top of the screen downward.

- Access the settings.
- Close or open the Detail settings.
- Clear all notifications.
- Drag it upward to close the screen.

No.	Description
1	Quick settings Turn on or off Vibrate mode, Wi-Fi, Airplane mode, GPS, Bluetooth, data connection, Power saver mode, Auto rotate, or Auto sync.
2	Detail settings Access the settings for sound, Wi-Fi, display, Power saver, Bluetooth, lock, sync, mobile hotspot, or application management.
3	Ongoing events or notifications View running applications, notifications for application updates, missed calls, new emails, or new messages.

Customizing the Home Screen

Adding a Widget or Shortcut

- On the Home screen, tap and hold an empty area.
 - You can also flick the Home screen upward, or tap .
- Tap **Widget**.
- Tap and hold an item, and then drag it to the desired location.
 - Tap an item to align it with other icons automatically.

Adding a Folder

Add a folder that contains shortcuts or application icons to the Home screen.

- On the Home screen, tap and hold an icon, and then drag it onto another icon.
- Release your finger when a folder is created.

To Add an Icon to a Folder

Tap and hold an icon on the Home screen, and then drag it on to the folder.

Note

- Open the folder and tap  to change the title or color of the folder.
- Tap  to close the folder.

Rearranging or Deleting an Icon, Widget, or Folder

Rearrange or delete icons, widgets, or folders on the Home screen or the Basic launcher bar.

1. On the Home screen or the Basic launcher bar, tap and hold an icon, widget, or folder.
2. Drag it to a desired location or to  at the top of the screen.

Rearranging or Deleting a Panel

1. On the Home screen, squeeze two fingers together.
2. Tap and hold a panel, and then drag it to a desired location or to  at the top of the screen.

Add a new panel. —

To Add a New Panel

Tap **New Panel** to add a new panel. You can create up to seven panels.

Setting the Home Screen Wallpaper

1. On the Home screen, tap and hold an empty area.
 - You can also flick the Home screen upward or tap .
2. Tap **Wallpaper**.
3. Tap a tab.
4. Tap a wallpaper.

Example: When you tap the **Gallery** tab.

No.	Description
	Drag the blue lines to enlarge or reduce the area.
	Tap the area inside the blue lines and drag it to another location.

5. Tap **Set wallpaper** or **CROP**.

Changing the Home screen Theme

1. On the Home screen, tap and hold an empty area.
 - You can also flick the Home screen upward or tap .
2. Tap **Home Theme**.
3. Flick the screen to the left or right to select a theme, and then tap **Apply**.
 - Tap  to edit the theme name.
 - Tap  to delete the theme.

Using the Extended Launcher Bar

Arranging Shortcut Icons or Folders

Move shortcut icons or folders from the Home screen to the Extended launcher bar.

1. Flick the Basic launcher bar to the left or right.
2. Tap and hold a shortcut icon or folder on the Home screen, and then drag it to a desired location.

To Create a Folder on the Extended launcher bar

Drag an icon onto another icon, and then release your finger when a folder is created.

Arranging or Deleting Shortcut Icons or Folders

Move icons or folders from the Extended launcher bar to the Home screen or delete icons or folders from the Extended launcher bar.

1. Arrange icons or folders on the Extended launcher bar.
2. Tap and hold an icon or folder to move or delete, and then drag it to a desired location or to  at the top of the screen.

① **Note** To arrange an icon in a folder on the Home screen or delete it, open a folder, tap and hold an icon, and then drag it to a desired location or to  at the top of the screen.

Using The Task Manager

Accessing Recently-used Applications

Use the Task Manager to access recently-used applications.

1. Tap .
2. Tap an application.
 - Flick the application to the left or right to delete it from the list.
 - Tap and hold the application to delete it from the list or view the application information.

Closing Running Applications

If you start an application and do not close it with the Task Manager, the application remains active even when you switch to the Home screen or start another application. Launching multiple applications can slow down the performance of the device. Close unnecessary application with the Task Manager.

1. Tap  > **Task Manager**.
2. Tap **End** next to an application.
 - Tap **Total X apps End All** to close all applications.

Optimizing the System

When you launch multiple applications at a time or the CPU's usage is high, the consumption of the battery and the system load will increase. Check the CPU's usage and RAM usage with the Task Manager, and then optimize the system.

Tap  > **Task Manager**.

No.	Description
1	Select a category.
2	Select a view type.
3	View the tips. List of active applications.
4	<ul style="list-style-type: none">• Tap an application to view its information or protect it from forced closure.

Using the Applications Menu

Layout of the Applications Menu Screen

You can sort pre-installed applications and downloaded applications by group, in alphabetical order, or one at a time. Press  to open the Applications menu.

- Tap an icon to run the application.
 - Tap and hold an icon to create a shortcut on the Home screen.
 - Flick the screen to the left or right to move to the previous or next page.

No.	Description
	Create a new group. Sort applications. <ul style="list-style-type: none"> • Tap Groups to arrange icons manually.
	<ul style="list-style-type: none"> • Tap Alphabetical to sort icons in alphabetical order (flick upward or downward to search for applications). • Tap Downloads to view downloaded applications. View application information, move, uninstall, or hide applications.
	<ul style="list-style-type: none"> • Tap and hold an icon, and then drag it to another location. • Tap an icon to uninstall, hide, or view the application information.

 **Note** You cannot uninstall pre-installed applications.

Using the Menu Options

Use the menu options to configure the menu screen.

1. Press .
2. Tap .

No.	Description
	Search for an application.
	Share applications with people.
	Add, move, or delete groups.
	View hidden applications.
	Change icon style.
	Access Play Store.
	View the tips.

 **Note** When you tap , the items available will vary depending on the sorting method (**Groups**, **Alphabetical**, or **Downloads**).

Connecting to the Internet

Connecting to a Wi-Fi Network

When you activate Wi-Fi after turning on the phone for the first time or resetting the phone, the Wi-Fi settings screen appears.

1. Drag the area at the top of the screen downward.
2. Tap  **Wi-Fi** in **Quick Settings** to turn on Wi-Fi.
 - Tap  **Wi-Fi** again to turn off Wi-Fi.
3. Select and tap a network in the Wi-Fi network list.

No.	Description
1	Turn Wi-Fi on or off.
2	Unsecured network
3	Secured network
4	Access advanced settings and configure a WPS connection.

No.	Description
5	Add a Wi-Fi network.
6	Search for available Wi-Fi networks again.

① **Note** You must enter a password to connect to a secured Wi-Fi network.

To Configure Wi-Fi Settings

If you turn off Wi-Fi, and then turn it on again, the phone automatically connects to the most recently-used network. To connect to another Wi-Fi network or configure Wi-Fi settings, drag the area at the top of the screen downward, and tap  **Wi-Fi Settings** in **Detail Settings**. You can also tap  > **Settings** > **Wi-Fi**.

Connecting to a Mobile Network

You will need a data plan to access a mobile network.

1. Drag the area at the top of the screen downward.
2. Tap  **Data** in **Quick Settings** to access the mobile network.
 - Tap  **Data** to disconnect from mobile network.

To Configure Mobile Network Settings

Tap  > **Settings** > **More...** > **Mobile networks**, and then check **Data Services** to enable data access over mobile networks.

Setting up a Bluetooth Connection

Bluetooth is a short-range wireless technology that enables wireless connections between electronic devices over a distance of about 10 meters (32 feet).

Turning on Bluetooth

1. Drag the area at the top of the screen downward.
2. Tap  **Bluetooth** in **Quick Settings** to turn on Bluetooth.
 - Tap  **Bluetooth** to turn off Bluetooth.

Pairing with Devices

1. Drag the area at the top of the screen downward.
2. Tap  **Bluetooth Settings** in **Detail Settings**.
3. Select and tap a device from the list.
 - Tap  to rename the phone, set a visibility timeout, or view received files.
4. Tap **Pair**.
 - If you are prompted to enter a PIN, follow the instructions on the screen.

Note

- You can also pair with devices by tapping  > **Settings** > **Bluetooth**.
- To unpair a device, tap  next to the connected device, and then tap **Unpair**.
- Some devices are unpaired as you tap them.
- To use the Bluetooth technology on a PC, the PC must have a built-in Bluetooth capability or you must install an external Bluetooth Dongle. Refer to your PC's User Manual for more details.

Using Bluetooth

Before Using

- You can send data up to 10 meters (32 feet), but if there are obstacles between the devices, the operating distance may be reduced. Other manufacturers' handsets or PCs may be incompatible with your handset.
- Using the Bluetooth technology may affect battery life. Turn off Bluetooth when it is not in use, to prevent unnecessary battery consumption.
- Bluetooth may interfere with other wireless devices that use the same frequency band.
- Headsets and hands-free devices may not be discoverable when they are connected to and in use with other devices, or when other devices are attempting to pair with them.
- When you make a call, listen to music, or watch TV with a Bluetooth device, the sound quality degrades and the Bluetooth device eventually disconnects as you move farther away from the handset. If you exceed the operating distance, the speakerphone feature will activate.
- When you use a Bluetooth headset, sound quality may degrade, due to obstacles or interference. For optimal performance, use a Bluetooth headset within a short distance and remove obstacles from between the devices.
- You may have difficulty hearing some calls in noisy environments or outdoors, due to surrounding noise.
- Some Bluetooth headsets may not be compatible with the handset.
- When you connect the handset to a Bluetooth-enabled car stereo and start the music player on the car stereo, the music application on the handset will launch.

Making a Call

If a Bluetooth headset or hands-free device is paired with the handset, it automatically connects to the handset when you make a call. You can make or answer a call by pressing the call key on the Bluetooth headset or hands-free device.

1. Pair the handset with a Bluetooth headset or hands-free device (refer to p. 39 "Setting up a Bluetooth Connection").
2. Start talking.

① Note

- Instructions on using Bluetooth headsets or hands-free devices may vary depending on device type. Refer to the device user manual for more details.
- Some headsets may automatically attempt to reconnect when they are disconnected. The service status of the reconnection may differ from your settings.
- You can switch between a headset and the handset by long-pressing the call key on the Bluetooth headset when the hands-free device is connected. You can also tap **Bluetooth** on the screen during a call. Some Bluetooth headsets do not support the switching function.

Enjoying Multimedia

Listen to music and watch video or TV with a Bluetooth headset or hands-free device.

1. Pair the handset with a Bluetooth headset or hands-free device (refer to p. 39 "Setting up a Bluetooth Connection").
2. Tap .
3. Tap **Music Player**, **Video Player**, or **Live TV**.

① Note

- Instructions on using Bluetooth headsets or hands-free devices may vary depending on device type. Refer to the device user manual for more details.
- If you connect to another headset while a headset is connected in stereo, the second headset can be connected in hands-free mode. Sound quality may degrade when you connect two headsets, due to differences in specifications between them.
- Adjusting the volume on a headset only affects the headset volume. The volume of the handset must be adjusted on the handset.

Transferring Data

Transfer multimedia files, contacts, and more from the phone to other devices.

To Transfer Photos and Videos from Gallery

Pair the phone with a Bluetooth headset or hands-free device (refer to "Setting up a Bluetooth Connection"). Tap  > **Gallery** > a photo or video >  > **Bluetooth** > a Bluetooth device.

To Transfer Contacts

Pair the phone with a Bluetooth headset or hands-free device (refer to "Setting up a Bluetooth Connection"). Tap  > **Contacts** > tap and hold a contact > **Share contact** > **Bluetooth** > a Bluetooth device.

① Note

- The transfer procedure and available items may differ depending on content type.
- If a device is disconnected while attempting to connect to the handset, a window for entering a passcode will appear when you attempt to pair again. You must enter the correct passcode to complete the connection.

Configuring Bluetooth Settings

1. Drag the area at the top of the screen downward.
2. Tap  > **Bluetooth Settings** in **Detail Settings**.
 - Turn on Bluetooth, if it is turned off.
3. Tap  > an option

Option	Description
Rename phone	Change the handset's Bluetooth name.
Visibility timeout	Set the length of time during which the handset is visible to other devices.
Show received files	View received files via Bluetooth.

Installing or Uninstalling Applications

Installing Applications from Play Store

Download useful applications from Play Store and use them for your purposes. You must consent to the Play Store Terms of Service if you are accessing the Play Store for the first time.

1. Tap  > **Play Store**.
 - You can also tap **Play Store** from the Home screen.
2. Search for an application.
3. Select and tap an application.
4. Follow the on-screen instructions to install the application.

Note

- Settings screens and steps may vary.
- To view installed applications, tap  and move to the last page, or tap the bottom-left corner of the screen to select **Downloads**.
- You can view the installation progress by dragging the area at the top of the screen downward.
- When you access Play Store for the first time, the account registration screen appears. Follow the on-screen instructions to register an account.

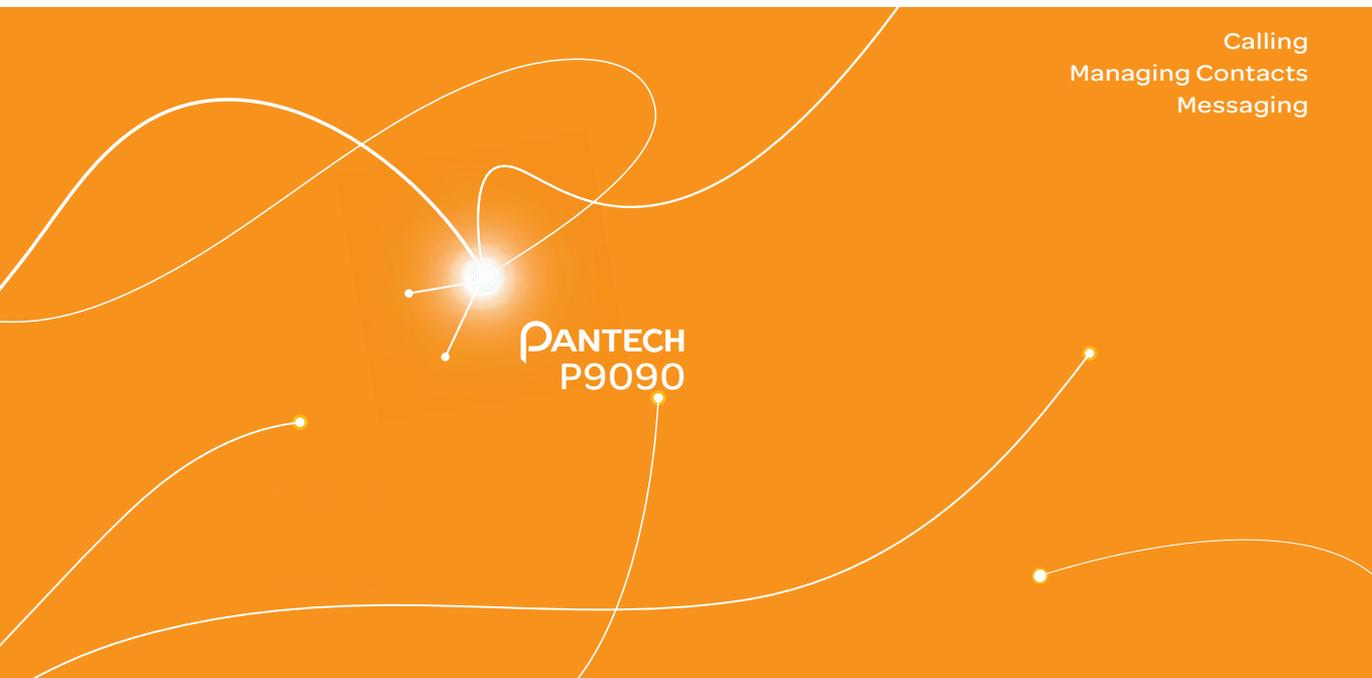
Deleting Applications

1. Tap .
2. Tap  **Groups** at the bottom-left corner of the screen to select **Downloads**.
3. Tap .
4. Select and tap an application to delete, and then tap **Uninstall** > **OK** > **OK**.

5

CALLING & MESSAGING

Calling
Managing Contacts
Messaging



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CALLING & MESSAGING

Calling

Making a Call

1. Tap  **Phone**.
2. Enter a phone number.
3. Tap  at the bottom of the screen.
 - Tap  to access settings.
4. Tap  to end a call.

Note

- Tap and hold a speed dial number to make a call. If the speed dial number is two digits, tap the first digit, and then tap and hold the second digit.
- You must tap  to end a call. If you are using other functions during a call, drag the area at the top of the screen downward, and then tap .
- Available items that appear when you tap  differ depending on how you dial the number (manually or via speed dial).

Making a Call by Voice

You can make a call or open an application with your voice.

1. Tap  > **Voice Dialer**.
2. Say a command.

Adding a Pause or a Wait to a Phone Number

To Add Pause

1. Tap  **Phone**.
2. Enter the phone number.
3. Tap  > **Add 3-sec pause**.
4. Enter the additional number.
5. Tap 
 - The additional numbers will be entered automatically after 3 seconds.

To Add Wait

1. Tap  **Phone**.
2. Enter the phone number.
3. Tap  > **Add wait**.
4. Enter the additional numbers.
5. Tap .
6. Tap **Yes** when the **Send following tones?** message appears on the screen.

Answering a Call

1. Drag  into the circle to answer a call.
 - Drag  into the circle to reject a call with a message.
 - Press  (volume key) or the LOCK/PWR key to mute the ringtone or stop the vibration.
2. Start talking.
3. Tap  to end a call.

① Note

- The Caller ID may be displayed differently or may not be displayed depending on the caller's preferences. Contact your service provider for more details.
- You must tap  to end a call. If are using other functions during a call, drag the top of the screen downward, and then tap  **End Call**.

Rejecting a Call

Drag  into the circle to reject a call. You can also send a message after rejecting a call by dragging  into the circle.

To Check Missed Calls

Drag the the area at the top of the screen downward when  appears on the notification bar. You can also view missed calls by tapping  **Phone > Call log**.

Using Functions During a Call

Tap the menu icons that appear on the screen during a call to use the following functions:

Function	Description
Speaker	Talk through the speaker.
More	Turn Bluetooth On. Turn Noise Suppression Off.
Hold	Place a call on hold.
Swap	Switch between two calls.
Mute	Mute the phone.
Dialpad	Switch to the dialpad.
End	End a call.
Add call	Dial a second call.
Merge	Make a conference call.

① **Note** You can adjust the volume by pressing  (volume key).

Managing Call Logs

Tap the menu icons that appear on the screen during a call to use a variety of functions.

1. Tap  **Phone > Call log**.
2. Tap a call log to view details.
 - Tap and hold to make a call, send a message, send an email, view a contact, or delete an item from a log.
3. View the log.

① **Note** Up to 500 entries can be displayed in the received or dialed call logs.

Managing Contacts

Creating Contacts

Save new contacts to your phone or your Google account. If you have registered more than two Google accounts, you can select an account for saving contacts.

1. Tap **Contacts**.
2. Tap  or .
3. Enter related information.
 - Tap  > **Join** to choose a contact to merge with the new contact.
4. Tap **Save**.

Setting a Speed Dial Number

1. Tap **Contacts**.
2. Tap  > **Speed dial setting**.
3. Select and tap a number, and tap **Add**.
4. Select and tap a contact.

Viewing Saved Contacts

1. Tap **Contacts**.
2. Select and tap a contact.
 - Type the first letter of the name to show names that start with that letter.
3. View the contact information.
 - Tap  to designate the contact as a favorite.
 - Tap  to edit the contact.
 - Tap  to open menus.

No.	Description
1	Register a photo.
2	Enter a name, phone number, or email address; set a ringtone; or select a group.

Example: When you save a contact on your phone.

To Delete Contacts

Tap and hold a contact to delete, and then tap **Delete contact** > **OK**.

Exporting or Sharing Contacts Information

1. Tap **Contacts**.
2. Tap  > **Import/Export**.
3. Select and tap an item.

Item	Function
SIM card contacts	View and edit contacts on the SIM or USIM card.
Export to SIM card(Copy)	Copy contacts from the phone to the SIM or USIM card.
Export to SIM card(Move)	Move contacts from the phone to the SIM or USIM card.
Import from SD card	Import contacts from the SD card to the phone.
Export to SD card	Export contacts from the phone to the SD card.

- ① **Note** Contact items that can be exported may differ depending on the SIM or USIM manufacturer or service provider.

Syncing Contacts with Google Account

1. Tap **Contacts**.
 2. Tap  > **Accounts**
 3. Select and tap an account.
 - Turn on **Accounts & sync** if it is turned off.
 4. Tap the check box next to **Sync Contacts**.
- ① **Note** You must register a Google account to sync contacts with it. For more details, refer to page 53.

Setting Contacts Groups

Manage multiple contacts in groups. If you have registered more than two Google accounts, you must select an account for setting groups.

1. Tap **Contacts** > **Groups**.
2. Tap .
3. Select and tap an account.
4. Enter a group name and add group members.
5. Tap **Save**.

To Add Group Members

Tap and hold a group in the group list, and then tap **Edit group**. Tap the **Add group member** button, and select the names of the members to add.

To Manage Groups

Tap and hold a group in the group list, and then select and tap one of the menu items. You can edit the group or set a group ringtone. Alternatively, select and tap the group, and then tap . You can send a message to up to 10 group members by tapping **Send**.

Adding to Favorite Contacts

1. Tap **Contacts**.
2. Select and tap a contact, and then tap .
 - You can also tap and hold a desired contact, and then tap **Add to favorites**.

① **Note** You can view your favorite contacts by tapping **Contacts > Favorites**.

Messaging

Viewing the Conversations List

1. Tap **Messages**.
2. View the conversations list.
 - Tap  to delete a conversation, search messages, sort conversations, select a quick text, manage templates, check a voice mail, or access settings.

To Search Messages

In the conversations list, tap  > **Search** and enter a keyword.

To Sort Convesations

In the conversations list, tap  > **Sort by** > an option.

- ① **Note**
- Available options differ depending on the message type (sent or received) or contact information.
 - You can enlarge or reduce the font size by spreading two fingers apart or squeezing them together.

Viewing a Conversation

View sent and received messages in a conversation and sort conversations by date or contact name.

1. Tap **Messages**.
2. Select and tap a conversation.
 - Tap the photo to add to contacts or view options when the address is already saved.
3. View the messages.
 - Tap and hold a message to view the message detail, lock it or unlock it, edit it, forward it, save the attachment, copy the message as text, delete it, view message information, move to the SIM or USIM card, add to contacts, call the number, or send an email.
 - Tap  to attach a picture, video, audio, contact, or other file.
 - Tap  to reply, insert text, add a slide, add cc or bcc fields, discard a message, save as a template, move to the SIM or USIM card, or delete.

Sending a New Message

Send text (SMS) or multimedia (MMS) messages.

1. Tap **Messages**.
2. Tap .
3. Enter the recipient's number or email address.
4. Tap the message input field and enter a message.
 - Tap  to attach a picture, video, audio, contact, or other file.
 - Tap  to insert text, add a slide, add cc or bcc fields, discard a message, load a template, start the slide manager, save the message as a template, preview the message, remove a slide, set the slideshow layout, or set the slideshow duration.

5. Tap **Send**.

No.	Description
1	Recipient input field
2	Select recipients from contacts, call log, or group.
3	Message input field

① **Note** You can add multiple recipients in the recipient input field by adding a comma, space, or semicolon between each recipient's phone number or email address.

Configuring Message Settings

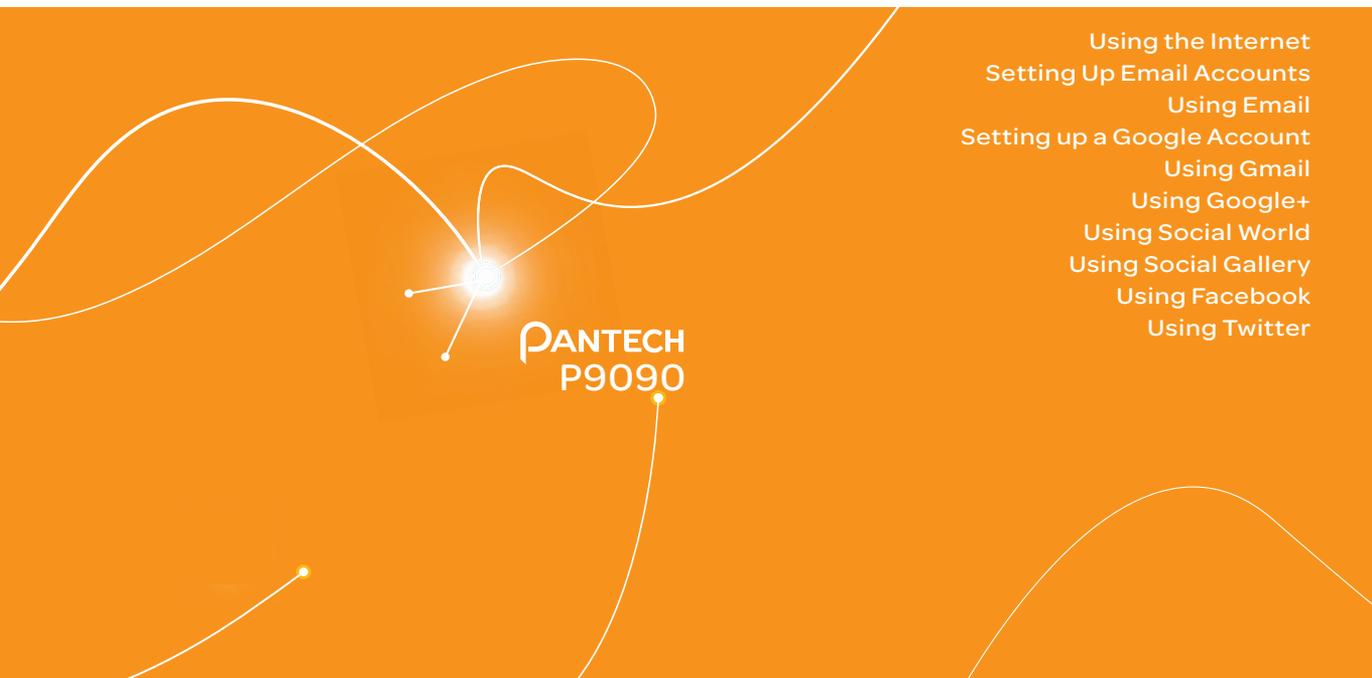
1. Tap **Messages**.
2. Tap  > **Settings**.
3. Select and tap an item.

Item	Function
Storage settings	Set the old message auto-deletion limit. Set the text message or multimedia message limit. View used memory.
Signature settings	Edit your signature. Set the Signature auto-append function.
Text message (SMS) settings	Manage SIM card messages.
Multimedia message (MMS) settings	Set the Auto-retrieve function. Access extra settings. Set the storage for saving attachments.
Notification settings	Configure the message notification setting. Select a ringtone. Configure the vibration setting.

6

COMMUNICATION

- Using the Internet
- Setting Up Email Accounts
- Using Email
- Setting up a Google Account
- Using Gmail
- Using Google+
- Using Social World
- Using Social Gallery
- Using Facebook
- Using Twitter



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COMMUNICATION

Using the Internet

Accessing the Internet

Search for information on the Internet and bookmark your favorite websites.

1. Tap  > **Web**.
2. Tap the address bar, and then enter a URL or keyword.
3. Tap , **Go** or .
 - Tap  to open menus and options, such as Forward, Tab management, New incognito tab, Bookmarks, Save to bookmarks, Share page, Brightness, Find on page, Request desktop site, Save for offline reading, or Settings.
 - Tap and hold unlinked text to copy or share it, find it on the page, or search for the text on the web.
 - Drag  upward to open the toolbar.

To Download Files from the Internet

Tap and hold a picture, link, or file, and then tap **Save image** or **Save link**. You can find downloaded files at  > **Downloads**.

Using the Google Search

1. Tap  > **Search**.
2. Enter a keyword in the search box, and then tap , , or .
 - Tap  to access settings or view help.
 - Tap  to search by voice.

Setting Up Email Accounts

Setting Up Email Accounts Automatically

1. Tap  > **Email**.
2. Select and tap an email service.
3. Enter your email address and password, and then tap **NEXT**.
4. Configure the settings, and then tap .
5. Enter an account name and your name, and then tap .

No.	Description
	Open a new tab.
	View bookmarks, browsing history, or saved pages.
	Refresh a page.

To Add Another Email Account

After setting up the email account, in the mail list screen, tap  > **Accounts** > . You can also tap  > **Settings** > **Accounts & sync** > **ADD ACCOUNT** > **Email**.

Setting Up Email Accounts Manually

1. Tap  > **Email**.
2. Select and tap an email service.
3. Enter your email address and password, and then tap **MANUAL SETUP**.
4. Select and tap an account type.
5. Enter the server information, and then tap .
6. Configure the settings, and then tap .
7. Enter an account name and your name, and then tap .

Synchronizing Emails

1. Tap  > **Settings** > **Accounts & sync**.
2. Select and tap an email account.
3. Tap the check box next to **Sync Email**.

Using Email

Viewing Email Messages

1. Tap  > **Email**.
2. Tap a message to view it.
 - Tap  to refresh, search email, select another account, sort emails, turn on or off the conversation mode, manage folders, or access the settings.
 - Tap the check boxes next to emails, and then tap  to move them or mark them as read or unread.

No. Description

- | | |
|---|----------------------------|
|  | Switch to another account. |
|  | Switch to another mailbox. |
|  | Create a message. |
-

3. View the message.
 - Tap  to move, delete, save to calendar, or mark the message as unread.

No.	Description
	View the mail list.
	Reply
	Reply to all.
	Forward
	Show or hide the sent date and time, sender's name and email address, or star.
	Add the email address to contacts or view options when the address is already saved.
	View or save the attachment.

Create an Email Message

1. Tap  > **Email**.
2. Tap  to create a new message.
3. Tap the To field and enter the recipient's email address.
4. Tap the Subject field and enter a subject.
5. Tap the text input field and write a message.
6. Tap  to send the message.
 - Tap  to open menus.

Changing Email Settings

1. Tap  > **Email**.
2. Tap  > **Settings**.
3. Select and tap an option.

Option	Settings
General	Automatic picture view, Ask to show pictures, View mode.
Pre-registered accounts	Account settings, Detail settings, Notification settings, Remove account.

To Delete an Email Account

1. Tap  > **Email**.
2. Tap  > **Settings**.
3. Select and tap an email account to remove.
4. Tap **Remove account** > **OK**.

Setting up a Google Account

Registering a Google Account

1. Tap  > **Settings** > **Accounts & sync**.
2. Tap **ADD ACCOUNT** > **Google**.
3. Tap **New** to create a new account.
 - Tap **Existing** if you have a Google account.
4. Follow the on-screen instructions.

Note

- You must sign in to your Gmail account to use applications that require a Google account.
- You can add other accounts, such as Facebook, Picasa or Twitter.

Synchronizing Google Accounts

1. Tap  > **Settings** > **Accounts & sync**.
2. Select and tap an account.
3. Tap the check box next to **Sync Gmail**.
 - **Sync Calendar:** Sync calendar entries with a Google account.
 - **Sync Contacts:** Sync contacts with a Google account.
 - **Sync Gmail:** Sync mails with a Google account.
 - **Sync Google Photos:** Sync photos with a Google account.
 - **Sync Google Play Books:** Sync books with a Google account.
 - **Sync Web:** Sync bookmarks with a Google account.

Using Gmail

Viewing Gmail Messages

1. Tap  > **Gmail**.
2. From the Gmail inbox, tap a message to view it.

No.	Description
	Switch to another account or mailbox.
	Number of unread messages.
	Create a message.
	Search for mail.
	Show all labels.
	Refresh
	Label settings, Settings, Help, Send feedback

3. View the email message.

No.	Description
1	Return to the mailbox.
2	Add the email address to contacts or view options when the address is already saved.
3	Designate as a favorite.
4	Send a reply.
5	Reply to all or forward.
6	View or save the attachment.
7	Archive a message.
8	Delete a mail.
9	Change labels.
10	Mark unread.
11	Open menus.

Creating a Gmail Message

1. Tap  > **Gmail**.
2. Tap  to create a new message.
3. Tap the To field and enter the recipient's email address.
4. Tap the Subject field and enter a subject.
5. Tap the Compose email field and write a message.
6. Tap  to send the message.
 - Tap  to open menus.

Changing Gmail Settings

1. Tap  > **Gmail**.
2. Tap  > **Settings**.
3. Select and tap an option.
 - Tap  to view help or send feedback.

Option	Settings
General settings	Confirm before deleting, Confirm before archiving, Confirm before sending, Reply all, Auto-advance, Message text size, Hide checkboxes, Message actions, Clear search history, Ask to show pictures
Pre-registered accounts	Priority Inbox, Email notifications, Ringtone & vibrate, Signature, Gmail sync, Days of mail to sync, Manage labels, Download attachments
About Gmail	Gmail Version, Send feedback, Report a problem, License information
Experiments	Enable full text search, Enable drag and drop contact chip

Using Google+

Google+ allows you share things with people, send messages, and more.

1. Tap  > **Google+**.
2. Tap **New** to create a new account.
 - Tap **Existing** if you have a Google account.
3. Follow the on-screen instructions.
4. Select and tap a menu.

Using Social World

Social World allows you use social services, such as Facebook, Twitter, and LinkedIn.

Setting up Social World Accounts

1. Tap  > **Social World**.
2. Tap  on the right side of a Social World service.
3. Enter your username or email address and password.

No.	Description
 1	Search for posts or people.
 2	Notifications
 3	Open menus.

No.	Description
 1	All feeds
 2	Pre-registered accounts
 3	View all notifications.

① Note Tap  > **Messenger** to start the Messenger function manually.

Using Social World Facebook

1. Tap  > **Social World**.
2. Select and tap your Facebook account.
3. Select and tap a tab.

Using Social World Twitter

1. Tap  > **Social World**.
2. Select and tap your Twitter account.
3. Select and tap a tab.

No.	Description
	Post a new message on Facebook.
	Search, Friends, Groups, My profile, Refresh, Settings

 **Note** Tap and hold a message to view the available options.

No.	Description
	Post a new message on Twitter.
	Search, Friends, Favorite, My profile, Refresh, Settings

Using Social World LinkedIn

1. Tap  > **Social World**.
2. Select and tap your LinkedIn account.
3. Select and tap a tab.

Using Social Gallery

Social Gallery allows you to view photos and videos on your social service accounts or your phone.

Setting up Accounts

1. Tap  > **Social Gallery** > .
2. Select and tap a service to add your SNS account.
3. Enter your username or email address and password.

Using Social Gallery

1. Tap  > **Social Gallery**.
2. Select and tap a tab.

No.	Description
	Post a new message on LinkedIn.
	Search, Connections, My profile, Refresh, Settings

No.	Description
	Pictures from My gallery
	Pictures from Friends' SNS account.
	Items selected as favorites
	Place

3. Select and tap a folder from the list.
4. Select and tap a photo or video.

No.	Description
1	Share the picture via Bluetooth, Facebook, Gmail, or other method.
2	Post a new message with the selected photo.
3	Write a comment or delete the file.
4	View the picture on a map.
5	View pictures in a slideshow.
6	Write a caption. Save the picture. View the file information. Print the photo. Set as a contact photo or wallpaper.

Using Facebook

1. Tap  > **Facebook**.
2. Enter your email address and password, and then tap **Login**.
 - Tap **Sign Up for Facebook** if you do not have a Facebook account.
3. Select and tap a contacts sync option, and then tap **Sync** or **Done**.
4. Tap  to select and tap a tab.
 - Tap  to view the menus.

Using Twitter

1. Tap  > **Twitter**.
2. Tap **Sign In**, and then enter your username or email address and password.
 - Tap **Sign Up** if you do not have a Twitter account.
3. Select and tap a tab.
 - Tap  to view the menus.

7

MEDIA CENTER

Using the Camera

Capturing the Screen

Using the Gallery

Downloading Music or Video Files from a PC

Using the Music Player

Using Play Music

Using the Video Player

Using Movies

Using Play Movies

Enjoying YouTube

Using Qik Lite



PANTECH
P9090

MEDIA CENTER

Using the Camera

Before Using

- It is recommended that you take pictures in bright areas. Avoid direct fluorescent or harsh lighting.
- To achieve good pictures, ensure that the subject is steady and hold the phone firmly.
- The camera sensor needs some time to automatically adjust the exposure. Wait until the camera achieves the correct exposure.
- The built-in camera is vulnerable to impacts. Be careful not to drop the phone. Wipe the camera lens regularly with a soft, clean cloth.
- The phone consumes more battery power when you use the camera. It is recommended that you carry additional batteries.
- Location information may be saved to pictures, depending on the GPS settings.
- Use the camera responsibly and adhere to all laws and regulations concerning its use.

Taking Pictures

The camera automatically detects a scene and adjusts the focus. You can tap the screen to focus on a desired area. Captured pictures are saved in the **Camera** folder under the Gallery application.

1. Tap  > **Camera**.
2. Tap .

No. Description

- | | |
|---|-----------------------------------|
|  | Open menus and options. |
|  | Switch to the front camera. |
|  | Switch to video or panorama mode. |
|  | Set the HDR function. |
|  | View captured pictures. |
|  | Zoom in or out. |
-

Note

- You can also zoom in or out by pressing the volume key up or down or spreading your fingers apart or pinching them together.
- Available picture resolutions differ when you use the front camera. Tap  > **Options** > **Resolution** to view available resolutions.
- The High Dynamic Range (HDR) function automatically adjusts the bright and the dark areas of a photo. It allows a greater dynamic range between the brightest and darkest areas of a photo.

Using Options for Taking Pictures

Configure the camera settings to match shooting conditions.

1. Tap  > **Camera**.
2. Tap .
3. Tap a menu > an item.
 - Tap and hold an item, and then drag it into an orange box to add a shortcut.
 - Tap and hold a shortcut, and then drag it off of the menu bar to delete it.

Menu	Setting (when you use the rear camera)
Options	Exposure, Timer, Flash, Resolution, White Balance, Scene Mode
Mode	Normal, Self, Instant Film, Division, Speed
Effects	Color Effect
Settings	Review Screen, Photometry, GPS, Shutter Sound, Save Location

① **Note**

- Instant Film mode allows you to apply the instant camera effect and edit pictures.
- If you set the **Review Screen** function, you can use the album, edit, share, and delete menus after taking pictures.
- If you tap  in portrait mode, you can drag the screen upward or downward to view items.

Recording Videos

Record videos with the built-in camera. You can also capture an image during playback. Captured videos and photos are saved in the **Camera** folder under the Gallery application.

1. Tap  > **Camera**.
2. Tap  >  to switch to the video mode.
3. Tap .

No.	Description
①	Open menus and options.
②	Switch to the front camera.
③	Switch to picture or panorama mode.
④	View captured videos.
⑤	Zoom in or out.

4. Tap  to stop recording.
 - Tap  to capture a picture during recording.

① **Note** You can also zoom in or out by pressing the volume key up or down or spreading your fingers apart or pinching them together.

Using Options for Recording Videos

Configure the camera settings to match shooting conditions.

1. Tap  > **Camera**.
2. Tap .
3. Tap a menu > an item.
 - Tap and hold an item, and then drag it into an orange box to add a shortcut.
 - Tap and hold a shortcut, and then drag it off of the menu bar to delete it.

Menu	Setting (when you use the rear camera)
Options	Exposure, Time Lapse, Flash, Resolution, White Balance, Scene Mode
Effects	Color Effect, Time Lapse Effect
Settings	Review Screen, Voice Rec., MMS Rec., GPS, Shutter Sound, Save Location

Taking Panoramic Pictures

Take a wide panoramic scene in a single picture. Captured pictures are saved in the **Camera** folder under the Gallery application.

1. Tap  > **Camera**.
2. Tap  >  to switch to panorama mode.
3. Tap .

No. Description

- 1 Switch to picture or video mode.
- 2 View captured pictures.

Viewing Captured Picture or Videos

1. Tap  > **Camera**.
2. After finishing capturing, tap the image viewer at the bottom right of the screen.

① **Note** The Gallery application starts when you tap the image viewer (refer to page 63).

Capturing the Screen

Press the Volume Down or Up key, and the Lock/PWR key together for more than two seconds to capture an image of the screen. You can edit and share the captured image, and also set it as a wallpaper or contact photo. You cannot capture images from videos or the camera preview.

Viewing Captured Images

Drag the area at the top of the screen downward, and then tap **Screenshot captured**. You can also view captured images by tapping  > **Gallery** > **Screenshots**.

Using the Gallery

Viewing Pictures

1. Tap  > **Gallery**.
2. Select and tap a folder.
3. Select and tap a picture.
 - Tap  to play a slide show.
 - Tap  to select items or view pictures in groups.
 - Tap and hold a picture to share or delete or view menu items.

4. View the picture.

Example: When you select a picture in the **Camera** folder.

No.	Description
1	Return to the folder.
2	Share a picture via Social World, Bluetooth, or other method.
3	Delete a picture.
4	View the menus.
5	The selected picture <ul style="list-style-type: none">• Tap to view or hide the option menus.

Viewing Videos

1. Tap  > **Gallery**.
2. Select and tap a folder > a video.
 - Tap  to play a slide show.
 - Tap  to select items or view videos in groups.
 - Tap and hold a video to share or delete or view menu items.
3. View the video.
 - Tap  to share the video, view the file information, or access the settings. If the video has a caption, you can adjust the caption settings.

No.	Description
1	Set the sound effects.
2	Playback progress bar
3	View the thumbnails of a video. <ul style="list-style-type: none">• Tap a thumbnail to move to that scene.
4	Adjust the screen size.

Downloading Music or Video Files from a PC

Share music or video files with a PC via the data cable. You must first install Windows Media Player 10 or higher.

1. Tap  > **Settings** > **USB connection settings** > **Media device (MTP)**.
 - Tap **Tips** to view tips about connection modes.
2. Connect the phone to a PC with the data cable.
3. Open the MTP device on the PC, and then transfer files from the PC to your phone.
4. Disconnect the data cable when the transfer completes.

 **Note**

- To connect the phone to a PC in MTP mode, the PC and Windows Media Player must meet the requirements under the following path. Tap  > **Settings** > **USB connection settings** > **Tips**, and then tap the **Media device (MTP)** tab.
- If you do not tap the check box next to **Show settings when USB Connected** in the **USB connection settings** screen, the screen will not appear next time you connect your phone to a PC. In that case, drag the area at the top of the screen downward, and then tap **PC data mode** to open the **USB connection settings** screen.
- The USB connection may fail depending on your PC's operating system. Tap **Tips** in the **USB connection settings** screen for details.

Using the Music Player

Listening to Music

Enjoy music on the phone.

1. Tap  > **Music Player**.
2. Select and tap a tab.
 - Tap  to delete files or access the settings.
 - Tap and hold a file to set it as a ringtone, add it to a playlist or player, delete it, send it, or view file information.
3. Select and tap a file to play.
 - Tap  to add it to a playlist, set it as ringtone, set the sleep mode, or access settings.

No. Description

- | | |
|---|--|
|  | Search for the file in an application. |
|  | Rate the file. |
|  | Set the sound effects. |
-

No.	Description
	Album cover
4	<ul style="list-style-type: none">• Drag to the left or right to skip to the previous or next track.
	Additional features
5	<ul style="list-style-type: none">• Tap  to switch to the play list.• Tap  to view similar songs on YouTube and share the information via SNS.• Tap  to view the song information.
6	Progress bar
7	Set random play.
8	Set repeat play.

To Control Music on the Locked Screen

If the screen is locked when you play music, drag the CD image at the upper-right of the screen to the left. You can use the playback bar to pause, playback, or skip to the previous or next track.

① Note

- The playback screen differs when you rotate the phone to landscape mode.
- The instructions in this manual are based on the default playback screen. Available items may differ depending on the options you select.

Creating a Playlist

1. Tap  > **Music Player**.
2. Drag the list to the left and tap **Playlists**.
3. Tap  > **New playlist**.
4. Enter a name for the playlist, and then tap **OK**.
5. Select and tap the tracks that you want to add to the playlist.
6. Tap .

To Add Songs to a Playlist

Tap and hold a track, and then tap **Add to playlist** > a playlist.

To Edit Playlists

Drag the list to the left, tap **Playlists**, and tap and hold a playlist. You can edit the playlist by tapping one of the menu items.

Using Play Music

Play Music allows you to play music stored on your Google Play music library or on your phone.

1. Tap  > **Play Music**.
2. Tap and select a track.
3. Follow the on-screen instructions.

Using the Video Player

Before Using

- Supported video formats and codecs are H.263, H.264 AVC, MPEG-4, VC-1(WMV), DivX/XviD.
- Supported files types and container formats are .3gp, .3g2, .mp4, .mkv, .avi, .wmv, .asf, .divx.
- Some videos may not appear as thumbnails in Gallery or other applications due to performance limitations.
- Damaged or incompatible files may not play or may play abnormally.
- The maximum resolution is 1920 X 1080. Some files in certain formats or codecs may not play or may play abnormally according to encoding options such as profile or level, frames per second, or bit rate.
- Some files may not play or may play abnormally due to performance or memory limitations.
- Large video files may take longer to start playing or to search.
- If you play video files with a Bluetooth headset connected, playback may differ depending on file formats or codecs.
- Subtitles (.smi or .srt) are supported with video files.

Viewing Videos

1. Tap  > **Video Player**.
2. Select and tap a video.
 - Tap  to play selected files; to delete, share, or sort files; or go to DivX registration.
 - Tap and hold a video file to delete, share, search for, or view the file information.
3. View the video.
 - Tap  to view the current playlist, share the video, view the file information, or access the settings. If the video has a caption, you can adjust the caption settings.

No.	Description
1	Set the sound effects.
2	Playback progress bar
3	View thumbnails of a video. <ul style="list-style-type: none"> • Tap a thumbnail to move to that scene.
4	Adjust the screen size.

Using Movies

Movies allows you to rent movies that can be played on your phone.

1. Tap  > **Movies**.
 - You must allow installation of non-Market applications from Settings. Tap  > **Settings** > **Security**, and then check **Unknown sources**.
2. Read the Terms of Service, enter the required information, and then tap **OK**.
3. Follow the on-screen instructions to rent movies.

Using Play Movies

Play Movies allows you to rent movies from Google Play and watch them on your phone.

1. Tap  > **Play Movies**.
2. Log in with your Google account.
3. Follow the on-screen instructions to rent movies.

Enjoying YouTube

Watching Videos

1. Tap  > **YouTube**.
2. Select and tap a video.
3. View the video.

No.	Description
1	Log in with your Google account. Add accounts.
2	Share via Gmail, Messages, Bluetooth, or other method.
3	Search for videos.
4	Copy the URL, flag the video, send feedback, access settings, or view the help.
5	Playback screen <ul style="list-style-type: none">• Tap to pause or resume a video.
6	Rate the video.

 **Note** Rotate the phone to landscape mode to switch to full screen view.

Uploading Videos

1. Tap  > **YouTube**.
2. Tap the **ACCOUNT** tab.
3. Select and tap an account.
 - Tap **Add account** to create an account.
4. Tap .
5. Select and tap a folder > a video.
6. Select and tap an upload option.
7. Enter the title, description, and tags for the video, and then set the privacy settings.
8. Tap **Upload**.

Using Qik Lite

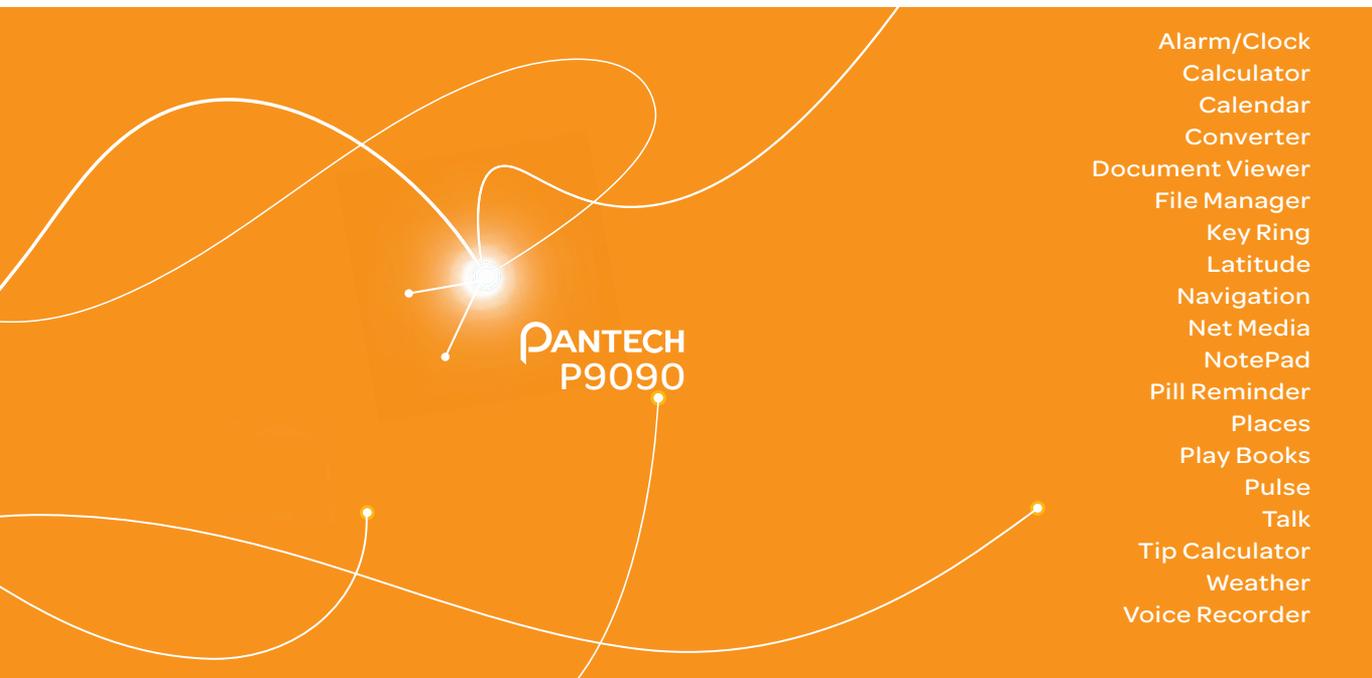
Qik Lite allows you to make video calls, send video mail, and share videos with people over Wi-Fi networks.

1. Tap  > **Qik Lite**.
2. Tap **Already a Qik User?**, and then log in with your username and password.
 - Tap **Get started!** to create an account.
3. Select an option, and then follow the on-screen instructions.

Option	Description
Video Chat	Make two-way video calls.
Record & Share	Record and share videos.
Video Mail	Send video mail.
Video Gallery	View your videos in a gallery.

8

MENU FUNCTIONS



PANTECH
P9090

Alarm/Clock
Calculator
Calendar
Converter
Document Viewer
File Manager
Key Ring
Latitude
Navigation
Net Media
NotePad
Pill Reminder
Places
Play Books
Pulse
Talk
Tip Calculator
Weather
Voice Recorder

MENU FUNCTIONS

Alarm/Clock

Set alarms, view the world clock, use a timer, or set a stopwatch.

Adding a New Alarm

1. Tap  > **Alarm Clock**.
2. Tap **Alarm** > **Add alarm**.
 - Tap  to turn on or off an alarm.
 - Tap  to use your phone as a desk clock.
 - Tap  to delete alarms.
 - Tap  to access alarm settings.
3. Select an alarm time from the numbers displayed, and then tap **Set**.
4. Adjust the settings for the alarm, and then tap **Save**.
 - A red bar appears under the alarm.

① **Note** To change the alarm setting, tap the alarm time.

Viewing the World Time

1. Tap  > **Alarm Clock**.
2. Tap **World Time** > **Add new city**.
3. Enter the first letter of a city.
4. Select and tap the name of the city.

① **Note** To delete cities, tap , select and tap the cities, and then tap  again.

Using the Timer

1. Tap  > **Alarm Clock**.
2. Tap **Timer**.
3. Set the timer by tapping the middle of the screen, and then tap **Set**.
4. Tap **Start**.

① **Note** You can reset the timer by tapping **Reset** while the timer is running.

Using the Stopwatch

1. Tap  > **Alarm Clock**.
2. Tap **Stopwatch**.
3. Tap **Start** to start the stopwatch and tap **Record** to measure lap/split times.

Calculator

Perform basic mathematical calculations.

1. Tap  > **Calculator**.
2. Enter numbers and tap the appropriate mathematical operators.
3. Tap **=** to view the result.
 - Tap **C** to delete a number.
 - Tap and hold **C** to delete all numbers.

① **Note** Rotate your smartphone horizontally to use the scientific calculator feature.

Calendar

Manage your schedules and events.

1. Tap  > **Calendar**.
2. Log in with your Google account.
3. Select and tap a date.
 - Tap  to refresh, search, select calendars to display, or access settings.

Converter

Convert values for length, volume, weight, temperature, area and speed.

1. Tap  > **Converter**.
2. Select a unit type.
3. Enter a value.
4. Select the original unit.
5. Select a target unit.
 - The converted value is shown.

No.	Description
	View the calendar by day, week, month, or agenda.
	Add an event.
	Move to today.
	Events for the selected day.

4. Tap  at the top of the screen.
5. Enter information, and then tap **Done**.

Document Viewer

Read documents in a variety of formats (pdf, excel, ppt, word, and more) on the phone.

1. Tap  > **Document Viewer**.
2. Select and tap a document.
 - Tap and hold a document to share it, delete it, or view the document information.
3. Tap anywhere on the screen while a document is open to use the following options:
 - To zoom in or out, squeeze two fingers together or spread them apart.

No.	Description
	Document name
	Go to a page. Search for words. Share or delete a document. Access the color settings.
	Highlighted portion of the screen
	Zoom in or out.

No.	Description
	Move to the previous page.
	Current page number/total number of pages
	Move to the next page.
	Reset the screen height or width.

File Manager

Manage files that are stored in the phone or on a memory card.

1. Tap  > **File Manager**.
2. Select and tap a folder > a file.
 - Tap and hold a folder or file to cut, copy, delete, rename, share, zip, or view information.

No.	Description
	Switch between internal memory and a memory card.
	Search for files.

MENU FUNCTIONS

No.	Description
3	View favorites. Create a new folder. Select a view type. Select a sort type. View the storage capacity. Refresh. Access the settings.
4	Move up one level in the file directory.
5	Current location
6	Folders and files

Key Ring

Collect all your loyalty cards in one application.

Adding a Card

1. Tap  > **Key Ring**.
2. Read the Terms and Conditions carefully, and then tap **Accept** to continue.
3. Read the on-screen instructions carefully, and then tap **Get Started!**.
4. Register an account or log in with your account.
5. Tap **ADD CARD** to add a card.
6. Scan the barcode from your loyalty cards with your smart phone's camera.
 - If the scan isn't recognized, tap **Won't Scan**.
 - If you do not have a barcode, tap **No Barcode**.
7. Fill in the remaining fields, and then tap **Create Card**.

Latitude

Share your location with your friends or view your friends' locations. You must have a Google account to use Latitude.

Joining Latitude

1. Tap  > **Latitude**.
2. Log in with your Google account.
3. Tap **OK** for the tip on the updated map.
4. Tap **Share location with family or friends**.
5. Tap **Agree & Continue** for Latitude location sharing.

Sharing Location with Your Friends

1. Tap  > **Latitude**.
2. From the FRIENDS LIST screen, tap  > **Select from Contacts** or **Add via email address**.
3. Select and tap a contact or enter an email address.
4. Tap **Yes** to send sharing requests.

Accepting Invitation from Friends

1. Tap  > **Latitude**.
2. Tap **new sharing request** on the top of the screen.
3. Select and tap an option to share your location.
 - Tap **Accept and share back** to add the person to your friends list and share your location as well.
 - Tap **Accept, but hide my location** to add the person to your friends list and keep your location hidden.
 - Tap **Don't accept** if you do not want to add the person to your friends list.
 - Tap **Block** to block all future requests from the person. This option is available only after you turn down the person's request.

Managing Friends

1. Tap  > **Latitude**.
2. Select and tap a friend from the FRIENDS LIST screen.
 - Tap **Ping for check in**, and then select the time interval for refreshing locations.
 - Tap **Manage sharing** and select an option.
 - Tap **Remove this friend** and tap **OK**.

View Your Location History

1. Tap  > **Latitude**.
2. Tap your name from the FRIENDS LIST screen.
 - You can see your name, Gmail account, and current location.
3. Tap **Location history**.
4. View your location history.
 - Tap **Enable location history**, and then follow the on-screen instructions if you have not turned on the location history feature.

Managing Location Settings

1. Tap  > **Latitude**.
2. Tap  > **Location settings**.
3. Adjust the settings.

Option	Description
Location reporting	Set how to report your location.
Enable location history	Set to record your location history.
Manage your friends	Add or remove friends who can see your location.
Sign out of Latitude	Sign out of Latitude.

Navigation

Find a route to your destination with the navigation feature.

Searching for a Destination

1. Tap  > **Navigation**.
2. Select and tap an option.

Option	Description
STARRED	Select the destination from starred places.
SHORTCUTS	<ul style="list-style-type: none">• Speak destination: Search for the destination by voice.• Type destination: Search for the destination by typing.• Go home: Find a way back home.• Map: View traffic condition on the map.
RECENT DESTINATIONS	View the addresses of recent destinations.
CONTACTS	Select the destination from your contacts.

3. Select and tap a destination.

① **Note** You can also search for a destination by typing it or selecting it in the contacts.

Checking Traffic Conditions

Flick the screen along the suggested route to the destination.

- Depending on the traffic conditions, the road will be highlighted in green (good), yellow (slow), or red (heavily congested).

Net Media

Play or share media files between DLNA-supported devices.

① **Note** The DLNA-supported devices must be connected to the same Wi-Fi network.

About Digital Living Network Alliance (DLNA)

The Digital Living Network Alliance (DLNA) is a collaborative organization that leads commercialization of global home network services. Its goal is to build compatible platforms by using standards-based technology to make it easier for DLNA-certified device users to share media contents over a home network.

Playing Media Files via Net Media

1. Tap  > **Net Media**.
2. Select and tap a device to import contents from.
 - To upload files from your phone to another device, select your phone.
3. Select and tap a device to play contents with.
4. Tap **Next**.
5. Select and tap a file category.

6. Select and tap a file to view.

- To upload to another device, tap and hold the file, and then tap **Upload**.
- To download to your phone, tap and hold the file, and then tap **Download**.

No.	Description
1	Search for a file.
2	Move to main. Select a playlist. Select files to download or upload. View files by content type or folder type. Change the sorting order.
3	File list

7. View the file.

Example: When you view a photo.

No.	Description
1	Start a slide show.
2	View the file information.
3	Zoom in or out.

Example: When you play music.

No.	Description
1	Adjust the volume.
2	Create a playlist. View the file information.
3	Set repeat or random play.
4	Select a device to play the file with.

Example: When you play a video.

No.	Description
1	Adjust the volume.
2	Create a playlist. View the file information.

No.	Description
-----	-------------

- | | |
|---|--|
| 3 | Set repeat or random play. |
| 4 | Select a device to play the file with. |
-

Sharing Media Files with Other Devices via Net Media

1. Tap  > **Net Media**.
2. Select and tap a device to import contents from.
 - To upload files from your phone to another device, select your phone.
3. Select and tap a device to play contents with.
4. Tap **Next**.
5. Select and tap a file category.
6. Select and tap a file or files to share.
 - To upload to another device, tap and hold the file, and then tap **Upload**.
 - To download to your phone, tap and hold the file, and then tap **Download**.
 - To select multiple files, tap  > **Select Upload** or **Select Download**.
7. Select a device.
8. Tap **Next**.
 - If you upload a file, select a location to save a file, and then tap **Confirm this position**.

Permitting Other Devices to Search My Device

1. Tap  > **Net Media**.
 2. Tap **Permit** in the question that pops up when another device tries to access your contents through Net Media.
- ① **Note** To view devices that can access your contents, tap  > **Contents share device**.

Customizing Settings

1. Tap  > **Net Media**.
2. Tap .

Option	Description
Device Name	Change the device name. You can add up to 32 characters for the name.
Network Info	Connected Wi-Fi network
Net Media Server On	Set to use the phone as DLNA server.
Contents Share	Permit other devices to search the phone.
Contents share device	View devices that can access your contents.
Contents Position	Change the place where contents to share are saved. Tap Internal Memory or SD Card if the microSD™ card is inserted.
Contents Share Folder	Change the folder where shared contents will be saved.
Download directory	Select the directory to download files.
Upload directory	Select the directory to upload files.

NotePad

Create and share memos.

Creating a New Memo

1. Tap  > **NotePad**.
2. Tap  to add a new memo.
3. Enter the text using the on-screen keypad.
4. Tap **Done** to save the memo.

Layout of the Memo List Screen

No.	Description
①	Select a folder.
②	Create a memo.
③	Search for a memo.
④	Delete, sort, or move memos.
⑤	Memo list

- ① **Note** Tap and hold a memo to edit, share, move, or delete it.

Setting a Folder

You can create a folder or change the name of an existing folder. When you first start NotePad, only the Default Folder exists.

1. Tap  > **NotePad**.
2. Tap  > **Setting**.
3. Tap  to add a folder or tap an existing folder.
4. Enter the name of the folder and select a color of the folder.
5. Tap **Done**.

Locking or Syncing Memos

You can lock your memos or sync them with your Google account.

1. Tap  > **NotePad**.
2. Tap  > **Lock & sync**.
3. To lock memos, tap **Set password**, and then configure settings.
 - To sync memos, tap **Add account**, and then configure account settings.

Pill Reminder

Pill Reminder reminds you to take your medications regularly.

1. Tap  > **Pill Reminder**.
2. Tap .
3. Set options.
4. Tap **Save**.

Places

Find restaurants, cafes, bars, attractions, and other businesses.

1. Tap  > **Places**.
2. Select and tap one of the business categories.
3. Select and tap a business.

Play Books

Shop books and read them on your phone.

1. Tap  > **Play Books**.
2. Log in with your Google account.
3. Read the Terms and Conditions carefully, and then tap **Accept** to continue.
4. Search for a book.
5. Follow the on-screen instructions.

Pulse

Collect updated news from your favorite websites.

1. Tap  > **Pulse**.
2. Select and tap an article from the updated news list.
3. View the article.
 - Tap  to save the article.
 - Tap  to share the article via Facebook, Twitter, or Google+.
 - Tap  to share the article via applications such as Facebook, Gmail, Google+, Messages, NotePad, Social World, and Twitter.

Talk

Talk is an instant messenger offered by Google that allows you to chat with your friends.

1. Tap  > **Talk**.
2. Tap **Existing** to log in with your Google account.
 - Tap **New** to create a Google account.
3. Enter your email address and password, and then tap **Sign in**.
4. Configure the backup and restore settings, and then tap **Next**.
5. Chat with your friends.

No. Description

- | | |
|---|--|
|  | Current account <ul style="list-style-type: none"> • Tap to select another account. |
|  | Search Google Talk. |
|  | Send a chat invitation. |
|  | View the menus. |
-

MENU FUNCTIONS

No.	Description
5	Your account <ul style="list-style-type: none">• Tap to change your status or status message.
	Friends list
6	<ul style="list-style-type: none">• : Online• : Away• : Busy• : Offline

Tip Calculator

Calculate tips and split bills.

1. Tap > **Tip Calculator**.
2. Enter the total amount of the bill, the tip percentage, and the number of people that are splitting the bill.
3. Tap **Done**.

Weather

View weather information for certain cities.

Adding a New City

1. Tap > **Weather**.
2. Tap at the upper-right of the screen.
 - Skip to step 3 if you are adding a city for the first time.
3. Enter the name of the city you want to add, and then tap , , or .
4. Select and tap the city.
 - Current weather information for the city appears on the list.
5. Tap the city on the list to view weather forecast.

Viewing Weather Information

1. Tap > **Weather**.
2. Select and tap a city in the list.
3. Tap to view updated information.

Changing the Weather Settings

1. Tap > **Weather**.
2. Tap > **Settings**.
3. Adjust the settings.

Option	Description
Temperature scale	Choose a temperature unit.
Auto update	Choose a time period for auto updating weather information.
Current location	View weather for your current location automatically in the city list.

Voice Recorder

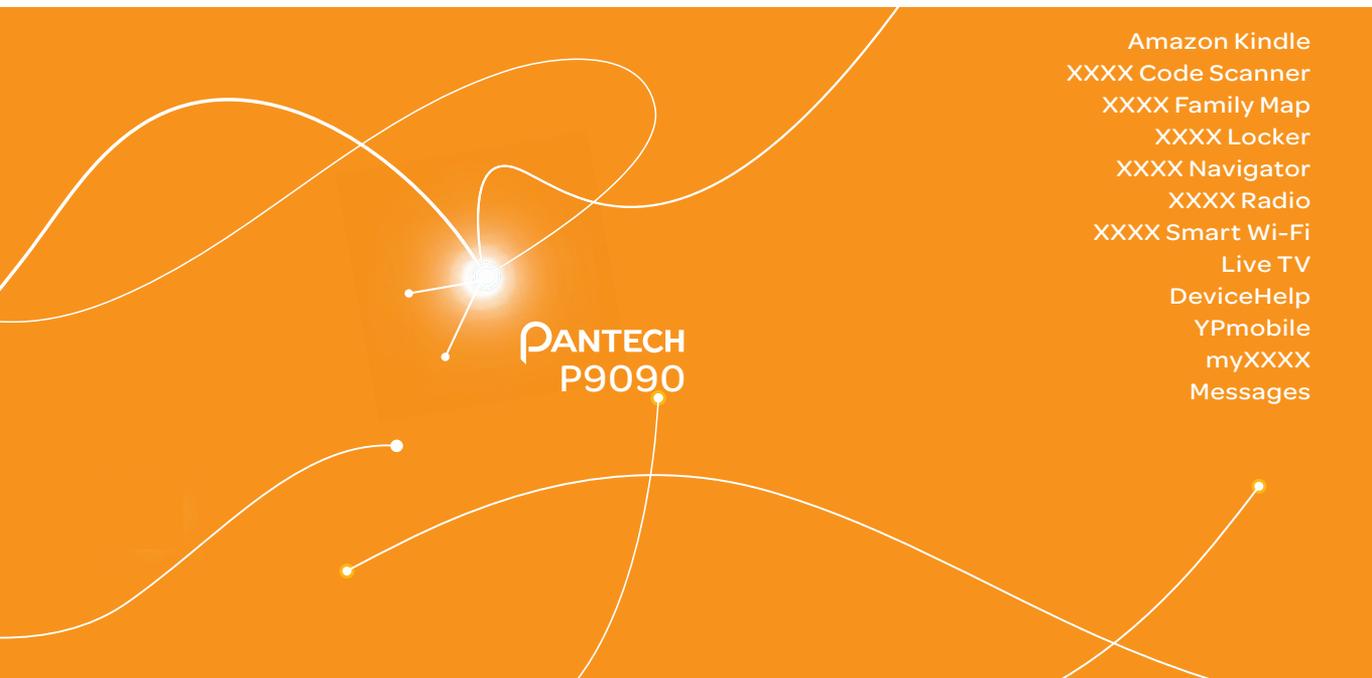
Record an audio file.

1. Tap > **Voice Recorder**.
2. Tap to start recording.
 - Tap to view the file list.
 - Tap to set the location for saving files.
3. Tap to stop recording.
 - Once you stop the audio recording, the audio file is saved automatically.

9

XXXX SERVICES

Amazon Kindle
XXXX Code Scanner
XXXX Family Map
XXXX Locker
XXXX Navigator
XXXX Radio
XXXX Smart Wi-Fi
Live TV
DeviceHelp
YPmobile
myXXXX
Messages



PANTECH
P9090

XXXX SERVICES

Make your phone do more for you with useful applications from XXXX.

Amazon Kindle

Read books on your smartphone.

1. Tap  > **Amazon Kindle**.

① **Note** The first time you open this application, you need to download the updated application from the Play Store.

2. Tap **Get Kindle for Android**.
3. Log in with your Google account.
4. Log in with your Amazon account.

XXXX Code Scanner

Read UPC, QR, and Data Matrix barcodes found on products, magazines, and the Internet.

1. Tap  > **XXXX Code Scanner**.

① **Note** The first time you open this application, you need to download the updated application from the Play Store.

2. Log in with your Google account.
3. Read the Terms and Conditions carefully, and then tap **Accept** to continue.
4. When the pop-up appears, tap **OK**.
5. Enter your personal information, and then tap **Done**.
6. View the tutorial.
7. Place your phone 2 to 5 inches away from a barcode.
 - The scanner will automatically scan the barcode.
 - Ensure that the barcode is completely within the frame.
8. Tap **Yes** to see the information provided by the barcode.

XXXX Family Map

View the location of your family members at any time for a monthly fee.

1. Tap  > **XXXX Family Map**.

① **Note** The first time you open this application, you need to download the updated application from the Play Store.

2. Log in with your Google account.
3. Enter your phone number and password, and then tap **Submit**.
4. Follow the on-screen instructions.

XXXX Locker

Store and share your contents in a cloud server.

1. Tap  > **XXXX Locker**.

① **Note** The first time you open this application, you need to download the updated application from the Play Store.

2. Log in with your Google account.
3. Follow the on-screen instructions.

XXXX Navigator

XXXX Navigator takes you to your destination with turn-by turn voice and on-screen driving directions.

1. Tap  > **XXXX Navigator**.

① **Note** To use this feature, you must have a data plan.

2. Read the Terms and Conditions carefully, and then tap **Accept** to continue.
3. Enter your phone number in the text box provided, and then tap **Continue**.
4. Follow the on-screen instructions.

① **Note** This application is an XXXX subscription service. To new XXXX Navigator customers, a 30 day free trial is provided. If you do not cancel the service after the trial period is over, you will be charged the monthly fee automatically.

XXXX Radio

XXXX Radio allows you listen to radio stations anywhere you go.

1. Tap  > **XXXX Radio**.
2. Log in with your Google account.
3. Read the Terms and Conditions carefully, and then tap **Accept** to continue.
4. Enter your phone number in the text box provided.
5. Tap **OK** to allow to use your current location.
6. Follow the on-screen instructions.

① **Note** This application is an XXXX subscription service.

XXXX Smart Wi-Fi

XXXX Smart Wi-Fi provides an easy way to manage your access to Wi-Fi Hot Spots.

1. Tap  > **XXXX Smart-Wifi**.

① **Note** The first time you open this application, you need to download and install the application from the Play Store.

2. Log in with your Google account.
3. Configure the auto-connect Wi-Fi hotspot setting.

Option	Description
My Spots	Only enable and connect to Wi-Fi near XXXX Wi-Fi Hot Spots and saved networks.
Popular	Only enable Wi-Fi near My Spots and Popular Hotspots.
Public	Enable Wi-Fi near My Spots, Popular Hotspots, and Public Hotspots.

4. Select and tap an available hot spot to connect to.

Live TV

Watch live and on-demand TV shows on your phone.

1. Tap  > **Live TV**.

① **Note** The first time you open this application, you need to download the updated application from the Play Store.

2. Log in with your Google account.
3. Read the License Agreement, and then tap **Accept** to continue.
4. Follow the on-screen instructions.

① **Note** This application is an XXXX subscription service.

DeviceHelp

View videos and tutorials about how to use the features of your phone.

1. Tap  > **DeviceHelp**.
2. Select and tap an item.

YPmobile

Find local business and the best gas prices.

1. Tap  > **YPmobile**.

① **Note** The first time you open this application, you need to download the updated application from the Play Store.

2. Read the License Agreement, and then tap **Accept**.
3. Read the instructions, and then tap **Continue**.
4. Tap **OK** to allow this feature to use your current location.
5. Enter keywords to begin searching or tap one of the business categories.
6. Select and tap a result to view its details.

myXXXX

myXXXX is an online account management application.

1. Tap  > **myXXXX**.

① **Note** The first time you open this application, you need to download the updated application from the Play Store.

2. Log in with your Google account.
3. Read the Terms and Conditions carefully, and then tap **Accept** to continue.
4. Enter your wireless number and password in the text box provided, and then tap **Login**.
5. Follow the on-screen instructions.

Messages

XXXX Messages brings your calls, text messages, and voicemails together and syncs them across all devices.

1. Tap  > **Messages**.

2. Log in with your Google account.

- If you launch the application for the first time, you will be connected to Play Store. Install **XXXX Messages** from Play Store.

3. Tap **Record Greeting** to record a personal greeting.
 - Tap **Skip** to do it later.
4. Follow the on-screen instructions.

10

SETTINGS

Pantech Settings
Wireless & Networks
Device
Personal
System



PANTECH
P9090

SETTINGS

Pantech Settings

Change Experience

Change the home screen type.

1. Tap  > **Settings** > **Change Experience**.
2. Select an option.

Option	Description
Pantech Easy Experience	Streamlined, easy-to-use experience with: <ul style="list-style-type: none">– One home screen for quick access to key features.– Easy navigation with limited scrolling.– Large text and buttons.
Pantech Standard Experience	User experience you can make your own with all the customization options that Android has to offer - widgets, shortcuts and more.

User Theme

Customize the hold screen and dial pad, and set default programs.

1. Tap  > **Settings** > **User theme**.
2. Select an option.

Option	Description
Screen lock	Select a lock screen type and lock screen wallpapers or select shortcuts on the lock screen.
Dialpad	Set a type of dial pad.
Default programs	Set default programs for each application.

Wireless & Networks

Set and manage the wireless and network options.

1. Tap  > **Setting**.
2. Select an option.

Option	Description
Wi-Fi	<ul style="list-style-type: none">• Turn on or off Wi-Fi.• SCAN: Scan for networks.• ADD NETWORK: Add a network.• Network notification: Notify when an open network is available.• Automatic connection: Automatically connect to XXXX Wi-Fi networks.• Keep Wi-Fi on during sleep: Set when to keep Wi-Fi on during sleep.• Wi-Fi Signal Filter: Filter Wi-Fi networks based on signal strength.• MAC address: View the MAC address.• IP address: View the IP address.• WPS connection: Set to connect to WPS-enabled devices by entering a PIN or pressing a button.

Option	Description
Bluetooth	<ul style="list-style-type: none"> • Turn on or off the Bluetooth feature. • Set your phone to be visible to nearby Bluetooth devices. • SEARCH FOR DEVICES: Search for Bluetooth devices. • Rename phone: Rename the phone. • Visibility timeout: Set a visibility timeout. • Show received files: View received files.
Data usage	<ul style="list-style-type: none"> • Turn on or off Mobile data. • Set mobile data limit: Set to disable mobile connection when the specified limit is reached. • Data usage cycle: Set the data usage cycle. • View the data usage by applications. • Data roaming: Turn on or off data roaming. • Restrict background data: Set to restrict background data. • Show Wi-Fi usage: Set to view the Wi-Fi usage.
Call settings	<ul style="list-style-type: none"> • Fixed Dialing Numbers: Manage Fixed Dialing Numbers. <ul style="list-style-type: none"> – Enable FDN: Enable or disable Fixed Dialing Numbers. – Change PIN2: Change PIN for FDN access. – FDN list: Manage phone numbers list. • Volume Key Answer: Set to answer calls by pressing the Volume Up key. • Voicemail service: Select a voicemail service.

Option	Description
	<ul style="list-style-type: none"> • Voicemail settings: Manage voicemail settings. • Auto Redial: Turn on or off the auto redial option. • TTY mode: Set the TTY mode. <p>① Note To use the TTY mode, an earphone must be plugged into the earphone jack.</p> <ul style="list-style-type: none"> • Caller ID: Choose how your Caller ID will be displayed. • Call forwarding: Set call forwarding options. (Always forward, Forward when busy, Forward when unanswered, Forward when unreachable) • Call barring settings: Set call barring options. (All outgoing, Outgoing International, Outgoing International roaming, All incoming, Incoming calls when roaming) • Call waiting: Set the phone to notify when there is an incoming call during another call. • Noise Suppression: Turn on or off the noise suppression option. This feature allows you to hear clear sounds by suppressing background noise.

Option	Description
	<ul style="list-style-type: none"> • Airplane mode: Set whether or not to use Wi-Fi, Bluetooth, and GPS functions. • VPN: Set up and manage virtual private networks. • Tethering & portable hotspot: Set the phone to provide other devices with an Internet connection by becoming a Wi-Fi hotspot.
More...	<ul style="list-style-type: none"> • Wi-Fi direct: Turn on or off the Wi-Fi direct option. • Wi-Fi direct settings: Manage Wi-Fi direct options. • Mobile networks: Enable data access over mobile networks. Turn on or off the international data roaming option. Set the access point name (APN). Select network operators.

① **Note**

- If you turn on Airplane mode, wireless functions will be disabled. You can turn on the Wi-Fi function separately on an airplane that supports Wi-Fi service.
- The phone may not connect to a Wi-Fi network when the signal is weak, if the "**Wi-Fi network is available**" message appears on the screen.
- Windows 2000 does not support the USB tethering function. On Windows XP, update the OS with Service Pack 3(SP3) or later to use the USB tethering function. If you use Windows XP SP2 or the computer does not detect the USB tethering device, visit <http://support.microsoft.com/kb/959765>, click "**View and request hotfix downloads**", and then install the driver on the computer.

Device

Sound

Change various sound settings.

1. Tap  > **Settings** > **Sound**.
2. Select an option.

General Options

Option	Description
Volumes	Set the volume for music, videos, games, and other media. Set ringtones and notifications. Set alarm sounds.
Silent mode	Set the silent mode to Off(normal), Vibrate, or Mute.
Dolby Mobile	Apply a video EQ effect to all media contents. Select a video preset. Apply an audio EQ effect to all media contents. Select an audio preset. Customize user presets.

Ringtone & Notifications

Option	Description
Phone ringtone	Set a ringtone for incoming calls.
Default notification	Set a ringtone for notifications.
Vibrate and ring	Set the phone to both vibrate and ring.

System

Option	Description
Dial pad touch tones	Set to emit a sound when you tap the dial pad.
Touch sounds	Set to emit a sound when you tap the screen.
Screen lock sound	Set to emit a sound when you lock or unlock the screen.
Vibrate on touch	Set to vibrate when you touch some screens or use the soft keys.

Display

Change various display settings.

1. Tap  > **Settings** > **Display**.
2. Select an option.

Option	Description
Brightness	Adjust the brightness of the screen or set the automatic brightness option.
Wallpaper	Set the wallpaper.
Auto-rotate screen	Make the screen rotate automatically when you move the phone horizontally or vertically.
Sleep	Set the time delay for automatically turning off the screen when you perform no operations.
Font size	Adjust the font size.

Storage

View the storage information for the internal storage or SD card and mount or unmount an SD card.

1. Tap  > **Settings** > **Storage**.
2. Select an option.

Option	Description
Mount SD card/ Unmount SD card	Recognize an SD card inserted into the phone. Remove an SD card from the phone safely.
Erase SD card	Erase all data on the SD card.

USB Connection Settings

Manage settings for connecting the phone to the computer via USB.

1. Tap  > **Settings** > **USB connection settings**.
2. Select an option.

Option	Description
Media device (MTP)	Set to transfer media files between the phone and computer.
Camera (PTP)	Set to transfer photos from the phone to a PC.
External memory (SD card)	Set to use the SD card as external memory and transfer files between the SD card and PC.

SETTINGS

Option	Description
PC data mode	Set to transfer files with PC tools.
Show settings when USB connected.	Set to view settings when connected via USB.
Tips	View tips on USB connection settings.

Battery

View the battery usage information of the phone.

1. Tap  > **Settings** > **Battery**.
2. View the battery usage.
 - Tap the check box at the upper-right of the screen to display the remaining battery life percentage on the notification bar.

Apps

View and manage applications installed on the phone.

1. Tap  > **Settings** > **Apps**.
2. Select an option.

Option	Description
Downloaded	Manage downloaded applications.
Running	Manage running applications.
All	Manage all applications.

Power Saver

Turn the power saving feature on or off or adjust the power saving options.

1. Tap  > **Settings** > **Power saver**.
2. Tap the power button to turn on the power saving feature.
 - Tap **More options** to customize the settings.

Personal

Accounts & Sync

Add a new account and manage the sync options.

1. Tap  > **Settings** > **Accounts & sync**.
2. Tap an account.
3. Select an option.

Option	Description
Sync options	Set the account to sync Books, Calendar, Contacts, Gmail, Google Photos, Google Play Books, or Web data.
Remove account	Delete an account from the list.
Sync now	Start the sync.

- ① **Note** The sync options that appear on the screen may differ depending on the type of account selected.

Location Services

Set the options for location services.

1. Tap  > **Settings** > **Location services**.
2. Select an option.

Option	Description
Google's location service	Let applications use data from sources such as Wi-Fi and mobile networks to determine your approximate location.
GPS satellites	Let applications use GPS to pinpoint your location.
Location & Google search	Let Google use your location to improve search results and other services.

Security

Manage security options.

1. Tap  > **Settings** > **Security**.
2. Select an option.

Screen Security

Option	Description
Screen lock	Select a screen lock type.
Lock detail settings	Select a lock screen type and lock screen wallpapers or select shortcuts on the lock screen.
Make pattern visible	Set your screen lock to display as you enter it on screen.

Option	Description
Automatically lock	Set the device to automatically lock after a specified length of time of inactivity.
Power button instantly locks	Set the device to instantly lock as you press LOCK/PWR key
Vibrate on touch	Set the device to vibrate on touch.
Owner info	View the owner information on a locked screen.

① **Note** The screen security options that appear on the screen may differ depending on the type of screen lock selected.

Encryption

Option	Description
Encrypt phone	Require a numeric PIN or password to decrypt the phone each time you power it on.

SIM Card Lock

Option	Description
Set up SIM card lock	Lock or unlock the SIM card. Change the SIM PIN.

Passwords

Option	Description
Make passwords visible	Set whether or not to display the PIN entered on the PIN unlock screen.

SETTINGS

Device Administration

Option	Description
Device administrators	View or deactivate device administrators.
Unknown sources	Set to allow installation of non-market applications.

Credential Storage

Option	Description
Trusted credentials	View the list of trusted credentials and set whether or not applications will use the credentials.
Install from SD card	Install certificates from an SD card.
Clear credentials	Remove all certificates.

Language & Input

Set language and text input options.

1. Tap  > **Settings** > **Language & input**.
2. Select an option.

Language Options

Option	Description
Language	Set a language for the display text.
Spelling correction	Set the automatic spelling correction option.
Personal dictionary	Manage word suggestions for entering text.

Keyboard & Input Methods

Option	Description
Default	Verify the default keyboard.
Android keyboard	Set options for the Android keyboard.
Google voice typing	<ul style="list-style-type: none">• Select input languages: Set the voice input language. Available languages may vary depending on the voice input languages supported by Google.• Block offensive words: Hide offensive text. When checked, Google voice recognition replaces those words in transcriptions with a placeholder comprised of hash symbols (#).

Option	Description
SwiftKey for Pantech	Set to use the SwiftKey keyboard.
Swype	Set to use the Swype keyboard.

Speech

Option	Description
Voice search	Select a language for the voice search. Set the SafeSearch option. Block offensive words.
Text-to-speech output	<ul style="list-style-type: none"> • PREFERRED ENGINE: Select the preferred TTS engine between Google Text-to-speech Engine or Pico TTS. • Speech rate: Set speed at which the text is spoken. • Listen to an example: Play a short demonstration of speech synthesis.

Mouse/Trackpad

Option	Description
Pointer speed	Adjust the pointer speed when using a Bluetooth device or other pointing device.

Backup & Reset

Set backup and reset options.

1. Tap  > **Settings** > **Backup & reset**.
2. Select an option.

Backup & Restore

Option	Description
Back up my data	Set to back up application data, Wi-Fi passwords, and other settings to Google servers.
Backup account	Add or select an account to back up data.
Automatic restore	Set to restore backed up settings and data when reinstalling an application.

Personal Data

Option	Description
Factory data reset	Erases all data on the phone.

System

Date & Time

Set date and time options.

1. Tap  > **Settings** > **Date & time**.
2. Select an option.

Option	Description
Automatic date & time	Set to use the network-provided time.
Automatic time zone	Set to use the network-provided time zone.

SETTINGS

Option	Description
Set date	Set the current date manually.
Set time	Set the current time manually.
Select time zone	Select a time zone manually.
Use 24-hour format	Set to use the 24-hour format.
Select date format	Select a date display type.

Accessibility

Set the accessibility options to help people with physical challenges use the phone more easily.

1. Tap  > **Settings** > **Accessibility**.
2. Select an option.

Services

Option	Description
TalkBack	Turn on or off TalkBack, which provides spoken feedback to help blind or visually-impaired users.

System

Option	Description
Large text	Set to enlarge fonts on the screen.
Power button ends call	Set to end calls when you press Power button.

Option	Description
Auto-rotate screen	Set the screen to rotate automatically when you rotate the phone.
Speak passwords	Set the phone to say passwords as you enter them.
Touch & hold delay	Adjust the recognition time for touching and holding the screen.
Install web scripts	Set applications to install scripts from Google that make web content more accessible.

Developer Options

Set application development options.

1. Tap  > **Settings** > **Developer options**.
2. Select an option.

General Options

Option	Description
USB debugging	Set to activate the debug mode when the phone is connected to a computer via USB.
Development device ID	View the phone's development device ID.
Allow mock locations	Set the phone to send mock locations for testing.
Desktop backup password	Set a backup password.

User Interface

Option	Description
Strict mode enabled	Set the screen to flash when applications do long operations on a main thread.
Pointer location	Set to display the current touch data.
Show touches	Set to display a feedback for touches.
Show screen updates	Set the updating area of the screen to flash.
Show CPU usage	Set to display the current CPU usage.
Force GPU rendering	Set to use 2D hardware acceleration in applications.
Window animation scale	Set a window animation scale.
Transition animation scale	Set a transition animation scale.

Apps

Option	Description
Don't keep activities	Set to clear activity history as soon as an application ends.
Background process limit	Set a limit for background processes.
Show all ANRs	Set to show a pop-up window when background applications do not respond.

Setup Wizard

Specify basic information, such as language, network connection, location service, and account when you turn on the phone for the first time.

1. Tap  > **Settings** > **Setup wizard**.
2. Select and tap a language, and then tap **START**.
3. Tap **Connect to Wi-Fi network**, and then select and tap an available Wi-Fi network.
 - Tap **Skip**, and go to step 5 to connect to the network later.
4. Follow the necessary steps, and then tap **Next**.
5. Tap **Add a Google Account** to set up a Google account, and then follow the necessary steps.
 - Tap **Skip** to skip this step.
6. Tap **OFF** next to **See location in applications (such as Maps) using wireless networks** to use Google location.
7. Tap **Finish**.

SETTINGS

XXXX Software Update

Check and update your software without visiting the dealer.

1. Tap  > **Settings** > **XXXX software update**.
2. Select an option.

Option	Description
Check for updates	Check for software updates.
Continue update	Resume a postponed software update.

- ① **Note** After downloading the software, the device will ask you to update the software now. If you choose to update the software now, it will restart the handset. If you postpone updating the software, you can select to be reminding in 1 hour, 4 hours, or 8 hours in Options. After selecting an option, you will be sent back to standby mode. To resume an update, tap **Continue update**.

About Phone

View general information of your phone.

1. Tap  > **Settings** > **About phone**.
2. Select an option.

Option	Description
Status	View the battery status, battery level, network, signal strength, mobile network type, service state, roaming, mobile network state, your phone number, IMEI, IMEI SV, IP address, Wi-Fi Mac address, Bluetooth address, serial number, and Up time.
Legal information	View the Open source licenses and Google legal information.
Model number	View the model number.
Android version	View the Android OS version.
Baseband version	View the baseband version.
Kernel version	View the kernel version.
Build number	View the build number.

11

APPENDIX

Cautions when Using External Memory Cards
Troubleshooting Checklist
Specifications
Caution
FCC Hearing-Aid Compatibility Regulations for Wireless Devices
FCC Regulatory Compliance
Warranty
Legal Notice

The logo for the PANTECH P9090 is centered in the lower half of the page. It features the brand name 'PANTECH' in a stylized font above the model number 'P9090'. The text is white and set against a dark orange background. Several white, curved lines with small circular endpoints are scattered around the logo, creating a dynamic, abstract design.

PANTECH
P9090

Appendix

Cautions when Using External Memory Cards

- Unstable voltages may cause memory cards or the phone to malfunction.
- Avoid using or storing memory cards near strong magnetic fields or electrical noise.
- Avoid using or storing memory cards in areas with high temperature, high humidity, or corrosive substances.
- Do not bend, drop, or subject memory cards to heavy impact or pressure.
- Keep memory cards away from small children or pets.
- Memory cards may heat up after using the device for an extended period time. This is normal and does not indicate a malfunction.
- Ensure that a memory card is inserted in the correct direction. Inserting a memory card in the wrong direction may cause a malfunction.
- This phone supports only microSD memory cards. Use the correct type of memory card.
- You cannot use a memory card when its lifespan has expired. In this case, use a new memory card.
- Handle all memory card carefully.
- Format a memory card only on your computer or the phone where it will be used.
- Do not remove the battery from the phone when a memory card is being used. This may corrupt the data or cause a malfunction. Pantech is not responsible for any loss of data.

- Your phone supports only microSD memory cards in sizes up to 32 GB. Some memory cards may not work on your phone depending on the capacity or manufacturer. Pantech does not guarantee the functionality or compatibility of memory cards.
- You can store photos, videos, documents, MP3 files, and more on a memory card. Ensure your memory card has enough available space. Your phone cannot recognize a memory card that is full.
- To remove a memory card from your phone safely, tap **Menu > Settings > Storage > Unmount SD card** or turn off the phone before removing the card.

Troubleshooting Checklist

When the audio quality is poor:

End the call and try again.

When the other party cannot hear you speaking:

Your phone may be set to mute. Disable the mute function. Ensure that your hand is not covering the microphone.

When battery life is shorter than usual:

This may happen when you are in an area with low signal strength. Turn off your phone when it is not in use. Change the battery when necessary.

When you cannot turn on your phone:

Make sure your battery is charged. Check to see if your phone works while recharging the battery.

When you are unable to send a message:

This may happen when you are not registered to receive SMS service, you may be in an area where your network service provider cannot provide such a service, your phone memory is full, or the Fixed Dialing Numbers feature is set.

When you are unable to make a call:

Your phone may be set to "fixed dial." Cancel the "fixed dial" function. When you are unable to receive a call: Your phone may be set to "Call forwarding." Cancel the "Call forwarding" feature.

When you are unable to charge the battery:

This may be the result of one of three cases:

1. Your charger may be out of order. Contact your nearest dealer.
2. You may be attempting to use the phone in an overly hot or cold environment. Try changing the charging environment.
3. Your battery may have not been connected to the charger properly. Check the connector.

When you are unable to input data into your Address Book:

Your Address Book's memory may be full. Delete some entries from your Address Book.

When you are unable to select a certain function:

You may not have subscribed to that function or you may be in an area where such service cannot be provided. Contact your local service provider.

Specifications

Design

Touch Candy Bar

Display

16M color TF with 4.8" display
720 X1280 (HD) pixel resolution

Melodies

AAC LC/LTP, AAC+, eAAC+, AMR-NB, AMR-WB, FLAC, MP3, MIDI, Vorbis, PCM/WAVE, WMA, E-AC3

Camera

Back: 13M CMOS Camera with AF (Auto Focus),

Front: 2M CMOS Camera

- Resolution up to 12.6 pixels
- Photo album and video album

Dimensions & Weight

- Weight: 134.56g (with battery pack)
- Dimensions: 134 x 69.4 x 8.98 mm (5.27" X 2.73" X 0.34")

Power Management (Performance)

Battery Type	Capacity	Standby Time	Talk Time
Standard Lithium-Ion (Li-ion)	2100mAh Typ. /2050 mAh Min.	Up to 250 hours	Up to 3 hours

Operating Frequency

- GSM/GPRS/EDGE Quad(850/900/1800/1900) MHz, UMTS/HSPA+ Tri(850/1900/2100) MHz, LTE Quad(700/850/1900/AWS) Europe, Africa, and Asia-Pacific (where these networks are supported). You cannot use GSM 900/1800 MHz or UMTS 2100 MHz networks in North America.
- Automatic band switching
- The provided battery cover is specific for this device and no other approved covers are available.
- Do not use other battery covers with this device as they have not been tested.

Caution

In the United States, 5180 - 5240 MHz band is restricted to indoor-use only. Outdoor operation on this band is a strict violation of the FCC rules and can cause harmful interference to commercial radar communications. For outdoor operation, channels in 5180 - 5240 MHz band must not be used. If using automatic channel assignment, add channels in this band to the Automatic channel exclusion list.

FCC Hearing-Aid Compatibility 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 boxes or a label located on the boxes.

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.
- **T-Ratings:** Phones rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. T4 is the better/higher of the two ratings.

THIS PHONE HAS A HAC RATING OF M3/T4.

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 equals M5. This is synonymous for T ratings. 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.

To ensure that the Hearing Aid Compatibility rating for your phone is maintained, secondary transmitters such as Bluetooth and WLAN components must be disabled during a call. See page 90 for instructions to disable these components.

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids. It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider about its return and exchange policies and for information on hearing aid compatibility.

FCC Regulatory Compliance

FCC Regulatory Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Your mobile device 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 Commission (FCC) adopted RF exposure guidelines with safety levels for mobile devices. Those guidelines are consistent with safety standards previously set by both U.S. and international standards bodies: American National Standard Institute (ANSI), National Council of Radiation Protection and Measurements (NCRP), and International Commission on Non-Ionizing Radiation Protection (ICNRP). Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. The design of your phone complies with the FCC guidelines and applicable.

Statement according to FCC part 15.105

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.

Statement according to FCC part 15.21

Modifications not expressly approved by this company could void the user's authority to operate the equipment.

RF exposure FCC

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only accessories that contain no metallic components and provide a separation distance of 10 mm (0.39 inches) to the body. Use of other accessories may violate FCC RF exposure guidelines and should be avoided.

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

Health and Safety Information FCC

This EUT has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in FCC/OET Bulletin 65 Supplement C (2001) and IEEE Std. 1528-2003 Ministry of Health (Canada), Safety Code 6. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.*

* In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in.

** This device contains 1800 MHz GSM functions that are not operational in U.S. Territories; this filing is applicable only for 850 MHz GSM and 1900 MHz PCS operations.

Warranty

Protect Your Warranty

Read your Warranty carefully, with special consideration given to paragraph seven of the Limited Warranty for your unit:

"Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling, misuse, neglect or accident."

Many companies are making look-alike accessories and, in some cases, promoting that their products are equal to or better than the Pantech product. Be careful. Some of these products may not be compatible with your Pantech product and may damage the unit or cause it to malfunction.

If service is required on your unit and it is determined that a non-Pantech accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by the reason of a non-compatible accessory, the Warranty will be voided. To protect your warranty, use only compatible accessories that cannot damage or interfere with the functioning of your Pantech product.

12-Month Limited Warranty

Pantech Wireless, Inc. (the Company) warrants to the original retail purchaser of this Pantech handheld portable cellular telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) months period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, keypad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase. This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This warranty does not apply to:

- (a) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- (b) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced
- (c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- (f) Products damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the cellular system as a whole.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/ or fax number and complete description of the problem, transportation prepaid, to the Company by calling the number listed below or to the place of purchase for repair or replacement processing.

To locate Pantech Authorized Service Center, call: (800) 962-8622 or email HandsetHelp@Pantech.com. Please have the following information available when you send the phone in for repair:

- A valid original Proof of Purchase
- Return address
- Daytime phone number or fax number
- Model number
- IMEI number (Look for the 15-digit IMEI number behind the battery of the device.)
- Complete description of the problem
- Transportation prepaid

Other Warranty Program

You may have other warranty program with your purchase, such as warranty exchange. If so, please refer to equipment package or the original point of sale.

- THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.

Appendix

ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

For technical support in the U.S. & Canada, call (800) 962-8622. Or email us to HandsetHelp@Pantech.com. Or visit the web site at www.pantechusa.com.

For all other inquiries, write to:

PANTECH WIRELESS, INC. 5607 Glenridge Dr. Suite 500
Atlanta, GA 30342, USA.

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