



# **AASTRA 320W Enterprise Edition**

## **User Manual V 2.0.6**



**UniData Communication Systems Inc.**

September 15, 2010



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# Manual Introduction

- Ø This user's manual contains items that you should follow in order to prevent any harm to yourself and others, or damage to equipment, and to enable you to use this product safely. An explanation of the markings and symbols used in this manual is provided below. Please understand these symbols before reading the rest of this document.
  
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## ■ Compliance Statement for FCC

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.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.5cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

#### ■ Caution concerning interference with 2.4Ghz wireless LAN

When communicating with a 2.4GHz LAN, be careful about the following.

Microwave ovens and other industrial, scientific, and medical equipment, as well as indoor wireless stations (wireless stations requiring permits) and special low-power wireless stations (wireless stations not requiring permits) used for identifying mobile units used in plant manufacturing line etc., as well as amateur wireless stations (wireless stations requiring permits) operate in the frequency band used by this product.

- | Before using this product, double check that no indoor wireless stations, special low-power wireless stations for mobile unit identification, or amateur wireless stations are in operation in the vicinity.
- | If this product should cause harmful electromagnetic interference in an indoor wireless station for identifying a mobile unit, quickly change the frequency used or stop emitting the electromagnetic signal, then notify the store of purchase and consult with them about measures for avoiding interference (for example, installing a partition wall).
- | Besides that, if this product should cause harmful electromagnetic interference in a special low-power wireless station used for identifying a mobile unit, or in an amateur wireless station, or some other problem occurs, please inquire at the store from which you made your purchase.

■ Built-in 2.4GHz band (IEEE802.11b / IEEE802.11g) wireless LAN functions

Usage frequency band	: Wireless equipment using the 2.4GHz band
Transmission method	: DSSS OFDM
Modulation	: DQPSK DBPSK CCK BPSK QPSK 16-QAM 64-QAM
Assumed interference distance	: 40 m max.
Frequency modulation advantages	: The entire bandwidth can be used to avoid the frequency bands of indoor wireless stations and special low-power wireless stations used for identifying mobile units, as well as amateur wireless stations.

Because the 2.4GHz band frequency used in this product overlaps with medical equipment, microwave ovens and other industrial and scientific equipment, as well as indoor wireless stations and special low-power wireless stations for identifying mobile units used in plant manufacturing line etc., electromagnetic interference is possible. Before starting to use this product, double check that no indoor wireless stations or special low-power wireless stations are operating within the interference range of this product.



# Safety Precautions

Since this is provided to make safe and right use of AASTRA 320W to prevent any accidents or risks, be sure to carefully read it, follow instructions, and keep it where it is easily noticed.



## Warning

This mark is intended to warn users of the risk of a serious injury or death when they violate instructions.



Do not put AASTRA 320W in heating appliances such as heaters and microwave ovens to dry them if they are wet.

It can cause explosions, deformation, or troubles. In this case, free services shall not be provided.



Do not use AASTRA 320W in places that are too hot or too wet (keep them indoors between 0 °C and + 50 °C).

If they get wet with rain, have drinks spilled, or are used in extremely hot/wet places such as public sauna bathroom, it can cause battery explosions.



Put AASTRA 320W and chargers in places out of reach of children or pets.

If one puts batteries his or her mouth, or uses broken batteries, it can hurt his or her body, or cause electric shocks.



Do not disassemble AASTRA 320W, or apply shocks to them as you please.

If they get damaged while you disassemble them, or inflict shocks on them, you cannot have free services.



You should stop charging the phone and separate it from battery if the phone is overheating during charging the phone.

Doing so may get burned.



Be aware of much ESD (Electrostatic Discharge simulator) environment.

The product may have the abnormal condition



Be sure to use designated batteries and accessories only for AASTRA 320W provided by our company.

If you use unauthorized batteries or accessories, it can reduce the life of AASTRA 320W, cause explosions, or damage them. In this case, you cannot have free services.



Be careful for conductors such as necklaces, keys, and coins not to contact battery terminals (metal section). Since short circuits can cause explosions, be careful for such events never to take place.



Neither throws batteries, which can inflict shocks on them, nor put them near to heating appliances such as heaters and microwave ovens.

It can cause the leak of battery contents, or explosions.



Use standard chargers that obtained Unidata authentication for batteries.

Otherwise, batteries will have their life reduced, face explosions, or damage AASTRA 320W. In this case, free services shall not be provided.



Refrain from the use of AASTRA 320W, and leave the power cord of chargers unplugged when thunders and lightening are severe.

Thunderbolts can cause severe physical injuries, or fires.



Do not hold AASTRA 320W to your ears to turn on the power.

It can cause hearing impairments, or physical injuries.

Do not look at the infrared window in a direct way when using remote control.

It can cause visual impairments.



Do not use chemical detergents such as benzene, thinner, and alcohol to clean AASTRA 320W.

It can cause fires.



Never push the power button when AASTRA 320W are wet, nor touch AASTRA 320W, chargers, or power cords with wet hands.

I can cause fires or electric shocks

 **Precautions**

This mark is intended to caution users against violating instructions since it can cause a slight physical injury or product damage.



Correctly install AASTRA 320W in compliance with instructions.

Otherwise, it can cause an abnormal operation of AASTRA 320W, or reduce their life.



Be aware of radio interference.

Since this radio equipment can have radio interference, services related to life safety are not provided.



Do not install AASTRA 320W in places exposed to direct sunlight, and on carpets or cushions.

It can cause fires or troubles.



Do not install AASTRA 320W in narrow places with poor ventilation, or near heat sources.

It can cause fires or troubles.



Do not install AASTRA 320W in places with much dust.

It can cause operational problems, or reduce phone life.



Install AASTRA 320W on flat places, not on shelves or slopes.

Otherwise, it can hurt you, or cause troubles when they drop.



Since emergency calls are available only within call coverage, check in advance whether or not calls are available.



Do not use AASTRA 320W covered wrap or vinyl.

Coating can be removed.



Record and keep the information contained in AASTRA 320W separately.

Since the important information stored in AASTRA 320W can be removed due to unavoidable circumstances such as users' carelessness, maintenance, and product upgrade, please keep a record of important information. Take note that manufacturer will not take responsibility for any damage from the loss of information.

If batteries are not used for a long time, keep them at room temperature after charging.

If you want to use again after leaving them for a long time, it is recommended to use them after fully charging.

Keep in mind that AASTRA 320W can produce much heat while using for a long time.

Do not install AASTRA 320W in heavily shaking places.

It can cause performance degradation, or reduce the life of products.

After using AASTRA 320W for a long time, they can produce a weak sound due to their liquid crystal protective vinyl covering the speaker.

If AASTRA 320W are separated from AP or chargers for a long time, they cannot work due to battery discharge.



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# BASIC USAGE

## KEY Features



Key Name	Icon	Basic functions
Direction key	▲▼◀▶	Function of Shortcuts (Alarm, Message, Wi-Fi). menu viewing, Can be pressed up and down, left and right
Left selection key	◀ L	Submenu operation etc
Right selection key	▶ R	Function of Left and Right Selection Key
Send key	SEND	Receiving and making a call
End key	END	End a call and to switch the power ON / OFF
OK key	OK	Used to confirm
AP search key	Wi-Fi	Searching Access Point
Alarm key	ALM	Alarm/ Wakeup call
My menu key	My Menu	Personal shortcuts you get quick access
Message key	✉	Using message function
Google Service key	GOOGL	Using Google service
Mute key	MIC	Mute ON / OFF
Vibration key	* *	Silent ON / OFF
Clear key	CLR	Removing characters or moving to previous screens
Lock key	# #	Key Lock



## Administrator Menu and Change Password

### Display indicators



 Avoid direct sunlight to prevent a poor view of WiFi phone screen.

The screen fades out automatically to reduce battery consumption.

	Signal strength
	Out of call coverage
	Call trial or connection
	Call not available
	Selected Mute, the phone does not ring for an incoming calls
	An alarm is set
	You have an read messages
	Setting to call forwarding service
	Remaining battery life (  : sufficient,  : insufficient,  : none)
	Being connected to network

## Basic Components

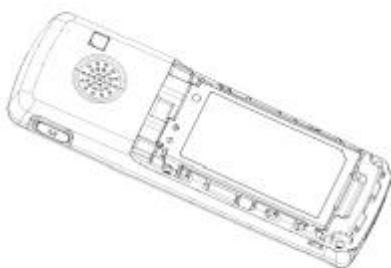
Please check whether the package includes all these items as shown down below in the picture after purchasing the phone set. If there is missing anything that you found, please contact your dealer immediately.

For safety in use, please purchase authentic products. If you want to purchase additional batteries or chargers, contact your dealer.

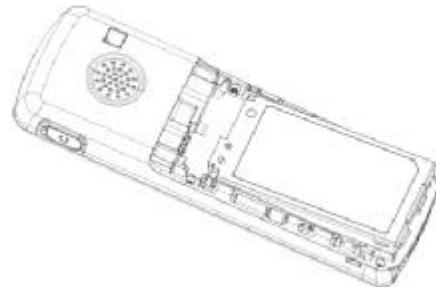
			
Phone	Battery	Cradle	AC Adapter

## Battery Replacement

Always use original Unidata batteries for your safety when you replace batteries, following the figure below.



Battery insertion



Battery removal



Please turn off the power before removing battery from the phone (a sudden power off can cause troubles). If battery is inserted upside down, the phone will not work.

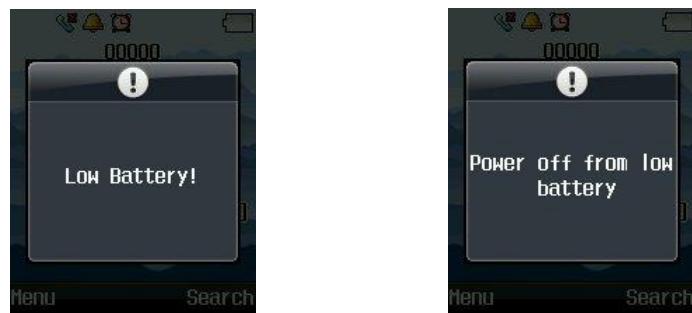
Time Taking to Charge	
Classification	Standard model (1,300mAh)
Time	Approximately 180 minutes

Battery Life	
Successive use	Approximately 7 hours
Successive standby	Approximately 50 hours

 Successive use time and standby time of batteries are the estimates of the company's laboratory, which can be different from the figures in manual depending on the patterns they are used.

## Battery Charging Signal

If batteries need charging, they display , producing ringing sound. If the sound is ringing, start charging immediately.





# BASIC Function

## How to Turn On / Off

If you want to turn on the power, keep pressing  for 3 seconds or until turn on the display.



If you want to turn off the power, keep pressing  for 3 seconds or until turn off the display



If abnormal works take place, or the power button does not work while using WiFi phone, start the phone after removing and inserting the battery. Turn on the power after waiting for 5 seconds or more when you restart the phone.

## How to Enter Characters

### Entering English Alphabets

Ex) If you want to enter “UNI”: press  two times à press  two times à press  three times.

## How to Enter Special Characters

If you want to create messages, press **Menu** **1** to select sign entering mode.



## Make a Call

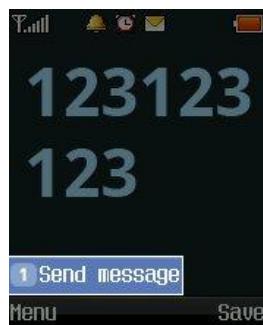
Press after entering area code and phone number. If you selected wrong numbers, press . A

short press of deletes one number, while a long press of deletes all numbers entered.

To finish calling, press .



If you select **Save** after entering phone number, it will immediately be stored in phone book.



Send a Message

You can send messages to the phone number entered. Entering phone number – press **Menu** button

( -Left Selection key) – press  button – writing message – Press  button

## Make a Call the Received Number

Press  button, select your desired phone number using , and press  again. A maximum of 100 phone numbers incoming and outgoing can be stored in the call list.

## Making Calls Using Speed Dial

You can create shortcuts by assigning phone numbers to the number key 1-99. Make a long press of the Speed Dial desired to call. However, if the Speed Dial is 2 digits or more, make a long press of the last one of the abbreviated numbers. You can press  after entering the Speed Dial.

 Since if the distance from AP becomes longer, noise can be made, call near to it.

## Incoming Call

To receive incoming, press . To finish calls, press 

## Missed Call

If you have missed call, press , and the last one of those calls will be answered.

To see calls arrived in your absence from the call list, press 





# Function on the Call

## How to Mute

You can make mute of transmission voice by selecting **1 Mute on** after pressing **Menu** (Left Selection Key  L) during calls.

The screen shows  icon if the function of Mute on works.

If you want to cancel, press **1 Mute off** after pressing **Menu** (Left Selection Key  L) again.



 This is designed to prevent the other party from hearing when the noise around you is too much, or you want the situation around you not to expose to the other party, while you can hear the other party.

## Save Phone Number on Calling

You can store new numbers in the phonebook by selecting **2 Save Number** after pressing **Menu** (Left Selection Key  L) during calls.



 You can find the phone numbers stored by selecting **Contacts** during calls.

## Memo

You can note something during call (Numbers Only). Press the buttons that you want to note and you can store the memos by pressing . The memos stored can be found in the call list.



## Volume Control

You can adjust receiver volume by pressing  during calls. To go to the previous screen, either press  or wait for 3 seconds.



 Some of the bell sounds downloaded can be harshly heard since they do not match the sound source in WiFi phones. This does not come from any troubles in phones, and you can select and use other sounds.



# Phone Book

## Search

You can search for phone numbers just by pressing **Search** (Right Selection Key R) in standby mode.

If you want to call at the phone number selected, press . To see details, select your desired numbers by pressing . You can select search methods by pressing **Menu** (Left Selection Key L).

Integrated Search: Select **Menu** (Left Selection Key L) and (All) in turn. Go to the phone number to search using after entering some of name/phone number/e-mail (1 character or more).

Total Deletion: Select **Menu** and (Delete all), and then enter password.

Press after selecting Yes/No using .



Take note that if you select Delete all, all phone numbers stored will be removed.



The company provides 0000 as the default user password when customers purchase WiFi phones.

## Add Phone Book

A maximum of 500 phone numbers can be stored in the phone book. Enter the **Menu** (Left Selection Key

① L )à Contacts à ② New Contacts



- ✓ You can select the types of phone numbers for each, and if the numbers to be stored are 2 or more, a representative number should be designated.

### Save Phone Numbers

You can save phone numbers in the phone book by pressing **Save**.

: Enter names

- A maximum of 8 characters a maximum of 16 characters for the English Alphabet can be entered.

: Designate groups.

: Enter phone numbers

- Press phone number types to classify.

: Mobile   : Home   : Office

A maximum of 5 phone numbers can be entered.

You can designate Speed-Dial numbers by pressing **Short**.

: Enter e-mail information.

: Enter messenger information.

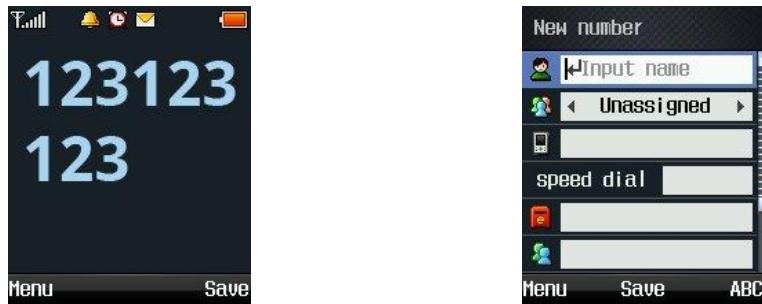
: Designate bell sounds.

: Enter memos.

- You can enter a maximum of 80 characters for the English Alphabet.

## Save New Number

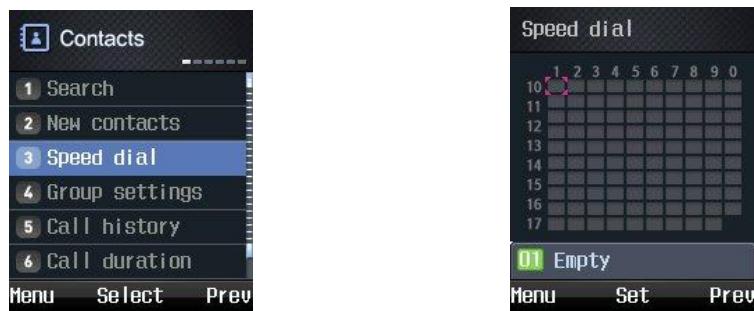
You can store phone numbers in the Contacts by pressing **Save** (Right Selection Key  R) after entering them in standby mode.



## Speed Dial

This is a function that enters the most frequently used ones of those phone numbers stored in Contacts in Speed dials, and easily get them later when users want to call at those phone numbers (numbers from 1 to 99 are provided).

Select **Menu** (Left Selection Key  L) → Contacts →  Speed dial in turn.



You may set it after selecting your desired speed dial using .

If speed dial have been designated, you can remove them by pressing **Menu** (Left Selection Key  L) → **Clear**, or change them using .

## Group settings

You can add or edit groups to store phone numbers. Select **Menu** (Left Selection Key  L) → 

Group settings in turn.



Name: Enter names of groups.

You can enter a maximum of 24 characters for the English Alphabet.

- Group Ringers: Set Ringers by group.
- Message Ringers: Set message alarms by group.

 You can set ringing bell and message bell by groups. However, if the phone numbers set to both group bell and personal bell, the bell will be ringing personal bell.

## Call History

You can check the latest calls. Select **Menu**(Left Selection Key  L) → **Contacts** →  **5 Call history** in

turn. You can easily get Call history by pressing  in standby mode.



 : Display outgoing calls.

 : Display incoming calls.

 : Display missed calls.

 : Display memos during calls

 : Display phone numbers with reception intercepted.

 : Display call forwarding numbers.

For more details, select  in relevant Call history.

You can send messages, set incoming call interception, and delete all phone numbers in the list by pressing **Menu**.

## Web Phone Book

With AASTRA 320W's PC Sync, You can organize Phone book in PC as well as AASTRA 320W.

First unlock the phone in **Menu** (Left Selection Key  L)  **Security**  **Enter password**  **Lock PC**

**Sync**  **Disable**



Type your Phone IP address on the internet browser with 8080 port (for instance, if your phone's IP address is 211.241.234.227, type IP address on web browser like <http://211.241.234.227:8080>)

If you want to know your phone IP address, please select the **Menu**  **Settings**  **6. My phone info**  **Network Info**

 Make sure that the PC and Phone must be on the same subnet. Otherwise, it will not be connected.

In the web browser, enter the password.



You can see the Web GUI phone book

The screenshot shows the Phonebook application interface. The left panel displays a list of contacts with columns for Name, Number, Number1, and Group. The right panel shows a detailed view of a selected contact, with fields for Name, Group, Number, and various contact details like Email1, Email2, and Messenger.

In order to bring file, click “Receiving” button and select csv file in your PC.

The form of CSV file should be include these title as down below.

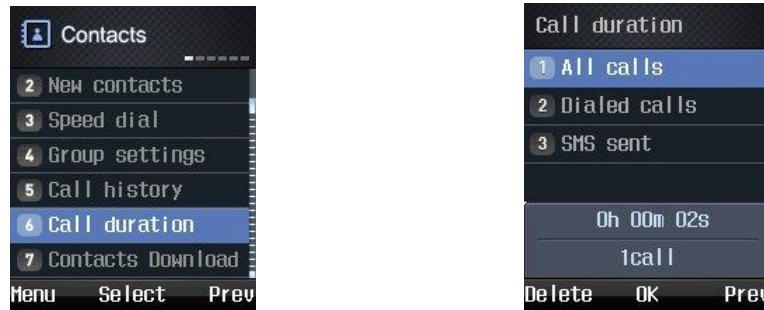
Name	Group	Number	Number1	Number2	Number3	Number4
Key Number	Number Type	Email	Email1	Messenger	Contents	



If the Wi-Fi phone power off during the file transfer, data could be lost.

## Call Time

You can check call time and the number of messages sent. Select **Menu** → **Contacts** → **6 Call duration** in turn.



**1** All calls: Display total call time of calls received and transmitted.

**2** Dialed calls: Display call time of calls transmitted.

**3** SMS sent: Display the number of messages sent.

Call time does not correspond to actual charges.

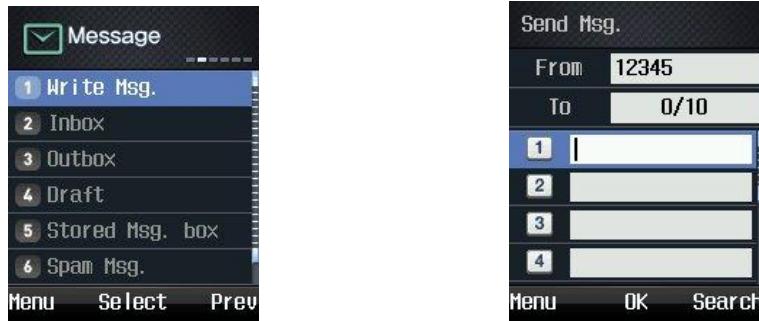
You can use this function by pressing **Menu** button and selecting **Message** or pressing  and  in turn in standby mode.



# Message

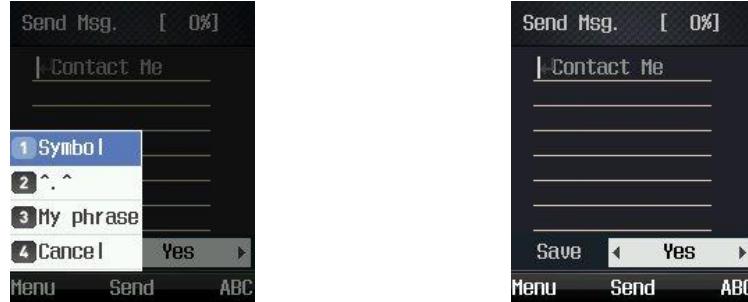
## Write Message

Select **Menu** → Message →  Write Msg in turn.



You can get the latest phone numbers by entering phone number yourself or pressing **Menu**. Otherwise, you can enter phone numbers, pressing **Search** and finding the numbers stored in Contacts.

To enter various expressions, you can select Symbol, ^.^, or My phrase, pressing **Menu**. You can select whether or not to store after entering expressions.



 You can send messages to a maximum of 10 persons at a time, but the charges will be imposed in proportion to the number of added phone numbers.

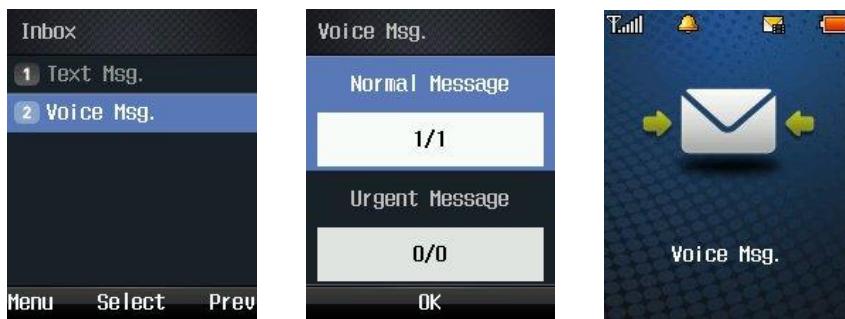
## Inbox

If new messages have arrived, WiFi phones let you know their arrival on new message notification screen, and you can check those messages, pressing . You can store a maximum of 100 messages received. If the received messages are over 100 in number, they are deleted one by one starting with the oldest ones.

Select **Menu** → **Message** →  **Inbox** in turn.

Press  button after selecting your desired messages using .

When you get the voice message, you can see pictures as below.



## Outbox

Messages sent can be stored up to 100 ones, and only successfully transmitted ones are stored.

Select **Menu** → **Message** →  **Outbox** in turn. Press  button after selecting your desired messages using .

## Draft

This is a function that messages in creation are automatically stored temporarily if calls arrive while entering messages, or if you press Finish button. Messages in creation are stored up to 5 ones.

Select **Menu** → **Message** →  **Draft** in turn.

Select your desired messages using .

If you want to edit messages in creation, press  button, modify expressions, and send messages, pressing  button again, after selecting whether or not to store.

## Stored Message Box

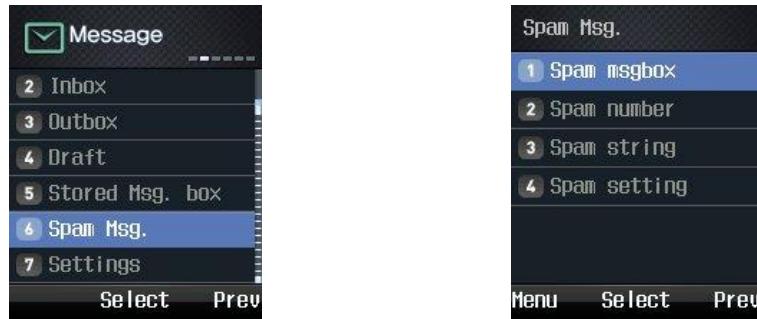
This is a function that separately preserves the messages received.

A maximum of 100 messages can be stored, and if the messages in store reach 100 in number, you should delete the existing messages to store new ones.

Select **Menu** → **Message** → **5** Stored Msg. box in turn.

## Spam Message

This is a function that intercepts unwanted messages. Select **Menu** → **Message** → **6** Spam Msg. in turn. Select your desired item using .



### Spam Message Box

It gives you the messages classified as spam. It can store a maximum of 10 messages. If the messages received are over 10, they are automatically deleted one by one starting with the oldest.

### Spam Number

Those messages coming from designated phone numbers are classified as spam. A maximum of 10 messages can be stored.

### Spam Strings

Those messages containing designated character strings are classified as spam. You can enter a maximum of 32 ones for the English Alphabet.

### Spam Setting

You can set or cancel spam interception using this function.

# Message Settings

Select **Menu** → Message →  Settings in turn.



## My Phrase

You can enter your own expressions. A maximum of 10 expressions can be stored.

## Display Type

This is a function that sets message reception indication.

It displays only the reception of messages.

You can set the details of received messages to be shown on the screen in a right way using this function.

## Alert type

You can set the interval of message reception notifications, and select one of Clear, Once, and Every 2 minutes using .

## Message Alerts

You can set message reception sound, and select bell types using .

## Save Outbox

You can set the storage of transmitted messages.

If you select Yes/No, the transmitted messages will automatically/will not be stored in the outbox

## Reset MsgBox

You can initialize message box. Enter password, select Message Box, using , and press  button.

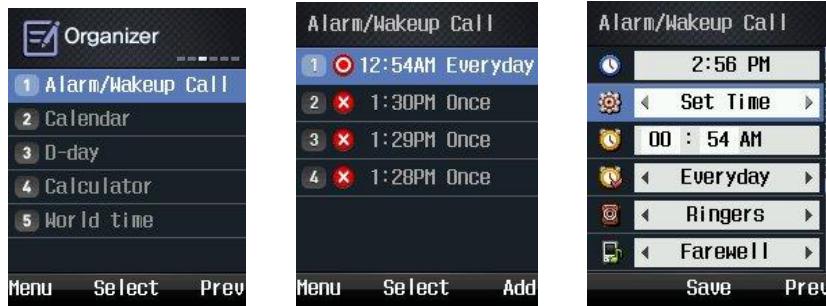


# Organizer

## Alarm/Wake-up Call

Select **Menu** → Organizer → **1** Alarm/Wakeup Call in turn.

Select **Add** for setting Alarm/Wakeup Call.



: Display the current time.

: Set alarm/wake-up calls. You can select one of Set Time, Every 10 min, Every 20 min, Every 30 min, Every 1 hour, and Clear using .

: Display set alarm/wake-up call time. If you select Set Time, users can enter their desired time themselves. Select hour/minute using , and enter time using figure buttons. You can select Morning (**AM**) and Afternoon (**PM**).

: Set alarm/wake-up call setting period. You can select one of Once, Everyday, Mon-Fri, and Mon-Sat using .

: Set alarm/wake-up call Ringers.

: Set the number of alarm/wake-up call rings.

You can select one of No repeat, 1 time, 3 times, 5 times, and 10 times using .

: Set alarm/wake-up call ring interval with the number of rings.

You can select one of every 1 min, Every 3 min, Every 5 min, Every 10 min, and Every 15 min using .

 : Enter information on alarm/wake-up calls. It allows a maximum of 20 characters for the Korean Alphabet, and a maximum of 40 characters for the English Alphabet.



 A maximum of 10 alarm/wake-up calls can be set.

Display of Selected Menu Screen

 Display the current setting status.

 Display cancels status.

**Menu** includes Add, Delete, and Delete all of Alarm/Wakeup Calls.

If you set alarm/wake-up calls,  appears on standby screen. If the set time comes, alarm bell rings, and the expression, message and current time of Alarm/wake-up Calls appears on the screen.

Press  or  and the bell sound will stop. Otherwise, if 1 minute passes, the alarm stops automatically.

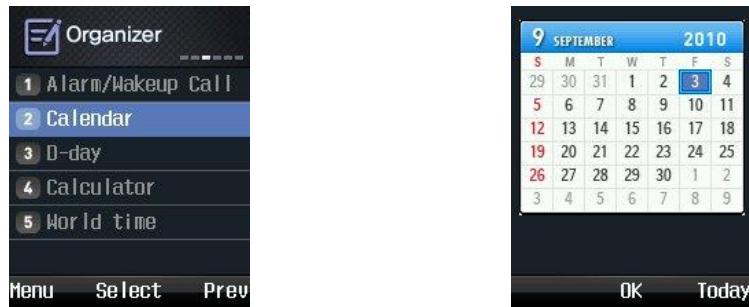
If the number of alarm/wake-up call rings was set, you can press  or , and select Cancel or Postpone Alarm using . If the newly selected time comes, alarm bell rings again.

Select **Menu** → Message →  Write Msg in turn.

## Calendar

You can select your desired date to see holiday/day and lunar date. It provides a solar calendar between January 1970 and December 2020.

Select **Menu** → **Organizer** → **2** Calendar in turn.



If you select Today, the calendar will lead you to today's date.

## D-Day

You can set your D-day.

Select **Menu** → **Organizer** → **3** D-day in turn.

You can set your D-day, selecting **Add**.



: Set a specific day.

: Enter information on D-day. You can enter a maximum of 8 characters for the Korean Alphabet, and a maximum of 16 for the English Alphabet. If you do not enter information, it is not stored.

 : Display the last D-day.

 : Display the D-day not passed.

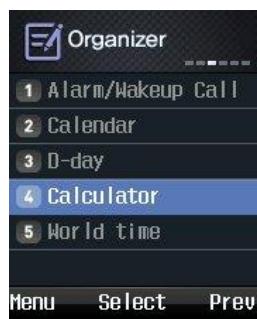
 : Display the current D-day today.

 A maximum of 10 D-days can be set.

## Calendar

You can do simple figures using this function.

Select **Menu** → **Organizer** →  Calculator in turn.



Press  button after entering figures, arithmetic signs, and figures.

- You can enter figures up to 15 digits.
- Four fundamental rules of arithmetic can be applied in a consecutive way up to 10 times.
- Press  button, and you can enter figures from the start.
- Decimal points are represented by  (a maximum of 5 digits after decimal point can be entered.)
- For negative numbers, use .

## World Time

You can read date and time around the world using this function.

Select **Menu** → Organizer → **5** World time in turn.



You can set a country and a city using  or **List**, and Set/Clear DST with **Menu**.

If you set DST,  is displayed on the cities, and set at 1 hour faster than standard time.

## Ringtone

You can set notification methods (bell sound or mute) for incoming calls.

Select **Menu** → **Sounds** → **1** Ringtone in turn.



**1** Ringers: Produce Ringers.

**2** Mute: Reception screen is displayed without Ringers.

**3** Ringing louder: Ringers become louder.

## Ring Sound Type

This is a function that sets bell sound types and volume. Select **Menu** → **Sounds** → **2** Ringers in turn.



• Types: Press or **Select** to select bell types.

• Level: Press or **Level** to set volume.

## Sound Effects

You can set various Sound effects using this function.

Select **Menu** → **Sounds** → **3** Sound effects in turn.

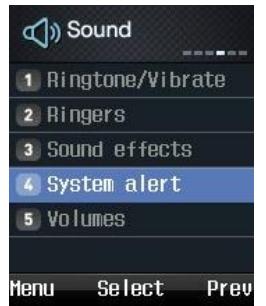


Keytone sound	Set Sound effects that are produced when users press buttons	Press  or <b>Type</b> to select Keytone sound
Keytone volume	Set Keytone volume.	Press  or <b>Level</b> to set Keytone volume
Power on Sound	Set Sound effects that are produced when turning on the power	Press  or <b>Type</b> to select Key tone sound
Power on volume	Set power-on sound volume	Press  or <b>Level</b> to set Key tone volume
Power off Sound	Set Sound effects that are produced when turning off the power	Press  or <b>Type</b> to select Key tone sound
Power off volume	Set power-off sound volume	Press  or <b>Level</b> to set Key tone volume

## System Alerts

This is a function that sets or cancels battery warning sound, alarm sound, and call area change alarm sounds

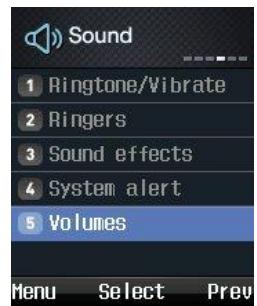
Select **Menu** → **Sounds** → **4** System alert in turn.



Low battery sound	This is a function that produces warning sounds when battery life is exhausted. Press  or <b>Type</b> to set/clear sounds
Low battery volume	Set battery warning sound volume. Press  or <b>Level</b> to set battery warning sound volume
Warning sound	This is a function of notifying that systems were set or operated. Press  or <b>Type</b> to set/clear sounds
Warning volume	Set alarm sound volume. Press  or <b>Level</b> to set alarm sound volume
Service area sound	This is a function of notifying that wireless LAN service areas have changed. Press  or <b>Type</b> to set/clear sounds
Volume of Call Area Change Alarm Sounds	Set the volume of call area change alarm sounds. Press  or <b>Level</b> to set the volume of call area change alarm sounds.

## Volumes

You can set the volume of sounds heard during calls, and control the volume of receivers using this function. Select **Menu** → **Sounds** → **5 Volumes** in turn.



Press or **Level** to set volumes.



# Screen

## Wall Paper

You can set the standby screen to photos or picture that you like.

Select **Menu** → **Screen** → **1** Wallpaper in turn.



Select screens that you like using , and press .

## Clock Calendar

You can select analogue clock, digital clock, and calendar.

Select **Menu** → **Screen** → **2** Clock /Calendar in turn.



Select your desired clock or calendar using , and press .

You can select **View** to see the current setting in advance, and change the location of clock or calendar using .

## Banner

Select the expressions to be displayed on standby screen. You can set users' own expressions or WiFi phone number to be displayed, or cancel them.

Select **Menu** → **Screen** → **3 Banner** in turn.



- Set: You can select Number, Clear, or Input text.
- Content: Enter expressions to be displayed.
- Align: You can set the location of expressions to left, center, or right.
- Font color: You can set the color of expressions to black, red, orange, yellow, green, blue, indigo, or purple.
- Background color: You can set the background color of expressions to none, black, white, red, orange, yellow, green, blue, indigo, or purple.

You can select **View** to see the current setting in advance, and change the location of expressions using .

## Set lighting

You can set the lighting of screen.

Select **Menu** → **Screen** →  Set lighting in turn.



- **LCD backlight**

LCD lighting is on for the time set, and then goes out. You can select one of 5 seconds, 10 seconds, 20 seconds, 30 seconds, 1 minute, and 3 minutes, and Always.

- **LCD brightness**

You can set LCD screen brightness to 40 %, 60 %, 80 %, or 100 %, and it has been basically set to 80 %.

- **Button lighting**

Button lighting is on for the time set, and then goes out. You can select one of 5 seconds, 10 seconds, and 20 seconds, and it has been basically set to 5 seconds.

 For power saving, the screen turns off automatically if there are no outside inputs. To turn it on again, press a random key



# Phone Setting

## Security

If you select **Menu** → **Settings** → **1 Security** in turn, password field appears.



The default user password of WiFi phones is 0000.

- If you forgot your own password after changing passwords, you should have a measure against it taken through your dealer. Be careful for the information stored in WiFi phones not to be deleted in this process.

Specific functions of phone lock are as follows.

### 1 Lock call

It asks for your password whenever you try to call.

### 2 Lock Contacts

It asks for your password whenever you try to use Contacts.

### 3 Lock message

It asks for your password whenever you try to use Message.

#### 4 Lock call history

It asks for your password whenever you try to use Call history.

#### 5 Lock PC Sync

If set to Main Lock, all information of Lock PC Sync is locked. Main Cancel is available only in Menu.

 In order to use PC Sync, change this menu from “Disable” to “Enable”.

#### 6 Lock phone

If set to Main Lock, all information of WiFi phone is locked. Main Cancel is available only in Menu.

#### 7 Change Password

You can change your password into a new one. If you forgot the new one, contact your dealer.

#### 8 Emergency Numbers

You can register emergency phone numbers at which you can call during main lock.

The following is standby screen when set to Main Lock.



If you select **Unlock**, password field appears. A correct entry of your password gives you temporary cancel mode. If the screen turns off, or you turn off and on the power, the phone enters main lock mode again.

If you select **SOS**, you can get phone numbers at which you can call on emergency.

If you press # button on standby screen, the phone enters main lock mode.

## Call block mode

Select **Menu** → **Settings** → **2 Call block mode** in turn.

If you select Call block mode, password entry field appears.

Enter phone numbers that you want to intercept.

You can enter a maximum of 3 phone numbers.

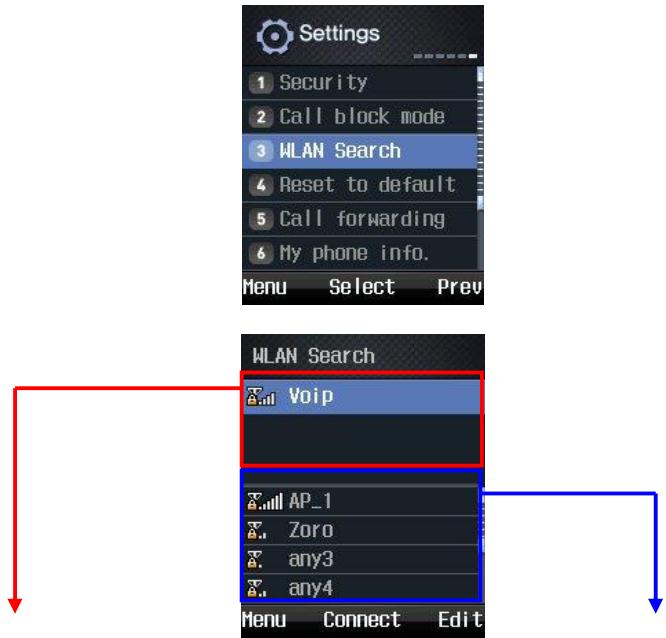


The intercepted phone numbers are shown in Call history.

## WLAN Search

Search wireless LAN services around WiFi phones.

Select **Menu** → **Settings** →  **WLAN Search** in turn, or press  and  in standby mode.



Saved profile

Search results of WiFi networks

 Have no encryption set in WiFi network

 Have encryption set in WiFi network

## Connect to new Temporary profile

It is only for the temporarily connected profile. The existing temporary profile will be disappeared if you select another temporary profile. The profile will not be remained if you are rebooting the phone.

1	Press the AP search key  to search available WiFi Access Points in Standby mode	
2	Select an access point using the direction key  and the OK key	
3	Enter security and authentication type of WiFi access point. Please refer to Security and TCP/IP	

## Reset to default

Select **Menu** → **Settings** →  **Reset to default** in turn.



If Default is selected, password entry field appears.

 Be careful since all user information including phone numbers and call information can be deleted

## Call Forwarding

WiFi phones provide a function of forwarding calls from the phone numbers hoped to be connected in users' absence or during calls.

Select **Menu** → **Settings** → **5 Call forwarding** in turn.



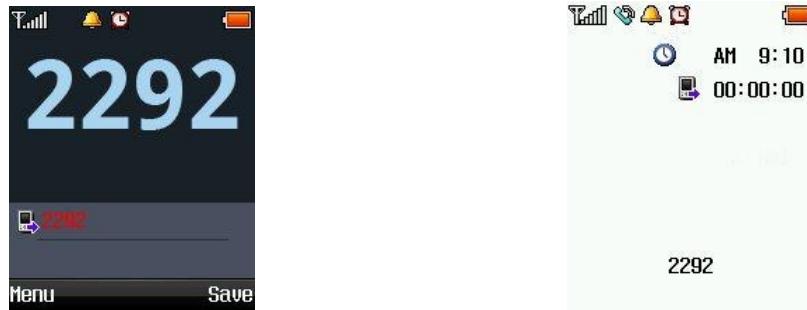
- No answer: Incoming calls are forwarded to the preset number when there has been no answer during your set time.
- Busy: Incoming calls are forwarded to the preset number when you are on another phone.
- Disable: All incoming calls are forwarded to the preset number.

**⚠** Since this is WiFi phone' internal function, the use of this function requires that its power is on.

## Call Transfer

While both parties are talking over the phone, WiFi phone provides a function of call transfer which can connect to another person.

- 1) Take a phone call from 777 phone to 2292



- 2) Push <send> button to hold and then call another number (i.e 224)
- 3) Select Menu and Transfer



- 4) 777 Phone has brought 224 phone. (2292 is still holding)  means transferring was finally accomplished.



# My Phone Information

You can see the setting information of WiFi phones.

Select Menu → Settings →  My phone info. in turn.

You can enjoy various information using .



- Phone info.

You can get phone numbers, software versions, and product MAC address.

- Network info.

You can get information such as WiFi phone's IP address, subnet mask, basic gateways, and DNS address.

- WLAN Info.

You can get information on AP connected to WiFi phones, or wire/wireless sharers.

## Time

You can set the date and time automatically and manually.

To set current time, select Menu → Settings → 7 Time in turn. 1 Current time. 2 Start timer server and if you want to set current time manually select time server Stop.



To set Time server, select 2 Time server and input the NTP Server IP address.

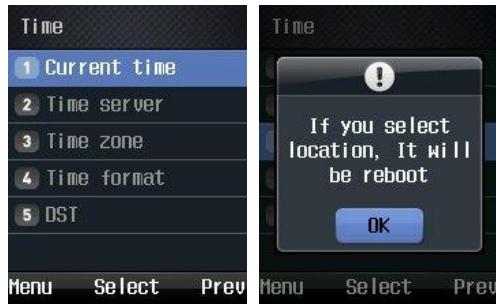


To define your time zone select 3 Time Zone and select your location of GMT.

Finally the phone will be rebooted.



To change the Time format, select 4 Time format then you can change type of date and time.



To define the Daylight Saving Time, select **5** DST and choose Disable or Enable.

After set Start time, the End time should be settled by time which is applied DST time.

After set DST time will be displayed on the screen.



## Language

You can set Language

Select **Menu** → **Settings** → **8** Language in turn.





# Appendix A

## Trouble Shooting Error Messages

Take appropriate measures as shown below if the following error messages appear on WiFi phone screen.

Error Messages		Measures
101	You have been out of service coverage.	Move to places where wireless LAN services are available, and select the function of wireless LAN search to check whether there are AP or wire/wireless sharers around.
102	Connection to AP is not available.	<p>WiFi phones use encryption key for security in wireless areas.</p> <p>If AP is not used, check whether wire/wireless sharers in use correspond to the encryption of WiFi phones.</p> <p>You can find through the process of Wireless LAN Search, Edition, and Set Encryption.</p> <p><input checked="" type="checkbox"/> Most wire/wireless sharers used by customers have been basically set to Not Use Security.</p>
103	AP has rejected connection.	If wire/wireless sharers in use have been set to Limit Connectors and the Number of Connectors, this message appears. Cancel the function of connection limitation, or connect to AP. To be connected to AP, press Wireless LAN Search, AP, and OK buttons in turn.
104	Connection to AP is not available.	Since this message appears when you are out of call coverage, move to places where AP services are available.
105	AP does not support 802.1× Certification.	Check whether wire/wireless sharers or access points in use support 802.1× Certification. If they do, check whether they have been set to 802.1× Certification. For more details, contact your dealer.
106	AP does not respond to 802.1× Message.	This message appears when wire/wireless sharers or access points fail to respond to the messages sent by WiFi phones in 802.1× Certification. For more details, contact your dealer.
107	No route certificates	This message appears when WiFi phones have been set to a certificate-based 802.1× type (TTLS, PEAP), and route certificates have not been installed in WiFi phones. Thus, route certificates should be installed in WiFi phones. For more details, contact your dealer.

Error Messages		Measures
108	Wrong route certificate	This message appears when there are problems in the route certificates installed WiFi phones. For more details, contact your dealer.
109	Failed to be connected to AP since you have wrong D or passwords (802.1×).	Check the 802.1× user account and password set in WiFi phones. You can change them by pressing Wireless LAN Search, Edit, and 802.1× Certification buttons in turn.
110	802.1× Certification has exceeded the limited time.	This message appears when time is out in renewing 802.1× certification. Try reconnection to relevant wireless LAN profiles. Still, if such a message continues to appear, contact your dealer.
111	AP has failed in 802.1× certification.	This message appears when wire/wireless sharers or access points do not support the 802.1× certification type set in WiFi phones. For more details, contact your dealer.
112	Failed in 802.1× certification for unknown reasons.	Failed in 802.1× certification for unknown reasons. For more details, contact your dealer.
201	Cannot get Internet addresses.	<p>1) Check the wire/wireless sharer in use corresponds to the encryption setting. You can check it in Wireless LAN Search, Edit, and Set Encryption.</p> <p>2) Check whether it was set to DHCP in manual IP environment. After changing to 'Enter in Person' in Wireless LAN Search, Edit, and Set Encryption, enter IP addresses, subnet masks, and basic gateways yourself.</p>
202	Internet addresses conflict with other devices.	<p>1) If WiFi phones have been set to a fixed IP, change IP addresses. Before changing IP addresses, check whether IP addresses that you want to change are used with ping command in DOS window.</p> <p>2) If WiFi phones have been set to variable IP, turn it on again after turning off the power.</p>

Error Messages		Measures
203	Wrong Internet address.	This message appears when users manually entered a wrong IP address. Enter a correct IP address in Wireless LAN Search, Edit, and Set Network.
301	Wrong Internet addresses were registered, or DNS Server does not respond	If the same message appears even after turning off the power and turning it on again, contact your dealer.
302	Failed to register with the Internet (unauthorized).	If the same message appears even after turning off the power and turning it on again, contact your dealer.
303	Failed to register with the Internet (user registration denied).	If the same message appears even after turning off the power and turning it on again, contact your dealer.
304	Failed to register with the Internet (users not found).	If the same message appears even after turning off the power and turning it on again, contact your dealer.
305	Failed to register with the Internet (for unknown reasons).	If the same message appears even after turning off the power and turning it on again, contact your dealer.
401	Internet connection difficulties	Check whether WiFi phones have been connected to AP. You can check wireless LAN connection and network conditions using  in <b>Menu</b> , Settings, and  <b>My phone info</b> .
402	Phone information repeatedly registered	If the same message appears even after turning off the power and turning it on again, contact your dealer.
403	Phone information unregistered	If the same message appears even after turning off the power and turning it on again, contact your dealer.
405	Encryption keys are in discord.	After finding the version of your WiFi phone, contact your dealer. You can check your phone version in <b>Menu</b> , Settings, and  <b>My phone info</b> .
406	Failed to register with the Internet.	If the same message appears even after turning off the power and turning it on again, contact your dealer.



# Appendix B

## Before going to Service Center

### **WiFi phone cannot start**

- Check whether it is correctly installed.
- Check whether battery is fully charged.
- Press the power button of WiFi phone.
- If it shows no response to that, remove battery, and install it again.

### **Newly purchased WiFi phone does not work**

- Check whether it is correctly installed.
- Check whether it is connected to AP.

You can check it in **Menu**, Settings, and My phone info. and WLAN Info.

- Check whether it shows any error messages when the power of WiFi phone has been turned off and on.
- Check whether battery is fully charged.

### **WiFi phone shows poor call condition during calls**

- Check whether it is too far from AP.
- Electric waves might have become weak due to obstacles such as walls, or electro magnetic disturbance might have taken place. Turn off the power of AP, and on again in 3 seconds.
- If volume is low, adjust it properly using .

### **The screen of WiFi phone is not clearly shown**

- Adjust brightness using **Menu**, Screen, Set lighting, and LCD Brightness.

### **WiFi phone bell does not ring**

- Check whether phone is correctly installed.
- Check whether wireless LAN information includes the name of the LAN in **Menu**, **Settings**, and  **My phone info..**
- Check whether WiFi phone battery has been charged.
- Check whether it is set to Mute in **Menu**, **Sounds**, and  **Ringtone** .

### **WiFi phone has charging troubles**

- Check if charger interface is clean.
- If charging troubles continue to take place, contact your dealer.

### **Calls Are Not Made**

If calls are not made on WiFi phones after installing AP, check Internet connection, and then the following.

#### **If WiFi phone screen displays and If WiFi phone displays **If WiFi phone screen displays If 60****

**Battery Keeps turn-off and Lamp on the charger flickers, check the following:**

The battery is full, but the phone keeps turn-off?	Separates the battery from the phone, and then, re-fits into the phone and turns it on. If it still turns off? Then, clean a contact terminal, re-fits into the phone and turns it on.
Lamp on the charger flickers?	Separates the battery from the charger, and then, re-fits into the charger. If it still flickers? Then, clean a charging terminal and charge the battery. (If the lamp doesn't stop flickering, apply to the service center.)
DO NOT USE chemicals or detergent when you clean an alien substance on a phone or charger. Cleans it out of an eraser or a soft patch only.	Clean Battery procedures 