User Manual

FreeStyl SIP
Long-Range SIP Cordless Phone

EnGenius Customer Service
http://www.engeniustech.com/

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Safety Instructions

> **Caution**: *Your wireless telephone gives you freedom and flexibility to stay in touch while you move around. However, when using your phone equipment, safety instructions should be followed to avoid the risks of fire, electric shock, injury to person, and damage to property.*

General Safety Instructions

1. When using your wireless phone, ensure your safety and the safety of others:
   a. Always watch where you are walking and standing.
   b. Do not let a phone call distract you from working safely.
   c. If power goes out, your phone will not work. Backup power is recommended.
2. In an emergency:
   a. If an emergency occurs, dial the emergency phone number. Remember: if you are in an area where your phone does not have a clear signal from the base, it is highly probable that the call may not go through. Locate the nearest landline telephone or other communications device to call for help.
   b. Emergency calls may not automatically provide emergency personnel with your name, phone number or location.
3. Notice to Hearing Aid Users: This phone system is compatible with inductively coupled hearing aids.
4. Notice to Cardiac Pacemaker Users: Preliminary studies done by the US FDA and others have shown that, although interference to the implanted cardiac pacemaker may occur when operating very closely, wireless telephones "do not seem to pose a significant problem for pacemaker wearers." However, until more is known, the FDA suggests that people with pacemakers may want to take precautions when using or carrying a wireless telephone to ensure that there is ample distance between the telephone and the pacemaker. Do not carry the handset in a breast pocket. If you have any reason to suspect that interference is taking place, turn off your handset immediately.

Product Safety Instructions

1. Read and understand all instructions.

2. Follow all warnings and instructions including those marked on the product.
3. Changes or modifications to this product not expressly approved by the manufacturer will void the warranty and the FCC authorization to operate the equipment. Use only manufacturer provided accessories.
4. Do not use the telephone near water. Never spill liquid of any kind on this product.
5. Unplug the product from the wall telephone jack and power outlet before cleaning. Do not use liquid or aerosol cleaners. Use damp cloth for cleaning.
6. Do not place this product on an unstable cart, stand, or table. The product may fall and cause personal injury or damage to the product or other property.
7. Power Outage: In the event of a power outage, your handset charger will not recharge the handset battery, and the base station will not allow you to make an outgoing call or take an incoming call. Both the charger and the base station require electricity for operation. You should have a telephone that does not require electricity available for use during power outages, or have a temporary backup power supply.
8. Slots or openings in the product's housing are provided for ventilation. These openings must not be blocked or covered. Placing the product on a bed, carpeting, or other similar surface may block these openings and should be avoided. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
9. Never push objects of any kind into this product through housing slots/openings as they may damage the product, touch dangerous voltage points or short out parts that could result in fire, electric shock, or injury.
10. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
11. Do not overload wall power outlets and extension cords as this may result in fire or electric shock.
12. To avoid electric shock or burn, do not disassemble this product. Send this product to an authorized service center when service or repair work is required. Call Customer Service for locations near you. Opening or removing covers may expose you to dangerous voltages, electrical currents or other risks. Incorrect re-assembling of the product may cause electric shock when the product is subsequently used.
13. Avoid using the product during a storm. There may be a risk of electric shock from lightning.
14. Do not place the product where persons can step, trip, or fall on it.

15. Do not place conductive objects over or near the antenna.

16. Do not use the product to report a gas leak while in the vicinity of the leak.

17. Do not install the base station or the handset charger near microwave ovens, radios, TV sets, speakers, or other electrical equipment. These appliances may cause interference to the product or experience interference from the product.

18. Unplug the base station or the charger adaptor from the power outlet and refer to an authorized service center under the following conditions:

    a. If liquid has been spilled into the product.
    b. When the power supply cord or plug is damaged or frayed.
    c. If the product has been exposed to rain or water.
    d. If the product does not operate normally by following the operating instructions.
    e. If the product has been dropped or housing has been damaged.
    f. If the product shows a distinct change in performance.

Battery Safety Instructions

1. Use only manufacturer approved Li-Ion rechargeable batteries and charger. Do not use other types of rechargeable batteries or non-rechargeable batteries. The batteries could short-circuit, and the battery enclosure may be damaged causing a hazardous condition.

2. Follow the charging instruction in this manual and instruction labels and markings in the handset and charger compartments.

3. Battery must be recycled or disposed of properly. Do not dispose the battery in a fire. The cells may explode.

4. Do not dispose of the battery in municipal waste. Check with local codes for disposal instructions.

5. Exercise care in handling the batteries so you do not short-circuit the battery with conductive materials such as rings, bracelets, keys, pocketknives, and/or coins. The battery or conductive material may overheat and cause burns or fire.

6. Do not expose batteries to rain or water.

7. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause injury to eyes or skin. The electrolyte may be toxic if swallowed.

8. During charging, the battery heats up. This is normal and is not dangerous.

Regulatory Information

> **FreeStyl SIP**
> **FCC ID: A8J-FREESTYLSIP**
> **IC: 10103A-FREESTYLSIP(Handset)**
>   **10103A-FREESTYLSIB(Base Station)**
>
> 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.
>
> Privacy of communications may not be ensured when using this phone.

Base Station
Federal Communication Commission Interference Statement

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.
IMPORTANT NOTE:

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

Industry Canada Statement:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). 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.

Déclaration d'Industrie Canada :
Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes :
(1) Cet appareil ne doit pas provoquer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant provoquer un fonctionnement indésirable.

IMPORTANT NOTE:
Radiation Exposure Statement:
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device has been designed to operate with a dipole antenna having a maximum gain of 2dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Déclaration d'exposition aux radiations:
Cet équipement est conforme aux limites d'exposition aux rayonnements IC définies

pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

Cet appareil a été conçu pour fonctionner avec une antenne dipôle ayant un gain maximum de 2dBi. Une antenne ayant un gain plus élevé est strictement interdite par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Portable Handset
Federal Communication Commission Interference Statement
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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

IMPORTANT NOTE:
Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF

exposure compliance requirements, please follow operation instruction as documented in this manual.

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

Industry Canada Statement:
This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). 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.

Déclaration d'Industrie Canada :
Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS sans licence d'Innovation, Sciences et Développement économique Canada. L'exploitation est soumise aux deux conditions suivantes :
(1) Cet appareil ne doit pas provoquer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant provoquer un fonctionnement indésirable.

IMPORTANT NOTE:
Radiation Exposure Statement:
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This device has been designed to operate with a dipole antenna having a maximum gain of 2 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Déclaration d'exposition aux radiations:
Cet équipement est conforme aux limites d'exposition aux rayonnements IC définies pour un environnement non contrôlé. Les utilisateurs finaux doivent suivre les instructions d'utilisation spécifiques pour satisfaire la conformité à l'exposition aux RF. Pour maintenir la conformité aux exigences de conformité d'exposition aux RF d'IC, veuillez suivre les instructions d'utilisation décrites dans ce manuel.

Cet appareil a été conçu pour fonctionner avec une antenne dipôle ayant un gain maximum de 2dBi. Une antenne ayant un gain plus élevé est strictement interdite par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

FCC & ISED SAR body worn accessory warning statement
For body worn operation, this device has been tested and meets the FCC & ISED RF exposure guidelines for use with an accessory that contains no metal and be positioned a minimum of 10 mm from the body. Use of other accessories may not ensure compliance with FCC & ISED RF exposure guidelines. If you do not use a body-worn accessory and are not holding the device at the ear, position the handset a minimum of 10 mm from your body when the device is switched on.

Déclaration d'avertissement sur les accessoires portés sur le corps de la FCC & ISED SAR
Pour un fonctionnement porté sur le corps, cet appareil a été testé et répond aux directives d'exposition RF de la FCC & ISED pour une utilisation avec un accessoire qui ne contient pas de métal et doit être placé à au moins 10 mm du corps. L'utilisation d'autres accessoires peut ne pas garantir la conformité aux directives d'exposition RF de la FCC & ISED. Si vous n'utilisez pas d'accessoire porté sur le corps et ne tenez pas l'appareil à l'oreille, placez le combiné à au moins 10 mm de votre corps lorsque l'appareil est allumé.

Equipment Checklist

1. In a Base + two Handset package, please find the following components:
   a. Base Station x 1 (antenna installed)
   b. Base AC/DC Adaptor x 1
   c. Handset x 2 (antenna installed)
   d. Desktop Charger x 2
   e. Charger AC/DC Adaptor x 2
   f. 1100mA Li-ion Battery Pack x 2
   g. RJ-45 cable x 1
   h. Quick Guide
   i. Belt clip x 2

2. In a Handset package, please find the following components:
   a. Handset x 1 (antenna installed)
   b. 1100mA Li-ion Battery Pack x 1
   c. Desktop Charger x 1
   d. Charger AC/DC Adaptor x 1
   e. Quick Guide
   f. Belt clip x 1

Re：
   • SIP Cordless Phone → Model no： FreeStyl SIP/FreeStyl SIP2
   • SIP Cordless Handset → Model no： FreeStyl SIP HC
   • SIP Base → Model no： FreeStyl SIP B/U

Handset Illustration

Speaker

(2.5mm)
Headset Jack

Battery Cover
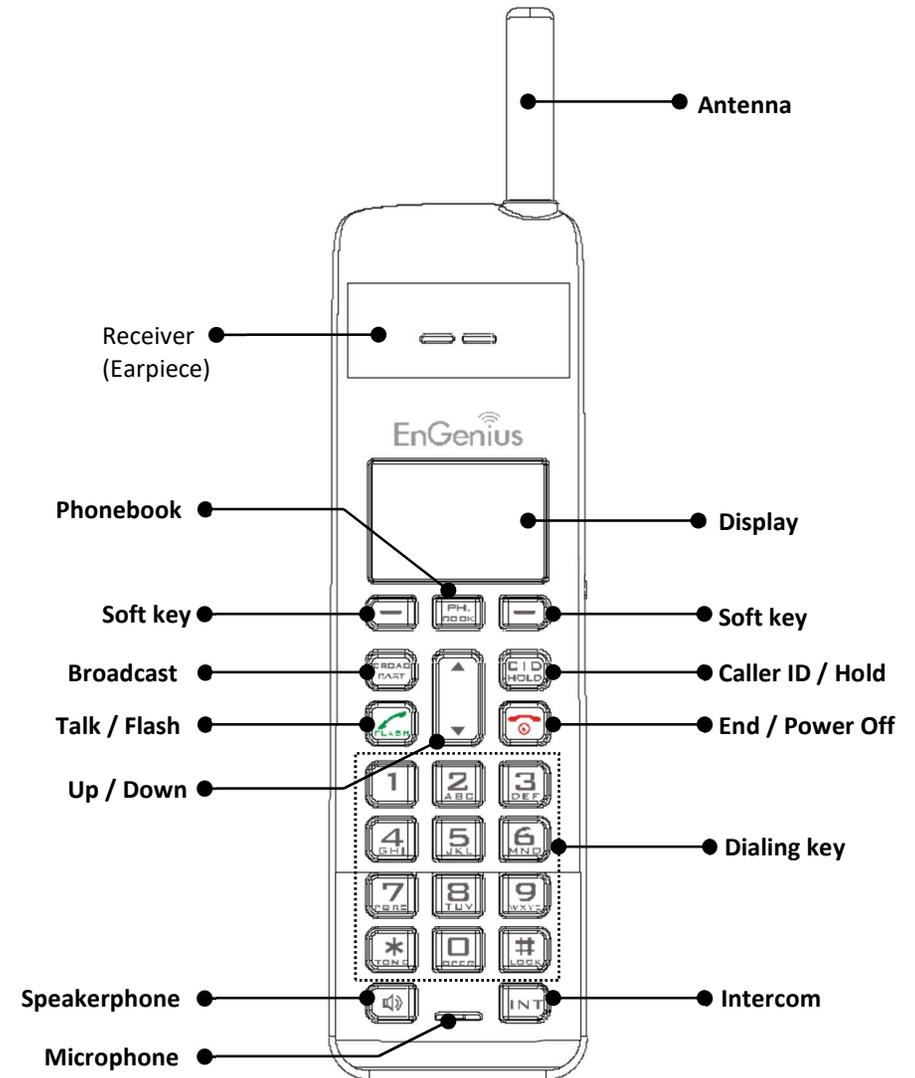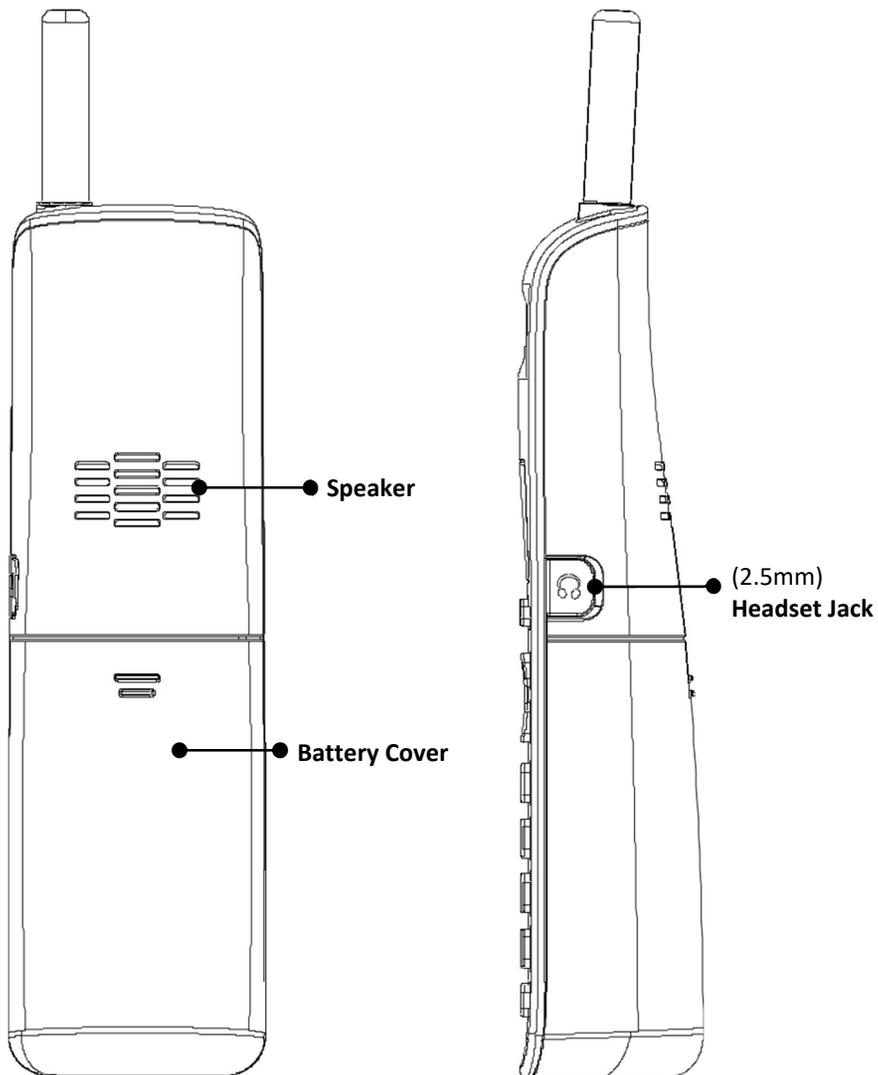
Handset Features

Basic Handset Features

1. 4-Line LCD (Liquid Crystal Display)
    a. The LCD display has LED (Light Emitting Diode) for backlighting.
    b. The 1st line of LCD consists of icons.
    c. Icons explanation from left to right
        (1) **RSSI** level (Receive Signal Strength Indicator)
             During a call, the number of bars is proportional to the radio signal strength received.
        (2) **Link mode**
             (2.1) Call in-progress (ON/OFF-Hook)
             Indicates if the phone line is in the OFF-Hook status.

             (2.2) Intercom in-progress
             Indicates if Intercom mode is active.
             Indicates the Handset ID that is sending the intercom call.
        (3) **Line, Sound and Indication**
             (3.1) Line Indicator
             Indicates when using line 1 or the incoming call from FXO line.
             (3.2) SIP Indicator
             Indicates when using SIP or the incoming call from SIP.

             (3.3) Enable ringer

             (3.4) Disable ringer

             (3.5) Ringer and vibrate mode

             (3.6) Vibrate mode

             (3.7) Message waiting indicator
        (4) **Disable PA and indicate speaker phone**
             (4.1) Indicates if the incoming broadcast is disabled.
             (4.2) Speaker indicator
             Indicates if the speakerphone is active.
        (5) **Two-Digit Handset ID**
             11 Displays the 2-digit Handset ID of owner.
        (6) **Battery Strength**
             Number of bars is proportional to the amount of battery time remaining.
    d. The 2nd and 3rd lines of the LCD, maximum 16-characters each, display status, message, menu selections, or user-editable alphanumerical characters.

e. The last line displays the left and right soft keys.

2. Ringer
   a. Rings to an incoming call and intercom call.
   b. Distinctive alert sounds indicating various events:
      (1) Single beep: successful key entry.
      (2) Double beep: indicates power on/off.
      (3) Triple beep: failed operation.
      (4) Periodic 1-Long 2-Short beeps (every 1 minute): low battery warning; out of range; call on hold.
      Re: No beep: invalid key entry.

3. TALK/FLASH ( )
   a. Places or answers a telephone or intercom call.
   b. Sends a Flash signal to the phone line to retrieve a dial tone after the call ends, or to perform the Call Waiting feature provided by local phone companies during a call.

4. SPEAKERPHONE ( )
   Press and hold the key for over 2-seconds to enable/disable the speakerphone during incoming, outgoing or intercom call.

5. 2-WAY INTERCOM ( )
   a. Places an intercom call to another handset, a group handset (group paging) or all registered handsets.
   b. Intercom calls are digital, full duplex, and are conducted without the assistance of the base station.

6. BROADCAST ( )
   a. Half duplex broadcasting to handsets for immediate announcement.
   b. Half duplex broadcasting to base stations.
   Re：Press the key on the left top corner of the handset to activate the broadcast function.

7. Left/Right Soft Keys ( )
   a. Make menu selection.

8. Up ( ) /Down ( ) Scrolling Keys
   a. Scroll through records and menu selections.

b. Adjust receiver voice volume when in the Talk mode.
c. Press to enter received call log when in the Standby mode.
d. Press to enter phonebook when in the Standby mode.

9. END; On/Off Key ( )
   a. Ends a call.
   b. Leaves current menu operation, up one level.
   c. Press for 3-seconds to turn off the power.

10. CALLER ID Key ( )
    a. Review caller ID list.
    b. Including received and missed caller ID.

Additional Handset Features

1. Multiple Handsets Registration
   a. Up to 10 handsets can be registered to a base station.
   b. ID 10-19: Individual Handset IDs.
   c. ID 1~7: Group IDs. Handsets can "subscribe" from the handset menu to group(s) and be paged when a landline caller or an intercom caller enters a Group ID.

2. Ringer Vibrator
   a. Two (2) options for Line (incoming call) ringing and intercom ringing.
   b. Six (6)-level ringer volume selections (Off/Low/Medium/High/Vibrate/Vibrate & High) for each option.
   c. Eight (8) ringer type selections for each option.

3. Caller ID
   Displays incoming call phone number and name on the LCD (needs Caller ID service from local telephone company).

4. Call Waiting with Caller ID
   Displays 2nd incoming call information on the same phone line when 1st call is in progress (needs Call Waiting with Caller ID service from local telephone company).

5. Name Tagging with Caller ID
   Match the Caller ID with the phone book entries; once matched, the LCD screen will display the name or nickname instead of pure Caller ID info (needs Caller ID service from local telephone company).

6. DND (Do Not Disturb, i.e., Silent Ring)

7. Call Logs
   a. Redial: Stores 10 phone numbers (up to 26-digits each) dialed most recently. Can perform last-number redial on all 10 numbers.
   b. Received and New Call Log: Total 50-entries (16-digit phone number, 16-character names, and Date/Time stamp), needs Caller ID service from local telephone company.
   c. Phone numbers and names can be saved into phone book while in display.

8. Call Manager: Includes: blocking incoming call, outgoing call and assign line dedication, line selection.

   a. Incoming Call:
   a-1. PA On/Off: Enable or disable the Broadcast feature from other handsets or the base station. When PA is Off, the handset cannot receive Broadcast calls from the base station or other registered handsets, but it can Broadcast to the base station or other registered handsets.

   a-2. Line On/Off: Enable or disable the ability to receive incoming calls from telephone line call. When Line is Off, the handset cannot receive incoming calls from a telephone line call, but it can still make outgoing calls.

   a-3. Int. On/Off: Enable or disable the Intercom from other handsets or the base station. When Int. is Off, the handset cannot receive Intercom calls from other registered handsets, but it can Intercom to other registered handsets.

   b. Outgoing Call
   Select the mode of line selection (Auto/Manual/Predefine line/Off) when you make a line call.
   b-1. Auto: A handset will select one of available lines from subscribed bases before making an outgoing call. (Default)

   b-2. Manual: A handset will be prompted to select from a list of available lines before making an outgoing call. (1 for telephone line, 2 for SIP call)

   b-3. Off: Disable the capability to make an outgoing call.

   c. Call Barring
   c-1. Block users from dialing long distance or international calls.
   c-2. Up to 5-digits of each Call Barring setting, up to 5-entries allowed. Changing requires you to enter the "Call Settings" (MENU-4-3).

   Note: You must key in the accurate user ID and password to perform this feature. The default password is "0000."
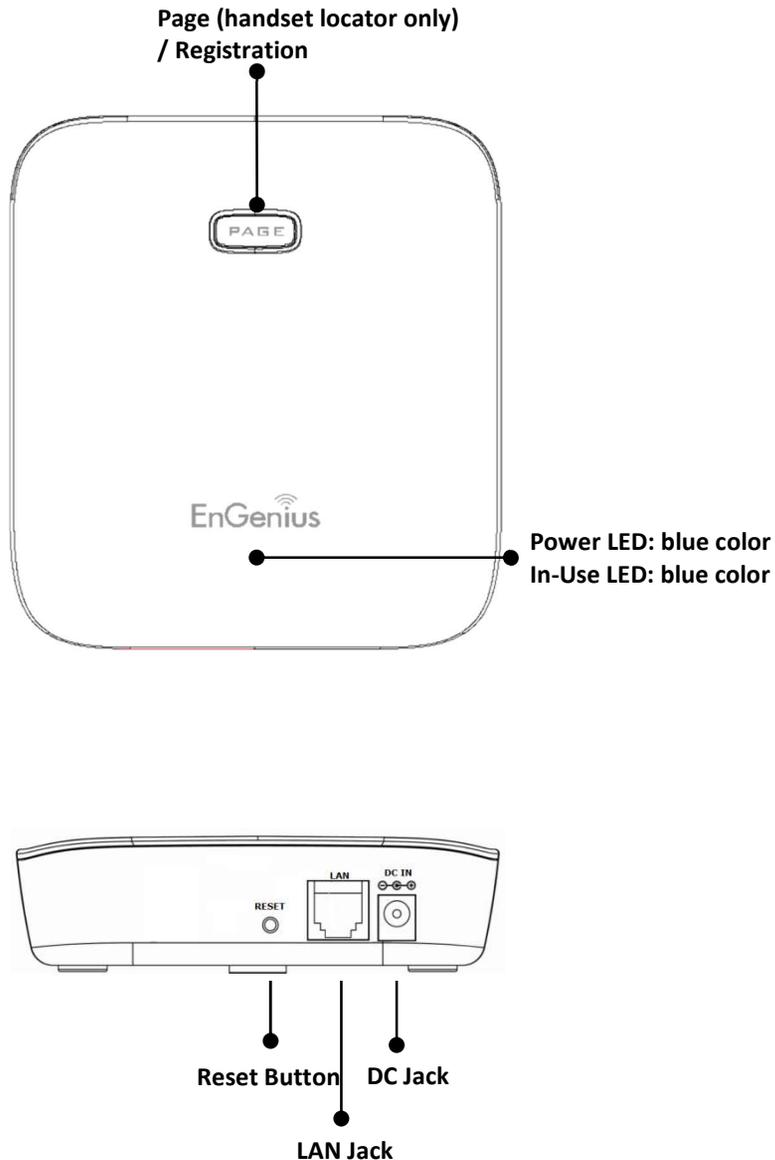
9. Any Key Answer (except 📞 and SILENT soft Key)
   a. If you enable Any Key Answer while you have two incoming line calls simultaneously, you can answer the SIP call or PSTN call by pressing 🔽 the scrolling key.

10. KeyGuard
    a. When the KeyGuard is selected, all keys will be locked.
    Press UNLOCK (Left) soft key followed by ✱ to release it.
    b. The KeyGuard will be automatically enabled once returning back to idle mode for 15-seconds.

11. Dialing Prefix
    a. Up to 14-digits, including pause(s), one access code can be pre-programmed to be added automatically in front of the dialed number when dialing from call logs, phone book, and dial-and-send dialing.

12. Call Hold
    a. Places call on hold.

13. Mute
    a. Press MUTE (Left) soft key during talk, the handset microphone will be muted.
    Press UNMUTE (Left) soft key to release it.

14. Phone Book
    a. 50-entries, each stores a phone number or handset ID (up to 26-digits) and name (up to 16-characters).
    b. Alphabetically sorted display and search by letter.

c. Dial from display.

d. During the stand-by mode, you can enter the phone book by pressing ▽ the scrolling key.

e. Phone Book transfer via air
   i. Transfer a specific Phone Book to one handset or all registered handsets
   ii. Transfer all Phone Books to one handset or all registered handsets

15. Key Tone
    a. Four-level Key Tone volume selections (Off/Low/Medium/High).
    b. Four Key Tone type selections.

16. Call Timers
    a. Displays call time duration for current call, during and immediately after the call.

17. Programmable Feature Call
    a. Allows user to pre-program the most frequently used Feature codes into the FreeStyl SIP, which is adjunct to the PBX system.
    b. Up to 10-entries can be saved.
    c. Once the feature code has been programmed, you can quickly perform those functions during the call by pressing the OPTION soft key.

18. Menu Display
    a. To avoid mis-setup in the "Call Settings"(MENU-4), "Phone Settings" (MENU-5), and "Base Settings" (MENU-6), these settings can be hidden.
    b. The Handset password is required before entering Menu Display (MENU-8), the default handset password is "0000."
    c. When disabling the settings, they will no longer be displayed unless enabled by entering Menu Display again.

19. PA On/Off
    a. Enable or disable the Broadcast function.
    b. When PA is Off, the handset cannot receive Broadcast from the base station or other registered handsets; but it can broadcast to other registered handsets.

20. Group Setting
    a. Allows the handset to subscribe to one or several groups.
       Re: Up to 7 groups (1~7) can be subscribed.

21. Custom Name
    a. Change the "FreeStyl SIP" screen to the desired wording or info, such as the handset user's name.
       Re: Up to 32-characters can be entered.

22. Change Pwd
    a. MENU -5 (Phone Settings)-8 (Change Pwd), enter original password (default： 0000), then enter new password.

23. DTMF Duration (from web)

24. Programmable Flash Key Timing (from web)

25. Assign Next Handset ID for New Handsets
    a. Use a registered handset from MENU-6-1 to assign a Next Handset ID to a new handset.
    b. If you do not assign Next Handset ID, the system will automatically assign a handset ID to a new handset.
    c. When entering the Base Settings, a PIN is required. The Default is "0000."

26. Clear Handset
    a. Use a registered handset from MENU-6-2 to remove the other registered handset, in case the other registered handset is defected.
    b. Once the other registered handset is clear, the user is able to register a new handset in its place.
    c. When entering the Base Settings, the PIN is required. Default is "0000."

27. Change PIN
    To change the base PIN, enter the "Base Settings" (MENU-6-3).
    a. Use a registered handset to change the PIN from MENU-6-3.
    b. The default PIN is "0000."
    c. When entering the Base Settings, the PIN is required. The default PIN is "0000."

28. Mic Gain
    Change the handset microphone gain based on the handset's use in different environments – Quiet, Normal and Noisy environment.
    a. This requires entering the "Phone Settings" (MENU-5-1).

29. Headset Ring
    Change the ringer emitting either from the handset speaker or the headset receiver.

a. This requires entering the "Phone Settings" (MENU-5-8).

Base Illustration

Page (handset locator only)
/ Registration

PAGE

EnGenius

Power LED: blue color
In-Use LED: blue color

RESET   LAN   DC IN

Reset Button   DC Jack

LAN Jack

Base Features

Basic Base Station Features

1. Antenna
   a. The antenna port has a **reversed thread connector**; to remove antenna or cable, turn clockwise; to install, turn counterclockwise. Improper installation may damage the connector.
   b. When using an outdoor antenna, locate the antenna (not the base station itself) as high as possible for a clear transmission path.

2. LED
   a. Power /Standby (blue color): indicates base station has power.
   b. In-Use (blue color): indicates an active SIP call.
   c. Registration (white color): indicates base in registration mode.
   d. Page (white slow blinking): indicates base is paging handset.
   e. Inbound call (white fast blinking): indicates an inbound call is ringing.

3. RESET Button
   a. Restores base station to factory settings
   b. Reset button is intended to prevent accidental system reset.
   c. All handsets (including administrator) need to be re-registered after a base station reset.

4. Page Button (Locate handset)
   To find a misplaced handset; press "PAGE" and all registered handsets will beep for 30 seconds.
   Press "PAGE" again or any key on handset to stop.
   Re: "PAGE" is for locating handset only, not able to make intercom with handset.

5. Registration Button (PAGE)
   Enters registration mode along with handset, assigns handset ID (10-19).

6. LAN Jack
   Standard RJ-45 connector to plug in the Ethernet(LAN) line

7. DC In: to plug in the power adaptor

Charger Illustration

● **Handset charging slot**
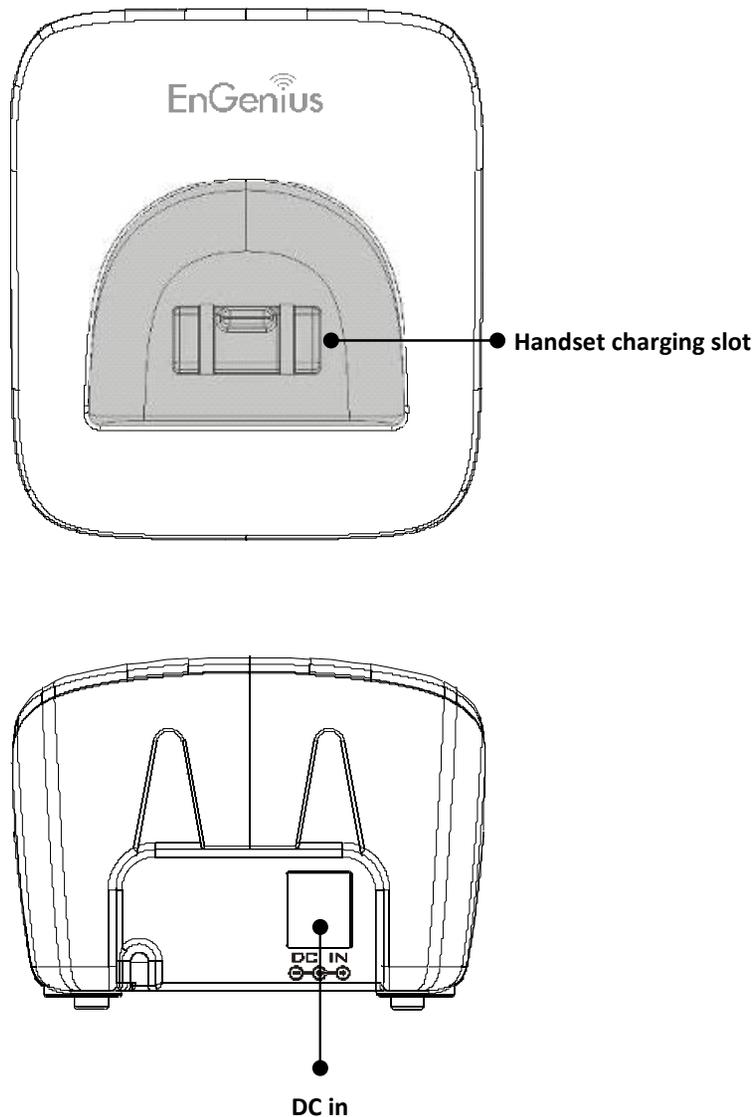
DC in

Charger Features

1. DC In
   Connects to Charger AC Adapter.

2. Handset Charging Slot
   a. Charges handset battery when handset is placed in the cradle.
   b. Refer to the handset LCD for charging status.
      (1) Charging: battery status bar is running and the LCD screen shows: "Charging."
      (2) Fully Charged: battery status bar stands still and the LCD screen displays "Charge Complete."
      (3) Charge Fail: If an error occurs during charging mode, the LCD screen will display "Charge Fail."

3. It is impossible to overcharge the battery using this charger.

> **Notes:**
> 1. Fully charge battery packs before first use.
> 2. Handset will "power on" automatically when placed on the charging slot.
> 3. However, if you drain the battery completely, it will take approximately one minute for the handset to auto power on.

Getting Started

Base Station Installation

1. Plug the transformer end of the base station AC/DC adapter into a standard AC electrical power outlet, plug the other end into the "DC In" jack on the back of the base station.

2. Plug the Ethernet cord into the LAN jack.

   PS: For SIP configuration, please see page 54.
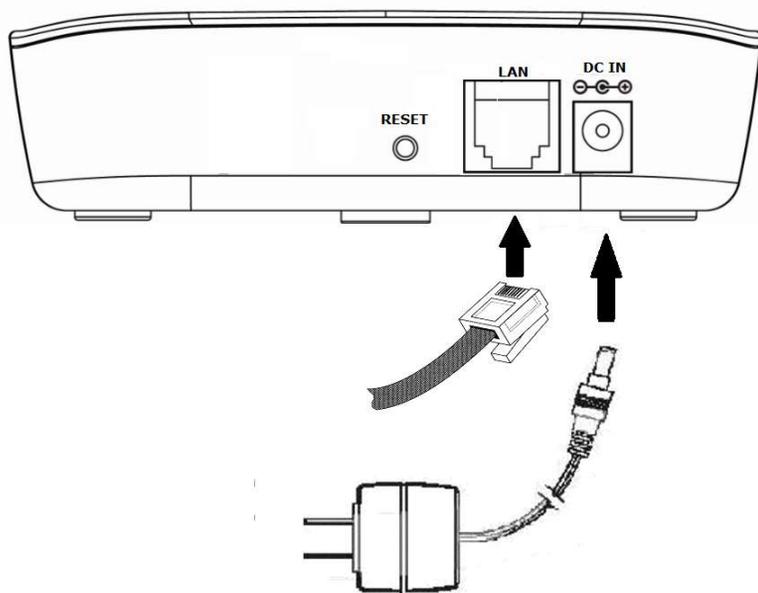
Handset and Charger Installation

1. Plug the transformer end of the Charger AC/DC adapter into a standard AC electric power outlet, plug the other end into the "DC In" jack on the back of the Charger.

2. Install the battery pack onto the handset.
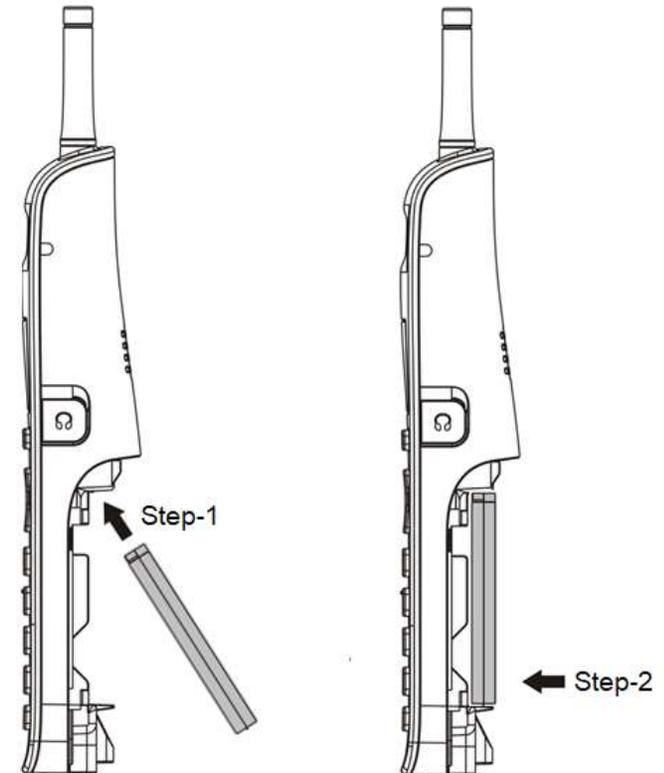
3. Make sure handset antenna well installed.

4. Place the handset onto the charger slot.

5. Fully charge the battery for four hours before use.

6. The phone system is now ready to perform basic functions such as making and receiving phone calls and intercom calls. No base station or handset programming is needed for basic operations.

> **Note:**
> 1. Handset(s) packaged along with a Base Station are pre-registered at the factory. If you have a new handset, you will need to register the handset with the base station in order to be recognized as a member handset by the base(s) and by other handsets. See Handset Registration.
> 2. Fully charge battery packs before the first usage.

Basic Operations

Operation Modes

Both the base station and handset have feature levels that can only be accessed when in certain modes.

A. Base Operation Modes
1. **STANDBY mode**- this is the default mode. The page key is active in standby mode only. The base "Power" LED will light up during this mode.

2. **TALK mode**- the base station operates in this mode during a phone call. The "In Use" LED will light up only for a FXO call.

3. **REGISTRATION mode**- the base station enters this mode by pressing and holding the REG button for 3-seconds. The INTERCOM LED will be blinking in "Registration" mode, and a prompt sound will be emitted.

B. Handset Operation Modes
1. **STANDBY mode**- this is the default mode.
    a. If there is no on-going activity, the handset automatically goes into SLEEP/STANDBY mode to save battery power.
    b. The handset can be turned off completely by holding down the ⌽ key for 3-seconds.
    c. The standby screen display (custom name) can be edited.
    d. The 2-dight number represents the handset ID.

2. **MENU mode**
    a. Press the (Right) soft function key to activate Menu mode.
    b. In Menu mode, the handset settings and information contained in the memory can be changed.
    c. The functions available through the Menu selection are covered in greater detail starting on page 63.
    d. The Menu structure display as below:

3. Menu Tree

Menu
- **1.KeyGuard**
- **2.PhoneBook**
- **3.Sounds**
  - 1.Ring Volume
  - 2.Ring Tone
  - 3.Key Voulme
  - 4.Key Tone
- **4.Call Settings**
  - 1.Dial Prefix
  - 2.Group Setting
  - 3.Call Manager
    - Incoming
      - 1.PA On/Off
      - 2.Line On/Off
      - 3.Int. On/Off
    - Outgoing
      - 1.Auto
      - 2.Manual
      - 3.Off
    - Call Barring
  - 4.Feature Call
- **5.Phone Settings**
  - 1. Mic. Gain
  - 2.Any Key Talk
  - 3.Contrast
  - 4.Backlight
  - 5.Name Tag
  - 6.Language
  - 7.Custom Name
  - 8.Change Pwd
  - 9.Headset Ring
- **6.Base Settings** — Enter Base PIN:----
  - 1.Assign Next HS
  - 2.Clear HS
  - 3.Change PIN
- **7.Registration**
  - 1.Register
  - 2.Deregister
  - 3.Remote REG
    - 1.Call Setting
    - 2.Phone Setting
    - 3.Base Setting
- **8.Menu Display** — Enter Password ----

Making a Telephone Call

1. Press [FLASH], wait for dial tone, then enter the phone number.

2. Alternatively, you can enter the phone number first, then press [FLASH] key.
   When using this method, you can use the CLEAR (Left) and DELETE (Right) soft keys to edit the number entered. "Delete" erases the last digit entered. "Clear" erases the entire line but remains in the dial-and-send dialing.

3. **Speed dial** by accessing the entries in the phone book. (Menu→2)
   a. Press [▲] or [▼] scrolling key to enter the phone book.
   b. Press [FLASH] to dial the number.

4. To abort dialing, press [☎] key.
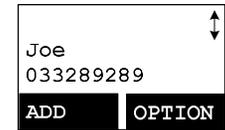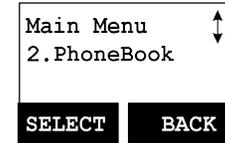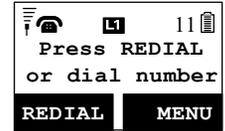
> **Notes:**
> 1. If a link cannot be established, the LCD will show "Base not found" after a 6-second time out.
> 2. A call duration timer will start displaying the length of the call after a link is established.

Making a 2-Way/ Intercom Call

The FreeStyl SIP Cordless Phone System offers private, Intercom/ 2-Way Radio calls independent of the base station. Intercom/ 2-Way communication can be placed between handsets.

1. Press [INT] key followed by a two-digit handset ID or Group ID.

```
Enter Ext #:
##


BASE      PHBOOK
```
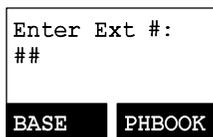
2. Press [📞] key to end the call.

3. **Speed dial** by accessing the entries(2-digit ID) in the phone book. (Menu→2)
   a. Press [▲] or [▼] scrolling key to enter the phone book.
   b. Press [INT] to dial the 2-digit number.
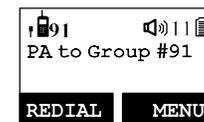
```
Notes:
   1.  Intercom calls can be made regardless of the Base Station being
       present.
   2.  If a Group ID is entered, the first handset (belonging to that
       group) that answers will establish a link with the caller.  See
       Handset Group Subscription.
   3.  If a link cannot be established, the LCD shows "Paging timeout"
       after a 35-second time out.
```

Making a Broadcast

Handset-to-Handset Calls

1. Broadcasting to all handsets
   a. Press and hold [BROADCAST] key from one handset.

```
PA to ALL


REDIAL      MENU
```

   b. Start speaking the broadcast message once you hear the key tone; the speakerphone of destination handsets will open when it receives the voice.

      Re: the initiating handset needs to press and hold [BROADCAST] key while speaking or broadcasting.
   c. Release [BROADCAST] key to end broadcasting.

2. Broadcasting to a group of handsets
   a. Enter the Group ID and then press and hold [BROADCAST] key.

```
i91          ◀))11🔋
PA to Group #91


REDIAL      MENU
```

   b. Start speaking the broadcast message once you hear the key tone; the speakerphone of destination handsets will open when it receives the voice.

      Re: the initiating handset needs to press and hold [BROADCAST] key while speaking or broadcasting.
   c. Release [BROADCAST] key to end the broadcasting.

3. Broadcasting to an individual handset
   a. Enter the Handset ID and then press and hold [BROADCAST] key.
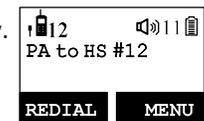
```
i12          ◀))11🔋
PA to HS #12


REDIAL      MENU
```

   b. Start speaking the broadcast message once you hear the key tone; the speakerphone of destination handsets will open when it receives the voice.

      Re: the initiating handset needs to press and hold [BROADCAST] key while speaking or broadcasting.
   c. Release [BROADCAST] key to end the broadcasting.

4. **Speed dial** by accessing the entries(2-digit ID) in the phone book. (Menu→2)
   a. Press [▲] or [▼] scrolling key to enter the phone book.
   b. Press [BROADCAST] to dial the 2-digit number.

Redial

1. Press REDIAL (Left) soft key.

2. The LCD shows the last phone number dialed. To dial this number, press [FLASH] key.

```
             ♪ 11🔋
FreeStyl SIP


REDIAL      MENU
```

3.

Use ⬆️ or ⬇️ key to scroll through the last 10 phone numbers dialed. Select and press 📞 key to dial the selected number.

Note: Intercom numbers (Handset ID) are not stored in the last 10 numbers dialed log.

```
Dialed #1:    ↕
033289289


OPTION    BACK
```
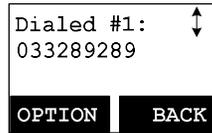
Receiving a Telephone Call

1. When an incoming call arrives, the LCD will show the Caller ID message, and the ringer will ring or vibrate unless the ringer has been turned off.

```
📶 ☎   L1      11🔋
Joe
033289289
SILENT
```

2. If the handset is on the charger cradle (ringer will be temporarily switched to "Ring" if it has been set to "Vibrate"), lift the handset and press 📞 key to start a conversation.

Re: You can turn on the "Any Key Talk" from MENU-5-2.

```
Notes:
    1.  You can press SILENT (Left) soft key if you choose to ignore the call.
        Unlike turning off the ringer (from the handset menu), the SILENT
        key operation is valid only for the current call.
    2.  If Caller ID service is available, the LCD will display the incoming call
        information. If the LCD shows "Private" or "Unknown," the caller or
        the originating phone company may have blocked the caller's
        information.
```

Receiving an Intercom Call

1. When an intercom call arrives (called from other handsets, ex. Handset 12), the ringer will ring or vibrate unless the ringer has been turned off. Press 📞 to answer the intercom call.

```
📶      L1      11🔋
Incoming page
from Ext #12
SILENT
```

2. If the handset is on the charger cradle (ringer will be temporarily switched to "Ring" if it has been set to
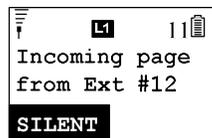
"Vibrate"), lift the handset and press 📞 key to start a conversation.

3. If the handset is not on the cradle and MENU-5-2 "Any Key Talk" setting is "On," press any key (except 📞 and the SILENT soft key) to answer.

```
Notes:
    1.  The LCD displays the caller's Handset ID.
    2.  You can press the SILENT (Left) soft key if you choose to ignore the call.
        Unlike turning off the ringer the SILENT key operation is valid only for
        the current call.
```

Ending a Call

To end a telephone or intercom call, press 📞 key, or place handset into charger cradle.

Adjusting Handset Receiver (Earpiece) Voice Volume

1. Voice volume can only be adjusted during a call.

2. There are 6 levels of volume selections. Use ⬆️ or ⬇️ key to adjust.

```
📶 ☎    L1      11🔋
00:00:15
Volume: 3
MUTE       OPTION
```

3. The new setting will remain effective for all future calls until changed.

Adjusting Handset Speakerphone Voice Volume

1. Voice volume can only be adjusted during a call (in speakerphone mode).

2. There are 6 levels of volume selections. Use ⬆️ or ⬇️ key to adjust.

```
📶 ☎    L1  🔊 11🔋
00:00:15
Volume: 3
MUTE       OPTION
```

3. The new setting will remain effective for all future calls until changed.

Placing a Call On Hold

1. When a call is in progress, it can be put on hold by pressing OPTION (Right) soft key and the ∗ key.

2. To return to the conversation, press UNHOLD (Left) soft key.

```
You have a
call on hold

UNHOLD   OPTION
```
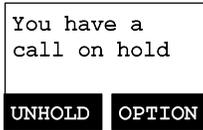
> **Notes:**
> 1. Handset LCD displays when a call is on hold. An alert tone (a beep) every 30-seconds will remind the handset that a call is on hold.
> 2. If the operation (e.g., call transfer) fails after putting a call on-hold, the held call may be dropped.

Mute

1. After a link is established, you can press MUTE (Left) soft key to mute the handset microphone.

2. When mute is active, the other end will not hear your voice, but can still speak to you.

3. To leave the mute state, press UNMUTE (Left) soft key. Mute is effective only for the current call.

```
☎        L1      11
00:00:15
MUTE

UNMUTE   OPTION
```

Do Not Disturb (Silent Ring)

1. Enter the key sequence MENU-3-1, then select "Off." Press SELECT (Left) soft key to confirm your choice. This will turn off the ringer until it is turned on again from the menu.

2. For temporary silencing the ringer when an incoming call arrives, press SILENT (Left) soft key.

```
☎        L1      11
Joe
033289289

SILENT
```

Key Guard

1. To prevent accidental dialing, you can press MENU (Right) soft key, then press "1" to select Key Guard option. The handset keypad is now locked. No key entry is accepted.

```
   Locked
No new calls

UNLOCK
```

2. To unlock the keypad, press UNLOCK (Left) soft key, then, within 2-seconds, press the digit ∗ to unlock.

```
Press * to
confirm unlock
```

3. Once returning back to standby mode for 15-seconds, the Key Guard will be automatically enabled.

4. Key Guard is in effect until unlocked.
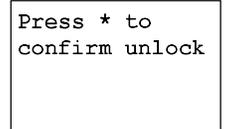
Battery Recharge and Replacement

1. Charge the battery when one or several of the following happen:
   a. Phone beeps twice (every 60-seconds in talk mode, every 10-minutes in standby mode).
   b. Battery icon is empty.
   c. Phone does not respond when a power On/Off key 📞 is pressed.
   d. LCD and backlighting become dim.
   e. Talk range shortfall is experienced.

2. You can replace the handset battery after placing the call-in-progress on hold and press 📞 key. To retrieve the call on hold, press Talk key again after replacing the battery and powering on the handset.

3. Battery talk time and standby times vary depending on the talk/standby pattern and the operating distance. Putting the handset back on the charger cradle as often as possible is recommended for best performance.
   Use only the manufacturer's provided battery and charger!

Advanced Operations

Handset Registration

1. If your handset(s) is purchased as part of a system, it has been pre-registered with the base station at the factory.

2. If the Handset ID is "00," this means it is a new handset or the ID has been erased. You will need to register the handset with the base station.

3. Registration:
   a. Press MENU-7 to enter the registration mode.
   b. Press and hold the base's PAGE button for 3-seconds until the IN USE LED(white color) lights up and flashes. The base station will emit a prompt sound to remind you the base station is in the registration mode.

```
Main Menu        ↕
7.Registration
─────────────────
SELECT      BACK
```

   c. Press handset key 1, this completes the registration process. The base station will assign a handset ID between 10 and 19 automatically. The assigned ID will be displayed on the handset LCD, indicating successful registration.

```
Registration     ↕
1.Register
─────────────────
SELECT      BACK
```

   d. Repeat above steps for all additional handsets.

4. De-registration:
   a. You can de-register the handset you're using from the base station. De-registration will reset the Handset ID to 00, erase the system security code, and free up the handset ID for future registration.

```
Main Menu        ↕
7.Registration
─────────────────
SELECT      BACK
```

   b. After de-registration, the handset will not be able to use the base station to make or receive phone calls, nor can it intercom other handsets.
   c. Press MENU-7 to enter the registration mode.
   d. Press and hold the base's PAGE button for 3-seconds until the In Use INTERCOM LED lights up and flashes, also the base station will emit a prompt sound to remind you the base station is in the de-registration mode.

```
Registration     ↕
2.Deregister
─────────────────
SELECT      BACK
```

   e. Press the handset number key 2, this completes the de-registration process. Upon successful de-registration, the handset display will show "Please register."

> **Notes:**
> 1. The base station has a 30-second registration timeout starting when you press the REG button. The handset has a 6-second registration timeout starting when the registration or de-registration option has been selected. The base station and handset will automatically exit registration mode after timeout.
> 2. Repeat registration or de-registration process if unsuccessful.

Handset Group Subscription

1. Up to nine handset groups (1-7) can be defined, and handset users can decide which group(s) they want to be in.
2. For example, Group 1 represents the Customer Service Group, Group 2 represents the Sales Group

```
Main Menu        ↕
4.Call Settings
─────────────────
SELECT      BACK
```

   and Group 3 is the Marketing Group. Suppose that handset 11 wants to receive incoming rings for all Sales and Marketing related calls. Then handset 11 will need to "subscribe" to Group 2 and Group 3.

```
Call Settings    ↕
2.Group Setting
─────────────────
SELECT      BACK
```
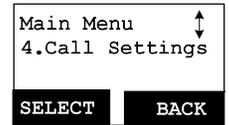
3. Group Selections:
   a. Press handset MENU -4 to enter the Call Settings menu.
   b. Press number 2, handset enters group setting menu.

```
Subscribed       ↕
None
─────────────────
OPTION      BACK
```
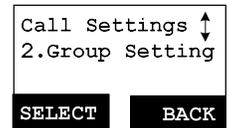
   c. Press OPTION soft key followed by 1 key to subscribe the group ("＃", ＃:1~7). Enter 1~7.
   d. Repeat for all desired groups.

```
Enter group to
subscribe
＃
─────────────────
            BACK
```

e. Delete group selections by pressing OPTION soft key followed by 2 to Unsubscribe the group.

```
Enter group to
unsubscribe
#
              BACK
```

```
Notes:
  1.  The handset can change group affiliations at any time.
  2.  The base station is not responsible for group assignments.
      Consequently, it cannot de-subscribe a handset from a group.
  3.  When an intercom caller enters a group ID, all handsets subscribed to
      this group will ring.  The first handset to answer will establish a link
      with the caller.  Afterward, it is a one-to-one call, not a one-to-many
      call.
```

Call Transfer

➢ Transfer to EnGenius Handset

While a telephone call is in progress, you can transfer it between different handsets.

Direct Transfer (Unannounced Transfer)

1. Press OPTION (Right) soft key, followed by the ✱ key to put the call on hold.

2. Press XFER (Right) soft key, followed by entering the destination handset ID, then the held call will be transferred directly.

   After the call is transferred to the destination handset, the original handset will go back to standby mode automatically.

   Ex. While on a call, press OPTION, ✱ (to hold call), then enter HS ID (selected handset to transfer call to), Call Transfer Paging Ext message will appear, once handset 11 answers, Transferee HS 10 will hang up automatically.

```
☎      L1        11
00:00:15
Volume: 3
MUTE         OPTION
```

```
You have a
call on hold

UNHOLD        XFER
```

```
              L1      11
Enter Ext #:
##
              CANCEL
```

If HS 11 does not answer to the transfer, After 8 rings, it will transfer back to the transferee HS 10 with a unique transfer ring tone.

Indirect Transfer (2-way Announced Transfer)

If you want to talk to the destination handset before the call is transferred, you can follow the below method:

1. During the call, press INT key, then enter the destination handset ID.

```
☎      L1        11
00:00:15
Volume: 3
MUTE         OPTION
```

2. Press the FLASH of the destination handset to answer the intercom call, you can now talk to the destination handset.

   After talking, press ☎ to end the intercom call, and then the destination handset is able to pick up the incoming call automatically.
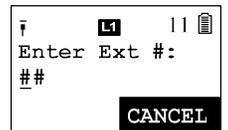
```
              L1      11
Enter Ext #:
##
              CANCEL
```

After the call is transferred to the destination handset, the original handset will go back to standby mode automatically.

PS: If HS 11 Decides to take the call, Transferee HS 10 will need to press ☎ key for the call to transfer to HS 11. HS 11 Decides NOT to take the call, requested HS 11 will need to press ☎ Key to end 2-way and deny transfer, call will go back to HS 10.

```
Notes:  If the destination handset does not answer after paging it or
transferring timeout, the call is routed back to the originating handset.
```

➢ Transfer to PBX Extension

While a telephone call is in progress, you want to transfer it to another extension (not an EnGenius handset). This kind of operation is similar to use ATA device.

Call Transfer

1. While on the call, press the ⟨FLASH⟩ , the first call will be on hold. Then you can hear a dial tone from PBX.
2. You can enter the PBX extension number you want to transfer the caller party.
3. When the transfer party answers the call, you can press the ⟨📞⟩ key to transfer it to the first caller.

Call Conference
1. To initial a conference, you can have 3-way conference call.
2. While on the call, press the ⟨FLASH⟩ , the first call will be on hold. Then you can hear a dial tone from PBX.
3. You can enter the 2nd phone number you want to add the caller party to join the call.
4. When the 2nd party answers the call, you can press the ⟨FLASH⟩ to have a conference with two parties.

Phonebook Operations

1. You can store up to 50-entries in the phone book. Each entry can contain a phone number or handset ID (up to 26-digits) and a name (up to 16-characters).

2. To access the phone book, press MENU (Right) soft key, followed by 2 or press ⟨▼⟩ scrolling key while the handset is in standby mode.

```
Main Menu        ↕
2.PhoneBook

SELECT    BACK
```

```
                 ↕
Joe
033289289
ADD      OPTION
```
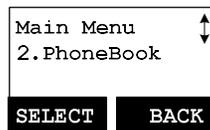
3. To add a new entry:
   a. Press ADD (Left) soft key.
   b. Enter the name when LCD prompts "Name?" Use DELETE (Right) soft key to delete the last digit entered. When completed, press SAVE (Left) soft key to save. Re: Up to 16-characters can be entered as the name.

```
Name?
_
Caps = *
SAVE     DELETE
```

```
Number?
_

SAVE     DELETE
```
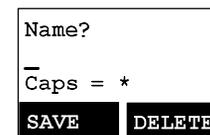
c. You will then be prompted to enter a number for the name just entered.
   Re: Up to 26-digits can be entered as the number.
d. After entering the number, press the SAVE (Left) soft key to save this entry into phone book.
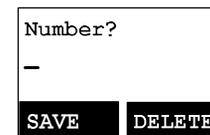
e. Enter a phone book entry without a name; all records without a name will be placed on the top of the phone book list.

f. To enter the name, press the corresponding keypad number one or more times according to the order of the character on the key.

   See table below for a list of available characters and their orders. For example, press 2 once for the character "A," twice for "B," etc.

Notes:
1. When entering a phone number, the cursor automatically advances to the next digit field. Use ⟨▲⟩ or ⟨▼⟩ scrolling key to move the cursor backward or forward to insert or delete (the digit above the cursor or left of the cursor if the cursor is on the right of the last digit).
2. When entering a name, the cursor automatically advances to the next character field if you press a different key for the next character. If you need to enter consecutive characters from the same key, you can wait for the cursor to advance or use ⟨▲⟩ or ⟨▼⟩ scrolling key to move the cursor backward or forward manually. Also use ⟨▲⟩ or ⟨▼⟩ to move the cursor to insert (to the left of the cursor) or delete (the character above the cursor or left of the cursor if cursor is on the right of the last character).
3. By default, all letters are entered in upper case. Use the ✱ key to toggle between upper and lower cases.
4. A "Pause" entry represents a 1-second delay in dialing the following digits, which is useful when calling a sequence of segmented numbers (e.g., access codes, credit card numbers, auto-attendant entries, etc.) Pause is entered by pressing the # key twice (LCD displays P). Entering pause twice (PP) will result in 2-seconds pause in the dialing.

5. Character Table:

Key	Characters and Orders
1	' + , . * ( ) & 1
2	A B C 2
3	D E F 3
4	G H I 4
5	J K L 5
6	M N O 6
7	P Q R S 7
8	T U V 8
9	W X Y Z 9
0	0
∗	Caps – when in character editing. ∗ – when in number editing.
#	Space & # – when in character editing. # & P (Pause) – when in number editing.

4. The entries are alphabetically sorted and stored as a list in an ascending order (A to Z) from the top of the list.

5. The first line of the LCD display shows the name and the 2nd line shows the phone number. If the phone number is longer than 16-digits, press OPTION (Right) soft key and select Option 3 "View Number" to view the complete number.

6. To search for a record:
   a. Use [▼] scrolling key to enter the Phone Book mode.
   b. Press a key that corresponds to the first character of the name you are looking for.
   c. For example, you are looking for "EnGenius," then press the number 3 twice.
   d. Use [▲] or [▼] scrolling key to locate the exact record you are looking for.

7. To erase phone book:
   a. Use [▲] or [▼] scrolling key or the alphabetical search method to locate the record to be erased or edited.

```
Joe               ↕
033289289
ADD        OPTION
```

b. Press OPTION (Right) soft key to enter the option menu.

c. Press 1 to erase the desinated phone entry.
d. LCD shown "Delete entry?" Press YES (Left) soft key to confirm your change.
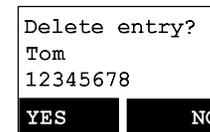
```
Delete entry?
Tom
12345678
YES          NO
```

8. To edit phone book:
   a. Use [▲] or [▼] scrolling key or the alphabetical search method to locate the record to be erased or edited.

```
                  ↕
Joe
033289289
ADD        OPTION
```
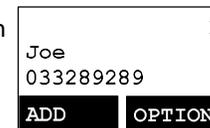
   b. Press OPTION (Right) soft key to enter the option menu.
   c. Press 2 to edit the designated phone entry.

```
Name?
_
Caps = *
SAVE      DELETE
```
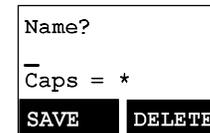
9. Dial from display:
   a. Press [FLASH] or [INT] to dial the phone number or Handset ID displayed.

10. To transfer the phone book:
    To transfer the phone book, both parties have to enter the phone book transfer mode first by following below:
    a. Press OPTION (Right) soft key followed by 5 or by scrolling [▲] or [▼] key to transfer when the handset is in phone book mode.
    b. For the phone sending party, press 1 to enter the sending mode.
       i. Either press TX ALL (Left) soft key to transfer all phone book entries to another handset(s).
       ii. Or press TX ONE (Right) soft key to transfer one entry to another handset(s).
       iii. Press the 2-digit handset ID or group ID, then select all phone book entries or one entry to be transferred.
            Re: "00" means all handsets.
       iv. During phone book transfer, the LCD shows "Sending" and 2-digit countdown on the LCD to indicate the phone book numbers which are pending.
    c. For the phone book receiving party, press 2 to enter the receive mode.

i. When entering the receiving mode, the LCD shows "Ready."
ii. Start to receive the phone book, the LCD shows, "Get phone book from Ext. # : xx."
iii. A beep is emitted when receiving each phone book.
iv. When the phone book is being received, a 2-digit countdown shows on the LCD to indicate the phone book numbers that are pending.

Re: Since the phone book transfers through the wireless interface, it may partially miss transmission if there is any interference.

11. To transfer phone book via web:

You can edit/store 50-phone book entries via the web interface. The base can be used as the sending party.

a. Place the receiving handsets to Receiving mode, by pressing OPTION (Right) soft key follow by 5 ,2 to enter Receiving mode. The LCD shows "Ready."

b. Press "Transfer" button on the web interface of the base to send up to 50-entries of the phone book.

Re: The handset will not update any phone book when it stores up to a maximum of 50-entries.

Programmable Feature Call

1. If FreeStyl SIP base station is installed behind a PBX system, it is feasible to pre-program some call features along with the PBX's feature code into the system.

2. Up to 10 most frequently used feature call codes can be pre-programmed.

3. Name and enter feature call codes:

a. Press MENU (Right) soft key while the handset is in the standby mode.

```
Call Settings ↕
4.Feature Call

SELECT      BACK
```

b. Press 4 , followed by 4 to enter the "Feature Call" menu.

c. Press ADD (Left) soft key to add a new feature call entry.

```
Empty




ADD
```

d. Key in the name of the feature call, like editing a phone book entry, i.e. "PBX Transfer."
Press SAVE (Left) soft key to confirm.

e. Key in the feature call code of the correspondening PBX feature, i.e. F ✳ 70.
Press SAVE (Left) soft key to confirm.
Re: "F" represent the Flash signal.

```
Feature Name?
_
Caps = *

SAVE      DELETE
```
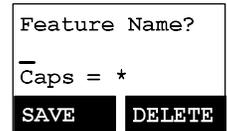
f. The 1st feature call and corresponding feature call code you entered will appear on the LCD screen.

```
Number?




SAVE      DELETE
```

g. Press OPTION (Right) soft key to delete or edit the feature call you programmed into the system.

```
PBX Transfer
F*70


ADD       OPTION
```

h. Repeat the same operations to program the 2nd and subsequent feature call that you will use frequently.

4. Using pre-programmed feature call during the call.

a. Press OPTION (Right) soft key while the handset is in the Talk mode.

b. Press the correspondence number of the feature call you want to perform, i.e. press "0" to perform the "PBX Transfer."

```
☎    L1      ‖📶
00:00:15
Volume: 3
MUTE      OPTION
```

```
Option:
*.Hold
0.PBX Transfer
#.Phonebook
```

Caller ID

1. Contact your local phone company to subscribe to this feature. The phone system receives and displays Caller ID information transmitted by your local phone company. This information may include the calling phone number, name, date and time. This unit can store up to 50 calls of Caller ID information.

2. The display will show the date and time of the call on the first line, followed by the name on the second line, and the phone number on the third line. An unread record will have a "NEW" at the end of the first line of the display.

3. When viewing a call record, the number can be dialed, stored to the phone book or deleted.

View Call Log

1. To view the call log, press ▲ to enter the Call Log. Press ▲ or ▼ key to scroll through the numbers and names when available.

```
01/04 08:20P NEW
Johnson
423-1234
FORMAT    OPTION
```
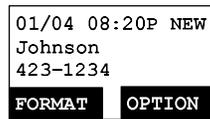
2. Press OPTION (Right) soft key, you can ▲ or ▼ key to choose save, delete or clear all.

   a. Save call log:

```
Option:
Save

SELECT      BACK
```

   (1) Press SELECT (Right) soft key, you can use ▲ or ▼ key to scroll the name, and press DELETE to edit the name.
   Then press SAVE (Left) soft key to save the name.

```
Name?
Johnson_
Cap = *
SAVE      DELETE
```
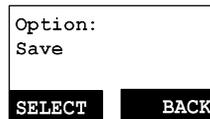
(2) Use ▲ or ▼ key to scroll the number, and press DELETE to edit the number.
Then press SAVE (Left) soft key to save the number.

```
Number?
4231234_


SAVE       DELETE
```

(3) After the above process, the call log is saved into the phone book.

   b. Delete call log:
   (1) Press SELECT (Right) soft key followed by YES (Left) soft key to confirm deleting.

```
Option:
Delete


SELECT      BACK
```
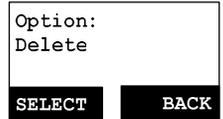
   c. Clear All:
   (1) Press SELECT (Right) soft key followed by YES (Left) soft key to confirm clearing all Caller ID records.

```
Option:
Clear all


SELECT      BACK
```
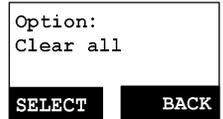
Call a Caller ID

1. Press ▲ key on idle screen to enter the call log, use ▲ or ▼ key to scroll the call log.

2. When screen displays a Caller ID, Press (FLASH) to dial this number.

Call Manager

"Call Manager" feature allows four options:

1. The first option is "Incoming." The handset can be selected to enable receiving of the incoming PA, intercom call, line call.

2. The second option is "Outgoing." The handset can be set to access available bases automatically, manually or as a pre-defined telephone line.

3. The third option is "Call Barring." The handset can be selected to block the calls, which are not allowed.

Note: When entering this menu (Call Manager), you must enter the handset's password first (4-digits). The default handset password is "0000."

Incoming

1. Press MENU (Right) soft key followed by 4 to enter the Call Settings mode.
   Press 3 to select Call Manager, then enter handset's password (4-digits).

```
Call Settings:↕
3.Call Manager

SELECT      BACK
```
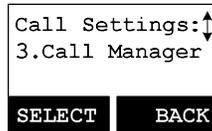
a. Press 1 to enable receiving PA On/Off.
   Re: Default setting is "ON."

```
Call Manager ↕
2.Incoming

SELECT      BACK
```
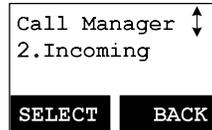
b. Press 2 to enable receiving Line On/Off which includes FXO line only.
   Re: Default setting is "ON."

c. Press 3 to enable receiving Intercom On/Off.
   Re: Default setting is "ON."

   (1) By default, all incoming calls will ring all handsets.

   When entering this menu, you must enter handset password first (4-digits).
   Re: The default handset password is "0000."

Outgoing

1. Press MENU (Right) soft key followed by 4 to enter the Call Settings mode.
   Press 3 to select Call Manager followed by entering handset's password (4-digits).
   The handset is able to make outgoing calls via the SIP line or PSTN line.
   Re: Default setting is "Auto."

```
Call Settings:↕
3.Call Manager

SELECT      BACK
```

```
Call Manager ↕
3.Outgoing

SELECT      BACK
```
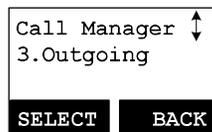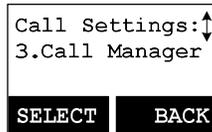
a. Press 1 to "Auto." The hanset is able to make outgoing calls via an available line and SIP line automatically.

b. Press 2 to "Manual." When pressing [FLASH] key in standby mode, the handset LCD will show the available line. Press ▲ or ▼ to scroll the options: 1. SIP, 2. Line. Press 1, you can select the SIP line 1 to make a call.

c Press 3 to "Off." The hanset is disabled from making any outgoing calls.

Call Barring

1. Press MENU (Right) soft key followed by 4 to enter the Call Settings mode.
   Press 3 to select Call Manager, and enter handset's password (4-digits).

```
Call Settings:↕
3.Call Manager

SELECT      BACK
```
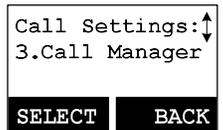
   Press ▲ or ▼ to scroll the options: select "Call Barring" to block users from dialing long distance or international calls. This also blocks incoming calls from outside lines or other registered handset.
   Re: Default Call Barring is "OFF."

```
Call Manager ↕
4.Call Barring

SELECT      BACK
```
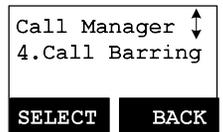
2. To add the Call Barring code:

a. Once you turn on the Call Barring feature, you can key in the "Call Barring" code.
   To add one block code, press ADD (Left) soft key then start entering the Call Barring code. After entering the Call Barring code, press SAVE (Left) soft key to save.

   (1) Up to 5-digits can be edited for the Call Barring code. For example, if you want to block all calls dialing to Manhanttan, NY area, you can enter 1212 as the Call Barring code.
   (2) If your base station is adjuct to a PBX system, please also include that specific number to retrieve the PSTN tone.

b. Press OPTION (Right) soft key to delete or edit the Call Barring codes.
Up to 5 sets of Call Barring codes can be programmed.

```
Call Barring  ↕
1212


ADD       OPTION
```

c. If you want to block all outgoing calls, enter "✳ ✳ ✳ ✳ ✳" 5 "✳" keys, then press SAVE (Left) soft key to save it, and all outgoing calls will be restricted.

Visual Message Waiting Indicator (VMWI)

VMWI feature supports the FSK message and stutter tone detection, which is received from the telephone line; it will activate a message icon on the handset.

Notes:
1. A subscription to the telephone company's voice mail service is required.
2. If the handset still indicates the icon, even after you have listened to all messages, turn it off by pressing and holding "Caller ID" key on the handset.

Adjust Handset Microphone Gain

If you will use the handset in different workplaces or environments, you can adjust the handset microphone gain to obtain a better voice quality that is suitable for various locations.
   a. Press MENU (Right) soft key while the handset is in the standby mode.

   b. Press 5 (Phone Settings), followed by 1 to enter the "Mic. Gain" menu.
   c. Use ▲ or ▼ key to scroll the "Standard," "Medium" and "Low" options.
   d. If you are using the handset in quiet environments, like an office or meeting room, the "Standard" level is recommended.

   If you are using the handset in a noisy environment, like a factory or outdoor place, the level of "Medium" or "Low" is recommended.

Adjust Headset Ring

When using the headset, you can change the ringer to emit from either the handset speaker or receiver of headset to avoid missing calls.
   a. Press MENU (Right) soft key while the handset is in the standby mode.

   b. Press 5 (Phone Settings), followed by "9" to enter the "Headset Ring" menu.
   c. Select On, so the ringer emits from the headset receiver; if Off is selected, the ringer will emit from the handset speaker.

SIP Configuration

Introduction

The FreeStyl SIP is a long-range cordless telephone system with built-in LAN. It provides users the ability to make VoIP calls based SIP protocol. Below describes how to setup the SIP configuration of the FreeStyl SIP base from the web.

VoIP Features

- Support 4 VoIP calls.
- Each handset has only one SIP account.
- Register Up to 10 SIP accounts and 10 handsets accordingly.
- Flexible Call Manager features to dedicate either the SIP or PSTN call.
- Use G.711U-law for VoIP codec.
- SIP and LAN setting from web configuration.
- Internet interface: 10/100base-T LAN port x1

Registration Handsets

- Before setting the SIP configuration, the available handset(s) of the FreeStyl SIP must register to the base.
- Register handset:
  (1) Press and hold the register key on the base until the LED changes to white color. The base can perform the handset registration while the LED is flashing.
  (2) On handset, enter "MENU, 7, 1" to enter the registration.
  (3) The assigned ID (from 10 to 19) will be displayed on handset LCD, indicating successful registration.
  (4) Repeat the above steps for all additional handsets.

Default Settings

Connect the Internet port to the FreeStyl SIP's LAN port.

DHCP: By default, the FreeStyl SIP base unit is assigned an IP address dynamically by the DHCP server. If somehow it can't be assigned the IP address from the DHCP server, it will roll back to default static IP 192.168.1.156 for the base unit automatically. User can set static IP 192.168.1.x to their PC so that they would be able to access web of this base unit.

IP Address	**IP by DHCP server Or 192.168.1.156**
Username / Password	**admin / admin**

Web Configuration

The default username and password are **admin**. Once you have entered the correct username and password, click the Login button to open the web-base configuration page. If successful, you will be logging in and see the configuration of FreeStyl SIP.

LAN Configuration

When you want to change the LAN IP to Static IP setting including IP address, subnet mask, gateway, proxy and VLAN, once you click **Apply**, the change will take effect. You will now know the new IP of the FreeStyl SIP in advance of accessing the web configuration next time.

Base Settings

Note: When you change any of the Base Settings, click **Apply** for the change to take effect. The items shown in gray are not changeable and are reserved for other versions.

Phone Book

You can store up to 50-entries in the phone book on the FreeStyl SIP base.

- Click the **Add phone book** button to add entries. Click the **Export phone book** button to export this phone book to a specific file in .csv format.
- An entry in the phonebook data is represented in text as
  "Name,Number <line break>".

- In Name field, you can enter ASCII code from decimal code 32~126 (digits from keyboard). In Number field, you can enter 0~9, F,E,T,P, *,#. Maximum length in Name, Number field: 16, 26.
- If you have this contact list file in advance, you can click the **Browse** button to select it, and click the **Import phone book** button to import the contact list.

Note: After you edit all entries in the phone book via web interface, you need to place handsets in receiving phone book mode. Click the **Transfer phone book** button to send the phone book over the air. See phone book transfer via web on page 43.

SIP Configuration
SIP Server

Note:

Basic	
Primary Codec Secondary Codec	When you use G.729 Codec, the FreeStyl SIP will not support 3-way conference.
SIP Transport	Default: Automatic. According to the requirement of SIP server, you can select UDP or TCP or TLS.
STUN	When the FreeStyl SIP is located behind a NAT, you can set STUN server to discover its public IP.
QoS	When activate this QoS, it will add the QoS parameters in message(following 802.1p, priority 6)
DNS SRV	The FreeStyl SIP is used a hosted device connected to ITSP, DNS SRV record type may be required in some service providers. When DNS SRV is activated, DNS is assigned to 8.8.8.8 (google DNS)
Allow SDP NAT Rewrite	In some cases, i.e. connected with NAT or VPN, to enable this option to have the IP address in UDP message bodies rewritten and routed correctly.
RTP Ptime	RTP packetization time is required to synchronize when using a P2P call.
User-Agent Header	For security in some SIP servers, they may authorize the specific user-agent string.
Registration Expire	Expire time of SIP registration
MWI Subscribe	When set to off, FreeStyl SIP will not send MWI subscribe to server. But FreeStyl SIP still can receive MWI Notify sent from the server.
Session Timer	Enable/Disable SIP Session Timer

SIP Account
Enter VoIP-> Account Setting

Account Setting	
BS-Reg Status	When the handset is registered on the base, it shows green light.
SIP-Reg Status	When the SIP account of handset is active, it shows green light.

Individual Account
- **Note:** You should register every handset on the FreeStyl SIP base before you start setting the SIP configuration.

The default SIP number is set according to handset ID, which means SIP number 10 is set for handset ID 10, and accordingly. You will need to enter the Edit button for each account.

Click the **Apply** button to save the setting as the screen shows:

Module is reloading, please wait for 1 seconds

Group Account

When you want to assign one SIP account to ring many handsets at the same time, you can use the "Group Acc" setting. FreeStyl SIP supports 8 SIP accounts for group(s), which are used for incoming/outgoing calls.

- **Note:** Handsets should "subscribe" from the handset menu to group(s), before performing a group SIP call except using GroupALL group. That means this kind of sharing feature can use one group SIP account for many handsets.

Group Acc							
ALL HS	⊙	100	GroupALL	⊙	Disable	Edit	Release
1	⊙	20	Group1	⊙	Disable	Edit	Release
2	⊙	21	Group2	⊙	Disable	Edit	Release
3	⊙	22	Group3	⊙	Disable	Edit	Release
4	⊙	23	Group4	⊙	Disable	Edit	Release
5	⊙	24	Group5	⊙	Disable	Edit	Release
6	⊙	25	Group6	⊙	Disable	Edit	Release
7	⊙	26	Group7	⊙	Disable	Edit	Release

VoIP
- Basic
- **Account Setting**
- Auto-Provision
- **Tools**

User Information Settings

Account Active	○ Enable ● Disable
SIP Number	100
Display Name	GroupALL
Auth Name	
Password	********

Apply Cancel

Click the **Apply** button to save the setting as the screen shows:

Module is reloading, please wait for 1 seconds

After you finish these account settings, you need to click the **Apply** button as shown in red to activate the setting.

System
VoIP
- Basic
- Account Setting
- Auto-Provision
- Tools

User List

HS ID	BS-Reg Status	SIP Number	Display Name	SIP-Reg Status	Account Active	Action	
10	⊙	10	10	⊙	Enable	Edit	Release
11	⊙	11	11	⊙	Disable	Edit	Release
12	⊙	12	12	⊙	Disable	Edit	Release
13	⊙	13	13	⊙	Disable	Edit	Release
14	⊙	14	14	⊙	Disable	Edit	Release
15	⊙	15	15	⊙	Disable	Edit	Release
16	⊙	16	16	⊙	Disable	Edit	Release
17	⊙	17	17	⊙	Disable	Edit	Release
18	⊙	18	18	⊙	Disable	Edit	Release
19	⊙	19	19	⊙	Disable	Edit	Release

Group Acc							
ALL HS	⊙	100	GroupALL	⊙	Disable	Edit	Release
1	⊙	20	Group1	⊙	Disable	Edit	Release
2	⊙	21	Group2	⊙	Disable	Edit	Release
3	⊙	22	Group3	⊙	Disable	Edit	Release
4	⊙	23	Group4	⊙	Disable	Edit	Release
5	⊙	24	Group5	⊙	Disable	Edit	Release
6	⊙	25	Group6	⊙	Disable	Edit	Release
7	⊙	26	Group7	⊙	Disable	Edit	Release

Auto-Provision

In Auto-Provision, after you change the setting and click **Apply**, you will need to power cycle the base in order for any changes take effect.

- **Note:** The auto-provision configuration file is generated by editing the template excel file, and save it as a txt file. And for example, if the FreeStyl SIP's MAC Address is AA:BB:CC:DD:EE:FF, the configuration file name must be 'voip_settings_aabbccddeeff.txt'.

System
VoIP
- Basic
- Account Setting
- Auto-Provision
- Tools

Auto-Provision	Disable ⌄
Protocol	tftp ⌄
Server Options	DHCP ⌄
URL	

Apply Cancel

Auto-Provision	
Auto-Provision	Default: Disable. When you enable it, FreeStyl SIP can automatically download the configuration file from TFTP server, FTP server, or HTTP server, and apply the setting from the configuration file.
Protocol	When Server Options is Manual, you can select the URL protocol from TFTP, FTP, and HTTP.
Server Options	Default: DHCP. The URL of the configuration file is provided by DHCP option 66. You can also manually configure the Protocol and URL by changing the setting to Manual.
URL	When Server Options is Manual, you can set the URL of configuration file. TFTP URL: tftp://<address>/<file_name> FTP URL: ftp://<user_name>:<password>@<address>:<port>/<file_path>/<file_name> HTTP URL: http://<server_domain_name>/<file_path>/<file_name>

Tools
Admin
This page allows you to change the username and password. By default, the username is **admin** and the password is **admin**. The password can contain 0 to 12 alphanumeric characters and is case sensitive.

Admin	
Login Name	Enter a new username for logging into the New Name entry box.
Old Password	Enter the old password for logging into the Old Password entry box.
New Password	Enter the new password for logging into the New Password entry box.

Repeat New Password	Re-enter the new password in the Confirm Password entry box for confirmation.
Apply / Cancel	Click **Apply** to apply the changes or **Cancel** to return to previous settings.

Time
This page allows you to set the internal clock.

Time	
Time Setup	Select to sync with a NTP server or with the PC's internal clock.
Time Zone	Select a time zone from the drop-down list and check whether you want to enter the IP address of an NTP server or use the default NTP server to have the internal clock set automatically.
Apply / Cancel	Click **Apply** to apply the changes or **Cancel** to return to previous settings.

Ping Test
This page allows you to analyze the connection quality of FreeStyl SIP and trace the routing table to a target in the network.

Ping Test	

Address to Ping	Enter the IP address you would like to search.
Ping Result	Check the specific IP address is live.
Start	Click **Start Ping** to begin pinging target device (via IP).

Firmware

This page allows you to upgrade the firmware of FreeStyl SIP.

To perform the Firmware Upgrade:
Click the **Browse** button and navigate the OS File System to the location of the upgrade file.
Select the upgrade file. The name of the file will appear in the *Upgrade File* field.
Click the **Apply** button to commence the firmware upgrade.

Note: The device is unavailable during the upgrade process and must be restarted when the upgrade is completed. Any connections to or through the device will be lost.

Back-up

This page allows you to save the current device configurations. When you save the configurations, you can also reload the saved configurations into the device through the "**Restore Settings" from A File** section. If extreme problems occur or if you have set up the FreeStyl SIP wrong, you can use the "**Reset**" button in the "**Restore to factory default**" section to restore all the configurations of the FreeStyl SIP to the original default settings.

Back-up	
Restore to factory default	Click **Reset** button to restore the FreeStyl SIP to its factory default settings.
Backup Setting	Click **Save** to save the current configured settings.
Restore Setting	To restore settings that have been previously backed up, click **Browse**, select the file, and click **Upload**.

Reset/Reboot/Registration

You can press and hold the below buttons to execute specific features or use the web interface.

These features (Reset, Reboot, and Registration) can be performed from this web setting:

Menu Operations

Menu
- 1.KeyGuard
- 2.PhoneBook
- 3.Sounds
  - 1.Ring Volume
  - 2.Ring Tone
  - 3.Key Volume
  - 4.Key Tone
  - 5.Call Waiting
- 4.Call Settings
  - 1.Dial Prefix
  - 2.Group Setting
  - 3.Call Manager
    - Incoming
      - 1.PA On/Off
      - 2.Line On/Off
      - 3.Int. On/Off
    - Outgoing
      - 1.Auto
      - 2.Manual
      - 3.Off
    - Call Barring
  - 4.Feature Call
- 5.Phone Settings
  - 1. Mic. Gain
  - 2.Any Key Talk
  - 3.Contrast
  - 4.Backlight
  - 5.Name Tag
  - 6.Custom Name
  - 7.Change Pwd
  - 8.Headset Ring
- 6.Base Settings — Enter Base PIN:----
  - 1.DTMF Duration
  - 2.Flash time:
  - 3.Assign Next HS
  - 4.Clear HS
  - 5.Change PIN
  - 6.Auto Hang Up
  - 7.Set Time
  - 8.Line Detection
- 7.Registration
  - 1.Register
  - 2.Deregister
  - 3.Remote REG
- 8.Menu Display — Enter Password ----
  - 1.Call Setting
  - 2.Phone Setting
  - 3.Base Setting

1. Press **MENU** (Right) soft key to enter menu mode while the phone is in standby mode.

   Re: You can either press ▲ or ▼, followed by **SELECT** (Left) soft key to confirm the selected menu. Or press the digit directly to confirm the selected menu. For example, press **MENU** (Right) soft key followed by **4** and **1** to select the Ring Volume.

2. Press **1** to select Key Guard (see Key Guard operation on page).

3. Press **2** to add, delete, edit, view and edit the phone book (see Phone book instruction on page .

4. Press **3** to set Sounds settings:
   a. Press **1** to select Ring Volume:
      Two options for ring volume: Line (for incoming call) and Intercom (for intercom call). Set each option respectively.

      When setting each option, use ▲ or ▼ to scroll through 6 options: "Off," "Low," "Medium," "High," "Vibrate" and "Vibrate & High." Press **SELECT** (Left) soft key to save selection. Default = Medium.
   b. Press **2** to select Ring Tone:
      Two options for ring tone: Line (ring tone for incoming call) and Intercom (ringer for intercom call). Set each option respectively.

      Use the ▼ or ▲ to scroll through 8 ringers, press **SELECT** (Left) soft key to save selection. Default = 1.
   c. Press **3** to select Key Volume when a key is pressed:
      Use ▲ or ▼ to scroll through 4 options: "Off," "Low," "Medium," and "High." Press **SELECT** (Left) soft key to save selection. Default = Medium.
   d. Press **4** to select Key Tone:
      Use the ▲ or ▼ to scroll through 4 options: 1, 2, 3 and 4. Press **SELECT** (Left) soft key to save selection. Default = 1.

5. Press **4** to set Call Settings:
   a. Press **1** to set Dial Prefix:

(1) Press ⬆ or ⬇ to turn on or off the dial prefix feature. Default = Off.

(2) If "On" is selected, the handset is prompted to enter the prefix number, up to 14-digits can be entered.

(3) Use Delete (Left) soft key to edit prefix number.

(4) Press SAVE (Left) soft key to confirm the selection.

(5) When this feature is turned on, the LCD will prompt the user "Dial Prefix? Yes or No" on each outgoing phone call from call logs, phone book, and dial-and-send dialing, the current prefix is also displayed. Re: the prefix number will be added automatically in front of the dialed number if press YES (Left) soft key.

(6) This feature is useful for access code, calling card, and credit card calls, etc.

b. Press 2 to Group Select: see Handset Group Subscription on page 38 .

c. Press 3 to set Call Manager: see Call Manager operation on Page 48.

d. Press 4 to set Feature Call: see Feature Call operation on Page 45.

6. Press 5 to set Phone Settings:

a. Press 1 to set Mic Gain: See Mic Gain operation on Page 51.

b. Press 2 to set Any Key TALK:
Use CHANGE (Left) soft key to select and confirm "On" or "Off."
Default is "Off."

Re: When set "on," press any key (except 📵 and SILENT key) to answer the incoming call.

c. Press 3 to set LCD Contrast:

(1) Use ⬆ or ⬇ to scroll through option 1~8. Default is 4.

(2) Press SAVE (Left) soft key to confirm selection.

d. Press 4 to set LCD Backlight:

(1) Use ⬆ or ⬇ to scroll through option 1~3 (1. 8-seconds 2. On 3. Off). Default is "8-seconds."

(2) Press SAVE (Left) soft key to confirm selection.

e. Press 5 to set Name Tag:

(1) Use CHANGE (Left) soft key to select and confirm "On" or "Off." Default is "Off."

(2) Press SAVE (Left) soft key to confirm selection.

Re: When Set "On," the handset match the Caller ID with the phone book entries, once matched, the LCD screen will display the name or nickname instead of pure Caller ID info (needs Caller ID service from local telephone company).

f. Press 6 to set Language:

(1) Use ⬆ or ⬇ to scroll through option 1~3 (1. English, 2. Spanish, 3. French). Default is "English."

(2) Press SAVE (Left) soft key to confirm selection.

g. Press 7 to set Custom Name:

(1) Enter characters using the Character Table and method discussed in the Phone book section.

(2) Use ⬆ or ⬇ to move the cursor backward or forward to insert (to the left of the cursor) or delete (the character above the cursor, or left of the cursor if cursor is on the right of the last character).

(3) Press SAVE (Left) soft key to confirm setting.

Re: Once entering the custom name, the greeting of the LCD in standby mode will be changed as entered.

Default greeting is "FreeStyl SIP"

h. Press 8 to Change Password:

(1) Enter original (4-digits) of handset then press OK (Left) soft key when entering this menu.

(2) Enter new password (4-digits) then press SAVE (Left) soft key to confirm new password.

i. Press 9 to set Headset Ring: See Headset Ring operation on Page 52.

7. Press 6 to set Base Settings:
When entering this menu, you must enter Base PIN code first (4-digits).
Re: The PIN code is for Base Settings. Default is "0000."

a Press 1 to set Assign Next HS:
(1) Enter 2-digit handset ID then press OK (Left) soft key.
(2) When registering a new handset, the base will assign the specific handset ID, which is assigned in advance to the new handset.

b. Press 2 to set Clear HS:

    (1)   Enter 2-digit handset ID, then press OK (Left) soft key.

    (2)   The base will erase the handset ID from the system.

  c. Press 3 to Change PIN:

    (1)   Enter the new Base PIN followed by OK (Left) soft key.

    Re: Default Base PIN is "0000."

8. Press 7 to register, de-register handset : see Handset Registration operation on Page 36.

9. Press 8 to set Menu Display:

To avoid mis-setup of Call Settings (MENU-4), Phone Settings (MENU-5) and Base Settings (MENU-6), you can hide these menus, so that other handset users won't have chance to mis-settup these settings.

Re: When entering the Menu Display, you have to enter password first.

  a. Press 1 to set hiding/un-hiding of the Call Settings menu.

    (1)   Use CHANGE (Left) soft key to select and confirm On or Off.

  b. Press 2 to set hiding/un-hiding of the Phone Settings menu.

    (1)   Use CHANGE (Left) soft key to select and confirm On or Off.

  c. Press 3 to set hiding/un-hiding of the Base Settings menu.

    (1)   Use CHANGE (Left) soft key to select and confirm On or Off.

Re: Selecting "On" means the menu will be displayed on screen. Selecting "Off" means the menu will be hidden.

Technical Specifications

Electrical Specifications	Base Station	Portable Handset
Frequency	902-928 MHz	902-928 MHz
RF Power	Peak: 708 mW Average: 354 mW	Peak: 708 mW Average: 88.5 mW
Channel Spacing	200 kHz	200 kHz
Number of Channels	50	50
Modulation	MSK	MSK
Multiple Access	Frequency Hopping TDMA	Frequency Hopping TDMA
Frequency Hopping Rate	100 per second	100 per second
TDMA Frame Length	10 ms	10 ms
Number of Slots/Frame	8	8
Number of Users/Carrier	4	4
Receiver Sensitivity	< -108 dBm (@ BER 10^{-2})	< -108 dBm (@ BER 10^{-2})
Antenna Connector	Reverse TNC	Non-standard
Antenna Gain	2 dBi	2 dBi (Long) 0.5 dBi (Short)
VoIP interface	RJ45 x 1	NA
SIP protocol	RFC 3261	NA
Speech Coding	64Kbps G.711alaw, G.711 ulaw	8 kbps G.729A
Channel Coding	8 kbps Convolutional + CRC	8 kbps Convolutional + CRC
Transmission Data Rate	170.667 kbps	170.667 kbps
User Data Rate	128 kbps duplex	128 kbps duplex
Duplex	Time Division Duplex (TDD)	Time Division Duplex (TDD)
No. of System ID	65,536	65,536
Ring Signal	20-50 Hz, 15-90 Vrms	NA
Flash Time	100-900 ms programmable	NA
Power Source	100~240V/5V AC/DC Adapter	3.7V, 1100 mAh Li-Ion Battery
Charger Current	NA	500 mA
Charge Time	NA	4 hours (from empty)
Regulation Compliance	FCC Part 15	FCC Part 15
Operating Temperature	0 – 50 °C	-10 – 60 °C
Storage Temperature	-10 – 70 °C	-10 – 70 °C

Humidity	20 – 75 %	20 – 75 %
Dimension without antenna	128(L)x 118(W)x 32(H) mm	158(L)×46(W)×33(H) mm
Weight	TBC	175g

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

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