DuraFon PRO
Digital Long Range Industrial Cordless System

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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. Don’t let a phone call distract you from working safely.
   c. If power goes out, it won’t work. Recommend backup power.

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, 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 expressively 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 outage, 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 reassembling 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 in order not to short-circuit the battery with conductive materials such as rings, bracelets, keys, pocketknife, and coins. The battery or conductive material may overheat and cause burn 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

**DuraFon PRO & DuraWalkie**

**FCC ID:** A8J-SP922PROV3  
**IC:** 10103A-SP922PROV3

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 complies with RSS-210 of the Industry Canada 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 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 an 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.

**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 complies with RSS-210 of the Industry Canada 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 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 an antenna having a maximum gain of 2.5dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.
Equipment Checklist

1. In a Base + Handset package (DuraFon PRO), please find the following components:
   a. Base Station x 1
   b. Base Antenna x 1
   c. Base AC/DC Adaptor x 1
   d. Handset x 1
   e. Low Profile Handset Antenna x 1
   f. Optimal Performance Handset Antenna x 1
   g. 1700mA Li-ion Battery Pack x 1
   h. Charger x 1
   i. Charger AC/DC Adaptor x 1
   j. Telephone Cord x 4
   k. Audio-in Cable x 1
   l. Belt Clip x 1
   m. Quick Guide and Warranty Card
   n. Grounding Wire x 1

2. In a Handset package (DuraFon PRO HC or DuraWalkie), please find the following components:
   a. Handset x 1
   b. Low Profile Handset Antenna x 1
   c. Optimal Performance Handset Antenna x 1
   d. 1700mA Li-ion Battery Pack x 1
   e. Charger x 1
   f. Charger AC/DC Adaptor x 1
   g. Belt Clip x 1
   h. Quick Guide, and Warranty Card

3. In a Base package (DuraFon PRO BU), please find the following components:
   a. Base Station x 1
   b. Base Antenna x 1
   c. Base AC/DC Adaptor x 1
   d. Telephone Cord x 4
   e. Warranty Card
   f. Audio-in Cable x 1
   g. Grounding Wire x 1

4. Optional Accessories
   a. Outdoor Antenna Kit (including antenna and cable)
   b. Lightning Protection Kit (including cable)
   c. DuraPouch
   d. Belt Clip
   e. Spare Battery
   f. Low Profile Handset Antenna
   g. Optimal Performance Handset Antenna
   h. Headset
   i. Antenna Splitter (including cable)

5. Optional Handsets
   a. DuraWalkie
   b. DuraFon UHF-HC
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** (Receive Signal Strength Indicator)
          During a call, the number of bars is proportional to the radio signal strength received.
      (2) **Call in-progress** (ON/OFF-Hook)
          Indicates if phone line mode is active
      (3) **Intercom in-progress**
          Indicates if Intercom mode is active
      (4) **Handset ID**
          Displays a handset icon and a 2-digit Handset ID
      (5) **Two-Digit Address Index**
          Shows address index when viewing contents of the call logs, text messages or phonebook
      (6) **Line Indicator**
          Indicates the number of the line being accessed by the handset.
      (7) **Speaker phone**
          Indicates if speaker phone is active
      (8) **Battery Strength**
          ● Number of bars is proportional to the amount of battery time remaining.
1. Indicates charging when in charger cradle.

d. The 2nd and 3rd lines of the LCD, maximum 14 characters each, display status, message, menu selections, or user-editable alphanumerical characters.

e. The last line displays the left and right soft keys.
   Re: There is only right soft key in idle mode of DuraWalkie.
   Note: ◎ means only shown on DuraFon PRO handset.

2. Ringer
   a. Rings to an incoming call.
   b. Distinctive alert sounds indicating various events:
      (1) Single Beep: successful key entry
      (2) Double beep: failed operation or invalid key entry, also indicates power on/off
      (3) Periodic 1-Long-2-Short Beep (repeat every 10 seconds): low battery warning
      (4) Periodic 1-Long-2-Short Beeps (repeat every 30 seconds): indicates a call is on-hold

3. TALK/FLASH/  (For DuraFon PRO only)
   a. Places or answers a telephone or intercom call
   b. Sends a Flash signal to 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.
   c. Press and hold the key for one second to enable/disable speakerphone

4. KEYLOCK/  (For DuraWalkie only)
   a. In Idle mode, press to lock up the keypad
   b. In 2-Way/Intercom mode, press and hold KEYLOCK key to enable/disable speakerphone.

5. 2-WAY/INTERCOM (For DuraFon PRO only)
   a. Places an intercom call to another handset ID or a group ID.
   b. Intercom calls are digital, full duplex, and are conducted without the assistance from the base.
   c. Press and hold KEYLOCK key for one second to enable/disable speakerphone.

6. BROADCAST ()
   Half duplex broadcasting to handsets for immediate announcement

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

8. Up () / Down () Scrolling Keys
   a. Scroll through records and menu selections.
   b. Adjust receiver voice volume when in Talk mode.

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

Additional Handset Features

1. Multiple handsets registration
   a. Up to 90 handsets.
   b. ID 10 and 11 are the first two ID’s assigned by the base and are designated “administrators” who can change base settings such as greeting message and other base administrative functions.
   Note: Unless necessary, it is better not to assign ID 10 and 11 to DuraWalkie handsets.
   c. ID 01-07: 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. Six ringer volume selections (high/ medium/ low/ vibrate/ vibrate-and-ring/ off)
   b. Four ringer type selections

3. Caller ID (For DuraFon PRO Only)
   Displays incoming call phone number and name on the LCD (needs Caller ID service from local telephone company)
Re: If behind a PBX or Key system, Caller ID information will only be recognized if the PBX or Key system passes that information through the analog ports.

4. Call Waiting with Caller ID (For DuraFon PRO only)
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)
Re: If behind a PBX or Key system, Caller ID information will only be recognized if the PBX or Key system passes that information through the analog ports.

5. Name Tagging with Caller ID (For DuraFon PRO only)
Matches 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 Call Waiting with Caller ID service from local telephone company)
Re: If behind a PBX or Key system, Caller ID information will only be recognized if the PBX or Key system passes that information through the analog ports.

6. DND (Do Not Disturb, i.e., Silent Ring)
Silences the incoming call ring for current call only.

7. Three Call Logs (For DuraFon PRO only)
a. Called Log: Stores 10 phone numbers (up to 28 digits each) dialed most recently. Can perform last-number redial on all 10 numbers.
b. Received Call Log: 10 entries (14-digit phone number, 14-character names, and time stamp), needs Caller ID service from local telephone company.
c. Missed Call Log: 10 entries (14-digit phone number, 14-character names, and time stamp), needs Caller ID service from local telephone company.
d. Phone numbers and names can be saved into phonebook while in display.
Re: If behind a PBX or Key system, Caller ID information will only be recognized if the PBX or Key system passes that information through the analog ports.

8. Key-guard

9. Dialing Prefix (For DuraFon PRO only)
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, phonebook, and dial-and-send dialing.

10. Call Hold (For DuraFon PRO only)
   a. Places call on hold
   b. Battery Hot Swap: Change battery while call is on hold.

11. Mute

12. Phonebook
   a. 90 entries, each stores a phone number or handset ID (up to 28-digit) and name (up to 14-character)
   b. Alphabetically sorted display and searched by letter
   c. Dial from display
   d. During the stand-by mode, you can enter the phonebook by pressing or scrolling key
   e. Phone book transfer via air
      i. Transfer specific phonebook to one handset or all registered handsets
      ii. Transfer all phonebooks to one handset or all registered handsets
   Re: For DuraWalkie, it can only store 2-digit handset ID (or Group ID).

13. Key Tone
   a. Three key-tone volume selections (high/low/off)
   b. Four key-tone type selections

14. Call Timer (For DuraFon PRO only)
   a. Display call time duration for current call during and immediately after the call

15. Call Transfer
   a. Direct Transfer: transfer a telephone call to another handset without announcement.
   b. Announced Transfer: speak to the destination handset before transferring a telephone call.
16. Call Conferencing (For DuraFon PRO only)
   a. 2-handset and 1-line conferencing (Applied for DuraWalkie too).
   b. 1-handset and 2-line conferencing.

17. Line Selection (For DuraFon PRO Only)
    When enabled from the handset menu, a handset user will be prompted to select from a list of available lines before making an outgoing call.

18. PBX option transfer (For DuraFon PRO Only)
    a. PBX transfer via air
    b. Transfer specific PBX option to one handset or all registered handsets
    c. Transfer all PBX options to one handset or all registered handsets

19. Base Selection (For DuraFon PRO only)
    When enable from the handset menu, a handset user can manually select the base which is the nearest one with user before making an outgoing call.

20. Repeater Operation
    In order to get better range performance for handset to handset calls (intercom and broadcast), install a repeater and make the calls via repeater is able to extend the range of handset to handset calls.
Basic Base Station Features

1. Antenna
   a. The antenna port has a reverse 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. Audio-in Jack (3.5mm)

3. Line Status LED
   Indicates an active telephone line.

4. Power LED
   Indicates base station has power.

5. L1 – L4
   Standard RJ-11C/CA-11A connector to plug in the telephone line.

6. DC In Jack
   Jack for AC power adapter
   Re: The AC power adapter is 100~240VAC/12VDC, do not use other non-compatible AC, in case any damage or safety issue.

7. Registration Key (REG)
   Enters registration mode along with handset, assigns handset ID (10-90).

8. Reset Button
   a. Restores base station to factory settings
   b. Reset button is indented to prevent accidental system reset.
   c. All handsets (including administrator) and additional base(s) need to be re-registered after a base station reset.

9. Grounding screw
   Connecting with grounding wire.

10. Console jack
    Jack for firmware upgrade (Type-B USB connector)
    Re: Please consult with EnGenius Tech support about the firmware upgrade.

Additional Base Station Features

1. 4-channel Auto-Attendant
   a. 4 Auto-Attendant can be active at the same time in case of 4 simultaneous incoming calls.
   b. Allows private paging to a single handset (with individual Handset ID) or group paging to a group of handsets (with Group ID).
   c. Per line AA enable/disable by administrator. When disabled for a line, the administrator can set all handsets to ring with an incoming call on that line, or a particular Handset/Group ID (either one; not simultaneously) can be assigned to have incoming call privileges on that line. See AA Configuration by Administrator.
   d. Up to 120 seconds customizable main greeting message.
   e. Default of 4 lines AA is OFF.

2. Optional Outdoor Antenna Kit with cable.

Administrator Features

Handsets 10 and 11 are designated administrators. Both have the same authority to perform base station administrative functions from their handset menu selections. No password is required.

1. Supports both DTMF and Pulse dialing (For DuraFon PRO only)
   a. From an administrator handset (Handset 10 or 11), press \text{MENU} - 9 - 1 - enter base ID (00 – 07) - 1 to select Tone or Pulse dialing mode.
   b. Default is Tone dialing.

2. Administrator programmable Flash key timing (For DuraFon PRO only)
   a. From an administrator handset (Handset 10 or 11), press \text{MENU} - 9 - 2 to select Flash key timing.
   b. 9-level (100 ms - 900 ms) timing selections, default = 600 ms.
   c. The default value (600 ms) works in most areas. Changing this setting may result in Flash function not working. Change only when you are certain the new value will work.

3. Call Transfer to PBX Extension (For DuraFon PRO only)
   a. When the DuraFon PRO is installed behind a PBX system, you can pre-program the feature code of call transfer function.
   b. Need to adjust the Flash time to match your PBX setting.
   Re: If losing administrator handsets (handset 10 and 11), all settings must be reset (reset the base and re-register all handsets).
Charger Features

1. DC In
   Connects to Charger AC Adaptor.

2. Handset Charging Slot
   a. Charge handset battery when handset is placed in cradle.
   b. Refer to the handset LCD for charging status
      (1) Charging: LCD screen showed “Charging”
      (2) Fully Charged: battery status bar stands still and the LCD screen would display “Fully Charged”
      (3) Charge Fail: Should an error occur during charging mode, the LCD screen would display “Charge Fail”

3. Spare Battery Charging Slot
   a. Charge spare battery when battery is placed in slot.
   b. LED as the spare battery charging indicator
      (1) Slot is empty and the power is on: LED is Green light
      (2) Charging: LED is Orange light
      (3) Fully Charged: LED returns to Green light

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

5. The adaptor for charging station can be used as travel charger as well. However, you cannot turn off the power while charging with the travel charger. A Warning message: “Unplug Travel Chgr then OFF” will be shown on the LCD display.

Notes:
I. Fully charge battery packs before first use.
II. Both handset and spare batteries can be charged at the same time.
III. Handset will be “power on” automatically when placing on the charging slot.
IV. However, if you run down the battery, it will take around one minute for handset to auto power on.
Optional DuraFon PRO Platform Products

1. DuraWalkie handset

EnGenius DuraWalkie is an optional digital two-way radio only handset compatible with DuraFon PRO, it can be registered to PRO base as an optional handset. The DuraWalkie handset can broadcast, intercom and even receive a call transferred to it by a PRO full-featured handset. Please contact EnGenius for the detail specifications and features.

2. DuraFon UHF handset

EnGenius DuraFon UHF is an optional dual-mode handset compatible with DuraFon PRO and can be registered to PRO base. The DuraFon UHF handset offer telephone, digital 900 MHz two-way radio as-well-as analog UHF two-way functions. Please contact with EnGenius for the detail specifications and features of the DuraFon UHF handset.

3. DuraFon PSL

EnGenius DuraFon PSL is an optional single-line system compatible with DuraFon PRO, it can be registered to PRO base as a slave single line extension. Please contact with EnGenius for the detail specifications and features of the DuraFon PSL.

4. DuraFon USL

EnGenius DuraFon USL is an optional single-line system compatible with DuraFon PRO, it can be registered to PRO base as a slave single line extension. Please contact with EnGenius for the detail specifications and features of the DuraFon PSL.
**Base Station Installation**

For best performance, maintain a distance of at least 1 meter (about 3 feet) between the base station and other electronic devices (e.g., TV, computer, stereo, fax machine, answer machine, cordless phone, etc.)

1. **Install base station antenna.**
   The base station’s antenna port has a reverse-thread connector; to install antenna or cable, turn counter-clockwise; to remove, turn clockwise. Improper installation may damage the connector.

2. **Plug the transformer end of the base station AC/DC adaptor into a standard AC electrical power outlet, plug the other end into the “DC In” jack on the back of the base station.**
   a. The base adaptor’s DC plug is larger in dimension than the charger’s DC plug. The charger adaptor’s DC plug will not fit into the base’s DC In jack.
   b. The base station’s power supply (DC Adaptor) and telephone line should be plugged into a surge protector with phone line protection.

3. **Plug one end of the phone cord into one of the 4 phone jacks marked L1 ~ L4 and plug the other end into the telephone outlet.** Since DuraFon PRO has the built-in “line detection” feature, it is okay to plug in the phone jacks in random order.

4. **Connect an external telephone answering device by following the instructions that come with the answering device.** An exemplary configuration: install the external answering device in-between the wall phone jack(s) and the Base Station. Either a multiple of single-line answering devices or a multiple-line answering device can be used.

5. **To use the Music/Message-On-Hold feature:** Connect one end of a standard audio cable into a radio or audio player, and plug the other (3.5 mm) end into the MOH jack on back of the base.

6. **To ground the grounding wire**
   a. Loosen the screw of grounding jack (HDR) on the rear of base.
   b. Insert the grounding wire (enclosed in the box).
   c. Tighten the screw.
   d. Connect the grounding wire to the ground.

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**Notes:**
Recommended phone line features from the local phone company:
Multiple phone lines “hunt group” is a useful feature and works well with this phone system. This feature “ties” multiple phone lines to a single phone number. When an outside caller calls this common phone number, the phone company automatically finds a free line. In a hunt group, the Call Waiting and the Caller ID with Call Waiting (or called Type II Caller ID) features are unnecessary because a 2nd call will come in on a separate line, rather than on the same line. For a 2nd call coming in on a separate line, the phone system’s built-in Call Waiting feature will alert the user and allow the user to toggle between 2 lines.

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**Multi-base setups:**
EnGenius DuraFon PRO has the capability to expand the coverage or capacity.
Re: For best performance, maintain a distance of at least 10 meters (about 30 feet) between any two base stations.

- Expanding coverage:
  Parallel connects all L1/L2/L3/L4 in each base as below schematic (up to 8 bases), the use coverage will be several times increased.

**Note:** Telephone calls cannot be handed off between base units.
call, as long as the handsets are in the coverage of base1~3.

1. **Handset Registration.**
   a. Press REG button on Base 00 (default), four LEDs will light up in setting mode.
   b. Handset operation: Press MENU→6→1. (It will complete the registration process)
   c. Repeat, as needed, to add handsets
   **Note:** Additional handsets should be added to the system before adding additional base units.

2. **Establishing additional Base Units:**
   a. Press REG button on new Base.
   b. Use Handset 10 or 11 to Add base:
      Press MENU→8→1
   c. Enter 01~07 (base ID)
   d. Repeat, as needed, to add base units
   **Notes:**
   1. Only Handset 10, 11 can assign Base ID.
   2. Base 00 is a primary base. All handsets must register only on Base 00.

- Expanding capacity
  User capacity can be increased by adding additional base units. Up to 8 base units can be supported.

Re : Handsets can answer calls from any port or line, unless port is dedicated to a specific handset or group.

1. **Handset Registration.**
   a. Press REG button on Base 00 (default), four LEDs will light up in setting mode.
   b. Handset operation: Press MENU→6→1. (It will complete the registration process)
   c. Repeat, as needed, to add handsets

2. **Establishing additional Base Units:**
   a. Press REG button on new Base.
   b. Use Handset 10 or 11 to Add base:
      Press MENU→8→1
      Enter 01~07 (base ID)
   c. Repeat, as needed, to add base units

   **Notes:**
   1. Only Handset 10, 11 can assign Base ID.
   2. Base 00 is a primary base. All handsets must register only on Base 00.
   3. To avoid interference, the interval between any two bases should be at least 10 meters.

### Handset and Charger Installation

1. Plug the transformer end of the Charger AC/DC adaptor into a standard AC electric power outlet, plug the other end into the “DC In” jack on the back of the Charger.
2. Install battery pack onto the handset.
3. Install handset antenna.
4. Place handset onto the charger front slot.
5. 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.

6. Charging cradle may be wall mounted, but an “L” bracket should be used for support under the cradle to avoid breaking mounting slots. An “L” bracket is not included, but can be purchased from a local home center.

Basic Operations

Operation Modes

Both the base station and handset have levels of operation at which time only certain procedures of functions can be performed.

Re: The main difference between DuraFon PRO and DuraWalkie is the handset of DuraFon PRO has the capability to make telephone calls, and the handset of DuraWalkie does not.

A. Base Operation Modes
1. IDLE mode - this is the default mode. The intercom, broadcast, and volume keys are active in IDLE mode.
2. TALK mode - the base operates in this mode during a phone call, intercom use, and broadcast operation. The “In Use”, “Intercom”, and “Broadcast” LED will light up respectively.
3. REGISTRATION mode - the base enters this mode by pressing the REG button for three seconds. There are no active base unit keys once this mode has been entered. Four LEDs will light up in Registration mode.

B. Handset Operation Modes
1. IDLE mode - this is the default mode.
   a. If there is no on-going activity, the handset automatically goes into SLEEP/IDLE mode to save battery power.
   b. The handset can be turned off completely by holding down the END key for 3 seconds.
   c. The idle screen display (custom name) can be edited.
   d. The 2-digit 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 memory can be changed.
   c. The functions available through the MENU selection are covered in greater detail from page 52.
   d. The MENU structure display as below:
Making a Telephone Call (For DuraFon PRO only)

1. Press \[ \text{TALK} \] wait for dial tone, and then enter phone number.

2. Alternatively, you can enter phone number first then press \[ \text{TALK} \] key.
   When using this method, you can use the \[ \text{CLEAR} \] (Left) and \[ \text{DELETE} \] (Right) soft keys to edit the number entered. “Delete” erases the last digit entered. “Clear” erases the entire line but remains in the dialing mode.

3. Speed dial by access the entries in the phone book
   a. Press \[ \text{A} \] or \[ \text{V} \] scrolling key to enter the phone book
   b. Press \[ \text{TALK} \] to dial the number.

4. To abort dialing, press \[ \text{END} \] key.

5. During the call, press and hold the \[ \text{TALK} \] key to activate the speakerphone.

Notes:
1. After a link is established, the Base ID will appear on the upper-right corner. If no Base ID shows up, it implies that you are approaching the boundary of the coverage.
2. If the line is occupied, the LCD shows “No Line Available” and handset returns to standby mode.
3. If a link cannot be established, the LCD shows “No Base” after a 12-second time out.
4. A call duration timer will start displaying the length of the call after link is established.

Making a 2-Way/Intercom Call

The EnGenius Industrial Cordless Phone System offers private, Intercom/2-way radio calls independent of the base station. Intercom/2-way communication can be placed from handset to handset.

Handset to Handset Calls
1. Press \[ \text{I/WAY} \] key followed by a two-digit handset ID or Group ID.

2. Press \[ \text{END} \] key to end the call.

3. During the call, press and hold the \[ \text{TALK} \] key, the speakerphone is active.

Notes:
1. Intercom calls can be made regardless if the Base Station is 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 “No Connection” after a 12-second time out.

Making a Broadcast

1. Broadcasting all handsets
   a. Press & hold \[ \text{BROADCAST} \] key from one handset
   b. A series of beeps will indicate initiation of handset broadcast to all handsets within communication coverage
   c. Begin speaking after the series of beeps has ended.
   d. Release \[ \text{BROADCAST} \] key to end the broadcasting

2. Broadcasting a group of handsets
   a. Enter the Group ID and then press & hold \[ \text{BROADCAST} \] key
   b. A series of beeps will indicate initiation of handset broadcast to all handsets within communication coverage
   c. Begin speaking after the series of beeps has ended.
   d. Release \[ \text{BROADCAST} \] key to end the broadcasting

3. Broadcasting an individual handset
   a. Enter the Handset ID and then press & hold \[ \text{BROADCAST} \] key
   b. A series of beeps will indicate initiation of handset broadcast to all handsets within communication coverage
   c. Begin speaking after the series of beeps has ended.
   d. Release \[ \text{BROADCAST} \] key to end the broadcasting
**Notes:**

1. You need to continuously press the **[Broadcast]** key when doing broadcast. The broadcast will be over once user release the key.
2. You need to notice that there is no bi-bi-beep sound when receiving a broadcast.
3. You can press the **[SILENT]** (Left) soft key if you choose to ignore the call. The **[SILENT]** key operation is valid only for the current call. You can silent all broadcast by turning off the ringer to set auto-silence from the handset menu.

**Redial (For DuraFon PRO only)**

1. Press **[REDIAL]** (Left) soft key.
2. The LCD shows the last phone number dialed. To dial this number, press **[DIAL]** (Left) soft key.
3. Use **[A]** or **[V]** Key to scroll through the last 10 phone numbers dialed. Select and press **[DIAL]** key.
   Note: Intercom numbers (Handset ID) are not stored in the last 10 numbers dialed log.

**Receiving a Telephone Call (For DuraFon PRO only)**

1. When an incoming call arrives, the handset will ring or vibrate unless the ringer has been turned off.
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 then press the **[Talk]** key to start the conversation.
3. If the handset is not on the cradle, press any key (except **[HP]**, and the **[SILENT]** soft key) to answer.
4. During the call, press and hold the **[Talk]** key, the speakerphone is active.

**Notes:**

1. You can press **[SILENT]** (Left) soft key if you choose to ignore the call.

**Receiving an Intercom Call**

1. When an intercom call arrives, the handset will ring or vibrate unless the ringer has been turned off. Press **[Talk]** to answer the intercom call.
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 **[Talk]** key to answer intercom call.
3. If the handset is not on the cradle, press **[Talk]** key to answer.
4. During the call, press and hold the **[Talk]** key, the speakerphone is active.

**Notes:**

1. The LCD displays the caller’s Handset ID.
2. You can press the **[SILENT]** 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 **[End]** key or place handset into charging cradle.

**Adjusting Receiver (Earpiece) Voice Volume**

1. Voice volume can only be adjusted during a call.
2. There are 6 levels of volume selections. Default as volume 3. Use 

\[A\] and \[V\] scrolling key to adjust.

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

Placing a Call On Hold (For DuraFon PRO only)

1. When a call is in progress, it can be put on hold by pressing the \[HOLD\] (Right) soft key.

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

Notes:
1. The call being placed on hold can only be removed from \[HOLD\] by the handset that puts it on hold.
2. Handset LCD displays a call is being on hold. An alert tone (double beep) every 30 seconds will remind the handset that a call is being on hold.
3. If the operation (e.g., call transfer) after putting a call on-hold fails, the held call may be dropped.
4. You can power off the handset (e.g., change battery) while call is on hold. After power on again, you can continue the call by pressing \[UNHOLD\] (Left) soft key or select “3” from the Option menu to terminate the hold state.
5. You can only unhold the call when within the coverage area of the base. Once you’re out of the base coverage, you can return to stand-by using “Clear hold” function in the OPTION list item #3.

Mute

1. After a link is established, you can press \[OPTION\] (Left) soft key and press 0 to mute the handset microphone.

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

3. To end the mute, press \[OPTION\] (Left) soft key and press 0 to unmute the handset microphone.

Re: If established an intercom call, when end the mute, press \[UNMUTE\] (Left) soft key.

Do Not Disturb (Silent Ring)

1. Enter the key sequence \[MENU\] \[\rightarrow\] 4.Sounds \[\rightarrow\] 1.Ring Volume, then select “Off”. Press \[SAVE\] 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.

Key Guard

1. To prevent accidental dialing, you can press \[MENU\] (Right) soft key, then press 1 to select KeyGuard option. The handset keypad is locked. No key entry is accepted except the power on/off key.

2. To unlock the keypad, press \[UNLOCK\] (Left) soft key, then, within 2 seconds, press the digit “1” to unlock.

3. Key Guard is in effect until unlocked or powered off.

To View Missed Call(s) (For DuraFon PRO only)

1. Whenever you have missed incoming call(s), you can press \[VIEW\] soft key to enter the call logs information.

2. You need to subscribe the caller ID service from local telephone company to retrieve this data.

To Call back from Call Log (For DuraFon PRO only)

1. When you review missed incoming call(s), you can directly call back by pressing \[MNL\] key.
2. The displayed CID number in most cases will be a 10-digit number with the 3-digit area code followed by the 7-digit telephone number. If the area code is unnecessary for calling back, you can follow below rule to adjust the calling back number:
   a. Press **FORMAT** key once, the 3-digit area code will be removed.
   b. Press **FORMAT** key twice, “1” will be added in front of the displayed number.
   c. Press **FORMAT** key three times, it will loop back original displayed number.
   Re: The CID default is 10 digits, when press **FORMAT** key, it will be 7-digit → 11-digit → 10-digit in circle.

3. After the displayed number chosen, press the **TALK** key to call back.

**Battery Recharge and Replacement**

1. Charge the battery when one or several of the following happen:
   a. Phone beeps twice every two seconds.
   b. Battery icon is empty.
   c. Phone does not respond when a key is pressed.
   d. LCD and backlighting become dim.
   e. A decrease in coverage is experienced.

2. You can replace the handset battery after placing the call-in-progress on hold.

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

**Advanced Operations**

**Handset Registration**

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

2. If the Handset ID reads “00,” that means it is a new handset or the ID has been erased. You need to register the handset with the base station. In certain situations, you may want to change a handset’s ID. For example, you want to change a particular handset from a user to an administrator (ID 10 or 11), or vice versa. Or in some rare occasions, you find another handset having the same Handset ID.

3. Registration:
   a. Press MENU-6 to enter the registration mode
   b. Press and hold the base’s Registration (**REG**) button for 2 seconds until the L1, L2, L3, and L4 LED come on.
   c. Press handset key “1”, this completes the registration process.
   d. Repeat above steps for all additional handsets.
   e. The first two handsets registered will be given ID 10 and 11, which gives them administrator privileges.

Re: Base 00 is a primary base. All handsets must register to Base 00.

4. De-registration:
   a. You can de-register a handset from a base. De-registration will reset the Handset ID to 00, erase the system security code, and free up the old ID for future registration.
   b. After deregistration, the handset will not be able to use the base to make or receive phone calls, nor can it use the intercom to reach other handsets.
   c. Press handset **MENU** (Right) soft key.
   d. Press the handset number key 6, this will enter the handset registration menu.
   e. Press and hold the base’s **REG** button for 2 seconds until L1, L2, L3, and L4 LED come on
   f. Press the handset number key 2, this completes the de-registration
process. Upon successful de-registration, the handset will show ID “00”.

Notes:
1. The base has a 30 second registration timeout starting from pressing the REG button. The handset has a 12 second registration timeout starting from the time registration or de-registration option has been selected. The base and handset will automatically exit registration mode after timeout.
2. Repeat registration or de-registration process if unsuccessful.

Advanced Registration:

1. Advanced registration functions can be performed by administrator handsets (ID 10 and 11) only.
2. Administrator handsets can perform advanced registration function as long as it is within range with the base station. The base station does not need to be in registration mode.
3. De-register a Handset ID by administrator:
   a. Make sure that the administrator handset is within the coverage range of the base station.
   b. Press administrator handset MENU (Right) soft key
   c. Press the number 9, this will enter the handset administration menu.
   d. Press number 4, handset enters system setting menu.
   e. Press number 1, and enter the two-digit Handset ID to be cleared.
   f. Upon successful operation, the handset LCD will display “Done”, otherwise it will show “Message not received, try again”.
4. Obtain a Specific Handset ID:
   a. If a particular Handset ID is preferred over sequentially assigned ID, the administrator can “tell” the base in advance what the next ID assignment should be.
   b. Press administrator handset MENU (Right) soft key.
   c. Press the number 1, this will enter the handset administration menu.
   d. Press number 5, handset enters system setting menu.
   e. Press number 5, and enter the two-digit Handset ID to be assigned next by the base.
   f. Upon successful operation, the handset LCD will display “Done,” otherwise it will show “Message not received, try again.”
   g. If the handset ID is already in use by another handset, the administrator will be alerted. In that case, the administrator can choose another ID or asks the handset having the desired ID to vacate by de-registering with the base.
   h. Perform registration immediately afterward for the handset desiring a specific ID to ensure that the ID is not taken by another handset.

5. Remotely register Handset:
   a. If base install in ceil or higher location, administrator handsets can perform remote registration.
   b. Press administrator handset MENU (Right) soft key
   c. Press the number 6, this will enter registration mode.
   d. Press number 3, this will replace the procedures to press & hold the base REG button until the L1, L2, L3 and L4 LED come on.
   e. Proceeding the handset registration process for new handsets.

Notes:
1. De-registration by the administrator will disable a handset’s ability to use the base station to make or receive phone calls. This also frees up the ID for future registration.
2. Handsets de-registered by the administrator can still perform intercom to other handsets.

Handset Group Subscription

1. Up to nine handset groups (01-07) can be defined and handsets 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, 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.
3. Group Selections:
   a. Press handset MENU→5 to enter the handset setting menu
   b. Press number 2, handset enters group select menu.
c. Press ADD soft key and enter two-digit group number (01~07) to add membership in a group.
d. Repeat for all desired groups.
e. Delete group selections by pressing DELETE (Right) soft key and enter group number.

**Notes:**
1. The handset can change group affiliations at any time.
2. The base (administrator) is not responsible for group assignments. Consequently, it cannot unsubscribe a handset from a group.

**Call Transfer (For DuraFon PRO only)**

1. While a telephone call is in progress, you can place the call on hold and transfer the call.
2. Press HOLD soft key to put call on hold.
3. Press OPTION soft key to enter feature list for selection.
4. Press number 2 and enter a two-digit Handset ID to call another handset extension.
   a. Un-announced Call Transfer: Press END before the destination handset answers, the call is automatically transferred to the destination handset.
   b. Announced Call Transfer:
      1) Speak to the destination handset.
      2) Press XFER soft key or the END to end announcement. The call is transferred to the destination handset.

**Notes:**
1. If the destination handset does not answer after handset paging timeout, the call is routed back to the originating handset.
2. Above described “Call Transfer” is for DuraFon PRO handset-to-handset call transfers.

**3-Way Conferencing (For DuraFon PRO)**

1. While a telephone call is in progress, you can place call on hold and bring in another phone line or another handset for a 3-way conference.
2. Press HOLD (Right) soft key to put the current call on hold.
3. Press OPTION (Right) soft key to enter selection menu.
4. 3-Way Conferencing with a Second Handset:
   a. Press number 2 and enter a two-digit Handset ID to call another handset extension.
   b. After the second handset answers, press the CONF (Left) soft key.
   c. Two handsets and one phone line can now talk simultaneously. Any one party can drop out of the 3-way conferencing, leaving the remaining two parties still connected.
5. 3-Way Conferencing with a Second Phone Line:
   a. Press number 1 and enter a phone number to call another phone line.
   b. After the second line answers, press the CONF (Left) soft key.
   c. One handset and two phone lines can now talk simultaneously.
      I. If one phone line hangs up, the handset continues talking to the remaining phone line.
      II. If the handset presses END key, the 2nd phone line will be dropped. The handset and the first phone line continue conversation.

**Notes:**
1. 3-way conferencing between 3 handsets is not supported.
2. Unlike 3-way conferencing provided by the phone company, 3-way conferencing involving 2 phone lines will take up two physical lines, leaving only two lines left available for other handsets. The handset must have access to a second line.

**Base Select (For DuraFon PRO only)**

1. A handset can manually select the desired base station before
access outbound line.

2. Press handset \textit{MENU} (Right) soft key.

3. Press the number 5, this will enter the handset setting menu.

4. Press number 3, handset enters Base Select setting mode.

5. Use \textit{A} or \textit{Y} arrow to scroll up and down the selection on/Off.

6. Make a selection (default = off), and press \textit{SAVE} (Left soft key).

Re: When turns on the Base Select, you must enter 2-digit Base ID after press \textit{BACK} key.

\textbf{Notes:}

1. Because this setting allows handset manually select the base station, the handset must be in range with the direct base station.

\textbf{Call Waiting (For DuraFon PRO only)}

1. A handset, while talking on one phone line, can be informed of the arrival of a new incoming phone call.

2. For example, suppose that Handset 15 is talking on Line 1. When a new call comes in on, Line 4, and the caller enters extension number “15” when prompted by the AA, or if the call is set to be routed to Handset 15 when AA is disabled.

3. The base station recognizes that Handset 15 is busy. Instead of announcing to Line 4 that Handset 15 is busy, the base sends an alert to Handset 15.

4. Upon receiving the alert, the handset sounds an audible double beep alert and LCD displays “New call on Line 4”.

5. Handset 15 can:
   a. Ignore the new call; continue talking to Line 1.
   b. Press \textit{Switch} key to switch to Line 4.
   c. Subsequent pressing of \textit{FLASH} key will toggle between Line 1 and Line 4.
   d. Press \textit{END} key while talking to a line will terminate that particular call and automatically switch back to talking to the remaining line.

\textbf{Notes:}

1. This built-in call waiting is separate from the Call Waiting feature available from the local phone company. The phone company provided Call Waiting functions on the same phone line, while the DuraFon Call Waiting functions on two separate phone lines.

2. This feature only works for 2 lines, if a 3rd phone call comes for the same handset, the call will not be routed to the handset.

3. It is recommended to order from the local phone company Hunt Group feature for all your lines and not subscribe to the Call Waiting feature.

\textbf{Visual Message Waiting Indicator (VMWI)}

VMWI feature is supported via FSK message signaling when received from the phone company telephone line or PBX system; It will activate a message icon on the handset display and flash the VOICE MESSAGE LED on the base.

\textbf{Notes:}

1. A subscription to the telephone company 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 the “Caller ID” key on the handset.

\textbf{Auto Attendant (AA)}

1. When enabled by the administrator, an automated attendant would greet a telephone line incoming call.

2. The caller will be prompted by the greeting message to enter a two-digit extension number (Handset ID) or press for operator

3. The greeting message is user programmable. The Handset ID that is designated as the operator is also user programmable.
   a. Default greeting message (Main OGM): “Please enter the extension number or press for the operator”
AA will ask for another handset ID if the first entry is invalid (no registered handset with that ID) with the announcement (OGM2): “The extension you entered is invalid, please try another extension or press for the operator”.

If there is no entry time out, AA will announce (OGM3): “Please hold, your call is being transferred to the operator”. And automatically ring the operator handset.

If the destination handset does not answer (busy, power off, or out of range) after handset paging time out, the AA prompts the caller for another extension number by announcing (OGM5): “The extension you’ve entered is busy or not available. Please enter another extension number or press for the operator”.

If the 2nd try is still not successful, AA will announce (OGM4): “Sorry, nobody can answer your call right now. Please try again later, goodbye”. Then drops the call.

When the DURAFON PRO base station is connected to wired PBX extension lines, calls addressed/routed to the AA operator can be sent back to the operator of the wired PBX system. From an administrator handset, up to 10 keys/digits are allowed to program a specific code in order to transfer the calls back to the wired PBX. This feature can only be enabled and pre-programmed by an administrator handset (Handset ID 10 or 11). Consult with the wired PBX manual for operation instructions and correct key sequence for transfer calls to the operator from an extension.

Notes:
1. Intercom calls are not routed by Auto-Attendant.
2. Routing messages OGM2,3,4 and 5 are not user programmable.
3. The timeout is 5 seconds for entering extension number.
4. The calls can be routed to either a Handset ID or an extension number of the wired PBX system. There can be only one operator for the AA, which is either an DURAFON PRO handset or the wired PBX operator.
5. Call routing is at most 2 hops. That is, if both the 1st and the 2nd handsets do not answer, the call will be terminated if the operator does not answer.

AA Configuration by Administrator

1. Administrator can change the following AA settings:
   a. Record/playback new main greeting message.
   b. Set number of rings before AA picks up a call.
   c. Turn on/off the AA line-by-line.
   d. Set Designated Handset ID for AA disabled line(s). Either the Designated Handset ID or the Group ID can use that particular line for incoming and outgoing calls. Which means this specific line(s) will be dedicated to a particular handset (Handset ID 10-99) or a calling group (Group ID 01-07).
   e. Designate an operator, the handset which would answer un-routable calls or when the caller chooses “Operator” when prompted.

Change AA Parameters

a. From an administrator handset (Handset 10 or 11), press \textbf{MENU} (Right soft key).
b. Press number 3, this will enter administration menu.
c. Press \textbf{5}, handset enters AA setting menu.
   i. Press 1 and follow instruction to record new greeting message.
   ii. Press \textbf{2} to playback the current greeting message.
   iii. Press 3 to set number of rings before the AA picks up a call. Use Up/Down arrow to choose between 2 and 9 rings.
   iv. Press 4 to turn AA On/Off. This can be done separately for each phone line by using \textbf{A} or \textbf{Y} to scroll through Line 1 to Line 4, and press \textbf{On} or \textbf{Off} soft key to turn AA On/Off. If turning off the AA may be useful when:
      - The line is not used by a group of people.
      - External answering machine is to be attacked to the line.
   v. Press \textbf{5} and select from the following two options to set Operator for AA:
      - “Handset” : assign a specific handset as operator by entering a two-digit handset ID (default=Handset 10) as operator for all calls addressed to the operator when AA is on, or “PBX” : transfer calls to be answered by the operator back to the designated wired PBX operator. System administrators must know the proper programming and “call transfer” feature code (available from the user manual of the wired PBX system) in
order to perform this function correctly.
- The following example is the instruction to route a call back to the brand N's PBX system by pressing “Flash-7-0-1-8-3-0”, where a Flash key is pressed followed by the call transfer code “70”, then enter the extension number “1830” immediately. Confirm the set up by press using the SAVE (Left soft key).

Notes:
1. Only administrator can change AA settings.
2. Because AA setting is stored on the base station, the handset must be in range with the base to make changes.
3. The maximum recording time for the greeting message is 120 seconds.
4. Allowing each line’s AA to be turned on or off separately is useful if different lines are used for different purposes.
5. When AA is disabled, the line can be dedicated to either an individual Handset ID or a Group ID.
6. The operator can be any individual handset or a group; it doesn’t need to be an administrator handset (Handsets 10 and 11).
7. The minimum number of rings before the AA picks up cannot be lower than two for the purpose of receiving the Caller ID message.

Line Dedication

1. Line dedication function can be performed by administrator handsets (ID 10 and 11) only.
2. By default all incoming calls will ring all handsets.
3. With the administrative handset, press MENU - 2 - 2 for Line Dedication setting.
4. It will first show Line 1 and line status. If you wish to dedicate line 1 to a specific handset or group, you need to press CHANGE. To dedicate lines 2-4 use or scrolling key on the keypad.
5. After choosing a line, it will show YES and NO, when choosing YES, you need to enter the handset ID or group ID for extension number. If you choose NO, it will go back to Line Setting menu.

Notes:
1. When entering Line Dedication setting, it will show line and status. If line is already dedicated to a specific handset or group, it will show the handset or group ID behind the line. If line isn’t dedicated to a specific handset yet, it will show “ALL HS” behind the line.

2. When setting Line Dedication, make sure the handset or group ID is correct to avoid losing calls sent to an DuraWalkie handset or invalid ID.
3. Handsets dedicated to a port will also receive calls from non-dedicated line as well as the handset’s dedicated line. Use Line Dedication for a group on other lines to further manage calls.

Line Selection (For DuraFon PRO only)

1. Press MENU - 5 - 8 while the phone is in standby to enter Line Select menu.
2. Use or to switch between On and Off, default = Off.
3. If set to On, when pressing or entering a phone number followed by pressing key, the handset LCD display will show “Select Line” followed by available lines (1~4). Select from one of the available lines i.e. press 1 to select line 1 and press 2 to select line 2.
4. This feature is also supported when selecting a second line during call conferencing.

Change System and Line Settings by Administrator

1. There are two system parameters that can be changed by the administrator: clear (de-register) handset ID and set the next handset ID to be assigned by the base.
2. From an administrator handset (Handset 10 or 11), press MENU (Right) soft key.
3. Press number 9, this will enter the administration menu.
4. Press number 1, handset enters System setting menu.
   a. Dial tone:
      Press 1 to set up the dial tone to be either “Tone” or “Pulse.” Press 1 to choose “Tone” or press 2 to choose “Pulse.”
   b. Flash time:
      Press 2 to set up the flash time from 100ms, 200ms, to 900 ms (9 levels to choose from.) For example, press 2 if the desired flash time is 200ms.
   c. Line Detect:
      Press 3 to set up the line detect to be either “On” or “Off.” Press 1 to choose “On” or press 2 to choose “Off”. Default is “Off”.
d. Clear Handset ID:
   Press 4 and enter a two-digit Handset ID when prompted to clear this ID for later assignment.

e. Set next Handset ID to be assigned:
   Press 5 and enter a two-digit Handset ID when prompted. This is the ID that will be given out by the base to the next handset registering with the base.

5. Press number 2, handset enters Line Setting menu.
   a. Enter Base ID(00~07) to access base.
   b. Press 1 to enter Broadcast setting
      i. Press handset OFF (Right soft key) to disable broadcasting function;
      ii. Or press handset ON (Left soft key) to enable broadcasting function
   c. Press 2 to enter Line dedication setting
      i. Select base’s line and press handset OK (Right soft key)
      ii. Line Dedicate confirm:
         Press NO (Right soft key) to go back Line Setting Menu.
         Press YES (Left soft key) then enter extension number.

Note:
De-registration by the administrator will disable a handset’s ability to use the base station to make or receive phone calls. This also frees up the ID for future registration.

Phonebook Operations

1. You can store up to 90 entries in the phonebook. Each entry can contain a phone number or handset ID (up to 28 digits) and a name (up to 14 characters).
   Re: For DuraWalkie, each entry can store 2 digits handset ID or Group ID.

2. To access phonebook, press MENU followed by 2 or \ or \ scrolling key when handset in standby mode.

3. To add a new entry:
   a. Press ADD soft key.
   b. Enter a phone number when LCD prompts “Number?” Use DELETE soft key to delete the last digit entered. Press SAVE when completed.

   You will then be prompted to enter a name for the phone number just entered.
   (1) Press SAVE key to enter a phone number without a name.
       All records without a name will be placed on top of the list, in the order they are entered.
   (2) To enter the name, press the corresponding keypad number one or more times according to the order of the character on the key.
   (3) Use DELETE soft key to delete the last character entered.
       When completed, press SAVE soft key to confirm your selection.

Notes:
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.
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 or delete.
By default, all letters are entered in the upper case. Use the * key to toggle between upper and lower cases.
A “Pause” entry represents a 0.5 second delay in dialing the following digits, which is useful when calling a sequence of segmented numbers (e.g., access code, credit card number, auto-attendant entries, etc.) Pause is entered by pressing the * key twice (LCD displays P). Entering pause twice (PP) will result in 5.6 seconds pause in the dialing.

4. The entries are alphabetically sorted and stored as a list in an ascending order (A to Z) from the top of the list.
   a. If the phonebook is entered from the menu, the first entry displayed is from the top of the list.
   b. If the phonebook is entered using the \ or \, the first entry displayed is from the top of the list.
   c. If the phonebook is entered using the \ or \, the first entry displayed is from the bottom of the list.
5. The first line of LCD display shows name and the 2nd line shows the phone number. If the phone number is longer than 14 digits, press [OPTION] soft key and select Option 3 to view the complete number.

6. To search for a record:
   a. Use [A] or [V] 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”, and then press the number B once.
   d. Use [A] or [V] scrolling key to locate the exact record you are looking for.

7. To erase phonebook entry:
   a. Use [A] or [V] scrolling key or the alphabetical search method to locate the record to be erased.
   b. Press [OPTION] soft key to enter editing menu.
   c. Press 1 to erase the designated phone entry.
   d. LCD shown “Are you sure?” Press [YES] to double confirm your change.

8. To edit phonebook entry:
   a. Use [A] or [V] scrolling key or the alphabetical search method to locate the record to be edited.
   b. Press [OPTION] soft key to enter editing menu.
   c. Press 2 to edit the designated phone entry.

9. Dial from display:
   a. Press [TALK] or Intercom to dial the phone number or Handset ID displayed.

10. To transfer phonebook:
    To transfer phonebook, both parties have to enter the phonebook transfer mode firstly by following below:
    a. Press [OPTION] follow by 4 or [A] or [V] scrolling key when handset in phonebook mode.
    b. For phone sending party, press 1 to enter sending mode. Either press [TX ALL] (left soft key) to transfer all phonebook entries to another handset(s). Or press [TX ONE] (right soft key) to transfer one entry to another handset(s). Press 2-digit handset ID or group ID, then select all phonebook entries or one entry to be transferred. Re: “00” means all handsets
       During phonebook transferring, LCD shows “Sending” and 2-digit countdown on the LCD to indicate the phonebook numbers which are waiting for sending.
    c. For phonebook receiving party, press 2 to enter receiving mode.
       When entering the receiving mode, LCD shows “Ready”. Start to receive phonebook, LCD shows “Get phonebook from Ext. # : xx”.
       A beep emitted when receiving each phonebook.
    Re: The phonebook transfer through the wireless interface, it may partially miss transmission by interference.

Notes:
Character Table:

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<thead>
<tr>
<th>Key</th>
<th>Characters and Orders</th>
</tr>
</thead>
<tbody>
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<td>1</td>
<td>` , +, * ( ) &amp; 1</td>
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<td>0</td>
</tr>
<tr>
<td>*</td>
<td>Toggle case when in character editing</td>
</tr>
<tr>
<td>*</td>
<td>P (Pause) when in number editing</td>
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<tr>
<td>#</td>
<td>Space – when in character editing</td>
</tr>
<tr>
<td></td>
<td># when in number editing</td>
</tr>
</tbody>
</table>
Broadcast through PBX

1. DuraFon PRO and DuraWalkie both have the broadcast function, each can broadcast another handset without going through the base station, as long as the handsets are connecting. However, when setting up the multi-base, the broadcast feature may not be available due to the coverage range. In that case, you can use the function of “Broadcast through PBX” to broadcast.

2. From an administrator handset (Handset 10 or 11), press **MENU** (Right) soft key.

3. Press number 9, this will enter administration menu.

4. Press number 2, handset enters Line setting menu.
   a. Enter Base ID(00~07) to access base.
   b. Press 1 to enter Broadcast setting
      i. Press ↑ or ↓ to select L3 or L4 (the status of setting will be displayed on LCD)
      ii. Press **CHANGE** to enter the setting mode, and the base ID will be displayed on LCD.
      iii. Press **On** (Left soft key) to enable the broadcast function.
      iv. After setting broadcast, press **On** (Left soft key) to enable the AA. Press **Off** (Right soft key) to disable the broadcast function.

5. When calling through the line 3 or 4, the caller will be prompted by the greeting message to enter a two-digit extension number (”01” ~ “07” for Group ID: “10” ~ “99” for Handset ID: “00” for all).
   a. The greeting message : “Please enter broadcast ID or wait for a tone to page all”
   b. If there is no entry after 5 seconds, the broadcast will be enabled to all handsets.

Note :
1. Line 3 and/or 4 can be reserved for broadcast function.
2. When enable the broadcast function, each line (either Line 3 or 4) will take two time slots for one single call.
3. When configuring a base with a single broadcast port (e.g. line 3), the feasible simultaneous call will be line 1, line 2 and line 3, the line 4 will not be able to make or receive call.
4. When configuring a base with dual broadcast ports, if line 3 and 4 are making broadcast, at the same time, the line 1 and line 2 are no longer to make or receive calls.
5. Broadcast is limited to 30 seconds.

Repeater Operation

1. Due to the range performance of handset to handset calls (intercom or broadcast) isn’t as good as line calls, in order to get better range performance for handset to handset calls, install a specialty repeater base and make the digital two-way radio calls via the repeater for optimal performance.

   Re: the “Repeater” requires specialty base unit.

2. The procedure of repeater’s registration is same as the multi-base which can be performed by administrator handset (Handset 10 and 11).

3. From an administrator handset (Handset 10 or 11), press **MENU** – 7 to enter the “BC/INT Type” menu setting.

4. Press ↑ or ↓ key to select “Repeater Mode”, then press **SAVE** (Left soft key) to confirm the selection.

   Re: When setting to “Repeater” mode, the handset to handset calls will always via repeater.

5. Enter the base number (00~07) which assigned the base to be a repeater.

6. The default of “BC/INT Type” is “P2P Mode”.

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Notes:

a. The repeater must work with PRO system.
b. A repeater can only support 2 simultaneous intercom calls (2 pairs handsets). Or can only support 1 broadcast call.
c. In order to operate with a PRO system, the repeater must be assigned a base ID from the PRO system, please refer to the multi-base setup to add the repeater as a multi-base.
d. The handsets which intend to work with the repeater require enabling a “Repeater Mode”.
e. When enabling the “Repeater Mode”, both intercom and broadcast calls will go via the repeater, instead of the original direct handset to handset (P2P mode).
f. A repeater will not support any PSTN or analog port call.
g. Two-watt radio calls will not be handed-off between multiple repeaters.
h. Phone calls do not utilize the repeater base(s) nor increase the call coverage.
i. When using a repeater, if the repeater is busy or not available, after time out period (broadcast: ~8 sec, intercom: ~40 sec) the call will be convert to “P to P” instead.

Menu Operations

DuraFon PRO

- Intercom
- Broadcast (PA)

Main menu

Sub-menu

1. KeyGuard
2. PhoneBook
3. Call Logs
4. Sound
5. Settings
6. Registration
7. BC/INT Type
8. Multi-Base
9. Admin

1. Dialed
2. Received
3. Missed
4. Ring Volume
5. Ring Tone
6. Key Volume
7. Key Tone
8. Dial Prefix
9. Group Select
10. Base Select
11. Clear
12. Naming
13. Contrast
14. Backlight
15. Line Select
16. PBX Options
17. Language
18. #.PA On/Off
19. *.Name Tag
20. 1. Register
21. 2. Deregister
22. 3. Remote REG
23. P2P Mode
24. Repeater Mode
25. Select Mode: 1. Add Base
27. 2. Line Setting
28. 3. Auto Attndnt
1. Press **MENU** (Right) soft key while the phone is in standby.

2. Press **1** to lock keypad (see Key Guard).

3. Press **2** to view, search, erase, edit and transfer the phonebook (see Phonebook).

4. Press **3** to view the last 10 numbers called, received, or missed. Records can be erased or edit/save into the phonebook.
   a. Press **1** to view the last 10 phone numbers dialed, starting from the most recent one. Use **A** or **Y** to scroll through the list.
      i. Press **OPTION** (Right) soft key for options.
         - Press **1** and confirm to erase the current record.
         - Press **2** to edit and save or save without editing into the phonebook.
         - Press **3** to view the complete number if the phone number is longer than 14 digits.
   b. Press **2** to view the last 10 phone numbers received, starting from the most recent one. Use **A** or **Y** to scroll through the list.
      i. Press **OPTION** (Right) soft key for options.
         - Press **1** and confirm to erase the current record.
         - Press **2** to view the arrival date and time of the call.
         - Press **3** to edit and save or save without editing into the phonebook.
   c. Press **3** to view the last 10 phone numbers dialed but not answered, starting from the most recent one. Use **A** or **Y** to scroll through the list.
      i. Press **OPTION** (Right) soft key for options.
         - Press **1** and confirm to erase the current record.
         - Press **2** to view the arrival date and time of the call.
         - Press **3** to edit and save or save without editing into the phonebook.
   d. The two-digit index on the upper right corner of the LCD display shows the location in ascending order, with 01 being the most recent call.
   e. While viewing any of the three call logs, press **DIAL** (Left) soft key to dial the phone number.

**Notes:**
1. Only phone numbers are stored in the three call logs. Intercom calls are not recorded.
2. Caller ID service is required from your local phone company in order to receive phone numbers, names and time stamps on incoming calls. The Received and Missed Call Logs will register no incoming calls if Caller ID service is not available.
3. The Caller ID feature may not be supported by all PBX or Key systems’ analog ports, check with your equipment provider.

5. Press **4** to set sound-related settings:
   a. Press **1** to select ringer volume: Use **A** or **Y** to scroll through 6 options: Low, Medium, High, Vibrate, Vib and Ring, Off. Press **SAVE** (Left) soft key to save selection. Default = High.
   b. Press **2** to select ringer tone: Use **A** or **Y** to scroll through 4 options: 0, 1, 2, and 3. Press **SAVE** (Left) soft key to save selection. Default = 0.
   c. Press **3** to select key volume when a key is pressed: Use **A** or **Y** to scroll through 3 options: High, Low, and Off. Press **SAVE** (Left) soft key to save selection. Default = Low.
   d. Press **4** to select key tone: Use **A** or **Y** to scroll through 4 options: 0, 1, 2, and 3. Press **SAVE** (Left) soft key to save selection. Default = 0.

6. Press **5** to change handset settings:
   a. Press **1** to set dialing prefix:
      i. Use **A** or **Y** to scroll and select to turn on or off the dialing prefix feature. Default = Off.
      ii. If “On” is selected, the handset is prompted to enter a prefix, up to 14 digits.
      iii. Use **DELETE** (Right) soft key and **A** or **Y** to edit prefix.
      iv. When this feature is turned on, the LCD will prompt the user on each outgoing phone call except during redial or dialing by pressing the **TALK** key first whether to use the dialing prefix. The current prefix is also displayed. Press **YES** (Left) or **NO** (Right) soft key to add the prefix to the beginning of the number.
   b. Press **2** to Group Select: see Handset Group Subscription.
   c. Press **3** to set or turn Base Select on or off. Default = Off. See Base Select.
   d. Press **4** to clear call logs and phonebook:
      i. Press **1** and confirm to delete the entire phonebook.
      ii. Press **2** and confirm to clear the three call logs (Called, Received, and Missed).
   e. Press **5** to edit the name of Custom or Line:
      e-1. Press **1** to change the power-up LCD display to show, e.g., customer name or other greeting message:
e-2. Press 2 to change the name of line, when calls coming, it will indicate the calls came from which line.
   i. Use  4 or  6 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).
   ii. Enter characters using the Character Table and method discussed in the Phonebook section.
   iii. When finished, press SAVE (Left) soft key to save change.

f. Press 5 to change LCD display contrast:
   i. Use  4 or  6 to scroll through values 1 to 8. Pick one that is most suitable to you. Default = 6.
   ii. Press SAVE (Left) soft key to save setting.

g. Press 7 to change the LCD backlight:
   i. Use  4 or  6 to scroll through options: On, Off, and 20 Seconds. Default = 20 seconds, meaning that the backlight on, will turn off after 20 seconds of inactivity.
   ii. Press SAVE (Left) soft key to save setting.

h. Press 8 to change the line selection:
   i. Use  4 or  6 to scroll through options: On or Off. Default = Off, meaning that you can not select the other available lines to dial.
   ii. Press SAVE (Left) soft key to save setting.

i. Press 9 to change the PBX options:
   i. Press ADD soft key to edit a PBX feature to be memorized and key in the name of the PBX features just like editing a phonebook entry.
   ii. Press SAVE (Left) soft key to save setting.
   iii. Press OPTION and  1 following by entering PBX options mode, you can erase the PBX option.
   iv. Press OPTION and  2 following by entering PBX options mode, you can edit the PBX option.
   v. Press OPTION and  3 following by entering PBX options mode, you can transfer the PBX options to other handset(s).

Re: To transfer PBX Options, both parties have to enter the PBX Option mode firstly by following below:
   For sending party, press  1 to enter sending mode.
   • Either press TX ALL (left soft key) to transfer all PBX options to another handset(s).
   • Or press TX ONE (right soft key) to transfer a specific entry to another handset(s).
   • Press 2-digit handset ID or group ID, then select all PBX options or a specific entry to be transferred (“00” means all handsets)
   • During PBX options transferring, LCD shows “Sending”, and 2-digit countdown on the LCD to indicate the numbers of PBX options which are waiting for sending.

For receiving party, press  2 to enter receiving mode.
   • When entering the receiving mode, LCD shows “Ready”.
   • Start to receive PBX options, LCD shows “Get PBX options from Ext. # : x x x x”.
   • When the PBX options is receiving, 2-digit countdown on the LCD indicates the number of PBX options which are waiting to be received.

j. Press 0 to change Language:
   i. Use  4 or  6 to scroll through options: English, Spanish and French. Default = English, meaning the LCD display shows in English.
   ii. Press SAVE (Left) soft key to save setting.

K. Press # to turn Broadcast On/Off.
   i. Press On (Left soft key) to turn on the broadcast function (including the broadcast of handset to handset and base to handset).
   ii. Press Off (Left soft key) to turn off the broadcast function.

Re: When broadcast setting “Off”, there is an icon indicated in the display, side of the battery icon.

L. Press * to turn Name Tag On/Off.
   i. Press On (Left soft key) to turn on the name tag function, when receiving the incoming calls, the LCD will show the name which stored in phonebook.
   ii. Press Off (Left soft key) to turn off the name tag function.

7. Press 6 to register or de-register handset: See Handset Registration.

8. Press 7 to set up the intercom or broadcast via repeater(see Repeater Setup).

Note:
1. Different PBX makers use different analog codes to control PBX function, like call transfer, call park, etc.; Please refer to your PBX maker’s manual for this information.
2. Errors may occur in PBX options and phonebook entries transferred wirelessly due to interference. Please re-enter entry manually if problems occur with an entry.
9. Item 8 is to add new bases. From an administrator handset (Handset 10 or 11) to set new Base 01~07. Maximum additional bases is up to 8. Before adding a new base, the Handset must be registered in master base (Base ID =00).
   a. Press **REG** button on new Base.
   b. Use Handset 10 or 11 to Add base: Press **MENU** → **8** → **1**
   c. Enter 01~07 (base ID)


DuraWalkie

1. Press **MENU** (Right) soft key while the phone is in standby.
2. Press **1** to lock keypad (see Key Guard).
3. Press 2 to view, search, erase, edit and transfer the phonebook (see Phonebook).

4. Press 4 to set sound-related settings:
   a. Press 1 to select ringer volume: Use ▲ or ▼ to scroll through 6 options: Low, Medium, High, Vibrate, Vib and Ring, Off. Press SAVE (Left) soft key to save selection. Default = High.
   b. Press 2 to select ringer tone: Use ▲ or ▼ to scroll through 4 options: 0, 1, 2, and 3. Press SAVE (Left) soft key to save selection. Default = 0.
   c. Press 3 to select key volume when a key is pressed: Use ▲ or ▼ to scroll through 3 options: High, Low, and Off. Press SAVE (Left) soft key to save selection. Default = Low.
   d. Press 4 to select key tone: Use ▲ or ▼ to scroll through 4 options: 0, 1, 2, and 3. Press SAVE (Left) soft key to save selection. Default = 0.

5. Press 5 to change handset settings:
   a. Press 1 to Group Select: see Handset Group Subscription.
   b. Press 2 to clear phonebook:
      i. Press 1 and confirm to delete the entire phonebook.
   c. Press 3 to change the power-up LCD display to show, e.g., customer name or other greeting message:
      i. 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).
      ii. Enter characters using the Character Table and method discussed in the Phonebook section.
      iii. When finished, press SAVE (Left) soft key to save change.
   d. Press 4 to change LCD display contrast:
      i. Use ▲ or ▼ to scroll through values 1 to 8. Pick one that is most suitable to you. Default = 6.
      ii. Press SAVE (Left) soft key to save setting.
   e. Press 5 to change the LCD backlight:
      i. Use ▲ or ▼ to scroll through options: On, Off, and 20 Seconds. Default = 20 seconds, meaning that the backlight is always on. The 20-second option will turn off the backlight after 20 seconds of inactivity.
      ii. Press SAVE (Left) soft key to save setting.
   f. Press 6 to change Language:
      i. Use ▲ or ▼ to scroll through options: English, Spanish and French. Default = English, meaning the LCD display shows in English.
      ii. Press SAVE (Left) soft key to save setting.

6. Press 6 to register or de-register handset: See Handset Registration.

7. Press 7 to set up the intercom or broadcast via repeater (see Repeater Setup).

8. Item 8 is to add new bases.
   From an administrator handset (Handset 10 or 11) to set new Base 01~07. Maximum bases is up to 8. Before adding a new base, the Handset must be registered in master base (Base ID =00).
   a. Press REG button on new Base.
   b. Use Handset 10 or 11 to Add base: Press MENU → 8 → 1
   c. Enter 01~07 (base ID)

9. Press 9 to change system and Line setting: See system setting and Line Setting.
### Technical Specifications

<table>
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<tr>
<th>Specification</th>
<th>Base Station</th>
<th>Portable Handset</th>
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</thead>
<tbody>
<tr>
<td><strong>Frequency</strong></td>
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</tr>
<tr>
<td><strong>Receiver Sensitivity</strong></td>
<td>&lt; -108 dBm (@ BER 10⁻²)</td>
<td>&lt; -108 dBm (@ BER 10⁻²)</td>
</tr>
<tr>
<td><strong>Antenna Connector</strong></td>
<td>Reverse TNC</td>
<td>Non-standard</td>
</tr>
<tr>
<td><strong>Antenna Gain</strong></td>
<td>2 dBi</td>
<td>2 dBi (Long)</td>
</tr>
<tr>
<td></td>
<td>5 dBi External (optional)</td>
<td>0.5 dBi (Short)</td>
</tr>
<tr>
<td><strong>TX Power Control Range</strong></td>
<td>NA</td>
<td>100-708 mW</td>
</tr>
<tr>
<td><strong>Telephone Interface</strong></td>
<td>RJ11 x 4</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Speech Coding</strong></td>
<td>8 kbps G.729A</td>
<td>8 kbps G.729A</td>
</tr>
<tr>
<td><strong>Channel Coding</strong></td>
<td>8 kbps Convolutional + CRC</td>
<td>8 kbps Convolutional + CRC</td>
</tr>
<tr>
<td><strong>Transmission Data Rate</strong></td>
<td>170.667 kbps</td>
<td>170.667 kbps</td>
</tr>
<tr>
<td><strong>User Data Rate</strong></td>
<td>128 kbps duplex</td>
<td>128 kbps duplex</td>
</tr>
<tr>
<td><strong>Duplex</strong></td>
<td>Time Division Duplex (TDD)</td>
<td>Time Division Duplex (TDD)</td>
</tr>
<tr>
<td><strong>Voice Quality</strong></td>
<td>TIA/EIA-470B</td>
<td>TIA/EIA-470B</td>
</tr>
<tr>
<td><strong>No. of System ID</strong></td>
<td>65,536</td>
<td>65,536</td>
</tr>
<tr>
<td><strong>Ring Signal</strong></td>
<td>20-50 Hz, 15-90 Vrms</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Auto-Attendant Coding</strong></td>
<td>8 kbps G.729</td>
<td>8 kbps G.729</td>
</tr>
<tr>
<td><strong>Flash Time</strong></td>
<td>100-900 ms programmable</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>100-240V/L2V AC/DC Adapter, 3.7V, 1700 mAh Li-ion Battery</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Charger Current</strong></td>
<td>NA</td>
<td>500 mA</td>
</tr>
<tr>
<td><strong>Charge Time</strong></td>
<td>NA</td>
<td>4 hours (from empty)</td>
</tr>
<tr>
<td><strong>Regulation Compliance</strong></td>
<td>FCC Part 15, Part 68</td>
<td>FCC Part 15, Part 68</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0 – 50 °C</td>
<td>-10 – 60 °C</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-10 – 70 °C</td>
<td>-10 – 70 °C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>20 – 75 %</td>
<td>20 – 75 %</td>
</tr>
<tr>
<td><strong>Dimension without antenna</strong></td>
<td>280 x 215 x 53 mm</td>
<td>161 x 58 x 31 mm</td>
</tr>
<tr>
<td></td>
<td>8.5” x 11.0” x 2.1”</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>32 ounces</td>
<td>6.17 ounces</td>
</tr>
<tr>
<td><strong>Battery Time</strong></td>
<td>N/A</td>
<td>Talk up to: 5 hrs; Stand-by up to: 50 hrs</td>
</tr>
</tbody>
</table>

Notes:
1. NA = Not Applicable.
2. The manufacturer reserves the right to change designs and specifications without notice.
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Telecom

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the EUT of this equipment is a label that contains, among other information, a product identifier in the format US: SNIW401B-SP922PROV3. If requested, this number must be provided to the telephone company.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US: SNIW401BSP922PRO. The digits represented by 01 are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If your equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this telephone equipment, please contact the following address and phone number for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

Company: EnGenius Technologies
Address: 1580 Scenic Avenue, Costa Mesa, CA 92626
Tel no.: 888.735.7888

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

"NOTICE: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment."

"NOTICE: The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five."

« AVIS : Le présent matériel est conforme aux spécifications techniques d’Industrie Canada applicables au matériel terminal. Cette conformité est confirmée par le numéro d’enregistrement. Le sigle IC, placé devant le numéro d’enregistrement, signifie que l’enregistrement s’est effectué conformément à une déclaration de conformité et indique quelles spécifications techniques d’Industrie Canada ont été respectées. Il n’implique pas qu’Industrie Canada a approuvé le matériel. »

« AVIS : L’indice d’équivalence de la sonnerie (IES) du présent matériel est de 0.1. L’IES assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d’une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d’indices d’équivalence de la sonnerie de tous les dispositifs n’excède pas 5. »