

DHA-130 IP/DECT Phone

User Guide



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Package Contents

- D-Link DHA-130 IP/DECT Phone
- D-Link DHA-130 Base Station
- Power Adapter-AC 12V AC, 1200 mA
- Manual and Warranty on CD
- Quick Installation Guide
- Ethernet Cable (the DHA-130's Ethernet port is Auto-MDIX)



Caution: Using a power supply with a different voltage rating than the one included with the DHA-130 will cause damage and void the warranty for this product.

If any of the above items are missing, please contact your reseller.

Requirements for Setup and Connection

System (Minimum)

- Broadband Internet connection
- Ethernet-Based Cable or DSL Modem
- A multi-port Ethernet router (preferably configured as a DHCP server)
- Computer with Windows, Macintosh, or Linux-based operating system and an installed Ethernet adapter
- Internet Explorer Version 6.0 or Netscape Navigator Version 6.0 and Above
- VoIP Services Account

The user must first establish a D-Life account online. Please go to www.dlife.com to setup your account if you have not done so.

Introduction

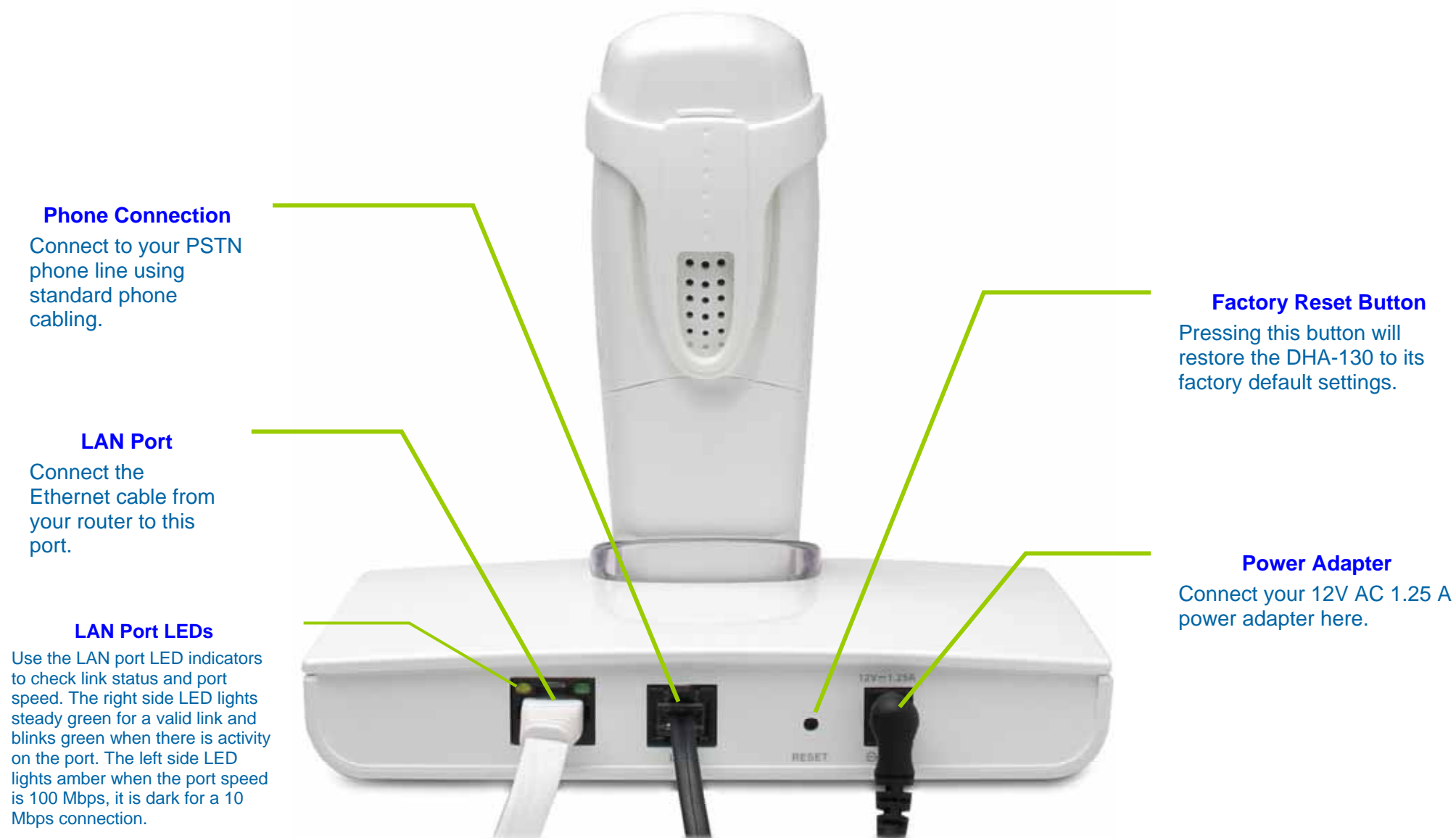
Before you start, your new DHA-130 IP/DECT Phone will require a multi-port Ethernet router to function and broadband Internet connection. Ideally the router should be configured as a DHCP server in order to simplify setup.

Your new DHA-130 IP/DECT Phone will enable you to make VoIP (Voice over Internet Protocol) telephone calls – at a zero or very much reduced cost when compared to regular telephone service – to nearly anywhere, over the Internet. In addition the phone can be used for regular PSTN telephone service. With a D-Life account established, the Phone can simply be connected and used after a brief automatic configuration procedure. This auto-provisioning feature makes the DHA-130 a truly “Plug and Play” IP phone.

Features and Benefits

- Automatic provisioning for Plug and Play VoIP setup
- Dialing via PSTN to standard telephone numbers
- Dialing via Ethernet port as VoIP calls.
- 10/100BASE-TX Fast Ethernet port for network connection
- Voice Activity Detection (VAD) /Comfort Noise Generation (CNG)
- Configurable comfort noise insertion and handset echo cancellation
- Audio Compression: G.711, G.729A/B, G.723.1, G.726, G.729, G.722, G.722.1, iLBC
- PPPoE, Static IP, DHCP Client support
- Support TCP/IP, UDP, RTP and RTCP
- Lost packet recovery ability for improved voice quality
- Adjustable speaker / ringer volume control
- Dialing by last 10 calls
- Call Log (Missed, Received, Dialed)
- Call Hold/Call Transfer/3-way Conference

Hardware Overview – Back Panel

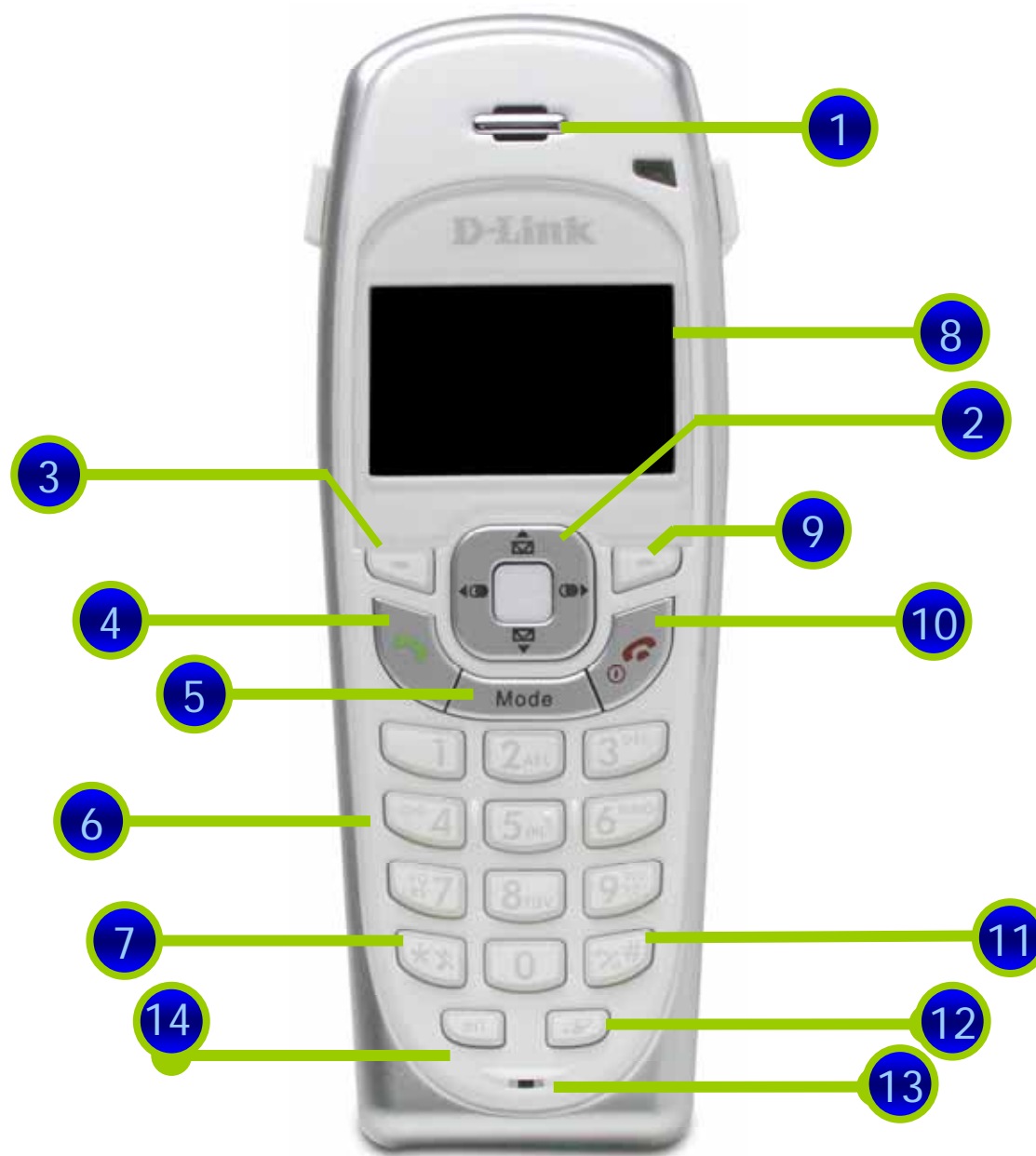


LED Indicators – Front Panel



Handset Description

1. Earpiece
2. Navigation Key - scrolls up/down through menus. When the D-Life desktop is displayed, push down to access phone records, push up to access D-Life phonebook menu.
3. Left Soft Key – use to select highlighted menu option, perform corresponding function in display
4. Talk Key - to place/receive a call
5. Mode Key – Switch between D-Life VoIP call mode and PSTN call mode.
6. Number Keypad - to enter numbers/characters
7. Key/Switch Key - to key in * (asterisk), hold a few seconds to silence the ringer
8. LCD Display
9. Right Soft Key - performs the displayed function, return to previous menu (Back)
10. Power Key - to switch the phone on/off, end a call or return to standby mode.
11. Key/Lock Key - to key in # (pound) or to lock the keypad. Hold a few seconds to lock/unlock the handset.
12. Services Key
13. Microphone
14. Intercom Key



Getting Started

BEFORE YOU BEGIN!

Make sure you have a broadband Internet connection, a multi-port Ethernet router such as a broadband router or ADSL router, and an active D-Life account already setup. If you do not have a D-Life account yet, access the D-Life website (www.dlife.com) and set up an account first. For information on using a broadband or ADSL router with the Phone, please read Appendix B **Router Port Configuration** on page 78.

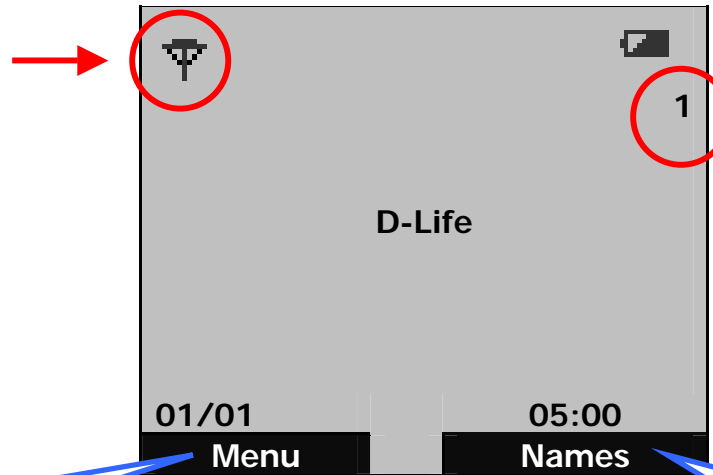
The DHA-130 is very easy to setup and use. Connect the phone line and Ethernet cable as illustrated in the Back Panel picture. Connect the power and the Phone will begin to establish the connection to the D-Life account server. This process is called provisioning. During the provisioning, the green VoIP LED indicator on the front of the base station will blink. When the account has been verified and the Phone is ready to use, the VoIP LED indicator will shine steady green.

Using the Handset

Most of the commonly used functions, for making and receiving calls and storing phone numbers, are controlled using the Soft Keys and Navigation Button on the handset. The right and Left Soft Keys are used to perform an action or option listed on the bottom right or left side of the LCD display. The Navigation Button is used to scroll through menus and other entry functions. When the phone is idle and its default “desktop” is displayed (like the example below), the Navigation Button is used to access the most commonly used menus and phone book.

To use the handset interface, use the Soft Keys (Right Soft Key and Left Soft Key) to select the corresponding action or option listed on the bottom of the display. For example, in the handset’s “desktop” display shown below, press the Right Soft Keys to use the **Names** option used to view the phone book. Since this is the first time setting up the phone, of course the phone book is empty. To register the handset with the base station you will need to first access the Main Menu.

Indicates DECT phone connection to the base station, this will flash until a connection is made.



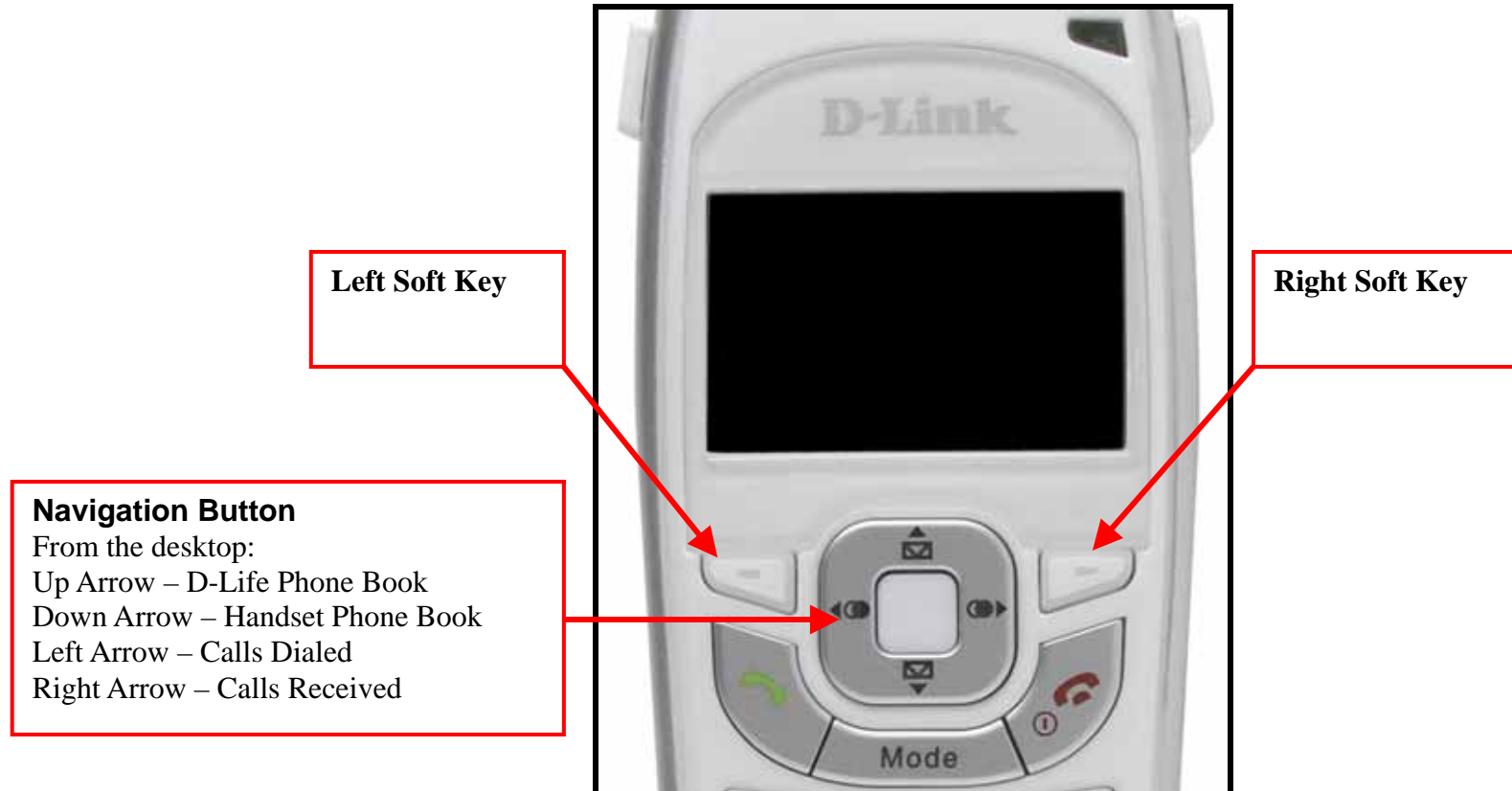
Indicates the radio channel number used for the DECT phone connection to the base station.

Use the **Left Soft Key** to choose the option or action at the bottom of the left side of the LCD menu, in this example, pressing the Left Soft Key allows you to view the **Main Menu**.

Use the **Right Soft Key** to choose the option or action at the bottom of the right side of the LCD menu, in this example, pressing the Right Soft Key allows you to view the **Names** of people in your Phone Book.

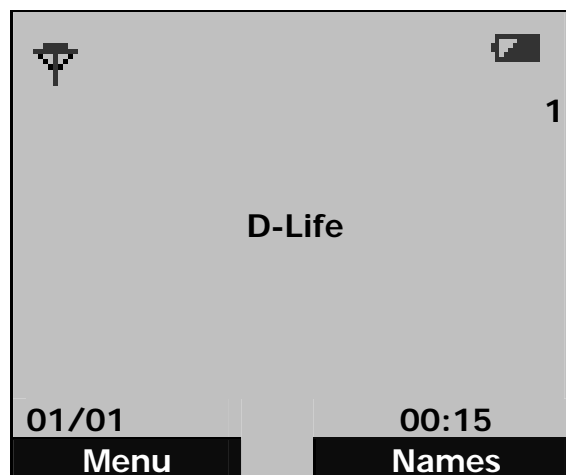
Handset Control Keys

The primary control keys for the handset, the soft keys and navigation button, are illustrated here for your reference.



Connect to D-Life

The DHA-130 is configured with all the necessary account information including the D-Life account number. If the phone can successfully connect to the Internet, it will automatically establish a connection to the D-Life servers. When D-Life service is established, the LCD indicator on the handset displays “**D-Life**” in the center of the screen, it is ready to use.



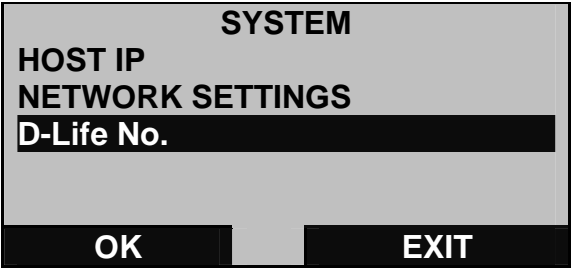
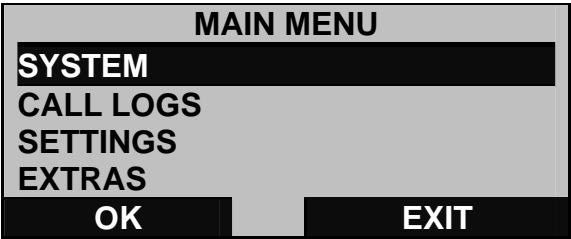
The DHA-130 uses DHCP for to get its network settings. If you are using a broadband or DSL router as a DHCP server for your network, the phone should have no problem establishing a connection to the Internet. Make sure that the DHCP server (router) is configured with the correct IP settings for DNS service and gateway IP settings. Typically the gateway IP address is the router’s IP address when there are no other routers or gateway routers used. The ISP usually supplies the DNS IP addresses.

The phone can be configured to use a static IP address on the local network. It can also be configured to directly access the Internet through your ISP using PPPoE (user name and password). See the description below to change the phone’s network settings.

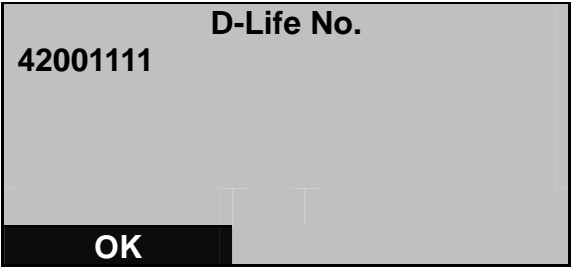
View D-Life Account Number

To view the account number and phone number for your DHA-130, from the **Main Menu** go to **System > D-Life No.** The sequence of display screens you will see are simulated below.

Select **D-Life No.**



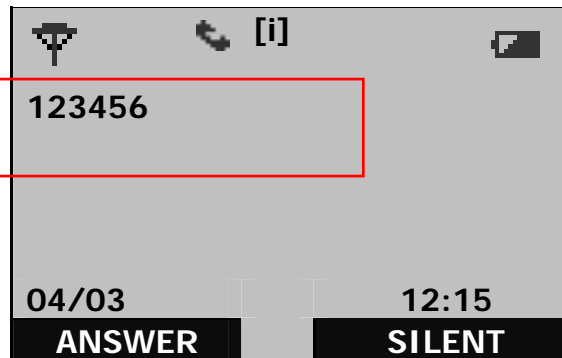
View D-Life account/phone number.



Incoming Calls

The procedures used when answering calls from D-Life VoIP stations or PSTN calls are identical. The main difference is that the LCD display will indicate that the incoming call is a VoIP call or PSTN call.

The number of the caller appears as well as the type of call ([i] for VoIP IP call and [P] for PSTN).



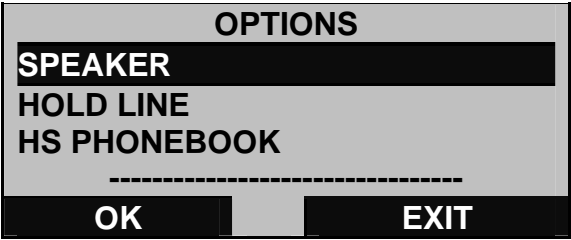
To answer the call immediately either press the Talk Key, or the Left Soft Key. Press the Right Soft Key to silence the ringer but not answer the call.

When the call has been answered, a timer for the call appears, as well as **OPTIONS** that can be viewed using the Left Soft Key. The call can be muted so the call

is silenced from the handset while allowing voice and sound to still come through from the other end. To **MUTE** the handset, press the Right Soft Key while the call is active.

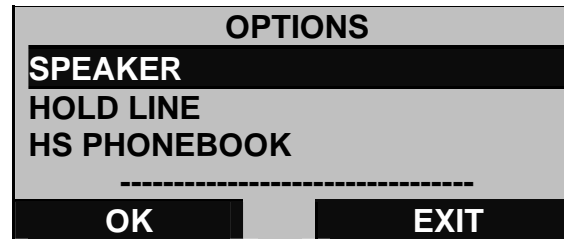


Use the Left Soft key to view the options available while the call is active.



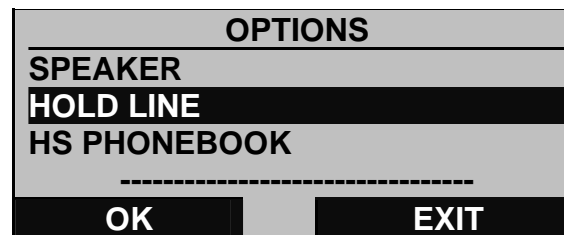
Use Speaker Phone

While a call is active, the handset can be used in speakerphone mode. Simply choose the **SPEAKER** option in the **OPTIONS** menu during the call for hands free speaker mode.



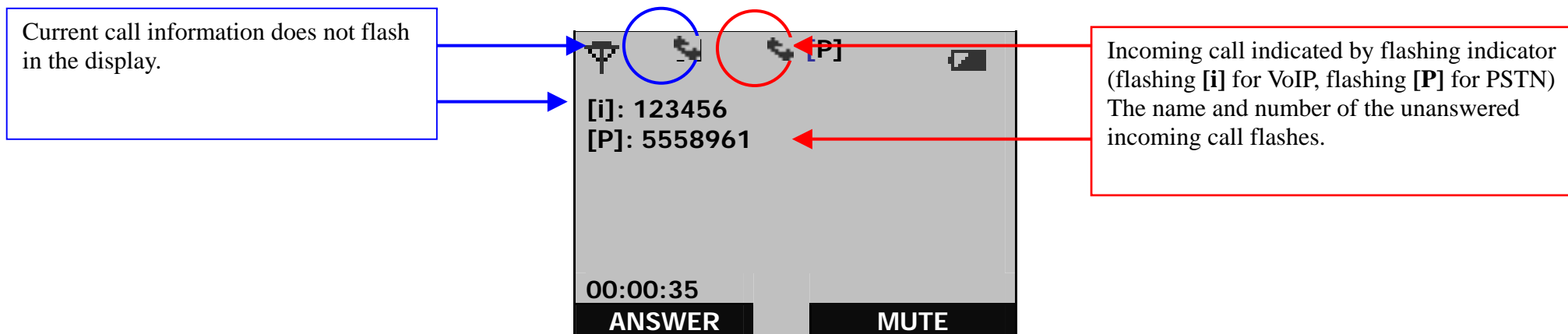
Putting Calls on Hold

To put the active line on hold, use the **HOLD LINE** option in the **OPTIONS** menu. While one line is on hold, another incoming call can be answered just like a conventional multiple line PSTN telephone. When a line is on hold, the H icon appears in the main display. If multiple lines are active, the icon will indicate which line is on hold.



Call Waiting

When an incoming call occurs while another call is active, the incoming call can be answered while placing the active call on hold automatically.

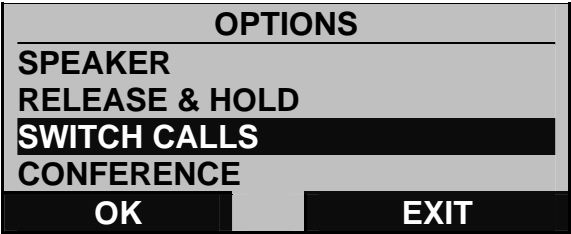


To answer the incoming call and simultaneously place the active call on hold, press the Left Soft Key to **ANSWER** the incoming call. The original call will be on hold, this is indicated by the **H1** icon indicating that line 1 is on hold.



Use the Left Soft Key to view the options, including the option to switch back to the original caller.

To return to the original call, use the **SWITCH CALLS** option in the **OPTIONS** menu. Switching to the other line will put the second call on hold while taking the original call off hold.



3-Way Conference Calls

Conference calls can be held when both lines have active calls. To use the 3-way conference call function, go the **OPTIONS** menu when both lines are connected (one or both lines can be on hold).



It will be necessary to choose to put one call in conference mode, switch to the other line, then place that call in conference mode.

First choose the **CONFERENCE** option for one line.

OPTIONS		
SPEAKER		
RELEASE & HOLD		
SWITCH CALLS		
CONFERENCE		
OK		EXIT

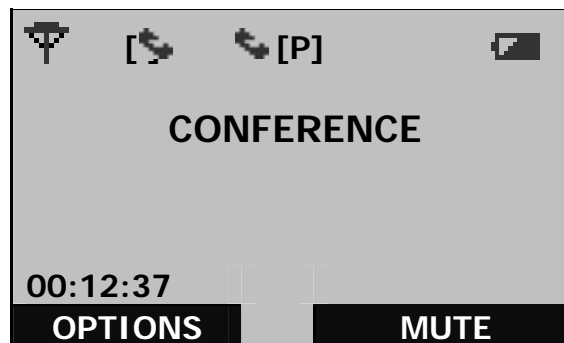
Then **SWITCH CALLS** to the other line.

OPTIONS		
SPEAKER		
RELEASE & HOLD		
SWITCH CALLS		
CONFERENCE		
OK		EXIT

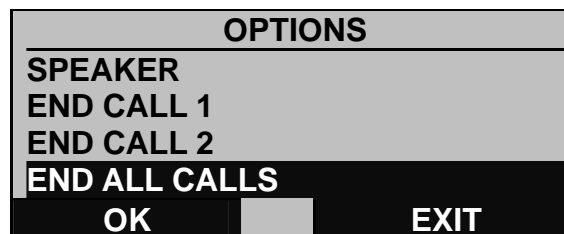
And put the other line in **CONFERENCE** mode.

OPTIONS		
SPEAKER		
RELEASE & HOLD		
SWITCH CALLS		
CONFERENCE		
OK		EXIT

The display indicates that the handset is in **CONFERENCE** mode.



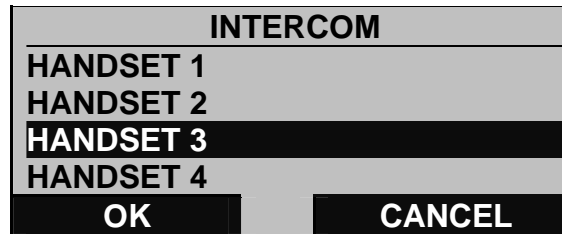
To end the conference call or select one line to leave the conference call, bring up the OPTIONS menu again.



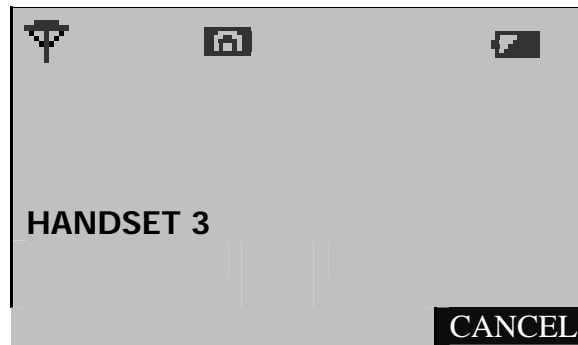
Select the option to **END ALL CALLS** if you want to terminate calls on both lines. Or choose to **END CALL 1** or **END CALL 2** to return to single call mode with the remaining line.

Intercom

The DECT phone features handset-to-handset intercom. To use the intercom, press the Intercom button on the handset.



The display indicates the handset being paged. To terminate the intercom session, use the **CANCEL** option.

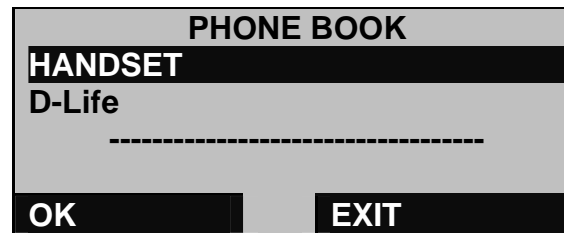


Making Calls

Calls can be made using phone book entries. Frequently used numbers can be added to the Quick Dial list. Calls can also be dialed if they do not appear in your logs or phone book. This section describes how to do all of these.

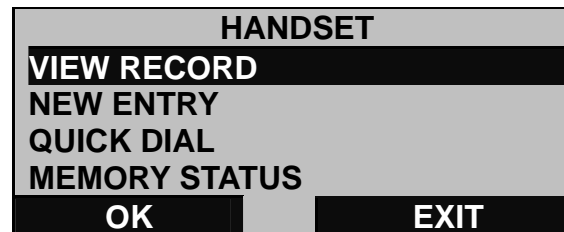
Calling a Phone Book Entry

1. To call a number that is already in the phone book, simply choose **NAMES** from the desktop display.



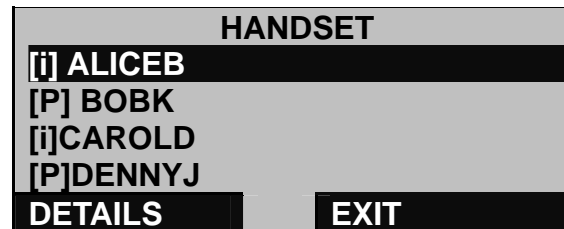
A screenshot of a handheld device screen titled "PHONE BOOK". Below the title, there are two main options: "HANDSET" and "D-Life". A dashed line is positioned below "D-Life". At the bottom of the screen, there are two buttons: "OK" on the left and "EXIT" on the right.

2. Choose the **HANDSET** or **D-Life** phonebook.



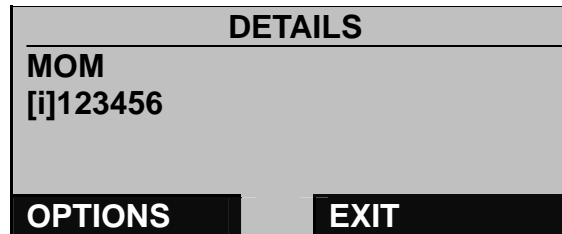
A screenshot of a handheld device screen titled "HANDSET". Below the title, there are four menu options: "VIEW RECORD", "NEW ENTRY", "QUICK DIAL", and "MEMORY STATUS". At the bottom of the screen, there are two buttons: "OK" on the left and "EXIT" on the right.

3. Select the number to call and choose **DETAILS**.

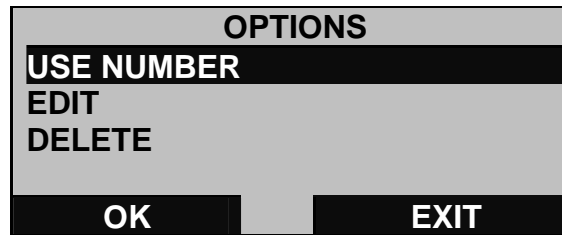


A screenshot of a handheld device screen titled "HANDSET". Below the title, there is a list of names, each preceded by a bracketed letter: "[i] ALICEB", "[P] BOBK", "[i] CAROLD", and "[P] DENNYJ". At the bottom of the screen, there are two buttons: "DETAILS" on the left and "EXIT" on the right.

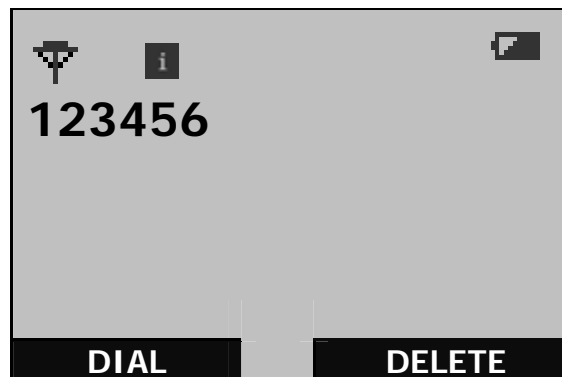
4. Choose **OPTIONS**.



5. Choose the **HANDSET** or **D-Life** phonebook.



6. Select **DIAL** to call the number.

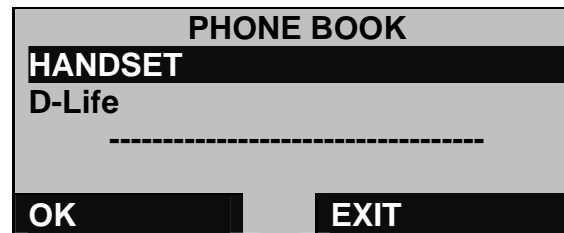


Using Quick Dial

Frequently used numbers can be designated Quick Dial numbers. Quick Dial numbers require pushing only a single button for a few seconds to dial. To place a Quick Dial call, press the number on the keypad assigned to the Quick Dial number. Keys 4 through 9 are used for Quick Dial.

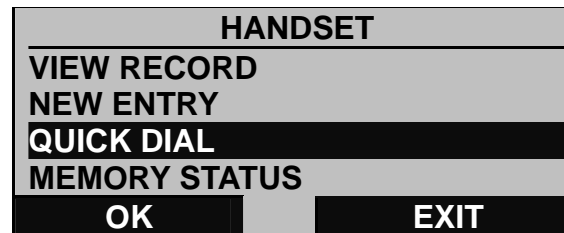
To designate a number as a Quick Dial number, it must already be in the Handset phone book. Follow the steps below to set up a Quick Dial entry.

1. Choose **NAMES** from the desktop display then go to the **HANDSET** phone book.



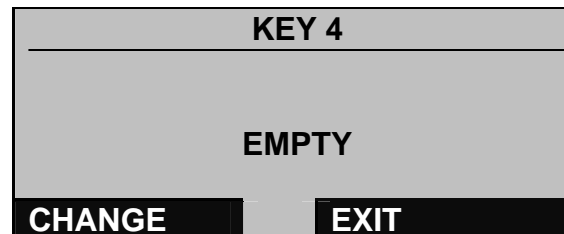
A screenshot of a handheld device screen titled "PHONE BOOK". Below the title, "HANDSET" is displayed in a black bar. Underneath, "D-Life" is shown above a dashed line representing a phone number. At the bottom, there are two buttons: "OK" on the left and "EXIT" on the right.

2. Choose the **QUICK DIAL**.



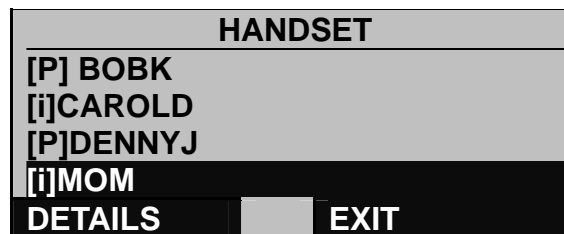
A screenshot of a handheld device screen titled "HANDSET". It lists four options: "VIEW RECORD", "NEW ENTRY", "QUICK DIAL" (highlighted with a black background), and "MEMORY STATUS". At the bottom, there are two buttons: "OK" on the left and "EXIT" on the right.

3. Select the number to call and choose **CHANGE** to add a number from the Handset phone book.

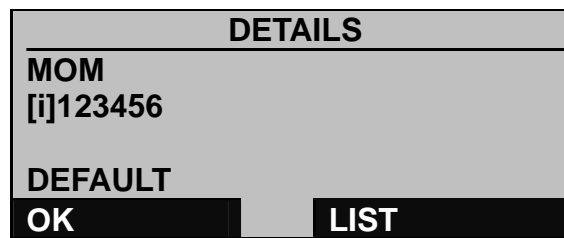


A screenshot of a handheld device screen titled "KEY 4". The main area of the screen is labeled "EMPTY". At the bottom, there are two buttons: "CHANGE" on the left and "EXIT" on the right.

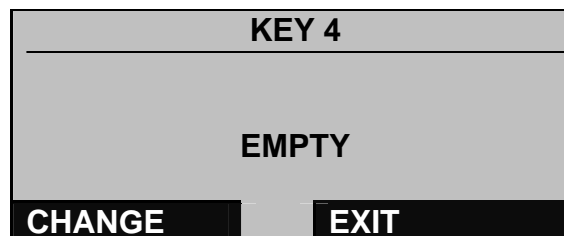
4. The **HANDSET** phone book appears. Scroll to the name you want to add to the empty Quick Dial slot.



5. The **HANDSET** phone book appears. Choose **OK** to assign this number to the Quick Dial slot or choose **LIST** to go back to the **HANDSET** phone book.



6. To add new Quick Dial numbers for the remaining keys (5 to 9), use the up and down navigation buttons on the handset to get to the remaining Quick Dial slots.



7. To edit or delete a Quick Dial entry, go to **NAMES>HANDSET>QUICK DIAL** and scroll to the key you want to edit or delete using the navigation button

on the handset. The number appears listed as in the example below. Choose **OPTIONS** to edit or delete the Quick Dial entry.

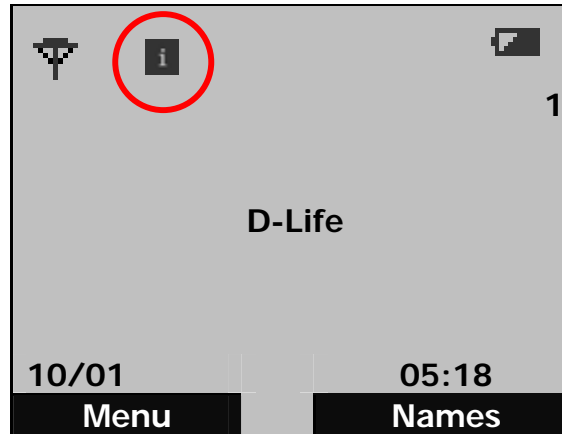
KEY 4	
MOM [i]123456	
OPTIONS	EXIT

8. Select **CHANGE** to go to the Handset phone book listed entries and select a new number for the Quick Dial slot. Choose **DELETE** to remove the Quick Dial assignment, you will be asked to CONFIRM? The decision to delete in a new screen.

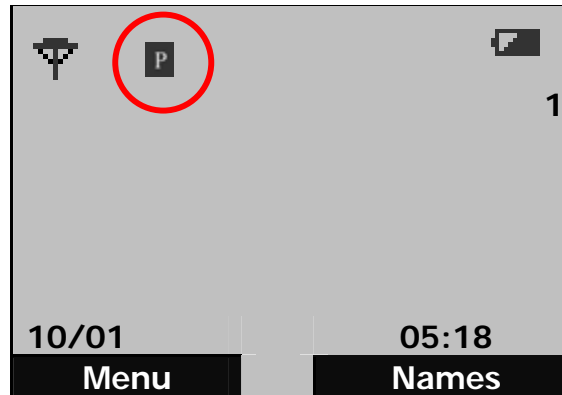
OPTIONS	
CHANGE DELETE	
OK	EXIT

Dialing a New Number

Phone calls can be made through D-Life VoIP or the regular PSTN telephone network. To make VoIP calls, make sure the handset is in VoIP mode. Use the Mode button to toggle between VoIP mode and PSTN mode. The mode is indicated in the LCD main display. The “i” icon indicates the phone is in VoIP mode.



The “P” icon indicates the phone is in PSTN mode.



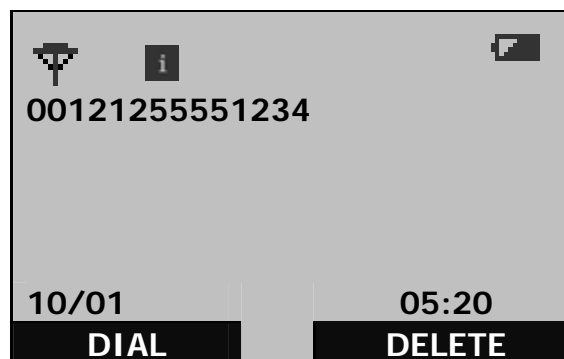
D-Life VoIP Calls to PSTN Numbers

To place a D-Life VoIP call to a PSTN number, use the number keypad to enter the phone number using the following format:

country code + area code + phone number

Use the country code even when calling a number in the same country as where you are located.

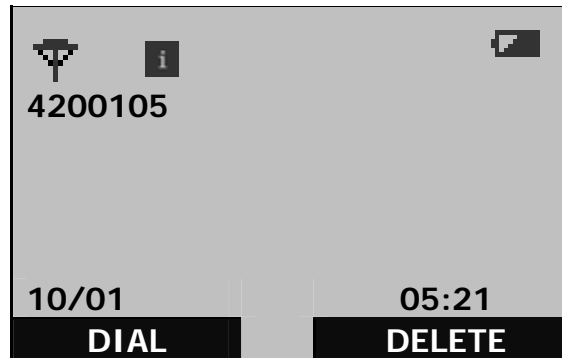
For example, to dial the number 555-1234 in the 212 area code in the United States, enter as follows:



Then press the green call button on the phone or choose **DIAL** to initiate the phone call. You will hear the phone ring on the other end just as if calling through the traditional switched telephone network. If the line is busy, you will hear a normal busy signal, otherwise the ring will continue until the phone is answered at the remote end.

D-Life VoIP Calls to Other D-Life Accounts

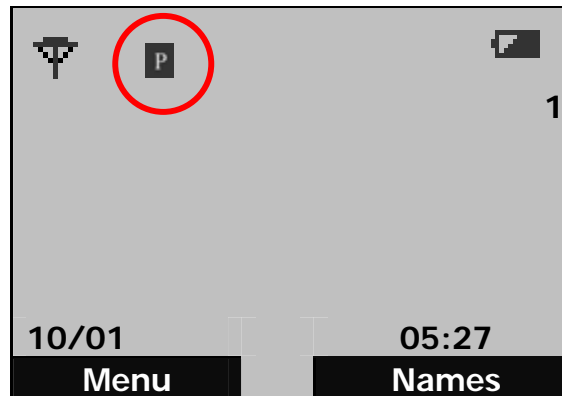
To place a D-Life VoIP call to other D-Life account numbers, simply enter the account number and press the green call button on the phone or choose **DIAL**.



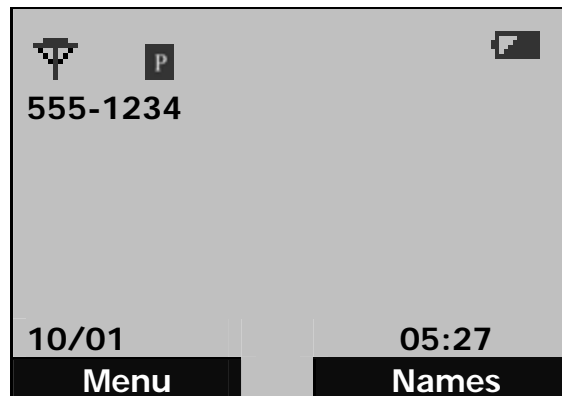
As with regular PSTN phone calls, you will hear the phone ring on the other end. If the line is busy, you will hear a normal busy signal, otherwise the ring will continue until the phone is answered at the remote end.

Local PSTN Phone Calls

To place a local call through the regular PSTN network without using VoIP, the phone must be in PSTN mode. Press the Mode button on the handset, notice the “P” icon appears in the main display and the “D-Life” can no longer be seen.



To place a local PSTN call, enter the number you want to dial and press the green call button on the phone or choose **DIAL** to initiate the phone call.

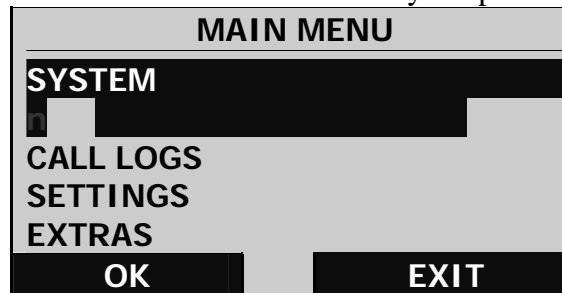


Phone Network Settings

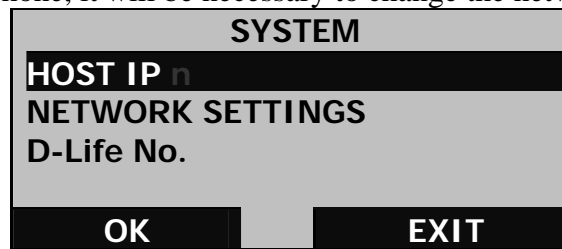
There are two methods available to change the IP settings of the base station unit. The IP settings can be changed using the handset or by accessing the DHA-130 web manager configuration utility. Read Using the Web Utility for information on change the network IP settings of the DHA-130.

View Host Station IP Address

1. To view the IP address of the phone, go to the **Main Menu** and use the left soft key to “press” **OK** and choose the first item in the list, the **Settings** menu.

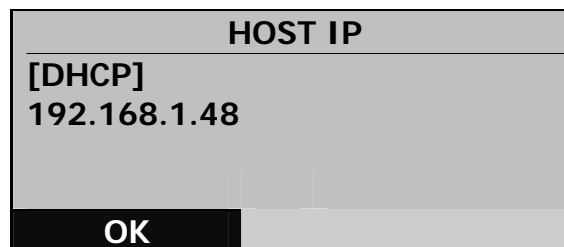


2. In the **SYSTEM** menu, choose the first item in the list **HOST IP** to see the local IP address on the base station. If you are not using a DHCP server on your LAN and this is the first time setting up the phone, it will be necessary to change the network settings to assign a static IP address to the phone.



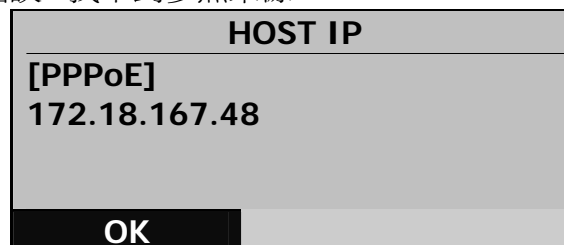
3. The IP address of the base station as assigned appears listed in the Host IP display. This is the IP address you can use to access the web management configuration utility. Above the IP address the network setting is displayed. For example, if the DHA-130 is using DHCP from the local DHCP server

(broadband or DSL router), the LCD display will look similar to this example:



View Host Station IP Address – PPPoE Connection

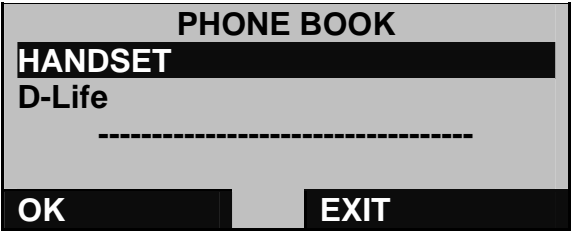
There are two methods to view the IP address if the phone is configured for PPPoE connection. Use either the **SYSTEM** menu and choose **HOST IP**, or use the **NETWORK SETTINGS** menu and choose **PPPoE** to view a display similar to the example below. This only works if the phone is already configured for PPPoE. To configure the phone for PPPoE, please read [錯誤! 找不到參照來源。](#) below.



Using the Phonebook

Phone numbers can be stored in the phonebook by entering them manually or after calling or receiving a call. Use Call Logs to store phone numbers you have dialed or received. See Using Call Logs for a description on how to store dialed and received numbers. Up to one hundred phonebook entries can be stored. To enter phone numbers manually, access the phonebook from the “desktop” D-Life display. There are two ways to access the phone book, use the navigation key or use the **Left Soft Key** to click **Names** option. This brings up the **PHONE BOOK** menu where you can select either the Handset phone records or the D-Life phone records.

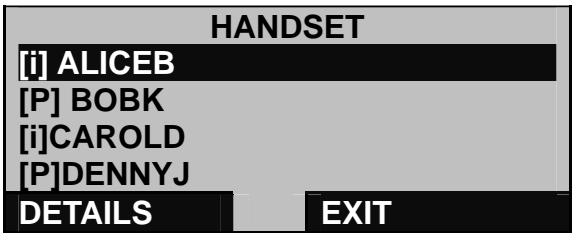
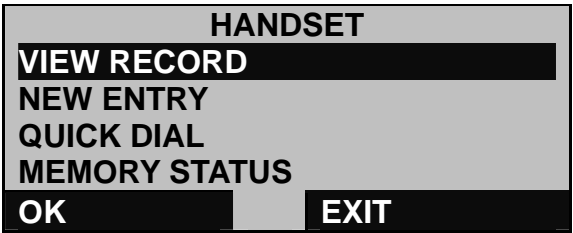
The navigation key arrows can be used to go directly to the D-Life phone book or the Handset phone book. From the desktop, use the navigation key to press the **Down** arrow to view the **Handset Phone Book** record menu, press the **Up** arrow to view the **D-Life Phone Book** record.



View Names in Phonebook

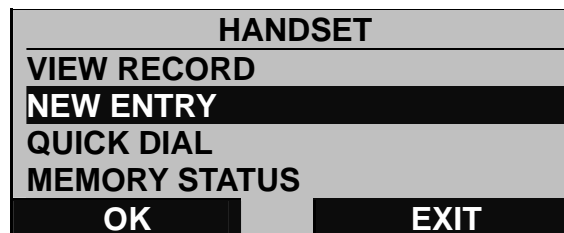
If you have already entered phone numbers you can select the **VIEW RECORD** option to Handset view phone book entries. The phonebook entries are listed alphabetically. To dial a number in the phonebook, scroll to the name you want to call and press the call button with the name highlighted.

NAMES > HANDSET > VIEW RECORD



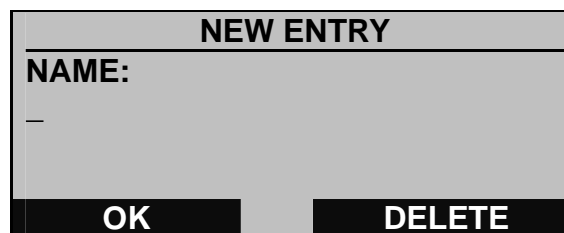
Add Names to Phonebook

1. To create a new phone book entry, scroll down to select the **NEW ENTRY** option and press the Left Soft Key.



A screen titled "HANDSET" with a list of options: "VIEW RECORD", "NEW ENTRY" (highlighted with a black bar), "QUICK DIAL", and "MEMORY STATUS". At the bottom are two buttons: "OK" and "EXIT".

2. Enter a name for the phone book entry, use the numbered keypad to key in upper case characters of the alphabet.



A screen titled "NEW ENTRY" with a label "NAME:" followed by a large text input area. At the bottom are two buttons: "OK" and "DELETE".

3. Letters from the alphabet are listed in alphabetic order on keys 2 to 9, press the key once to display the first letter listed on the key, press it twice to display the second letter listed, and so forth. To choose a displayed letter, do not press any keys for a few seconds until the flashing cursor moves ahead one space. If you made a mistake, click the Right Soft Key to **DELETE** one space each time it is pressed. When satisfied with the name as it appears listed in the display, use the Left Soft Key to **OK** the name. You will see a new menu to enter the number.



A screen titled "NEW ENTRY" with a label "NAME:" followed by the text "AGUYIKNOW_" in the input area. At the bottom are two buttons: "OK" and "DELETE".

4. Now enter the phone number as it will be dialed. “Press” **OK** (with the Left Soft Key) to create the new entry. This number now appears in the Handset Phone Book and can be selected for quick dialing or dialed using the Handset Phone Book.

NEW ENTRY	
NUMBER:	
123456_	
OK	DELETE

Check Memory Status

The handset has 100 memory slots available for phone book entries. To view how many slots are available, select the **MEMORY STATUS** option from the Handset menu **NAMES > HANDSET > MEMORY STATUS**.

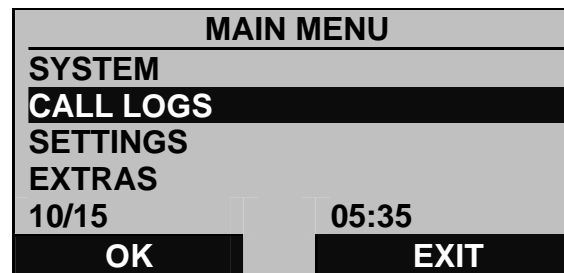
MEMORY STATUS	
USED:	023
FREE:	077
OK	

Using Call Logs

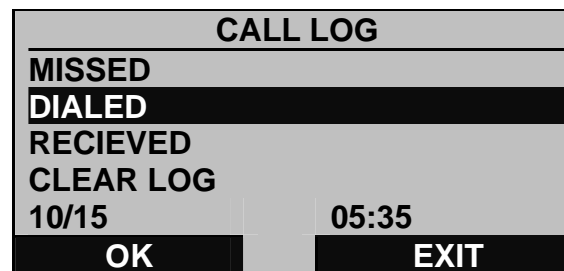
To view records of calls missed, dialed or received go to:

- **MAIN MENU>CALL LOGS>MISSED** to view missed calls.
- **MAIN MENU>CALL LOGS>DIALED** to view calls that have been dialed from the handset.
- **MAIN MENU>CALL LOGS>RECEIVED** to view incoming calls that have been answered.

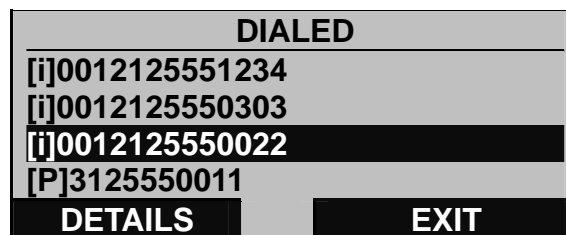
1. To access the handset phone log menus, go to the **MAIN MENU**, then to the **CALL LOGS** menu



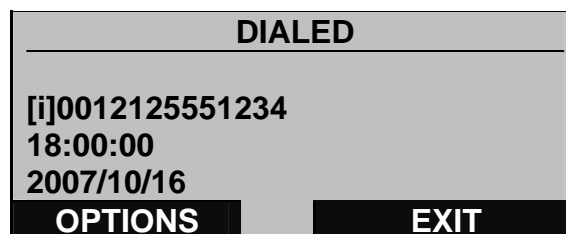
2. In the **CALL LOGS** menu you can view numbers dialed, received and missed. Any of these numbers can be entered into the phone book. The procedure to view logs and entry of numbers into the phonebook is identical for **MISSED**, **DIALED** and **RECEIVED** calls logged.



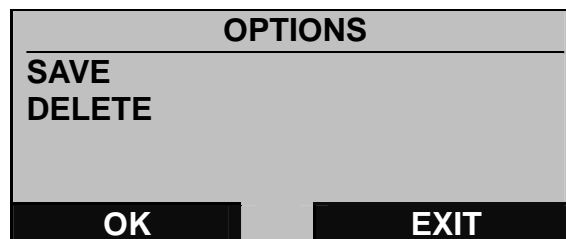
3. For example, go to the **DIALED** call log to see what numbers have been called using the handset. To view the time and date a number was dialed, scroll to select the number and use the **DETAILS** option.



4. The number dialed, time and date of the call are listed in the display. The number can then be saved.



5. To save the number in the phone book, use **OPTIONS** to go to the save or delete options menu.



6. Use the **SAVE** option to create a new phone book entry for this number. The procedure is similar to creating a new entry in the phone book, except you already have the number. Use **DELETE** to remove this single entry from the call log.

7. You will need to enter a name, just using the numbered keypad and **OK**

CALL LOG	
NAME: —	
OK	DELETE

Clear Log Entries

The call logs can be cleared (deleted) for all missed, dialed or received calls recorded in the logs. To clear log records go to **MAIN MENU>CALL LOGS>CLEAR LOGS** and choose the log category to be cleared. You will be prompted to **CONFIRM?** That you want to clear the log.

CLEAR LOG	
MISSED	
DIALED	
RECEIVED	
OK	EXIT

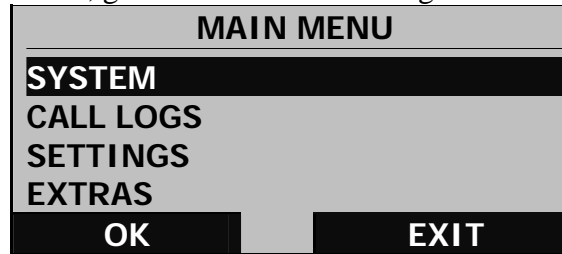
Change Network Settings

To change the network settings to use a Static IP address, to use PPPoE (user name and password) or to use the factory default network setting, DHCP, use the following menu progression: **MAIN MENU>SYSTEM>NETWORK SETTINGS** and choose the network connection. The first example below illustrates first how to establish a Static IP Address. The example after that one shows how to set up a PPPoE connection.

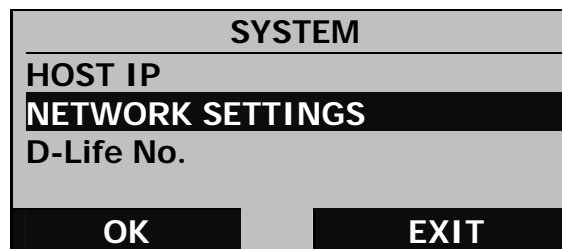
Configure a Static IP Address

To assign a Static IP address for the phone, do the following:

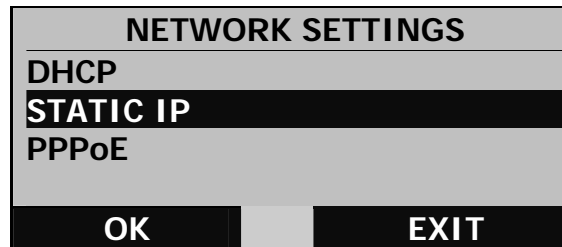
1. To change the local network IP settings for the DHA-130, go to the Network Settings menu. In the Main Menu choose **SYSTEM**.



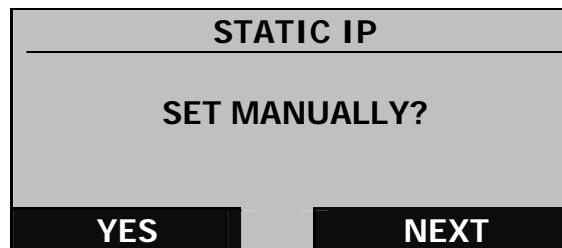
2. In the **SYSTEM** menu, choose **NETWORK SETTINGS** to see options for changing IP settings.



3. In the **NETWORK SETTINGS** menu, choose **STATIC IP** to go to the IP address entry menu for Static IP address.



4. A prompt asks if you really want to manually configure the IP address.



5. Enter the static IP address that will be used for the DHA-130 on the LAN. IP address must be entered using the numbers on the keypad of the handset in the form xxx.xxx.xxx.xxx so that all spaces are occupied by a numeral. For example, to enter a static LAN IP address 10.1.1.252, key the numbers as 010.001.001.252, there is no way to enter the “.” portion of the IP address using the handset. Use **DELETE** to remove unwanted numbers from the menu as displayed. Press **OK** when you are satisfied with the IP address as it appears.

A handset screen titled "STATIC IP" with a horizontal line below the title. Below the line, it says "IP ADDRESS:" followed by "005.044.082.100". At the bottom, there are two buttons: "OK" on the left and "DELETE" on the right.

Press **DELETE** to remove the IP address listed in the Static IP menu.

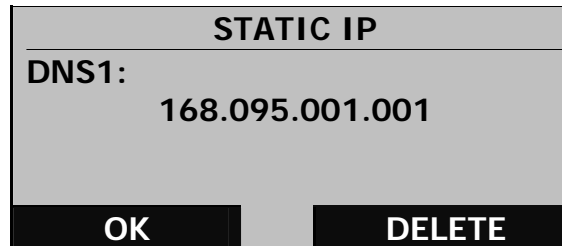
A handset screen titled "STATIC IP" with a horizontal line below the title. Below the line, it says "IP ADDRESS:" followed by "010.001.001.252". At the bottom, there are two buttons: "OK" on the left and "DELETE" on the right.

Enter the new IP address using the numbers on the keypad.

6. Use the standard subnet mask offered by choosing **OK**, or change it using the same method used to change the IP address.

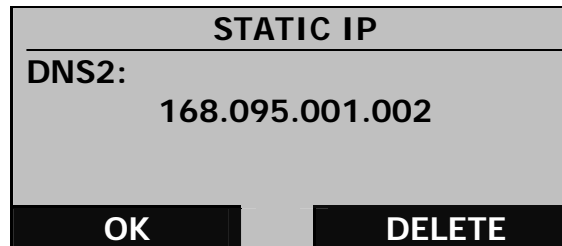
A handset screen titled "STATIC IP" with a horizontal line below the title. Below the line, it says "SUBNET MASK:" followed by "255.000.000.000". At the bottom, there are two buttons: "OK" on the left and "DELETE" on the right.

7. Enter the primary DNS server IP address - usually this address is supplied by the ISP. Press **OK** to go to the next entry menu.



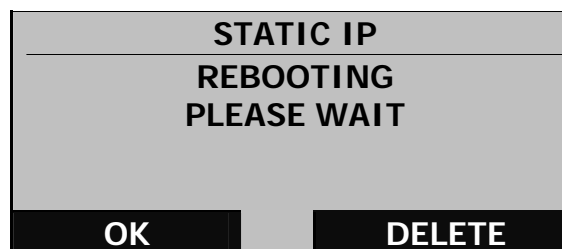
A screenshot of a device's LCD screen showing the 'STATIC IP' configuration menu. The title 'STATIC IP' is at the top. Below it, 'DNS1:' is followed by the IP address '168.095.001.001'. At the bottom, there are two buttons: 'OK' on the left and 'DELETE' on the right.

8. Enter the secondary or backup DNS server IP address. Usually this address is supplied by the ISP. Press **OK** to save the new IP settings and restart the base station.



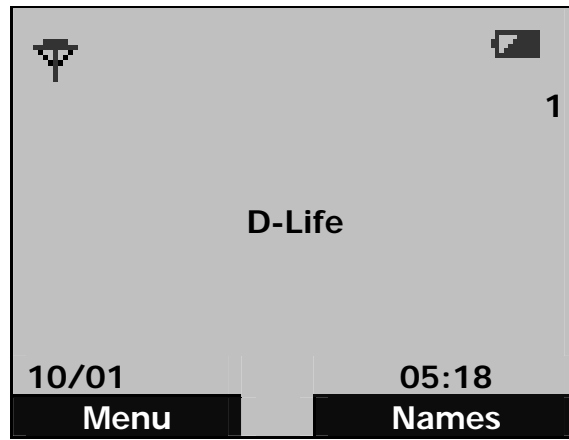
A screenshot of a device's LCD screen showing the 'STATIC IP' configuration menu. The title 'STATIC IP' is at the top. Below it, 'DNS2:' is followed by the IP address '168.095.001.002'. At the bottom, there are two buttons: 'OK' on the left and 'DELETE' on the right.

9. The LCD menu informs you that the DHA-130 base station is rebooting. It will take one or two minutes to restart and establish the D-Life connection.



A screenshot of a device's LCD screen showing the 'STATIC IP' configuration menu. The title 'STATIC IP' is at the top. Below it, the text 'REBOOTING' and 'PLEASE WAIT' is displayed. At the bottom, there are two buttons: 'OK' on the left and 'DELETE' on the right.

10. A successful connection is indicated when “D-Life” appears in the main screen. The phone is now ready for use.



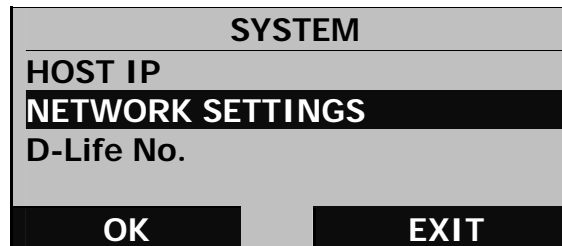
Setup A PPPoE Network Connection

To configure the phone to use a PPPoE network connection, perform these steps:

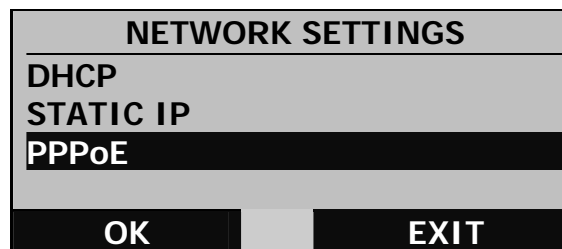
1. To set up PPPoE configuration for the DHA-130, go to the Network Settings menu. In the Main Menu choose **SYSTEM**.



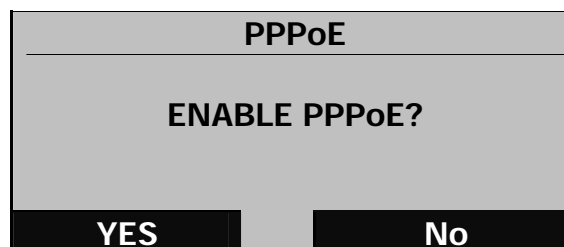
2. In the **SYSTEM** menu, choose **NETWORK SETTINGS** to see options for changing IP settings and PPPoE configuration.



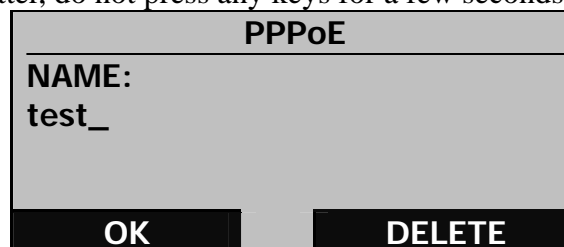
3. In the **NETWORK SETTINGS** menu, choose **PPPoE** to go to the user name and password entry menu for PPPoE connection.



4. A prompt asks if you really want to configure a PPPoE connection.



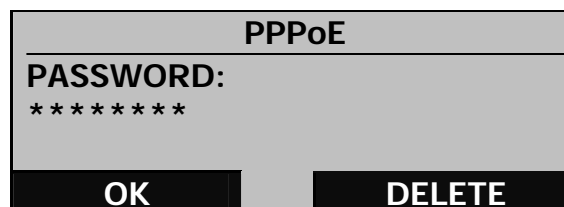
5. A new prompt asks for the user name. Enter the user name for the PPPoE connection. Use the keypad to enter letters and numbers. Letters from the alphabet are listed in alphabetic order on keys 2 to 9, press the key once to display the first letter listed on the key, press it twice to display the second letter listed, and so forth. To choose a displayed letter, do not press any keys for a few seconds until the flashing cursor moves ahead one space.



- 5-A. Press **DELETE** to remove one character at a time.

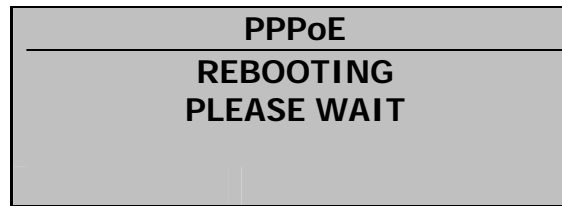


- 5-B. Enter the new user name using the keypad and select **OK** to go to the password entry menu. If you made a mistake, click the Right Soft Key to **DELETE** one space each time it is pressed. The zero key is used to enter the @ symbol.

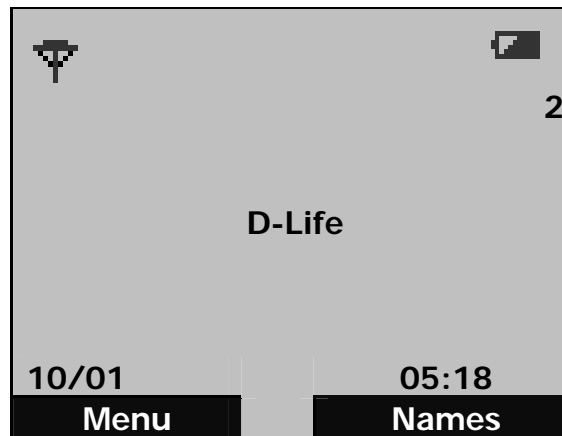


- 5-C. Enter the password using the keypad and select **OK** to restart the base station.

6. The LCD menu informs you that the DHA-130 base station is rebooting. It will take one or two minu



7. A successful connection is indicated when “D-Life” appears in the main screen. The phone is now ready for use.



Handset Settings

Settings for the handset include settings the time and date that appears in the display and the format used to display it; the melody and volume of the ringer for intercom, PSTN and IP phone calls, interface language and call services. To change any of these go to the **Settings** menu from the **Main Menu** as shown in the example here.

Change Sound Settings

Ringer tones can be customized so you know what type of call is incoming. The ringer tone can be changed to a unique style to distinguish if the call is a VoIP, PSTN or Intercom calls. The Sound settings menu is also used to turn on and off the tone for the keyed entries (key tone) and to turn on and off the tone made by the handset for events other than incoming calls, for example, the handset will make a noise when it is placed in the base station recharging cradle (handset tone). The Sounds menu options also include an Equalizer menu for enhanced treble or enhanced bass tones.

Change Ringer Tone

The procedure to change ringer tones for VoIP, PSTN and Intercom calls is identical except that each ringer type has a separate menu in the accessed from the Sounds menu.

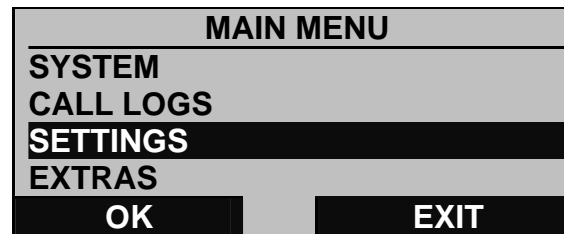
- To change the volume or melody of the VoIP ringer, go to **SETTINGS>SOUNDS>VoIP RINGER**.
- To change the volume or melody of the PSTN ringer, go to **SETTINGS>SOUNDS>PSTN RINGER**.
- To change the volume or melody of the Intercom ringer, go to **SETTINGS>SOUNDS>INTERCOM RINGER**.

See the example below on how to change the VoIP ringer.

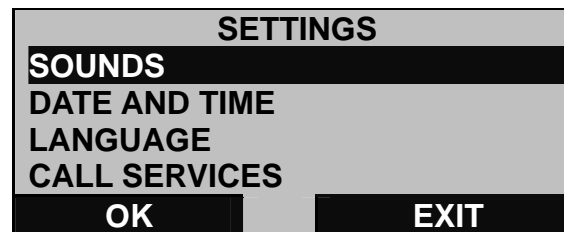
Change VoIP Ringer

To change the volume or melody of the VoIP ringer, go to **SETTINGS>SOUNDS>VoIP RINGER**.

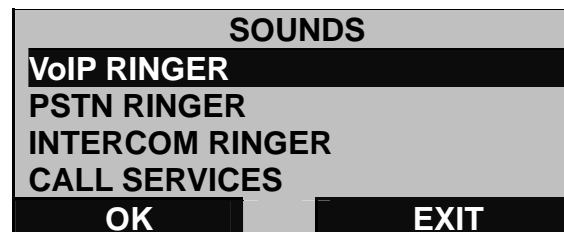
1. Go to the **SETTINGS** menu



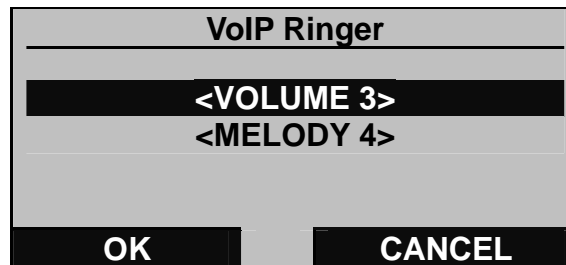
2. Go to the **SOUNDS** menu



3. Choose **VoIP RINGER**.



- Now use the right and left arrows of the navigation button to adjust the volume and melody. The phone responds with an audible example of the change being made. That is, when the volume is increased, the ringer will ring at that increased volume for a second. Likewise, when scrolling through the melody options, the melody or ring tone will play briefly.

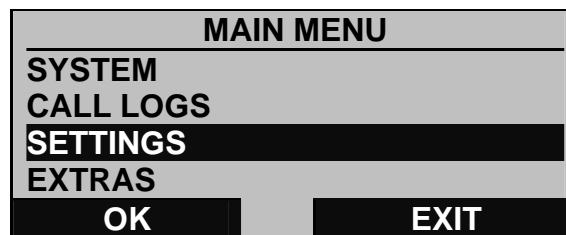


Turn On/Off Key Tone

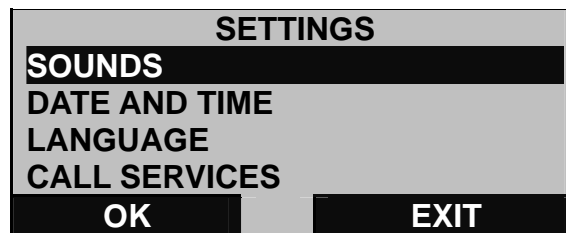
To turn off key tones (the noise produced when a key is pressed on the handset), go to **SETTINGS>SOUNDS>KEY TONE**.

To turn key tone on or off:

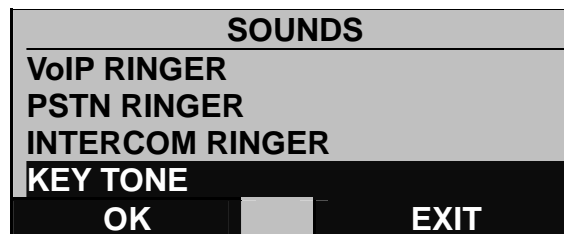
- Go to the **SETTINGS** menu



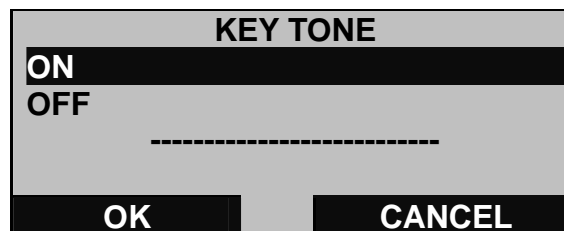
- Go to the **SOUNDS** menu



3. Choose **KEY TONE**.



4. Choose to turn the key tone **ON** or **OFF** and press **OK**.

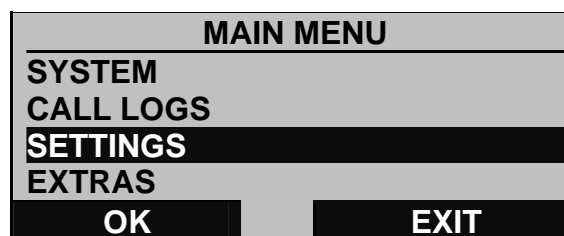


Turn On/Off Handset Tone

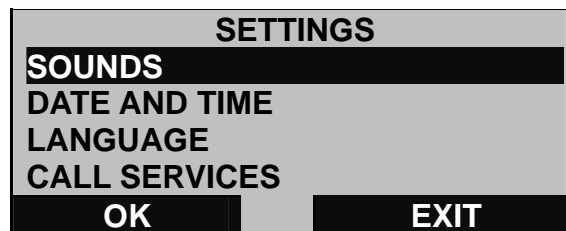
To turn off key tones (the noise produced when settings changes are changed or the handset is returned to its re-charger on the base station), go to **SETTINGS>SOUNDS>HANDSET TONE**.

To turn key tone on or off:

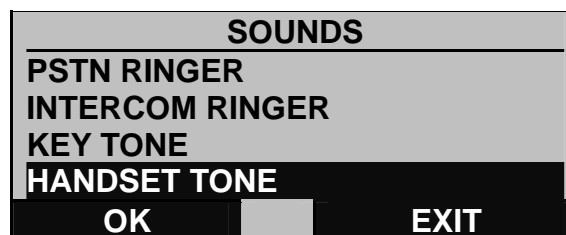
1. Go to the **SETTINGS** menu



2. Go to the **SOUNDS** menu



3. Choose **HANDSET TONE**.



4. Choose to turn the handset tone **ON** or **OFF** and press **OK**.

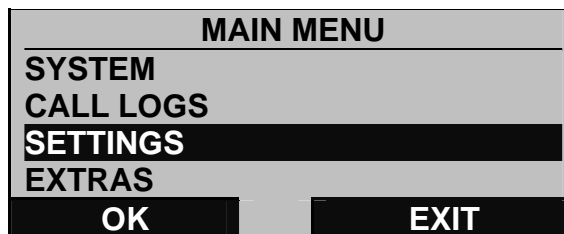


Change Equalizer Settings

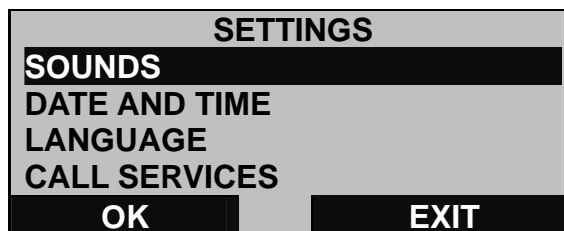
To change the equalizer for normal sound, enhanced bass or treble, go to **SETTINGS>SOUNDS>EQUALIZER**.

To change the equalizer settings:

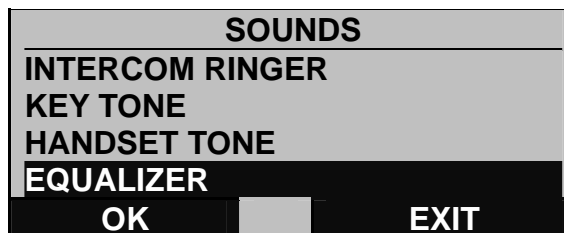
1. Go to the **SETTINGS** menu.



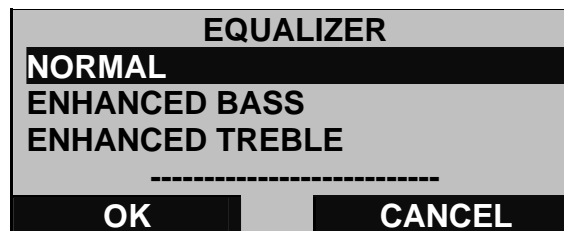
2. Go to the **SOUNDS** menu.



3. Choose **EQUALIZER**.



4. Choose the equalizer setting for **NORMAL**, **ENHANCED BASS** or **ENHANCED TREBLE** and press **OK**.



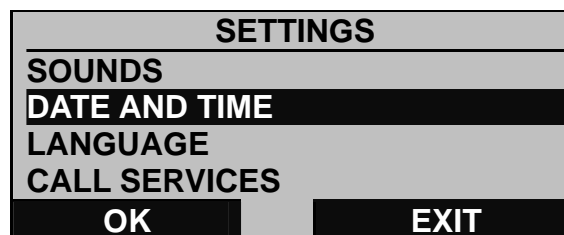
Change Time and Date Settings

Time and date settings are configured in a separate menu accessed through the handset settings menu. Date and time are displayed on the bottom of the desktop. To configure date and time or the format for display of time and date for the handset go to **SETTINGS>DATE AND TIME** and choose the function you want to change.

Change Current Time Setting

To configure the time that is displayed on the bottom of the desktop on the handset LCD screen:

1. From the **SETTINGS** menu, select **DATE AND TIME** and press **OK**.



2. Select **TIME** and press **OK**.

DATE AND TIME	
DATE FORMAT	
DATE	
TIME FORMAT	
TIME	
OK	EXIT

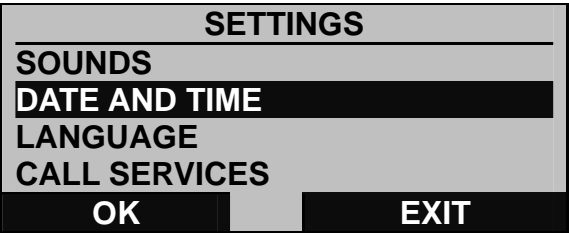
3. Configure the **HOUR** and **MINUTE** with the right and left arrows of the navigation button. Press the right arrow to increase the number displayed by 1 for each press, press the left arrow key to decrease the number. Use the up and down arrow keys to select **HOUR** or **MINUTE** for configuration.

TIME	
HOUR	04
MINUTE	<43>
OK	CANCEL

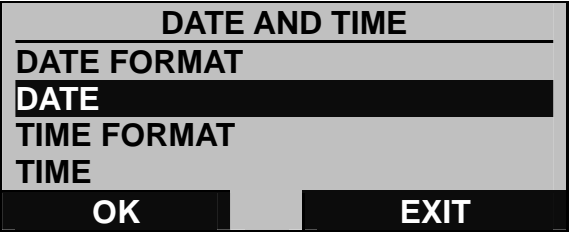
Change Date Setting

To configure the date that is displayed on the bottom of the desktop:

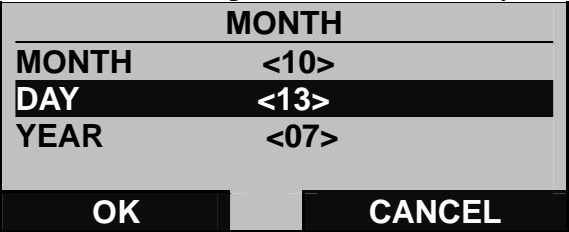
1. From the **SETTINGS** menu, select **DATE AND TIME** and press **OK**.



2. Select **DATE** and press **OK**.



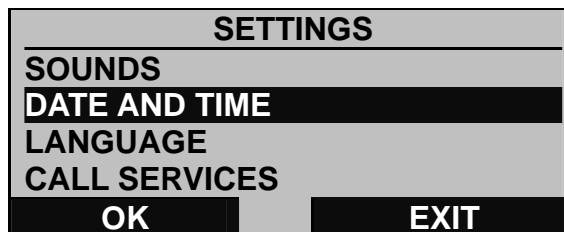
3. Configure the **MONTH**, **DAY** and **YEAR** with the right and left arrows of the navigation button. Press the right arrow to increase the number displayed by 1 for each press, press the left arrow key to decrease the number. Use the up and down arrow keys to select **MONTH**, **DAY** or **YEAR** for configuration.



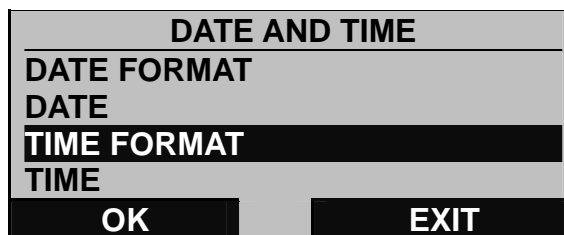
Change Time Format Display

To configure the time format used for the LCD display:

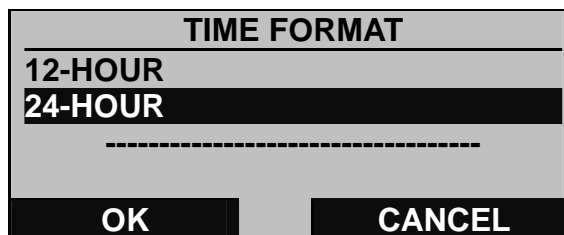
1. From the **SETTINGS** menu, select **DATE AND TIME** and press **OK**.



2. Select **TIME FORMAT** and press **OK**.



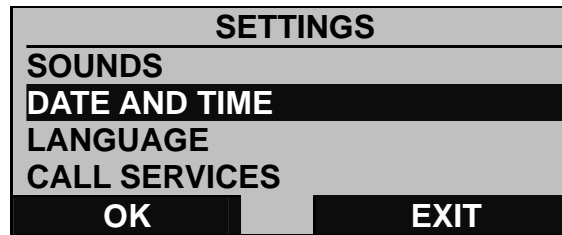
3. There are two date formats to choose from, a **12-HOUR** will display time in the form HOUR:MINUTE plus A or P to indicate AM or PM, for example) **01:09P** is nine minutes after one o'clock in the afternoon. The **24-HOUR** option uses a 24 hour clock, so nine minutes after one o'clock in the afternoon would look like **13:09** without any separate character to indicate AM or PM.



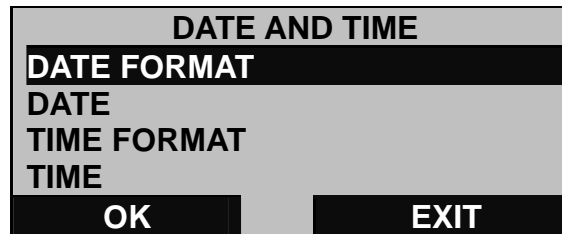
Change Date Format

For example, to configure the time that is displayed on the bottom of the desktop:

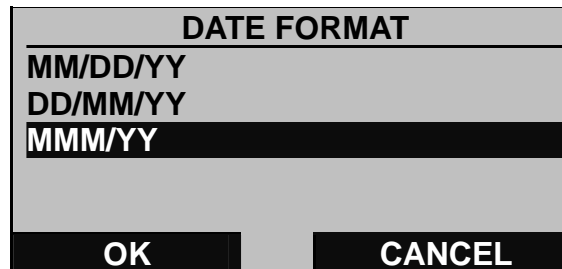
1. From the **SETTINGS** menu, select **DATE AND TIME** and press **OK**.



2. Select **DATE FORMAT** and press **OK**.



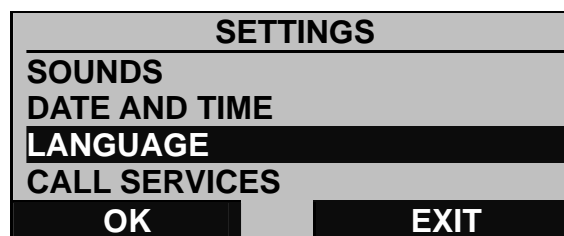
3. Choose to display the date in numeric form in the order Month/Day/Year or Day/Month/Year. The default date format setting uses an abbreviation English name of the month (the language setting does not have an effect on this).



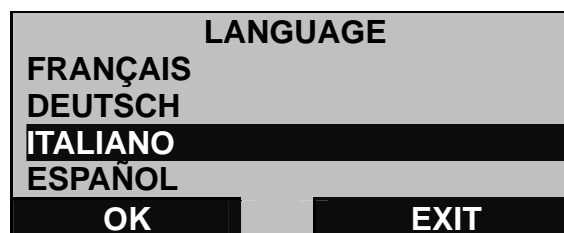
Change Language Setting

To change the language used in the LCD display, got to **SETTINGS>LANGUAGE** and choose from the languages offered. The default language is English. If the phone is reset, the language settings are also reset to English. The languages supported on the handset are: English, French, German, Italian, Spanish, Portuguese, Swedish, Danish, Norwegian and Finnish.

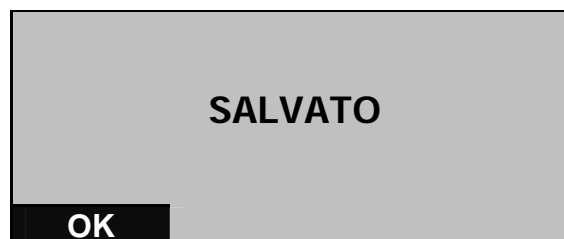
1. Choose **LANGUAGE** in the **SETTINGS** menu and click **OK**.



2. Scroll to select the language from the list and click OK to immediately begin using the chosen language.



3. A setting "SAVED" message appears briefly before returning to the language selection menu.

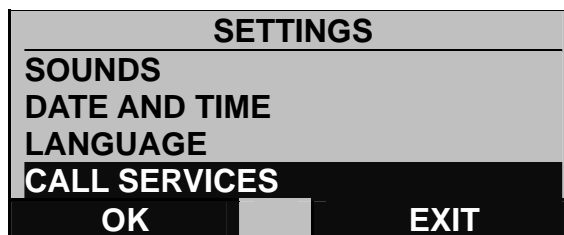


Change Call Service Settings

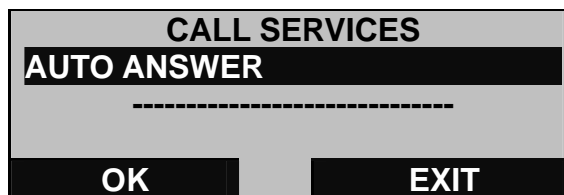
The phone supports Auto Answer to save an additional step when picking up the handset from the base station cradle to answer a call. When Auto Answer is enabled and the handset is resting in the base station cradle or recharging the battery, to answer an incoming call it is only necessary to pick up the handset. It is not necessary to press the Call button in this circumstance. Likewise when this is enabled, a call is ended by returning it to the base stations cradle.

To enable Auto Answer:

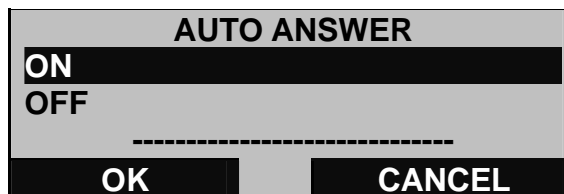
1. Choose the **CALL SERVICES** option in the **SETTINGS** menu and press **OK**.



2. Select **AUTO ANSWER** and press **OK**.

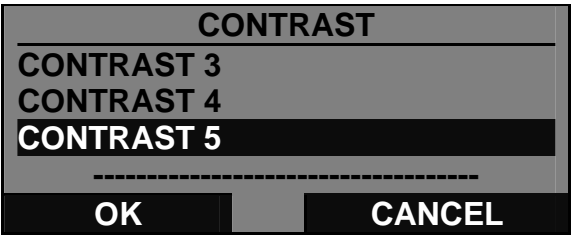
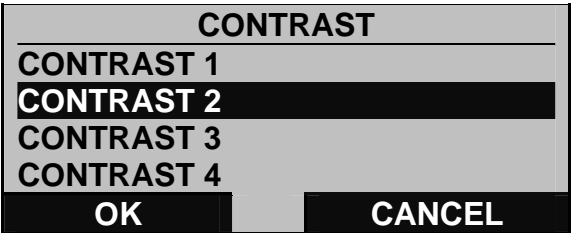


3. Select **ON** and press **OK** to activate Auto Answer.



Change Contrast Setting

To change the contrast of the LCD display go to **SETTINGS>CONTRAST**, select the level of contrast and press **OK**, the display will use the selected contrast level so you will immediately see how it will appear.



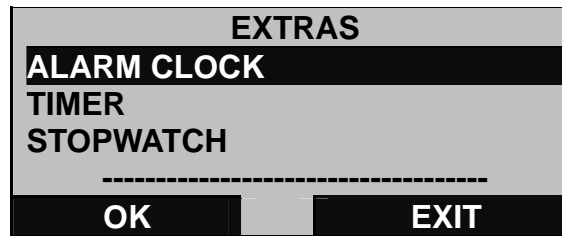
Handset Extras

The Extras menu access from the Main Menu includes alarm clock, timer and stopwatch functions.

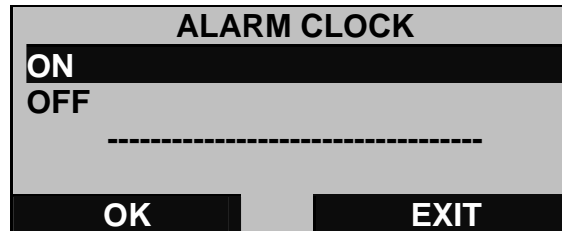
Alarm Clock

To use the alarm clock function:

1. Choose the **ALARM CLOCK** option and press **OK**.



2. Turn the alarm **ON**, and click **OK** to enter the time you want the alarm to sound.



3. Configure the **HOUR** and **MINUTE** for the alarm with the right and left arrows of the navigation button. Press the right arrow to increase the number displayed by 1 for each press, press the left arrow key to decrease the number. Use the up and down arrow keys to select **HOUR** or **MINUTE** for configuration.

ALARM CLOCK	
HOUR	00
MINUTE	<00>

OK	CANCEL

Timer

To use the alarm timer:

1. Choose the **TIMER** option and press **OK**.

EXTRAS	
ALARM CLOCK	
TIMER	
STOPWATCH	

OK	EXIT

2. Configure the **HOUR**, **MINUTE** and **SECOND** for the alarm with the right and left arrows of the navigation button. Press the right arrow to increase the number displayed by 1 for each press, press the left arrow key to decrease the number. Use the up and down arrow keys to select **HOUR** or **MINUTE** for configuration.

TIMER	
HOUR	00
MINUTE	<00>
SECOND	00

OK	CANCEL

Base Station Settings

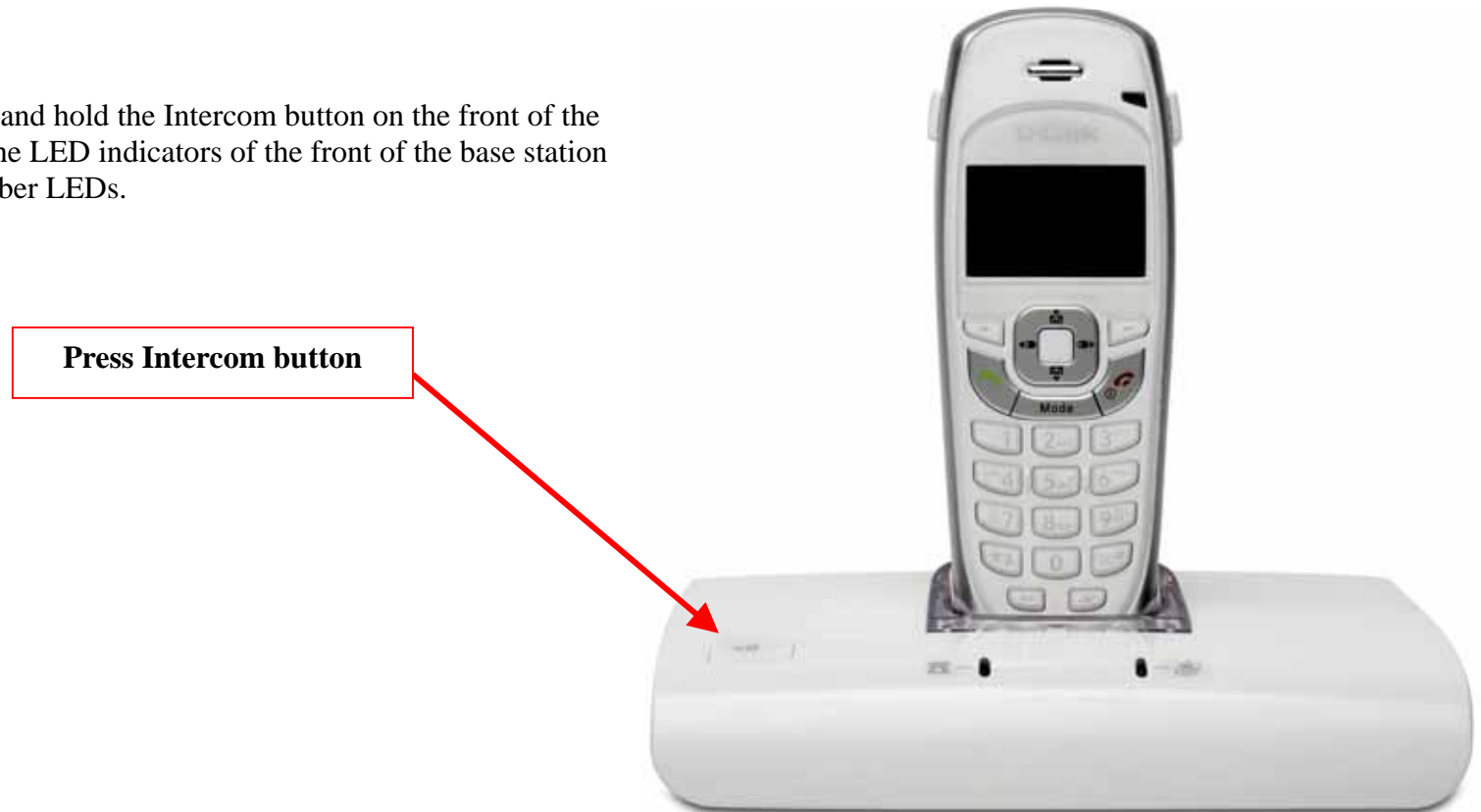
The Base Setup menu is used when there are more than one handset used or when there is more than one base station used. This is also where the base station can be reset to the factory default settings.

Adding New Handsets

If you are planning to use multiple handsets for a single base station, it will be necessary to register the added handset in order to be recognized by the base station. This process involves first activating the registration process from the base station, then configuring the new handset being added and requires a negotiation process to be initiated from the base station with which the added handset will associate.

Activate the Base Station

When you are ready to add a handset, press and hold the Intercom button on the front of the base station for 5 seconds. You should see the LED indicators of the front of the base station blink, alternating between the green and amber LEDs.

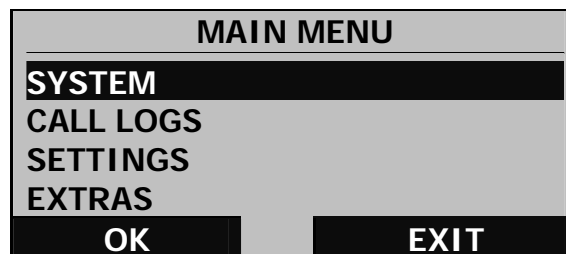


Now use the handset being added to do the following:

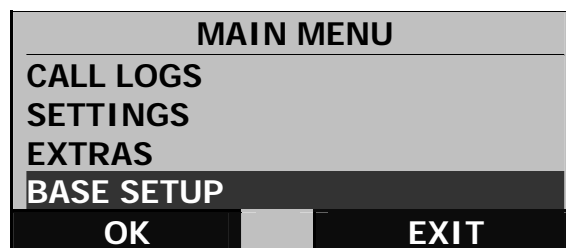
1. Press the Left Soft Key to use the **Menu** option at the bottom of the desktop.



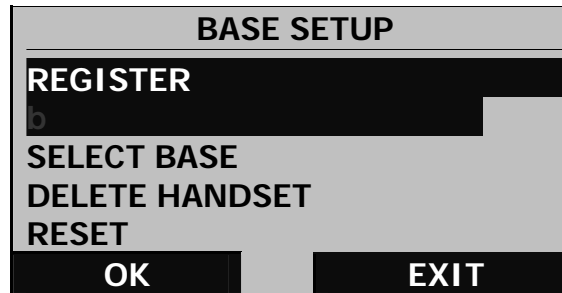
2. Now you can navigate through the **MAIN MENU** options by pressing the arrows of the navigation key.



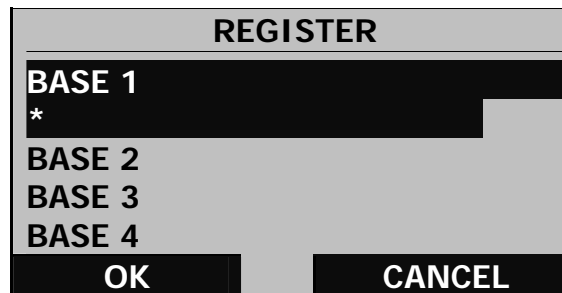
3. Use the navigation key to scroll down to the **BASE SETUP** option. Press the Left Soft Key to view the **BASE SETUP** menu.



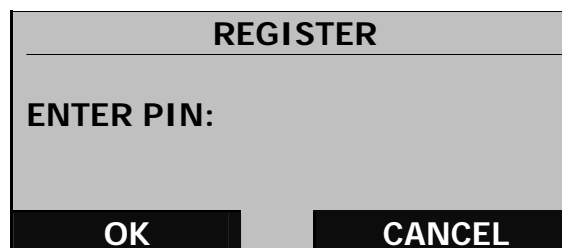
4. In the **BASE SETUP** menu, press the Left Soft Key to select the **REGISTER** option.



5. In the **REGISTER** menu, press the Left Soft Key to select the **BASE** from the list. The base that has just been activated will appear marked by an asterisk (*) in the list.

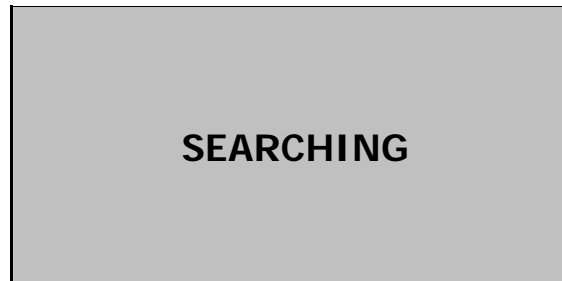


6. You must now enter the PIN number for the handset to establish the DECT connection. Use the number keypad to enter the PIN number. The factory default PIN number is "0000".

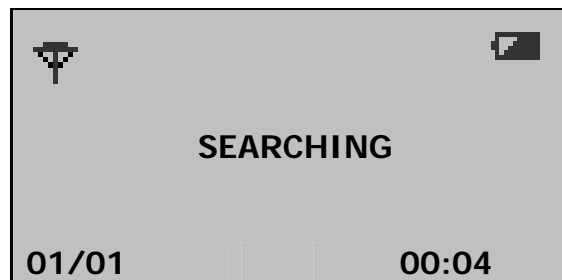




7. Once the PIN has been keyed in, press the Left Soft Key to select the **OK** option. The handset will initiate a search for the base station and a negotiation process will take a few seconds until the DECT connection is established.

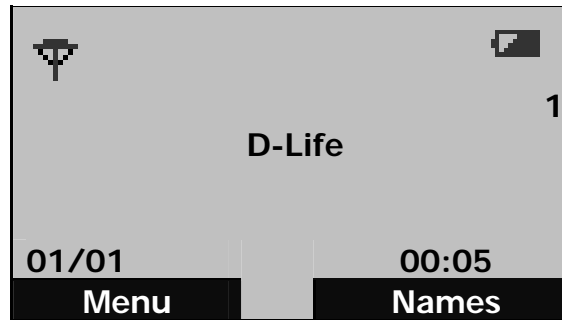


8. The antenna icon in the upper left corner of the display will blink on and off during the DECT connection negotiation process.





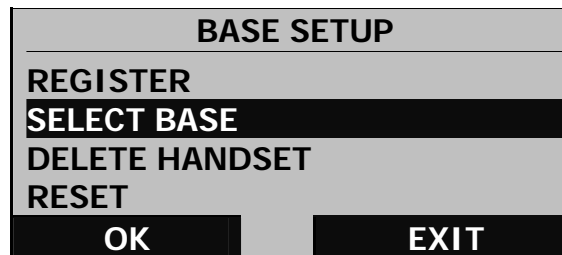
- When the DECT connection is established, the channel number used for communication between the base station and the handset appears under the battery icon near the upper left corner of the display. Finally when “D-Life” appears in the center of the display, the phone is ready to use.



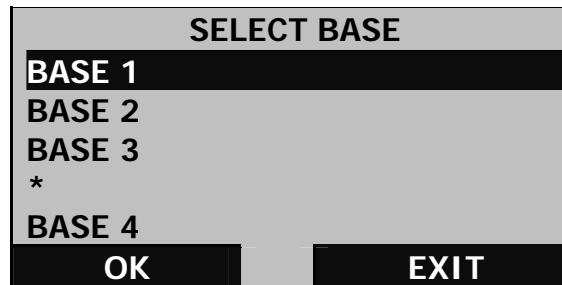
Change Base Station

The procedure to change which base station a handset will associate with is very similar to the procedure to add a new handset to a base station association group. First press the Intercom button on the front of the base station for 5 seconds until the LEDs flash on and off in an alternating pattern.

- To use another base station in an environment where more than one DHA-130 are being used, go to the **BASE SETUP** menu, choose **SELECT BASE** and press **OK**.

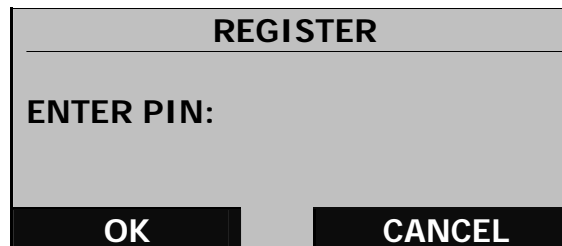


2. Choose a base from the list, the asterisk (*) indicates the base station currently broadcasting the registration request. Press **OK** to go the register handset menu where you will need to enter the PIN.

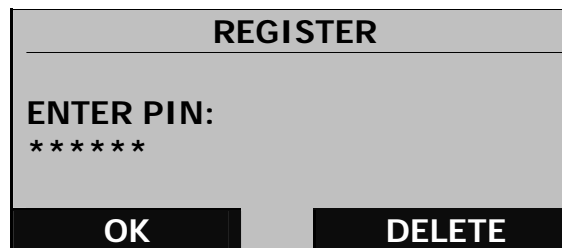


A screenshot of a handheld device screen titled "SELECT BASE". The screen displays a list of four base stations: "BASE 1", "BASE 2", "BASE 3", and "BASE 4". An asterisk (*) is positioned to the left of "BASE 4", indicating it is the active base. At the bottom of the screen, there are two buttons: "OK" on the left and "EXIT" on the right.

3. You must now enter the PIN number for the base station to establish the DECT connection. Use the number keypad to enter the PIN number. The factory default PIN number is "0000".



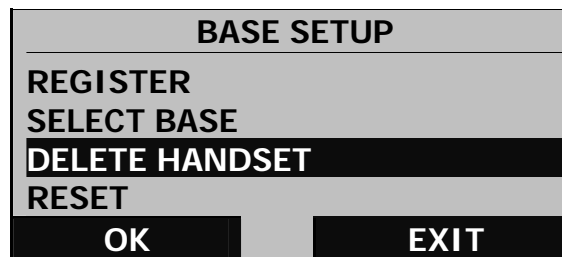
A screenshot of a handheld device screen titled "REGISTER". Below the title, it says "ENTER PIN:". At the bottom of the screen, there are two buttons: "OK" on the left and "CANCEL" on the right.



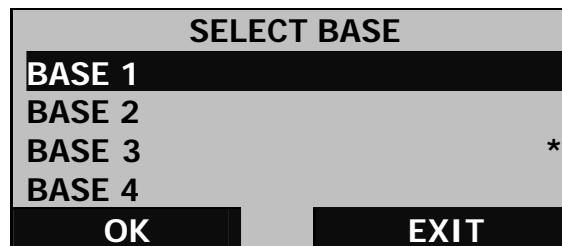
A screenshot of a handheld device screen titled "REGISTER". Below the title, it says "ENTER PIN:". Underneath "ENTER PIN:", there are six asterisks (*****). At the bottom of the screen, there are two buttons: "OK" on the left and "DELETE" on the right.

Delete Handset

1. To discontinue the DECT service connection to an individual handset, go to the **BASE SETUP** menu, choose **DELETE HANDSET** and press **OK**.

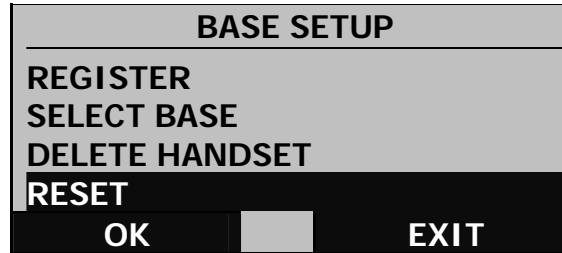


2. Choose a handset from the list, and press **OK** to go the menu where you will need to enter the PIN of the base station to remove the handset from service.

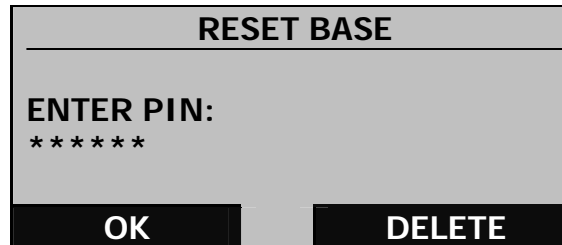


Reset Base Station

1. To reset the base station to its factory default settings including language and network IP settings, use the **RESET** option in the **BASE SETUP** menu.



2. Entering the correct PIN number is required to reset the base station. Enter the PIN number and press **OK**.

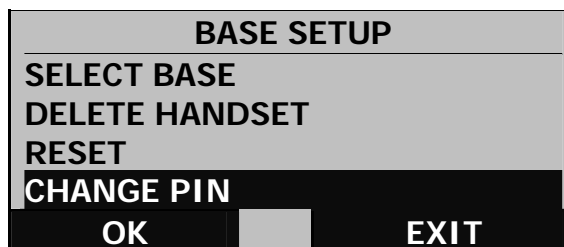


3. A correct PIN number entry will bring up a **CONFIRM?** prompt. The factory default PIN number is "**0000**". Choose **Yes** to reset the base station to factory default settings.

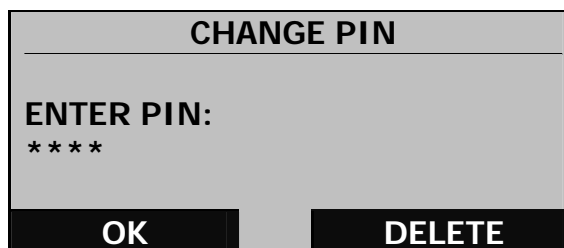
Change PIN

The PIN number used for the base station can be changed if desired. This is done through the **BASE SETUP** menu.

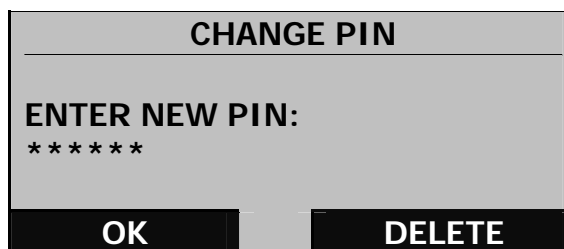
1. To change the PIN number for the handset in use, select the **CHANGE PIN** option in the **BASE SETUP** menu and press **OK**.



2. Entering the current PIN number is required in order change it to a new number. Enter the current PIN number for the handset in use and press **OK**. The factory default PIN is "0000".



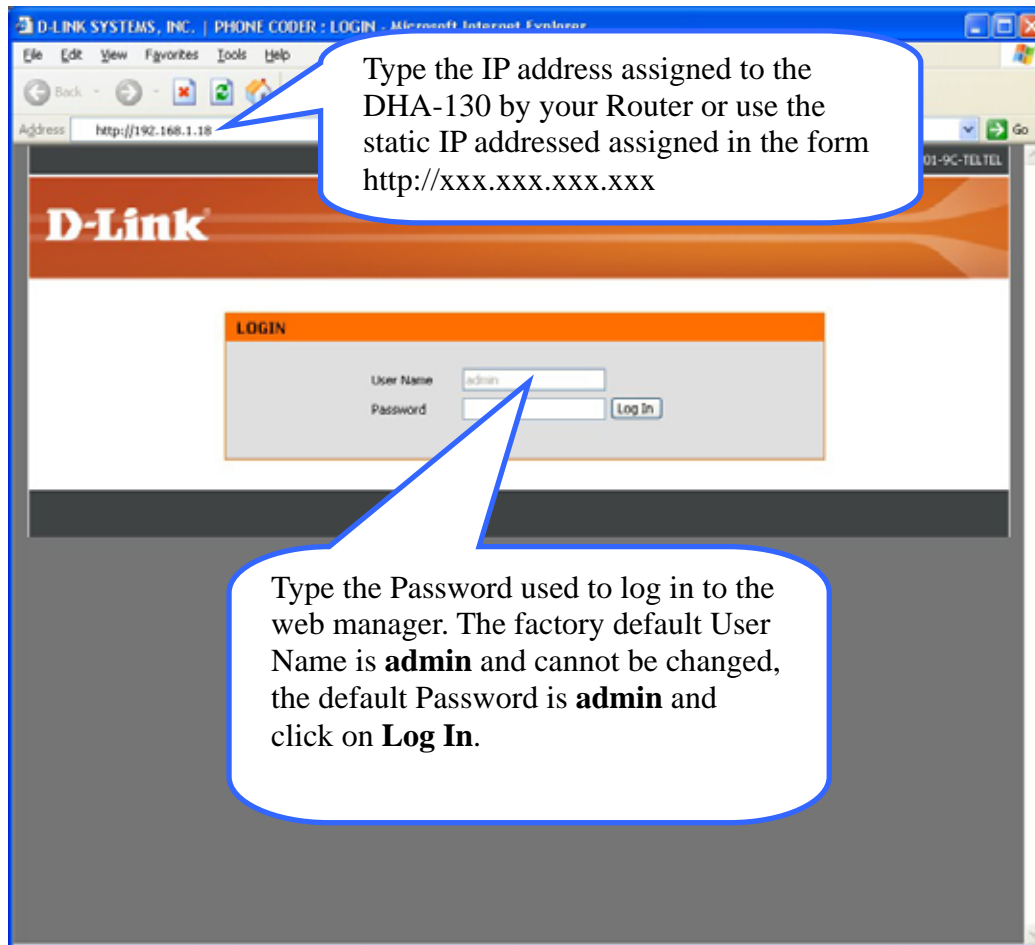
3. Enter the new PIN number for the handset in use and press **OK**.



4. A **CONFIRM?** prompt appears. Choose **Yes** to use the new PIN number.

Using the Web Utility

The DHA-130 web configuration utility can be used for limited configuration of the DHA-130. Since the Phone is configured automatically by D-Life, there is not much to configure. The VoIP settings cannot be configured through the web configuration utility.



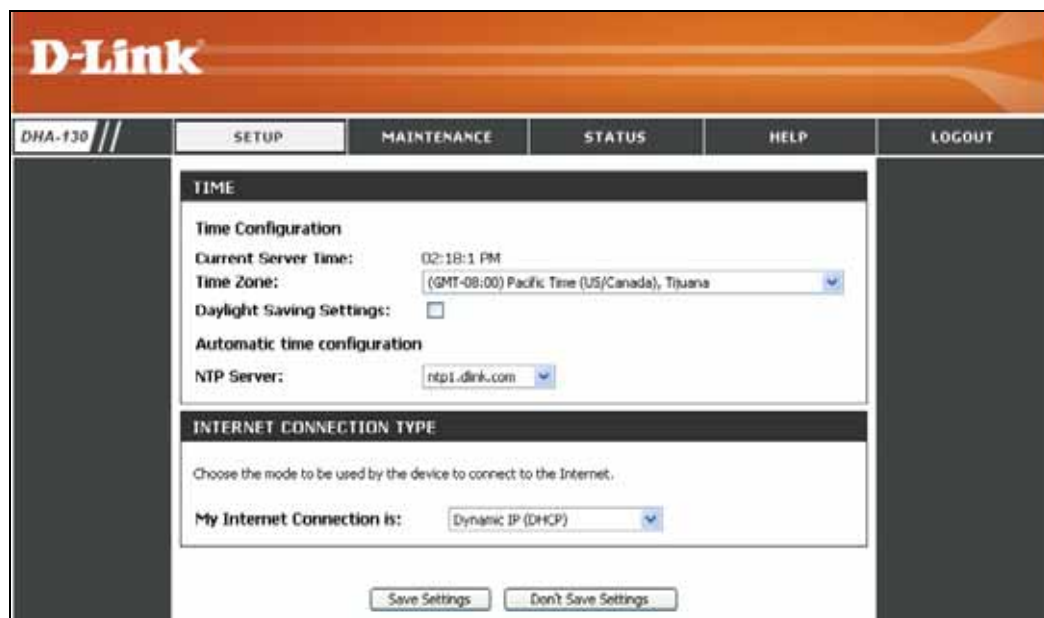
Internet Connection and Time Configuration

To configure a fixed IP address for the DHA-130; or if the Phone is connected directly to a broadband modem, the Internet settings can be configured in the **Setup** menu page. To view the Setup menu, click on the Setup link to view the menu pictured below, choose the network connection option from the **My Internet Connection is:** pull-down menu, configure the settings and click on the **Save Settings** button.

The Setup menu is also used to configure the system time for the Phone.

Dynamic IP Address (DHCP)

The Dynamic IP Address (DHCP) option can be used if you are using automatic IP address assignment for IP devices on your network. This can be used for a local DHCP server on the LAN, or for DHCP service from your ISP or network services provider. The Phone becomes a DHCP client using this configuration and it is the factory default setting.



The screenshot displays the D-Link DHA-130 web interface. At the top is the D-Link logo. Below it is a navigation bar with links: DHA-130, SETUP, MAINTENANCE, STATUS, HELP, and LOGOUT. The main content area is titled 'TIME' and contains two sections. The first section, 'Time Configuration', includes fields for 'Current Server Time' (02:18:1 PM), 'Time Zone' (a dropdown menu showing '(GMT-08:00) Pacific Time (US/Canada), Tijuana'), 'Daylight Saving Settings' (an unchecked checkbox), and 'Automatic time configuration' (a section header). Below this is the 'NTP Server' field with a dropdown menu showing 'ntp1.dlink.com'. The second section, 'INTERNET CONNECTION TYPE', includes a text prompt 'Choose the mode to be used by the device to connect to the Internet.' and a dropdown menu labeled 'My Internet Connection is:' with 'Dynamic IP (DHCP)' selected. At the bottom of the form are two buttons: 'Save Settings' and 'Don't Save Settings'.

To configure Dynamic IP address (DHCP) for the network connection, select the **Dynamic IP (DHCP)** option from the **My Internet Connection is:** pull-down menu in the **Setup** page menu.

Static IP Address

The Phone is configured to use automatically assigned IP settings by default. However a fixed IP address can be assigned to the Phone if desired.

Static IP address can also be used if the Phone is connected directly to a broadband modem and the ISP has assigned and Static IP address Internet connection.

The screenshot shows the D-Link DWA-130 web manager interface. The top navigation bar includes links for SETUP, MAINTENANCE, STATUS, HELP, and LOGOUT. The main content area is titled 'TIME' and contains the following sections:

- Time Configuration:**
 - Current Server Time: 02:18:1 PM
 - Time Zone: (GMT-08:00) Pacific Time (US/Canada), Tijuana
 - Daylight Saving Settings: ☐
 - Automatic time configuration: ☐
 - NTP Server: ntp1.dlink.com
- INTERNET CONNECTION TYPE:**

Choose the mode to be used by the device to connect to the Internet.

My Internet Connection is: Static IP
- STATIC IP ADDRESS INTERNET CONNECTION TYPE:**

Enter the static address information provided by your Internet Service Provider (ISP).

IP Address: 5.52.42.121

Subnet mask: 255.0.0.0

Default Gateway: 5.21.97.200

Primary DNS Server: 168.95.1.1

Secondary DNS Server: 168.95.192.1

At the bottom of the form are two buttons: 'Save Settings' and 'Don't Save Settings'.

To use Static IP address network setting, select the **Static IP** option from the **My Internet Connection is:** pull-down menu and configure IP settings suitable for your LAN. Click the **Save Settings** button to apply the new IP settings. Notice that it will be necessary to use the newly configured IP address to again access the web manager. After applying the settings, type the new IP address into the browser address bar and press the **Enter** key to regain management access.

PPPoE

If you are using a cable or DSL modem without a router to provide the Internet connection settings, you might need to configure PPPoE settings to connect to the

Internet. If you have been given a user name and password to use for your Internet connection and you are NOT using a router (broadband or DSL router) configured to make the PPPoE connection, the Phone can be configured as a PPPoE client.

D-Link

DHA-130 // SETUP MAINTENANCE STATUS HELP LOGOUT

TIME

Time Configuration

Current Server Time: 02:18:11 PM

Time Zone: (GMT-08:00) Pacific Time (US/Canada), Tijuana

Daylight Saving Settings: ☐

Automatic time configuration

NTP Server: ntp1.dlink.com

INTERNET CONNECTION TYPE

Choose the mode to be used by the device to connect to the Internet.

My Internet Connection is: PPPoE (Username / Password)

PPPOE INTERNET CONNECTION TYPE:

Enter the information provided by your Internet Service Provider (ISP).

Address Mode: ☒ Dynamic IP ☐ Static IP

IP Address: 5.44.83.200

Username: test

Password: ****

Save Settings Don't Save Settings

To configure the PhoneCorder as a PPPoE client, choose the **PPPoE** option from the **My Internet Connection is:** pull-down menu, type in the User Name and Password used for authentication, and if desired or required, provide a **Service Name** and **AC Name**. The **Idle Timeout** is the time in minutes the PhoneCorder is allowed to remain idle (i.e. no data received or transmitted) before the PPPoE session is ended. Use this option if your ISP charges for Internet access based on the amount of time spent connected. If you have unlimited Internet use, leave this blank to keep the PPPoE connection on at all times.

Maintenance

Use the Maintenance menu page to change the password used to access the Phone’s web utility and to upgrade the firmware.

D-Link

DHA-130 // **SETUP** **MAINTENANCE** **STATUS** **HELP** **LOGOUT**

ADMIN PASSWORD SETTINGS

Old Password :

New Password :

Retype Password :

FIRMWARE INFORMATION

Current Firmware Version : 1.00.001-9C-TELTEL
 Current Firmware Date : 10042007
 Latest Firmware Version : 1.00.001-9C-TELTEL

UPDATE FIRMWARE

Firmware updates are usually done automatically by the device itself. The **UPDATE FIRMWARE** section allows you to manually update or restore the firmware of your device. You can download the latest firmware from the Download page of www.d-link.com. Click the **Browse** button and select the downloaded firmware file, then click **Update** to update your device's firmware. Do not unplug your device while it is updating.

File Path:

Administration Password Setting

To create a new password, type the **Old Password**, type the new password in the **New Password** field and then confirm the change in the **Retype Password** field.

The Username (admin) used to access the Router's management software cannot be changed by the user.

Firmware Upgrade

To upgrade firmware, type in the name and path of the file or click on the **Browse** button to search for the file. Click the **Upload** button to begin copying the file. The file will load and restart the Phone automatically.

Status

To view the current status and key settings configured on the PhoneCorder, click the Status link.



The Status information includes IP settings and connection status of the Phone. This information is useful for troubleshooting.

Technical Specifications

Ethernet Port Standard Compliance Rate Adaptation	<ul style="list-style-type: none"> ▪ RJ-45, Auto MDI/MDI-X, 10/100 Mbps ▪ IEEE 802.3 for 10 Mbps Ethernet ▪ IEEE 802.3u for 100 Mbps Ethernet ▪ 10/100 Mbps, Auto-Negotiation
Cordless Phone Interface Standard Compliance Frequency RF Channels Modulation Voice Coding	<ul style="list-style-type: none"> ▪ DECT (Digital Europe Cordless Telecommunication) ▪ GAP (Generic Access Profile) ▪ 1880-1900 MHz ▪ 10 Channels ▪ GFSK ▪ ADPCM< 32K bit/s t.
Voice Port Telephone dialing mode support Ringer Equivalency Number Tone Detection Line Impedance	<ul style="list-style-type: none"> ▪ One RJ-11 POTS port for PSTN Life Line ▪ DTMF ▪ Dial Pulse (20pps/10pps) ▪ REN=5 ▪ DTMF ▪ Modem/Fax: V.21, V.25 ▪ 600ohm

Chassis	
Material	<ul style="list-style-type: none"> ▪ ABS+PC
Width	
Depth	
Height	
Weight	
Power	<ul style="list-style-type: none"> ▪ AC Power Adapter ▪ Output: AC12V, 1.2A ▪ Metal Hydride Cylindrical Cell ▪ Size AAA
Battery	
Telephony	
Call Control Protocol	<ul style="list-style-type: none"> ▪ SIP (RFC3261) ▪ G.711 (A-law and U-law) ▪ G.726 ▪ G.729A ▪ iLBC
CODEC	
Echo Cancellation	<ul style="list-style-type: none"> ▪ G.168

Management	<ul style="list-style-type: none"> ▪ DHCP Client (RFC2131)
DHCP (Dynamic Host Configuration Protocol)	
Configuration Restore/Backup	
TELNET	
TFTP Client	<ul style="list-style-type: none"> ▪ For firmware upgrade and configuration file download ▪ Username/Password control for TELNET and WEB configuration ▪ SIP Authentication with MD5 password encryption ▪ SIP/STUN
Security	
SIP Authentication	
VoIP NAT Traversal	
Safety/EMI Requirements:	
EMI Certification	<ul style="list-style-type: none"> ▪ UL/CUL ▪ FCC Class B ▪ BSMI Class B ▪ CE Class B
Environmental	
Operating Temperature	0° to 40°C
Storage Temperature	-10° to 55°C
Operating Humidity Range	5 to 95%, Non-condensing

Router Port Configuration

Most D-Link routers such as the **[insert D-Link DSL and broadband router product numbers here]** support a feature that allows easy one-click configuration of the DHA-130. So if you are using a D-Link router, chances are you will not need to manually configure the ports. If a one-click VoIP configuration is not supported on your router, check to make sure it is using the latest firmware. Upgrading your router to the latest firmware might be necessary to support this feature. If you have other routers or you are having difficulty with the DHA-130, read the information on the next below to learn how to open ports on routers. A D-Link router is used for the examples to illustrate how the port forwarding menus are used, but the example is typical of many small office routers.

Opening Ports on Routers and Gateways

The firewall security features built into most routers and gateways might prevent users from accessing the VoIP features of their DHA-130.

A router connects to the Internet through a series of numbered ports. The ports used by the DHA-130 are often blocked from access over the Internet by the firewall features of the router.

You may be able to connect to another VoIP phone but not receive any audio. This is a typical scenario of a firewall blocking the ports needed by the DHA-130 to send audio.

If this is the case, you need to open the ports on your router to the Internet to allow access to the DHA-130.

The port numbers used by the DHA-130 are:

3478
5060
8080
9090

The router or gateway that you are using may be different from the D-Link DI-614+ wireless router example shown on the following pages. However, the general procedure for opening ports will be similar. (If you do not have a D-Link router, look for Virtual Server, Firewall Rules, Port Forwarding, Advanced or Firewall in your router's configuration utility.)

In the example that follows we begin by opening the DI-614+ Web configuration utility and going to **Advanced > Virtual Server**.

Follow the steps on the following pages to open the ports on your router for successful operation of the DHA-130.

How to Manually Open Ports on a Router

Virtual Server

Virtual Server is used to allow Internet users access to LAN services.

☒ Enabled ☐ Disabled

Name:

Private IP:

Protocol Type:

Private Port:

Public Port:

Schedule: ☒ Always

☐ From time : AM to : AM

day to

Name	Private IP	Protocol	Schedule
<input type="checkbox"/> i2eye	192.168.0.101	TCP 1720/1720	always
<input type="checkbox"/> i2eye	192.168.0.101	IP (O) 15328/15328	always
<input type="checkbox"/> i2eye	192.168.0.101	IP (O) 15329/15329	always

A total of 7 ports must be opened for the DHA-130 to work with most routers or firewalls. To open these ports, please do the following:

A. Click **Enabled**

B. Give the Virtual Server a **Name** (such as i2eye)

C. Under **Private IP**, enter the IP address obtained from the DHA-130

(How to obtain an IP address from the DHA-130: Turn the DHA-130 on. Highlight the Settings button on the Main Screen. Navigate to Settings>Network>Network Address >IP address)

D. Under **Protocol Type**, choose **Both** (TCP and UDP)

E. Under **Private Port** and **Public Port**, enter **3478**

F. Under **Schedule**, click **Always**

G. Click **Apply** to save this entry

You have now completed the entering of one port to be opened. You will need to open six more ports.

Repeat steps **A** through **G** five more times for each one of the following five ports:
5060, 8080, and 9090.

You have now completed the opening of the 4 ports. Your DHA-130 is ready to use with your router or gateway!

(Important: Not all routers and gateways are the same. Please refer to your user product's manual for specific instructions on 79 opening ports).

Troubleshooting

1. The DHA-130 will not make a call using a phone number

Check that you did not misdial the number.

The Phone is not connected to the Internet.

The Phone is not registered with the D-Life. It may take the Phone up to 10 minutes to register. Verify all network settings, including DNS.

Far side of the call is not registered with a D-Life or compatible VoIP Directory Service.

2. The DHA-130 can't make direct IP calls

Phone is not connected to the Internet. Check to make sure the broadband connection is functioning.

The person you are trying to call is unreachable. Ensure the IP address of the person you are trying to call is correct.

3. The DHA-130 or television produces an off-hook signal

The telephone is off the hook. Hang up the phone.

4. The DHA-130 or television produces a fast busy signal

Person you are trying to call is not registered with the directory service. Call the person using direct IP or wait until the person is registered with the directory service.

Person you are trying to call is in a call or has rejected your call. Try your call at a later time.



























5. DHA-130 doesn't ring with an incoming call

Telephone cable is not properly plugged in to wall or DHA-130. Verify that the cable is connected properly.

6. Phone freezes-up while answering a call

Phone is not functioning properly behind a firewall. See Appendix B for troubleshooting multiple port connections.

LCD Display Icons

		Icon Name	FUNCTION
		Antenna	Linked to base (steady) or lost link (blinking)
		Line 1	Line 1 is off hook (Steady) Incoming call from Line 1 (Blinking)
		Line 2	Line 2 is off hook (Steady) Incoming call from Line 2 (Blinking)
		New missed call	New missed call CID
		Repeated missed call	Repeated missed call CID
		Line 1 on Hold	Line 1 on hold
		Line 2 on Hold	Line 2 on hold
		Line 1 indicator	Line 1 indicator during phone mode
		Line 2 indicator	Line 2 indicator during phone mode
		Line 1 ringer off	Line 1 ringer off Icon
		Line 2 ringer off	Line 2 ringer off icon
		Line 1 & 2 ringers off	Lines 1 & 2 ringers off icon
		Speaker	Hands free speaker is turn on
		Intercom indicator	Intercom call indication in conference mode
		Battery	3-block level indication, animated when charging, empty when battery is low
		New message	New message indication (VMWI is on, new missed call)
		Alarm	Alarm clock icon
		Keypad lock	Keypad lock icon
		Arrow icons	Arrow icons (left and right arrow)
		Volume	Volume icon
		Melody	Melody icon
		Number	Number icon
		Mode/status	Mode/status icon (used in call barring, etc)
		Prefix	Prefix icon