

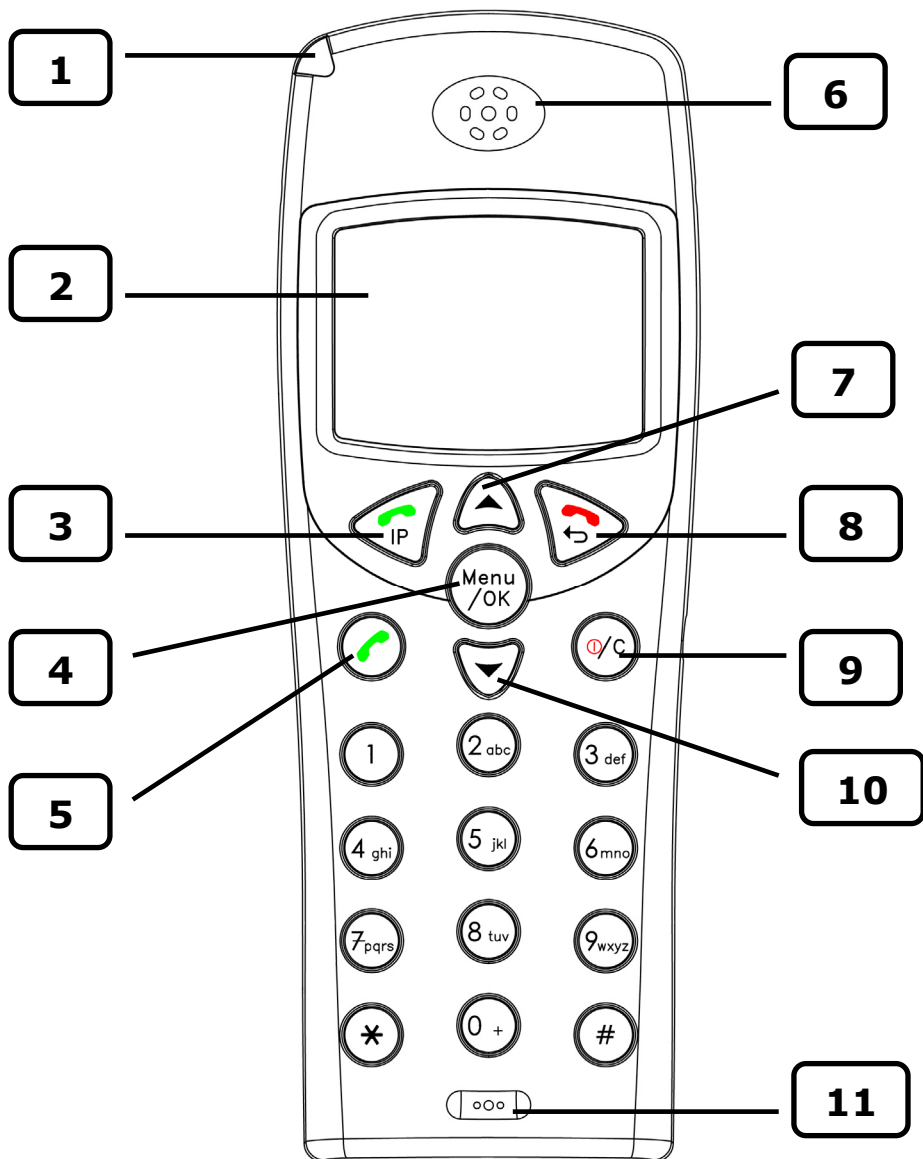
Handset & Base Station

User Guide



DPH-C160S

v1.01



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Installation

UNPACKING

The package contains:

- Handset
- Base Station
- 3 AAA batteries
(Ni-MH 1.2V 600mAh)
- Mains Adapter (9VAC 1000mA)
- Ethernet Cable
- Phone Cable
- Belt Clip
- CDROM (Quick Setup Utility)

IMPORTANT!

Only use with the supplied power adapter.

CONNECTION

1. Connect the mains to adapter to the **POWER** socket on the base station and an electrical wall socket.
2. Carefully remove the handset battery cover. Insert the batteries into the handset ensuring correct battery polarity is observed, replace the battery cover.
3. Place the handset in the base station, with the keypad facing outwards. Once the handset is correctly positioned in the base station, a beep will be heard.
4. Leave the handset to charge initially for 12 hours before use.
5. Connect the phone cable to the RJ-11 port on the back of the base station.
6. Plug the other end of phone cable into the telephone network wall socket.
7. Connect the Ethernet cable to the LAN port on the back of the base station.
8. Plug the other end of Ethernet cable into a spare port in your Router/Gateway.

IMPORTANT!

Under power failure conditions the DPH-C160S will not operate. Please ensure that a separate telephone not dependant on local power is available for emergency use. The earpiece of the handset may attract small objects such as staples and pins, care should be taken when placing the handset near these items. Do not place the base station close to other electrical equipment such as TVs, microwaves, computer screens, fans, etc. This will minimise the risk of interference. Do not place the base station in areas where it will be exposed to direct sunlight or other major heat sources.

Installation

BELT CLIP

A belt clip is included, which can be fitted on the back of the handset. The belt clip enables the handset to be attached to a belt, waistband or similar. To attach the clip, align it with the indents on the sides of the handset and press it into place over the back of the handset. You should hear it click into place.

BATTERY

The DPH-C160S is supplied with environmentally-friendly nickel metal hydride (NiMH) batteries – 3 x AAA 1.2V. As with all batteries, performance may degrade over time; should you notice that the standby time has reduced considerably or there are signs of leakage, the batteries should be replaced. Fully-charged batteries will last for approx 120 hours in standby and 10 hours call time. These operation times apply at normal room temperature. Full battery capacity will be achieved once the batteries have been charged 4-5 times, completely discharged batteries will take 10 hours to fully recharge. To maintain optimum charge capacity it is better for handsets to be charged every other night, rather than after every call.

The base station has an automatic charging mechanism that prevents the batteries from being overcharged or damaged by prolonged charging.

PLEASE NOTE!

To ensure and maintain good charging of the handset batteries we recommend that the base station and handset charging contacts are cleaned regularly. i.e. monthly, with a pencil eraser and/or soft dry cloth. The recharging system used in this model may result in the handset and the batteries becoming warm. This is normal and will not damage the equipment.

When the telephone is installed for the first time, the batteries must be charged for 12 hours before using the telephone. Use original batteries only. The warranty does not cover any damage caused by incorrect use of batteries. Please dispose of any batteries in a responsible and environmentally friendly manner.

Installation

BATTERY CHARGE INDICATOR

The symbol  on the LCD display of the handset indicates when it is time to recharge the batteries. When the battery is running low the LCD display will show an empty battery symbol and a warning tone will be heard. If the handset is not recharged at this time, the phone will power off and cease to function until it is recharged.

The symbol  will be displayed when the battery is fully charged.

PLEASE NOTE!

When the handset has been switched off and then on again it may take up to five minutes for the correct charge to be shown on the LCD display.

TURNING THE HANDSET ON/OFF

Press and hold the  for a few seconds to turn the handset on or off. When the handset is turned off, no calls can be made or received. The handset is designed to be always turned on, i.e. it is not necessary to turn it off overnight. However, we recommend turning the handset off if it is not to be used for a prolonged period of time, e.g. during a holiday. If the batteries run low, the handset will turn itself off. If the handset is power off and placed back into the cradle on the base station it will power itself back on and start to recharge within 1-2 minutes.

RANGE

The range of the DPH-C160S varies depending on different factors in the surrounding environment. Radio waves transmitting the call may be hindered by obstructions or signal reflections that can reduce the range.

Specified ranges require unobstructed transmission between the handset and the base station. In such ideal conditions the DPH-C160Ss range can be up to 300 metres. In densely populated areas, houses, apartments, etc. the range will be reduced. Try to get the best range by relocating the base station, the ideal location is a high and unobstructed place.

Installation

Out of Range Warning

If the handset is carried to far from the base station during a call, the sound quality will deteriorate and a warning tone will be heard. Unless the handset is moved closer to the base station within a few seconds the call will be disconnected.

HEADSET

The handset can be used with an optional headset and is equipped with a socket for this. Headsets are available as an extra accessory and can be purchased from your local retailer.

Then using the optional headset there is not change in the way a call is received or made. When a headset is connected the handset microphone and earpiece will be automatically disabled.

PLEASE NOTE!

The volume may be high on the headset earpiece. Adjust the setting immediately when you connect a headset.

HANDSET INDICATOR

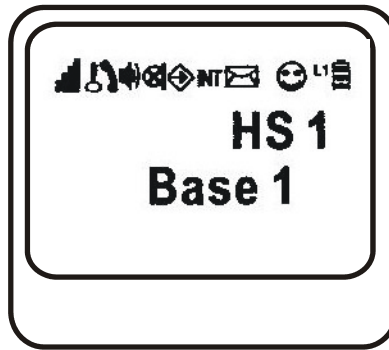
The indicator light above the LCD display will flash during the ringing for an incoming call.

BASE UNIT INDICATORS

There are several indicator lights located on the base station and will function differently depending on the function that is occurring. The Power/Status light will be solid when the unit is in an operational state and flashing while the unit is booting up and obtaining its settings from the VoIP provider. The VoIP light will be solid while making a call through the VoIP service and will be flashing while making a PSTN call and finally the WAN light will be solid when you have a connection to your Router/Gateway and then flash when transmitting data.

Installation

THE LCD DISPLAY



Icon	Description
	Signal Strength Indicates the current signal strength between the handset and the base station more bars indicate higher signal strength. This icon is always displayed when the telephone is on.
	In Use Displayed when the telephone is in use (i.e., a telephone call is in progress).
	Speakerphone Indicates the handset is in speakerphone mode.
	Line Indicates the line is engaged.
	Operation Mode Displayed when the handset is in operation mode.
	Caller ID Indicates a new call. To view the caller, access the Caller ID menu.
	Battery Status Indicates the relative charge state of the handset's batteries more bars indicates a higher level of battery charge. During the charging cycle, this icon will flash. This icon is always displayed when the telephone is on.

Operation

MAKING A VOIP CALL

1. Enter the required telephone. Mistakes can be erased by pressing the **Clear** button.
2. Press  and the telephone number will now be dialled via the VoIP service.
3. Press  to terminate the call.

MAKING A PSTN CALL

1. Enter the required telephone. Mistakes can be erased by pressing the **Clear** button.
2. Press  and the telephone number will now be dialled via the PSTN.
3. Press  to terminate the call.

RECEIVING A VOIP OR PSTN CALL

1. Wait for the handset to ring. The indicator light on the handset will flash.
2. Press  or  to answer the incoming VoIP or PSTN call.
3. Press  to terminate the call.

PLEASE NOTE!

*During a call you change the volume as shown in the Volume Control section.
If the telephone cannot connect to a line, you may not hear any dial tone on the handset at all. The problem may be due to the batteries running low, the handset being too far away from the base station, loss of Internet connection or all of the transmission channels are being engaged.*

Operation

VOLUME CONTROL

The speaker and earpiece volume may be adjusted during a call using the  or  (1 – low, 9 – high).

HANDS FREE SPEAKERPHONE

In addition to normal handset mode you can select hands free mode. With hands free mode you make a call then place the handset on a table or similar hard surface, this allows everyone in the room to converse with the caller.

1. Dial the required telephone number. Mistakes can be erased by pressing the **Clear** button.
2. Press  or  and the telephone number will be dialled. The earpiece volume can be adjusted using the  or .
3. Press and hold the  for 2-3 seconds and the speaker will activate.
4. When you have selected hands free mode place the handset on a hard flat surface, e.g. table.
5. Speak towards the microphone on the lower front edge of the handset (maximum 1 metre away).
6. You can adjust the speaker volume during the call by pressing the  or .
7. Press and hold the  for 2-3 seconds to deactivate the speaker.
8. Press  to terminate the call.

PLEASE NOTE!

In hands free mode it is only possible for one person to talk. The switch over between speaker and microphone is automatic and dependant on the sound level of the incoming call and microphone respectively. It is therefore essential that there are no loud noises, e.g. music, in the immediate vicinity of the telephone, as this will disrupt the speaker function.

Operation

HANDSET LOCATOR

Pressing the Handset Locator button on the base station will activate the paging signal on the handset. This function is used to help locate the handset. The signal will stop once the  button is pressed.

Menu

Description of the menu system

The DPH-C160S has a menu system controlled by the buttons directly under the LCD display. The functions shown in the display (directly above the button) are:



Accesses the menu system. Also to scroll one step forward and/or confirm selected option.



Used to go back to the previous menu option.



Used to delete or clear and entry.

There are also the following buttons:



To scroll through the menu alternatives.



Used to go back to the previous menu option, alternatively press and hold to exit menu system.

The menu contains the following main headings:

System Info	Displays the current IP address and Phone Number.
Call Log	Displays a listing of received, missed and dialled calls.
Contact List	Displays a listing of Phone Numbers that have been configured in the Contact List via the Web GUI.
Phone Book	To store, delete or change telephone numbers in the unit's memory.
Caller List	Displays a listing of all PSTN call details.
HS Setting	Settings for ringer, language, registering, etc.
BS Setting	Settings for handset registration, call barring, etc.
Select Base	Settings for base station registration.
HS Register	Settings for registering a new handset with a base station.

System Info

MY IP

This will display the current IP address assigned to the DPH-C160S via a Router/Gateway device (DHCP) or the IP that you have manually configured onto the device (Static). eg. 10.1.1.1

PHONE NO.

This will display the current phone number configured on the handset. This will be configured as soon as you have registered with a VoIP service plan. eg. 0282057456

PLEASE NOTE!

If the DPH-C160S is connected to a network that does not have a DHCP server running or is unable to obtain an IP address it will use the default address of 10.1.1.1. This will allow you to access the device and configure the correct IP address settings that you require.

Call Log

The call log feature will allow you to keep track of all of your calls dialled, received and missed. The handset will keep a listing of the ten last calls for each category.

MISSED

This will display a listing of all missed calls registered by the handset. Please find that you can return a missed call by selecting the call from the list and by pressing  or  and the telephone number will be dialled.

RECEIVED

This will display a listing of all received calls registered by the handset. Please find that you can return a received call by selecting the call from the list and by pressing  or  and the telephone number will be dialled.

DIALLED

This will display a listing of all dialled calls registered by the handset. Please find that you can return a dialled call by selecting the call from the list and by pressing  or  and the telephone number will be dialled.

Contact List

This option will display a listing of all the Phone Numbers that have been configured in the Contact List via the GUI. This is also a listing of the numbers that can be used for Speed Dial if configured via the GUI. The maximum supported configurable contacts are to a maximum of ten numbers. Select a number from the list and pressing  or  the telephone number will be dialled.

There is also a shortcut to access this feature when the phone is in the idle state. All you need to do is press the  button on the handset to see a list of the contacts in the Contact List/Speed Dial.

Phone Book

USING THE PHONE BOOK

The phone book is used to store names and telephone numbers. A stored phone number can be dialled using fewer keystrokes than if dialled manually. If you subscribe to a Caller ID service the name/number of the caller will be displayed when you receive an incoming call (names will only display when associated with a number store in the phone book).

The phone book will store 100 sets of names and phone numbers, entries can be up to 15 characters (name) and 30 digits (telephone number) in length.

Entries in the phone book are arranged alphabetically.

KEYPAD CHARACTERS

Each number key on the keypad has been allocated certain characters.

<u>Button</u>	<u>Character</u>
1	1 [space character] < > -
2	A B C 2 @
3	D E F 3 _
4	G H I 4 +
5	J K L 5 *
6	M N O 6 #
7	P Q R S 7
8	T U V 8 .
9	W X Y Z 9
*	Change between upper/lower case A/a
0	0 Æ Ä Ö Ü
#	No function

DIALLING FROM THE PHONE BOOK

1. Press .
2. Scroll through the entries in the phone book using  or .
3. Press  or  and the telephone number will be dialled.

Phone Book

STORING NAMES/NUMBERS IN THE HANDSET

1. Press **Menu**.
2. Scroll through using  or  to **Phone Book**. Press **OK**.
3. Now scroll through using  or  to **Add**. Press **OK**.
4. Enter name for contact. Press the corresponding number button one or more times for the first letter (refer to the table on the previous page). Mistakes can be erased by pressing .
5. Press **OK**.
6. Enter the telephone number and area code. Press **OK**.

CHANGING PHONE NUMBERS/NAMES

1. Press **Menu**.
2. Scroll through using  or  to **Phone Book**. Press **OK**.
3. Now scroll through using  or  to **Edit**. Press **OK**.
4. Correct the name/number for the contact. Using the , and corresponding number buttons (refer to the table on the previous page). Mistakes can be erased by pressing .
5. To save the changes press **OK**.

DELETING ENTRIES

1. Press **Menu**.
2. Scroll through using  or  to **Phone Book**. Press **OK**.
3. Now scroll through using  or  to **Delete**. Press **OK**.
4. Scroll through the entries in the phone book using  or  and select the entry you wish to delete.
5. Press **OK**, then press **OK** again to confirm the deletion of this entry from the phone book.

Phone Book

ERASING ALL ENTRIES FROM PHONE BOOK

1. Press **Menu**.
2. Scroll through using  or  to **Phone Book**. Press **OK**.
3. Now scroll through using  or  to **Erase All**.
4. Press **OK**, then press **OK** again to confirm the deletion of this entry from the phone book.

PLEASE NOTE!

All of the contacts will now be deleted from the Phone Book. *Please be aware that once this is done you cannot recover the contacts.*

Caller List

PSTN CALLS

1. Press **Menu**.
2. Scroll through using  or  to **Caller List**. Press **OK**.
3. Now scroll through using  or  to **PSTN Calls**. Press **OK**.
4. Scroll through the entries in the Caller List using  or .
5. Press  or  and the telephone number will be dialled.

ERASE ALL

1. Press **Menu**.
2. Scroll through using  or  to **Caller List**. Press **OK**.
3. Now scroll through using  or  to **Erase All**.
4. Press **OK**, then press **OK** again to confirm the deletion of all entries from the Caller List.

HS Setting

PSTN RING

The handset has several different ringer volumes and melodies which can be selected.

There is **no** ringer on the base station.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **PSTN Ring**. Press **OK**.
4. Scroll through the different ring styles using  or .
5. Press **OK** to confirm the new ring style.

PLEASE NOTE!

There are 9 ring styles to choose from. When you select a new ring from the list it will play the tune for you to hear.

VOIP RING

The handset has several different ringer volumes and melodies which can be selected.

There is **no** ringer on the base station.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **VoIP Ring**. Press **OK**.
4. Scroll through the different ring styles using  or .
5. Press **OK** to confirm the new ring style.

PLEASE NOTE!

There are 9 ring styles to choose from. When you select a new ring from the list it will play the tune for you to hear.

HS Setting

SET KEYTONE

When the handset buttons are pressed a tone will be heard, this can be switched on or off.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **Set Keytone**. Press **OK**.
4. Scroll using  or  and select **On** or **Off**.
5. Press **OK** to confirm the selection.

USER NAME

This feature allows you to label your handset.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **Username**. Press **OK**.
4. Enter name for the handset. Press the corresponding number button one or more times for the first letter. Mistakes can be erased by pressing .
5. Press **OK** to confirm the new username.

PLEASE NOTE!

This username is only used for identifying the handset. It comes in handy if you have multiple handsets and are unsure which Base Station it belongs to.

HS Setting

SET PIN

The PIN code is a four-digit number that you can select and use to protect against unauthorised use of certain functions.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **Set PIN**. Press **OK**.
4. Enter the default PIN for the handset (default PIN: 1590).
5. You will now need to enter the new PIN you wish to use and press **OK**.
6. Now re-type your new PIN and press **OK** to confirm selection.

PLEASE NOTE!

If you forget your PIN you may need to return the unit to D-Link in order for the unit to be reset. So please write this PIN down in a safe place for further use.

AUTO ANSWER

This function allows incoming calls to be automatically connected when the handset is lifted from the base station while ringing.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **Auto Answer**. Press **OK**.
4. Scroll using  or  and select **On** or **Off**.
5. Press **OK** to confirm the selection.

HS Setting

ANYKEY TALK

This function allows incoming calls to be answered using any key on the handset while ringing.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **Anykey Talk**. Press **OK**.
4. Scroll using  or  and select **On** or **Off**.
5. Press **OK** to confirm the selection.

LANGUAGE

This function allows you to change the default language. The four languages supported are English, German, French and Spanish.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **Language**. Press **OK**.
4. Scroll using  or  and select the language you prefer.
5. Press **OK** to confirm the selection.

SET DEFAULT

This function will return the factory default settings to the handset. Base station registrations will not be affected.

1. Press **Menu**.
2. Scroll through using  or  to **HS Setting**. Press **OK**.
3. Now scroll through using  or  to **Set Default**. Press **OK**.
4. Enter your current handset PIN code (default PIN: 1590).
5. Press **OK** to confirm the selection.

BS Setting

DIAL MODE

This function allows you to configure the base station for use with DTMF or PULSE dialling.

1. Press **Menu**.
2. Scroll through using  or  to **BS Setting**. Press **OK**.
3. Enter your current base station PIN code (default PIN: 1590).
4. Now scroll through using  or  to **Dial Mode**. Press **OK**.
5. Scroll using  or  and select the **Dial Mode** you wish to use.
6. Press **OK** to confirm the selection.

FLASH TIME

This function allows you to configure the Flash Time used for changing between calls.

1. Press **Menu**.
2. Scroll through using  or  to **BS Setting**. Press **OK**.
3. Enter your current base station PIN code (default PIN: 1590).
4. Now scroll through using  or  to **Flash Time**. Press **OK**.
5. Scroll using  or  and select the **Flash Time** you wish to use.
6. Press **OK** to confirm the selection.

PLEASE NOTE!

You can change the Flash Time to 100ms, 120ms, 300ms or 600ms.

BS Setting

PAUSE TIME

This function allows you to configure the Pause Time used on the base station.

1. Press **Menu**.
2. Scroll through using  or  to **BS Setting**. Press **OK**.
3. Enter your current base station PIN code (default PIN: 1590).
4. Now scroll through using  or  to **Pause Time**. Press **OK**.
5. Scroll using  or  and select the **Pause Time** you wish to use.
6. Press **OK** to confirm the selection.

PLEASE NOTE!

You can change the Flash Time to 1sec, 2 secs, 3 secs or 4 secs.

NEW HS

This function allows you to add a new handset to this base station.

1. Press **Menu**.
2. Scroll through using  or  to **BS Setting**. Press **OK**.
3. Enter your current base station PIN code (default PIN: 1590).
4. Now scroll through using  or  to **New HS**. Press **OK**.
5. Enter your current Sub PIN code (default PIN: 1590).
6. Press **OK** to confirm the selection.

BS Setting

REMOVE HS

This function allows you to remove a handset from this base station.

1. Press **Menu**.
2. Scroll through using  or  to **BS Setting**. Press **OK**.
3. Enter your current base station PIN code (default PIN: 1590).
4. Now scroll through using  or  to **Remove HS**. Press **OK**.
5. Press **OK** to confirm the selection.

PLEASE NOTE!

You will need to re-register the handset in order to use it with the base station again.

CALL BARRING

This telephone can bar (restrict) various outgoing calls.

1. Press **Menu**.
2. Scroll through using  or  to **BS Setting**. Press **OK**.
3. Enter your current base station PIN code (default PIN: 1590).
4. Now scroll through using  or  to **CallBarring**. Press **OK**.
5. Scroll using  or  and select the call bar that you wish to configure.
6. Enter the telephone number to be barred (up to 8 digits).
7. Press **OK** to confirm the selection.

PLEASE NOTE!

You only have five different numbers that can be configured for Call Barring.

BS Setting

CHANGE PIN

The PIN code is a four-digit number that you can select and use to protect against unauthorised use of certain functions.

1. Press **Menu**.
2. Scroll through using  or  to **BS Setting**. Press **OK**.
3. Enter the default PIN for the base station (default PIN: 1590).
4. Now scroll through using  or  to **Change PIN**. Press **OK**.
5. You will now need to enter the new PIN you wish to use and press **OK**.
6. Now re-type your new PIN and press **OK** to confirm selection.

PLEASE NOTE!

If you forget your PIN you may need to return the unit to D-Link in order for the unit to be reset. So please write this PIN down in a safe place for further use.

BS DEFAULT

This function will return the factory default settings to the base station. Base station registrations will not be affected.

1. Press **Menu**.
2. Scroll through using  or  to **BS Setting**. Press **OK**.
3. Enter your current base station PIN code (default PIN: 1590).
4. Now scroll through using  or  to **BS Default**. Press **OK**.
5. Press **OK** to confirm the selection.

PLEASE NOTE!

This will reset all settings in the unit. All user configurations will need to be reconfigured after a BS Default is completed.

Select Base

The select base feature allows you to specify what Base Station you wish to use if you are registered to multiple Base stations. You can either use the specific Base or choose the Auto option which will connect you to the Base Station with the strongest signal.

1. Press **Menu**.
2. Scroll through using  or  to **Select Base**. Press **OK**.
3. Select the base station (1, 2, 3, 4 or Auto) you wish to register using  or .
4. Press **OK** to confirm selection.

HS Register

To enable the use of more than one handset a registration has to be performed. Every new additional handset must be registered in order to use the current base station; each base station can handle up to 4 handsets.

On registration, the handset is allocated a handset number for use on the new base station, the handset numbers are 1-4.

1. Press **Menu**.
2. Scroll through using  or  to **HS Register**. Press **OK**.
3. Select the base station (1, 2, 3 or 4) you wish to register using  or . Press **OK**.
4. Enter the current base station PIN code (default PIN: 1590). Press **OK**.
5. After a few seconds (no more than 90) all unused handset numbers are displayed. Select one of these (usually the lowest displayed number) by pressing the corresponding keypad button.

Troubleshooting

Check that the telephone cord and Ethernet cord is undamaged and properly plugged in. Disconnect any additional equipment that may be connected. If the problem is resolved, the fault is with the other equipment.

Check the charge contacts on the handset and base station are clean.

No number shown on the LCD display when ringing

- In order for this feature to function, you must subscribe to the Caller ID service provided by your network operator.
- It may not be possible to receive Caller ID information if the phone operates in a PBX system.

Warning tone while talking/cannot connect

- The batteries may be running low (recharge the handset)

Telephone does not work

- Check the adapter. Is it correctly connected to the base station and to the mains power?
- Check that the telephone cord has been correctly connected to the base station and to the line socket.
- Check the charge status of the handset batteries.
- Check that the charge contacts on the base station and handset are clean.
- Try another phone on the line to check that the line is correctly functioning.
- Check that the Ethernet cable is connected and getting a link.
- Make sure that your Internet connection is connected and you are able to access the Internet.
- Check the IP of the unit as shown on the next page.

Troubleshooting

Checking the IP of the unit

There are three dial strings that can also be used to troubleshoot the connection information being used for the handset without navigating through the menu. These dial strings are listed below (please note you will need to press the VoIP call button before the dial string): Each of the below dial strings will play a voice through the handset speaker with the relevant information.

****1** – will play your DPH-C160S's IP address, helpful for accessing the Web GUI.

****2** – will play your DPH-C160S's phone number to ensure the correct details are in the Handset.

****3** – to set the Internet connection type, this will then give you the options below:

Press 1 for *DHCP mode*

Press 2 for *Static IP mode*, followed by the IP address separated by *'s and then the # key (for example, 192*168*1*110#)

This will then ask you to hang up and the unit will restart with the new settings applied.