

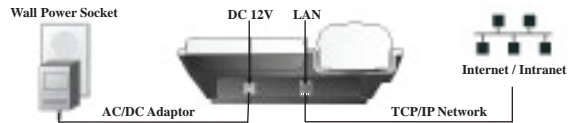
1 Before You Start

Subscribe an Internet access line from your local ISP. It could be ADSL, Cable Modem or Leased Line. You will be given the following information: (1) Available IP address _____ (2) Gateway IP address _____ (3) Subnet mask _____.

Some DSL ISPs provide PPPoE connections with end users. If you use dial-up DSL and obtain a dynamic IP address automatically from your DSL ISP, you will be given (1) User Name _____ (2) Password _____.

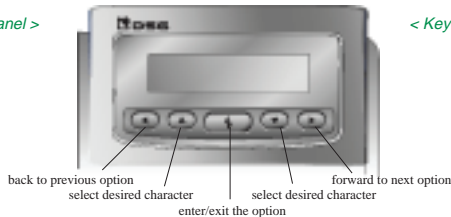
2 Installation of IP870

Please refer to the diagram for installation.



3 Input Data from Telephone Keypad

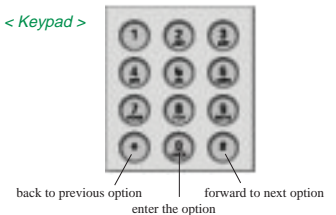
< Control Panel >



< Key & Characters >

Key	Characters
[1]	1 ~ ! # \$ % ^ & * () _ + ; : " < > ? - = ; ' /
[2]	2 a b c A B C
[3]	3 d e f D E F
[4]	4 g h i G H I
[5]	5 j k l J K L
[6]	6 m n o M N O
[7]	7 p q r s P Q R S
[8]	8 t u v T U V
[9]	9 w x y z W X Y Z
[0]	0 . , @
[*]	*
[#]	#

< Keypad >



4 Input Basic Internet Access Information

- If you can obtain a static IP address from your ISP, setup your Internet access as below.
 - Press and hold button for 2 seconds and the LCD screen will show **IP TYPE**. Pick up the handset and press to edit this option.
 - When the LCD screen displays **STATIC**, press to save.
 - Press and the LCD screen will show **STATIC IP**. Press to edit this option. Use the keypad to input the IP address. Press to save.
 - Press and the LCD screen will show **GATEWAY IP**. Press to edit this option. Input the gateway IP address with your keypad. Please check your ISP or network administrator for this information. Press to save.
 - Press and the LCD screen will show **SUBNET MASK**. Press to edit this option. Input your subnet mask with your keypad. Please check with your ISP or network manager for this information. Press to save and exit.
- If you are a PPPoE client and obtain a dynamic IP address from your DSL ISP, setup your Internet access as below.
 - Press and hold button for 2 seconds and the LCD screen will show **IP TYPE**. Pick up the handset and press to edit this option.
 - Press till the LCD screen displays **PPPoE**. Press to save.
 - Press and the LCD screen will show **PPPoE ID**. Press to edit this option. Refer to the above character conversion chart and use the keypad to input your User Name. Press to save.
 - Press and the LCD screen will show **PPPoE PASSWORD**. Press to edit this option. Input your password with your keypad. Press to save and exit.
- If your network has a DHCP server assigning an IP address automatically when you log in, setup your Internet access as below.
 - Press and hold button for 2 seconds and the LCD screen will show **IP TYPE**. Pick up the telephone handset and press to edit this option.
 - Press till the LCD screen displays **DHCP**. Press to save and exit.










5 Data Required for IP870-to-Phone

If you use the 6-digit device ID number as your account of credit, you don't need to input anything in this item.

- Press and hold button for 2 seconds and the LCD screen will show **IP TYPE**. Pick up the telephone handset and press several times until the screen shows **ITSP SETUP**.
- Press and the LCD screen will show **ITSP ACCOUNT**. Press again to edit this option.
- Use the keypad to input your 10-digit ITSP account number. Press to save and exit.
Note: You must have a valid ITSP account in order to make a Device-to-Phone call. If there's no balance remained in your account, please contact our local dealers or visit our web site at www.dsgtechnology.com for details
- Repeat the above procedures to input **LONG DIST CODE**, **INT'L CODE** and **COUNTRY CODE**. For example, in the U.S. the Long Distance Code is 1; the International Access Code is 011; the Country Code is 1.

Edit Your IP Phone Book

There are 10 available entries in IP Phone Book numbered from 00 to 09. You can program the frequently used IP addresses.

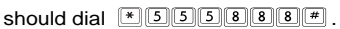



1. Press and hold  button for 2 seconds and the LCD screen will show **IP TYPE**. Pick up the handset and press  several times until the screen shows **IP PHONE BOOK**. Press  to edit the Phone Book.
2. You can use  and  to scroll the entries. Press  to edit a specific entry.
3. Follow the above character conversion chart to input the name of the entry. Press  to continue editing the IP address.
4. Use the keypad to input the IP address of this entry. Press  button to save.
5. Repeat step 2 to 4 to input more IP Phone Book entries.
6. You can scroll to **EXIT TO MAIN** and press  to exit to main menu.

Note: 1. If your network is under NAT environment, you will be able to use IP870 with pseudo or internal IP addresses after performing the port mappings. Please refer to Operation Manual for more details.

2. If you see the @ sign flashing on the screen, it means your IP870 is not connected to Internet and can only work in a closed TCP/IP network.

Congratulation! You've successfully completed your settings. You may select a desired mode to speak to your friend over Internet/Intranet with the following instructions.

Device-to-Device

1. Confirm that the receiving party is also equipped with an IP870 or other DSG CPE products like InterPhone or InterStar, which has completed proper settings as well.
2. Pick up the handset and you will hear a ready tone. You may call the receiving party by the following methods:
 - (a) Dial the Device ID of the remote IP870. For example: If the six-digit Device ID of the receiving IP870 is 555888, then you should dial .
 - (b) Dial the IP address directly. For example: If the IP address of the receiving IP870 is 200.111.66.8, then you should dial .
 - (c) Dial the entry number in your IP Phone Book. For example: If you program the Entry:00 of IP Phone Book as 200.111.66.8, you will be connected to the IP870 with IP address 200.111.66.8 by dialing , and followed by a  key to confirm.
3. Hold the handset to wait for connection. You can see the status shown on the screen of your IP870.



Device-to-Phone

1. Pick up the handset and you will hear a ready tone.
2. You may dial any long-distance or international telephone numbers as you normally would from your telephone.

For example:

To make an international call from U.S. to Japan:

[International code] + [Japan country code] + [Japan area code] + [Japan telephone number]

011 81 3 5551234

You would dial from U.S. : 

To make a long-distance call within U.S. :

[Long Dist Code] + [Area Code] + [telephone number]

1 212 5551234

You would dial from U.S. : 

3. Hold the handset to wait for connection. You can see the status shown on the screen of your IP870.



Configure Speed Dialing Hot Keys: In addition to the above mentioned IP PHONE BOOK, you can also program up to 12 entries of speed dialing hot keys when placing calls. To edit the speed dialing hot keys, 1) press Program, 2) press Memory, 3) assign an entry number from 1 to 12, 4) input the phone number to be programmed for this entry, 5) press Program again to save. Repeat the above procedures to edit more entries of speed dial. To place calls using speed dialing hot keys, lift the handset, press the Memory button and then press the dedicate entry number of speed dial.

Note: If you find any serious delay or cut off in the middle of words while using IP870, it is an indication of congested data transmission between ISPs. You can hang up and try the call again later. If you have any further questions, please refer to the Operation Manual or visit <http://www.dsgtechnology.com> for more details.