

## 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 \_\_\_\_\_.

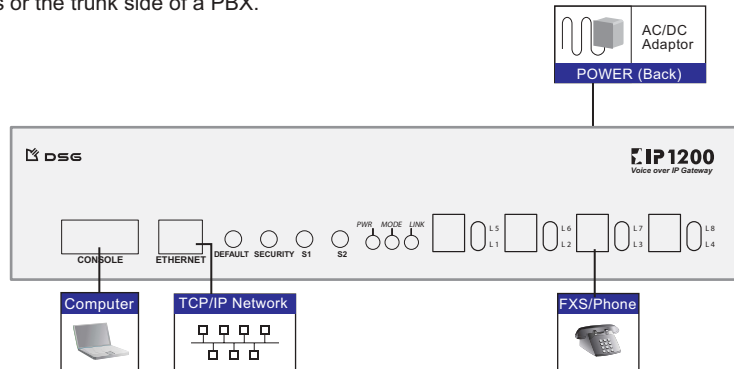
If your LAN is behind NAT or firewall, you can assign a pseudo IP address to your IP1200C. IP1200C has preset UDP and TCP ports allowing communication to get through NATs and firewalls. In general, you do not need to open ports on your network gateway or router.

## 2. Installation of IP1200C

Please refer to the diagram for installation. Be sure that the FXS interface is connected to the adequate lines or equipment. FXS ports support connections from analog phones or the trunk side of a PBX.

After you connect IP1200C to your LAN, you can enter the configuration mode via Telnet.

1. Select a PC connected to the same subnet of IP1200C. Refer to IP1200C's default IP settings below to change your PC's IP settings if necessary.  
 Default IP Address: 192.168.1.200  
 Default Gateway IP: 192.168.1.254  
 Default Subnet Mask: 255.255.255.0
2. Telnet IP1200C using its default IP Address.
3. Input the default Telnet Password: 0000
4. The prompt will display the setting items of IP1200C. You can then start configuring your IP1200C.



## 3. Input Basic IP Information

Input the IP Address, Gateway IP and Subnet Mask obtained from your ISP or network administrator. You can assign a real IP address or pseudo IP address to your IP1200C.

1. At the prompt displays *Select the option to setup:*, input <1> and press ENTER to edit your IP Address.
2. At the prompt displays *Select the option to setup:*, input <2> and press ENTER to edit your Gateway IP Address.
3. At the prompt displays *Select the option to setup:*, input <3> and press ENTER to edit your Subnet Mask.

If your network is in DHCP environment, please skip the above setting items. At the prompt displays *Select the option to setup:*, input <5> and press ENTER to enable DHCP function.

## 4. Input Data Required for Device-to-Phone Mode

IP1200C provides Device-to-Phone Mode allowing you to place Internet calls to regular phone numbers worldwide. The settings below help you to remain the same dialing habit.

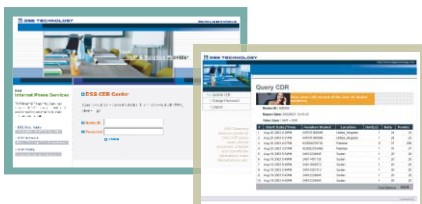
1. At the prompt displays *Select the option to setup:*, input <9> and press ENTER to edit your Long Distance Code.
2. At the prompt displays *Select the option to setup:*, input <10> and press ENTER to edit your International Code.
3. At the prompt displays *Select the option to setup:*, input <11> and press ENTER to edit your Country Code.

For example, the Long Distance Code in U.S. is 1; International Code is 011; Country Code is 1.

## 5. Check Account Balance and Call History

On IP1200C, the device main unit has a 5-digit ID which you can find from the setting item (0) Device ID or on the label of each device. Each port of IP1200C has its 6-digit Device ID which composes of the 5-digit ID of the device and the 1-digit port number. The 6-digit port's Device ID is your account of credit. Make sure you have sufficient credit in your account for making phone calls. For example: If your 5-digit Device ID is 88888, your 6-digit port Device ID will be 888881 for port 1, 888882 for port 2 and so on.

To check account balances, first make sure your IP1200C is online. At the prompt displays *Select the option to setup:*, input <19> and press ENTER to view the balance of each port's Device ID.



DSG also provides a convenient CDR website for IP1200C. You can view your call detail records (CDR) and account balance right after you hang up the phone. For details of accessing DSG CDR website, please refer to <http://cdr.dsgsvr.com> or contact us at [sales@dsg.com.tw](mailto:sales@dsg.com.tw).

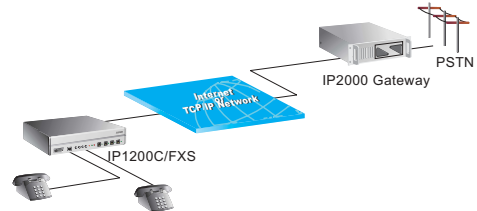
# IP1200C

**Congratulations! You've successfully completed your basic settings. You may enjoy the most cost-effective Internet Telephony solution to call any regular phone in the world.**

## A. Make Device-to-Phone Calls

Local Site: Your IP1200C (FXS) is connected to analog phones. If you are in U.S., the International Access Code is 011.  
 Remote Site: The receiver's phone number is 81 (country code), 3 (area code), 5551234 (phone number).

1. From your office, simply pick up the phone. You will then hear the dial tone.
2. Dial the receiver's phone number directly and press a suffix "# " sign to end, like 0 1 1 8 1 3 5 5 5 1 2 3 4 # .



## B. Configuration Items

After you enter Telnet program, you will find the configuration items as below.

| Items                         | Functions  | Default settings                                  | Items                             | Functions  | Default Settings |
|-------------------------------|--|---|-----------------------------------|--|------------------|
| (0) Device ID                 | The ID Number of your IP1200C. It is also the prefix of per port's ID which is Device ID plus port number. Non-editable. | xxxxx<br>Port 1: xxxxx1<br>Port 2: xxxxx2<br>etc. | (17) Advanced Options             | 1. When the silence of any side exceeds this duration, calls will be terminated.   | 30 min           |
| (1) IP Address                | A static IP address assigned to IP1200C.   | 192.168.1.200                                     | 1. Max. One-Way silence to hangup | 2. When the silence of both sides exceeds this duration, calls will be terminated.   | 30 sec           |
| (2) Gateway IP                | The IP address of the gateway on your LAN.   | 192.168.1.254                                     | 2. Max. Two-Way silence to hangup | 3. After off-hook but no dialing action been made within this duration, lines will be released.  | 30 sec           |
| (3) Subnet Mask               | The subnet of your IP1200C.  | 255.255.255.0                                     | 3. Max. dial tone to hangup       | 4. Used when the receiver cannot have good voice quality from you. After adjusting your IP1200C's (7) Record Volume but the voice is still no good, raise the value.               | 1                |
| (4) DNS                       | Your Domain Name Service.  | 168.95.1.1  | 4. Fixed Rx Gain (FXO)            | 5. Used when you cannot get good voice quality from the remote party. After adjusting your IP1200C's (6) Play Volume but you still cannot get good voice quality, raise the value. | 0                |
| (5) DHCP                      | Used when your network is in DHCP environment.   | Off   | 5. Fixed Tx Gain (FXO)            | 6. Refer to the above 4.   | -3               |
| (6) Play Volume               | Adjust the playing volume level.   | 5   | 6. Fixed Rx Gain (FXS)            | 7. Refer to the above 5.   | -3               |
| (7) Record Volume             | Adjust the recording volume level.   | 5   | 7. Fixed Tx Gain (FXS)            | 8. Voice activity detection level. When voice is below this value, it is deemed as silence.  | 3                |
| (8) Echo Cancellation         | Adjust the echo cancellation level. If it is set as 0, this function is disabled.  | 2   | 8. VAD Level                      | 9. When local PSTN network is no good, raise this value to get a better dialing quality.   | 2                |
| (9) Long Distance Code        | Your long distance code.   | -   | 9. DTMF Level                     | 10. When local PSTN network is no good, raise this value to get a better dialing quality.  | <100 ms>         |
| (10) International Code       | Your international access code.  | -   | 10. DTMF Length                   | (18) Upgrade Software On-Line  | -                |
| (11) Country Code             | Your country code.   | -   | (19) Check Balance                | View each port's account balance.  | -                |
| (12) Password for FXO         | Password for accessing FXO ports. If empty, no password is required.   | -   | (20) Save and Exit                |  |                  |
| (13) Password for FXS         | Password for accessing FXS ports. If empty, no password is required.   | -   | (21) Exit (Without save)          |  |                  |
| (14) Telnet Password          | Password of accessing IP1200C via Telnet. To disable the Telnet function, press the SECURITY button.                     | 0000 (four zero, shown as ****)                   |                                   |  |                  |
| (15) Port Configurations      | To enable or disable ports. Used when specific ports are broken down.  | All enable  |                                   |  |                  |
| (16) Busy Tone Setup          | 1. After detecting set busy tone cycles, connection will be released.  | 4 cycles  |                                   |  |                  |
| 1. Busy tone cycles hangup    | 2. Set the minimum length of a busy tone.  | 200 ms  |                                   |  |                  |
| 2. Minimum busy tone length   | 3. Set the maximum length of a busy tone.  | 600 ms  |                                   |  |                  |
| 3. Maximum busy tone length   | Using the above 2 and 3 to set the valid range of a busy tone.   |   |                                   |  |                  |
| 4. Busy tone length tolerance | 4. The tolerance between two valid busy tones.   | 80 ms   |                                   |  |                  |

\* DSG provides ITSP (Internet Telephony Service Provider) services. With a valid account, subscribers can make Internet calls directly from IP1200C to any regular phone in the world.  
 \* Optional 8 voice ports model and FXO interface are available.

**Note:** If you find any serious delay or cut off in the middle of words while using IP1200C, 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 question, please refer to the Operation Manual or visit <http://www.dsgtechnology.com> for more details.

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