

Internet Phone

VOICE OVER IP



USER'S MANUAL

Your User Name:
Your Password:
Your Prefix No.:
Your H323 ID:
Your Extension No.:
PI Gatekeeper IP Address: 4.38.32.22

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ii. PACKAGE CONTENTS:

- VoIP Phone Main Unit.
- VoIP Phone Hand Set.
- A 9V/3.0A Power Adapter.
- An RJ-45 Cat-5 Cable
- An RJ-11 Telephone Cable
- An User's Manual

1. VoIP PHONE DIAGRAM

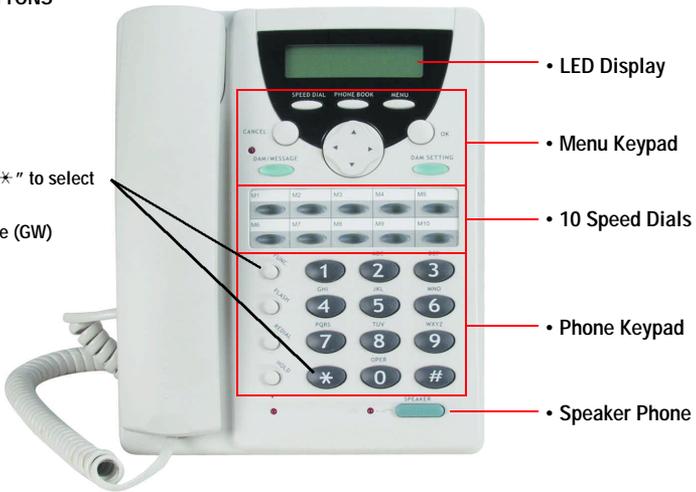
VoIP PHONE PORTS



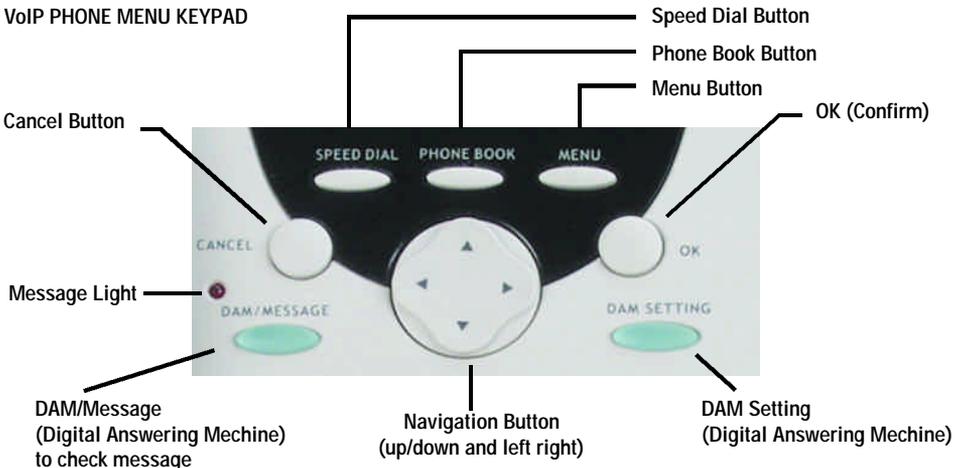
VoIP PHONE BUTTONS

Use "Func" & "*" to select

1. Phone Mode
2. Gateway Mode (GW)



VoIP PHONE MENU KEYPAD



2. INTRODUCTION

Before using VoIPPhone, some setup procedures are required to make the phone work properly.

- When both VoIP Phones have Static IP address, users can dial IP address of VoIP Phone.
- If dynamic IP is used, PI can provide gatekeeper service to assign an extension number for VoIP Phone.
- The VoIP Phone also have gateway function, so user can call from PSTN to VoIP phone, from VoIP phone to another VoIP, or VoIP to PSTN



- No computer required when using this phone.
- Easy configuration through web browser. (i.e. Internet Explorer, Netscape Navigator)
http://192.168.100.100:9999 (your IP address) Default user name: user Default password: user
- Using this VoIP phone as regular phone. (Dial out through PSTN) dial *0 to gain PSTN access.
Ex: if you are calling to 1-800-555-1234, you should dial "*0 18005551234 #"
- Every VoIP Phone comes with a fixed Extension No. and H323 ID
These settings are used to register to PI's Gatekeeper. These must not be changed.
These settings can only be viewed and modified through web browser.

You can use this VoIP Phone to make calls with 6 scenario

VoIP PHONE - VoIP PHONE

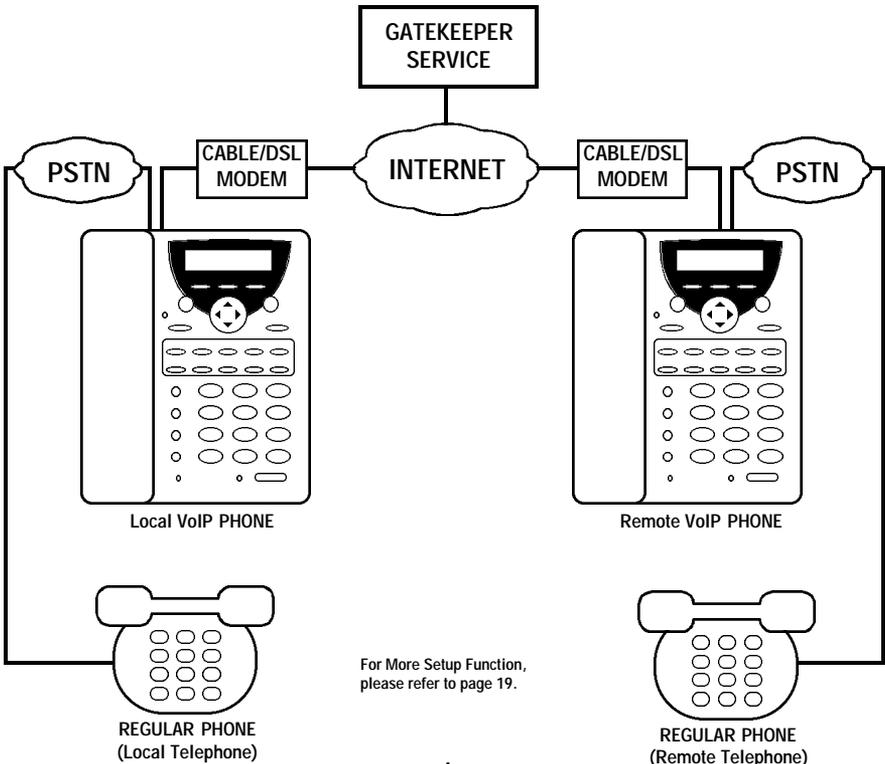
VoIP PHONE - TELEPHONE (local)

TELEPHONE - VoIP PHONE

VoIP PHONE - VoIP PHONE - TELEPHONE (remote)

TELEPHONE - VoIP PHONE - VoIP PHONE

TELEPHONE (local) - VoIP PHONE - VoIP PHONE - TELEPHONE (remote)



3. HOW TO SET UP (You can exit the Setup Menu anytime by pressing the "MENU" key again.)

A. Menu Setup Menu

  **Must Setup in Order for VoIP Phone to Work Properly**

NAME:
USA01

- Push "Menu" to enter Setup Mode
- Set up the name of the phone
e.g. USA01

DHCP:
Disable

- Set up DHCP mode (Enable or Disable switched by <- or -> key)
Leave in Disable mode if you have Static IP Address
For Dynamic IP Address, DHCP must set to Enable.  settings would be automatically set.

ADSL DIALUP:
NO

- Set up ADSL Dialup mode (for Support PPPoE)
(Enable or disable switched by <- or -> Key)
If you select ADSL Dialup to "YES", please refer to Page 6, Note.1.

IP SHARE : NAT
0. 0. 0. 0

- Set up the IP Share Address as the default gateway of the PC by using the Virtual IP address for Internet access.
For IP Sharing, Router's WAN port should connect to the VoIP Phone's PC port

IP ADDRESS :
0. 0. 0. 0

- Set up IP address when DHCP is disable
Note*: The default value is 0.0.0.0
While DHCP is Disable, IP address must be entered.

Router IP :
0. 0. 0. 0

- Set up the router (Default Gateway) IP address when DHCP is disable.
- Setting the router IP to 0.0.0.0 is recommended when connecting in a LAN environment.
The default value is 0.0.0.0; When DHCP is Disable, Router IP must be entered.

Subnet Mask
255.255.255. 0

- Setup subnet mask when DHCP is disable
- The default value is 255.255.255.0 (class C network)
This value must be on while DHCP is OFF

DNS Server IP:
0. 0. 0. 0

- Set up DNS (Domain Name Service) Server IP Address.
- This function allow IP Phone to look for default SNTP server by Domain name.

SNTP Server IP:
0. 0. 0. 0

- Set up SNTP (Simple Network Time Protocol)
- This function allow IP Phone to get time from the Internet.

DATE: -- / -- / --
TIME: -- : -- : --

- Set up the date (year/month/day) e.g. 99/11/30
- Set up the time (hour:minute:second) e.g. 15:53:20
Note*: Only needed when SNTP is not available

Time Zone
GMT + 0:00

- Set up the Time Zone

Gatekeeper
No

- Enable or Disable Gatekeeper by <- or -> key
If you set Gatekeeper to "YES", please refer to Page 6, Note.2.

Default Codec
G.723.1

- Set up the highest priority of the voice codec for this phone.
(G711Alaw/G.711ULaw/G.723.1/G.729) Your could use <-, -> key to choose.

Gateway #1 IP
--- . --- . --- . ---

- Set up VoIP Gateway IP address for "shortcut dial"
- If you want to dial to PSTN or phone number, the VoIP gateway IP address has to be set.
- There are total 5 Gateways from *1 to *5
To Dial for Gateway shortcut dial, simply dial "*1 #" - "*5 #"
- NOTE: When Dialing thru Gateway shortcut dial, enter only static IP or use VPN.**

Call Waiting:
Yes

- Call waiting between VoIP and PSTN

Call Forward:
Yes

- Call forward to pre-setting number or IP address.
- If you choose "YES" then you could input the number
 - a. IP to IP (**priority 1**): i.e. 4.38.32.22,a remote unit where you want the call forward to.
 - b. From IP to PSTN (**priority 2**): i.e. 555-1234, a local phone number
 - c. From PSTN to IP (**priority 3**): i.e. 192.168.100.222 forward to this IPif call from PSTN

Enabling this function, only one of the three options will be chosen. If two or more are selected, only the one with the higher priority will work. For example, if you want to use PSTN to IP Call, Priority 1 & 2 should be blank.

3. HOW TO SETUP (You can exit the setup menu anytime by pressing "MENU" key again.)

A. Menu Setup Con't

◆ ◆ ◆ ◆ ◆	Tone Setting: Default	<ul style="list-style-type: none">• Set the Tone among different country tone standard or different brand of PBX.• Select the country or user define.
	Dial Type: PULSE	<ul style="list-style-type: none">• Set the Dial Type of PSTN• You could use <-> key to choose PULSE or DTMF
	Dialing Timeout: 6 Second	<ul style="list-style-type: none">• The function enable when you don't press any key after the period of time, it will automatically dial the number.
	MAC Address: 00D0E90022E4	<ul style="list-style-type: none">• Shows the MAC of the machine.
	Version: IP Phone V2.40	<ul style="list-style-type: none">• shows the version of the firmware.
	Menu ○	<ul style="list-style-type: none">• When setup complete, press "menu" button again.
	UPDATE CHANGES? <OK> OR <Cancel>	<ul style="list-style-type: none">• Press <OK> to confirm and save the changes or press <Cancel> to cancel all changes
Cancel ○	○ OK	*You can exit the setup menu anytime by pressing "MENU" key again.

NOTE.1: When setting up "ADSL Dialup" or PPPoE function set to "YES" _____

ADSL ID:	<ul style="list-style-type: none">• ID for ADSL Dialup (Internet User Name)
ADSL Password:	<ul style="list-style-type: none">• Password for ADSL Dialup (Internet Password)

NOTE.2: When set up "Gatekeeper" function set to "YES" _____

Gatekeeper IP	<ul style="list-style-type: none">• Set up Gatekeeper (GK) IP Address• Gatekeeper IP will be supplied from PI and should be set to 4.38.32.22
Ext No (Use G/K)	<ul style="list-style-type: none">• PI will preset Ext No (Extension No.) - Do Not Change This Extension No. act as your VoIP Phone number.
GW Prefix(UseG/K)	<ul style="list-style-type: none">• Gateway prefix number can be set(*see warning) if you have already set up the Gatekeeper (GK) IP. Once Gateway (GW) prefix has been set, this IP Phone will register as a Gateway in the Gatekeeper. We do not suggest this function to be used and it should be set blank.

***WARNING:** GW Prefix is the Identification or password to your VoIP Phone. By enabling this function, you will have access to VoIP Phone's PSTN line. But, if someone else have your Prefix, they can access an outside line thru your VoIP Phone and may run up your telephone bill. **GW Prefix has a maximum of 16 digit number.**

- PI GK (Gate Keeper) can not recognize Internal IP address (i.e. 192.168.XXX.XXX)
- If you have to use any IP Sharing (Router), VoIP Phone must be installed in front of Router.
- You can connect Router's WAN port to VoIP Phone's PC Port.



3. HOW TO SET UP

B. SPEED DIAL

SPEED DIAL

Please Select
Speed Dial Key

M1 ~ M10

B-1 Setting the speed dial keys

• Press any buttons from M1 to M10 to select

Phone Number:
4. 38. 32.255

- The system will display the current setting (Blank if no previous setting)
- Using the keypad to input the IP address or Phone Numbers.
For Example: "4*38*32*255#" for setting up the IP address
" *0 5551234 #" for setting up the telephone Number.

OK

• Press "OK" to save and quit SPEED Dial Setup Mode.

B-2 Using the Speed Dial Keys

M1 ~ M10

• Press any button of the speed dial keys from M1 to M10 to Dial

Note:

- M1-M10 setup enable you to do speed dial on your VoIP PHONE.
- Gateway shortcut dial *1~*5 allows user to access the VoIP PHONE remotely through regular telephone or another VoIP PHONE.
The remote user simply connect to VoIP PHONE and dial "*1#"

C. HOLD (MUTE)

After pressing the "HOLD" key, both local & remote side of the communication line will only hear the music playing. (This function only available when codec set as G.723.1 or G.729)

HOLD



HOLD

Put on "HOLD" with background music

Press again to stop the function

D. VOLUME ADJUSTMENT

VOLUME



Speaker Volume



Click 'SPEAKER' while handset is on the hook
Select up/down to set speaker volume

Handset Volume



Pick up the handset,
Select up/down to set Handset volume

Ringer Volume



When IP Phone is on standby mode, Select up/down to set Ringer Volume

E. CALL TRANSFER

This function is available only when both phone support H.450 call transfer. Upon placing a phone call, you can use "call transfer" function to transfer the call to other person. For example: when A is talking to B. A could press "Flash" key and the display will show "Transfer to". A can enter the IP address of C and A will be talking to C. After A hanging up the phone, C can talk with B.

F. PHONE BOOK

Name: ...

Name: XXX
Phone Num:

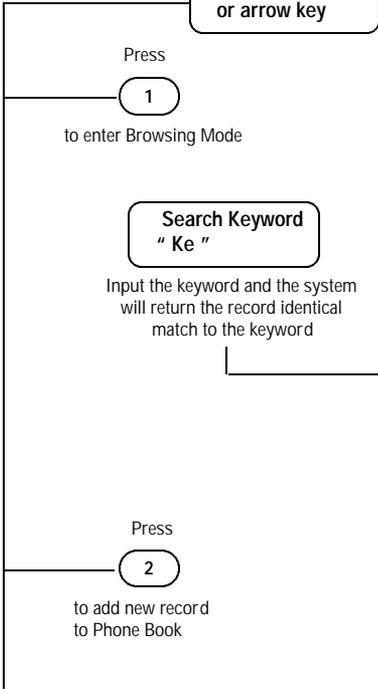
Every record inside the phone book has 2 fields: Name and Phone number

The Name field is the primary key of the record and phone number is the field you can use to store extension number, phone number or IP address. The phone book records are sorted by Name automatically. You can perform search, add, delete tasks to update your phone book.

PHONE BOOK

Press "P-Book" key again to exit phone book mode

1. Search 2. New or arrow key



Browsing Mode

Use Down Arrow Key

First Record

City Center
123.123.123.123 IP Address

Gary
5551234 Phone No.

Use ▲ or ▼ arrow key to switch between records.

Kevin
11.22.33.44 IP Address

Steven
18005554321 Phone No.

Last Record

Use Up Arrow Key

Edit Mode

Use Down Arrow Key

New Record

Name:

Use ▲ or ▼ arrow key to switch between stages.

Phone Number

SAVE?
OK (*), Cancel (#)

Use Up Arrow Key

New Record

Press "*" to quit Phone book edit mode and save the changes
Press "#" to quit Phone book edit mode and ignore the changes.

Cancel

Phone Book

OK

Cancel

Press Cancel or P-Book Key will return to First Page

System will dial the number in the field then quit Phone book Mode

The record will be deleted and the system will return to browsing mode again.

G. DAM (DIGITAL ANSWERING MACHINE)

DAM/MESSAGE



If there is no message.

**You Have 0 Msg
0 Unread Mesg**

LCD Display

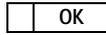
If there is any message.

**You have 3 Msg
2 Unread Mesg**

**Msg 1
11/28 14 : 40 : 03**

**Msg 2 *Unread*
11/29 09 : 30 : 21**

Use ▲ or ▼ arrow
key to switch among
messages.



Press OK button to listen to the messages and then system will return the previous page without showing "unread" indication.



Press CANCEL button to delete the message

DAM/MESSAGE



Press DAM/Message again to exit the DAM Mode. If there is any message left unread, LED will continue flashing.

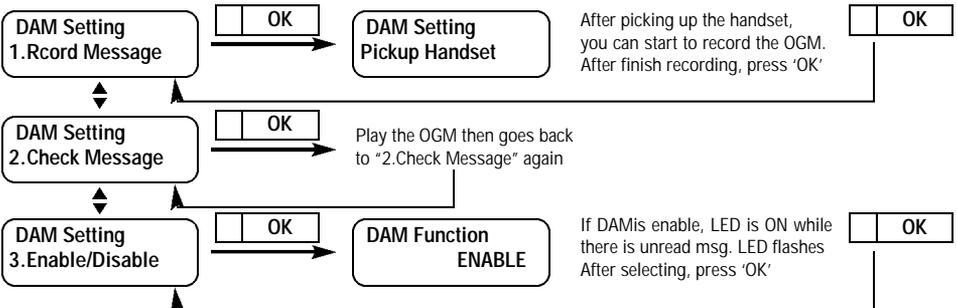
H. DAM SETTING

Note**: Only "OK" key will save the OGM (out going message) in. When you reboot the IP Phone, the OGM will restore to default message.

DAM SETTING ← Use ▲ or ▼ arrow key
to choose setting



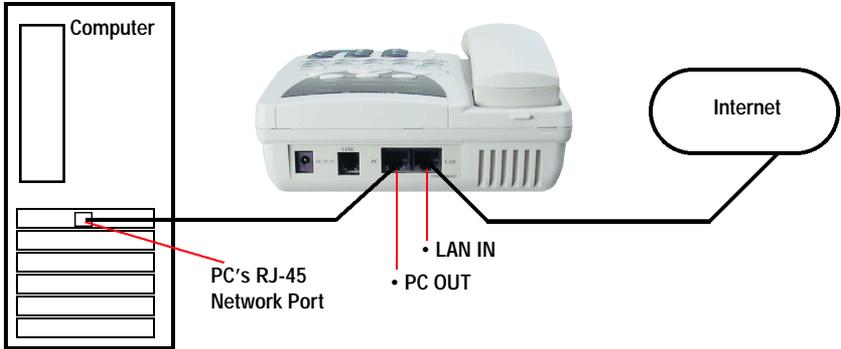
Note: After setting up, 'OK' have to be pressed in order to save the setting. When IP phone is turn off or reboot, OGM will restore to default message.



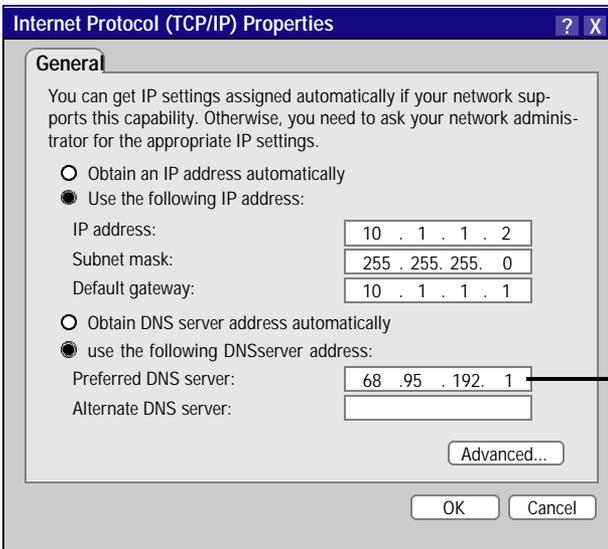
I. IP SHARE/NAT - PC COMPUTER

This function allows the VoIP Phone and PC to share the one global real IP address. You may only have one real IP address assigned by your ISP. With this function we can share one IP address with several PC.

- When "NAT/IP Share" in the VoIP Phone is set as "10.1.1.1"
- The IP address setting for PC is
 - IP Address: 10.1.1.2-10.1.1.254
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 10.1.1.1 (same as IP share address)
- DNS server IP address should be set (for DNS server IP address please refer to ISP)



PC NAT Setting



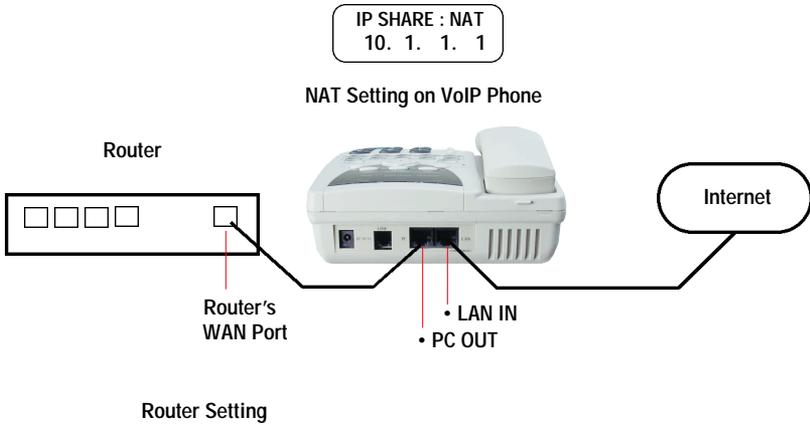
IP SHARE : NAT
10. 1. 1. 1

NAT Setting on VoIP Phone

Please Check with your ISP
for your real DNS IP Numbers

J. IP SHARE/NAT - ROUTER

First, please setup your Router enable static IP On.
Do not set to Dynamic IP or PPPoE for this setting.



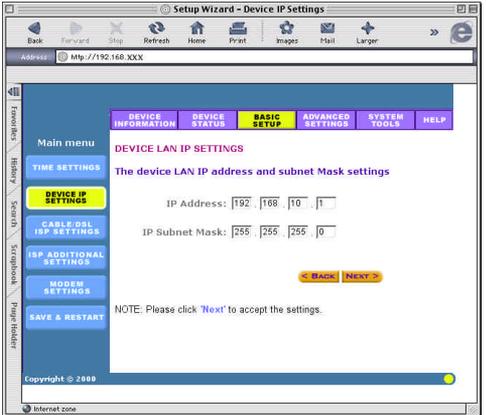
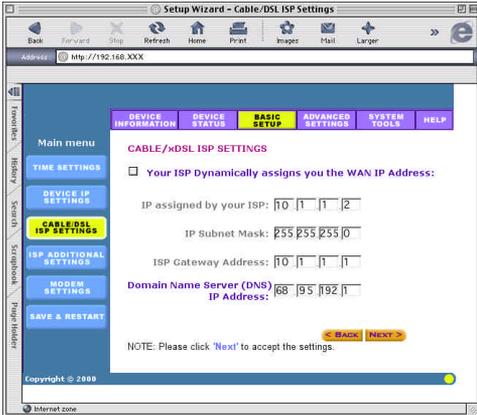
Cable/DSL ISP Settings:

Please set up the following:
IP assigned by your ISP to 10.1.1.2
IP Subnet Mask: 255.255.255.0
ISP Gateway Address: 10.1.1.1
Domain Name Server (DNS) IP Address: 68.95.192.1

Device LAN IP Settings

Please set up the following:
The device LAN IP Address and Subnet Mask
IP Address: 192.168.10.1
IP Subnet Mask: 255.255.255.0

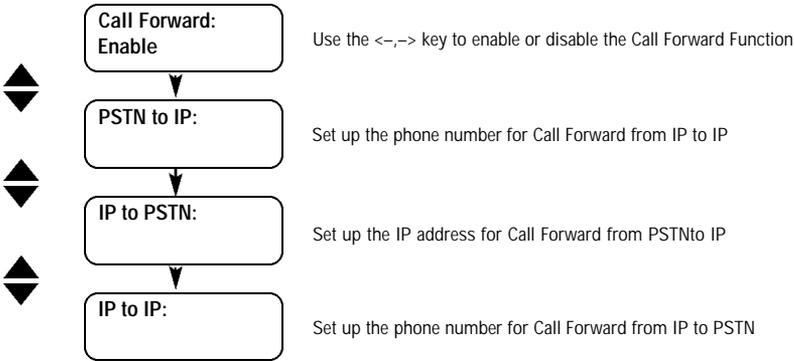
Please Check with your
Internet service provider (ISP)



K. CALL FORWARD

The setting for this Gateway function

- you could use the <-,> key to enable or disable the Call Forward function
- Set up the IP address for Call Forward from PSTN to IP
- Set up the phone number for Call Forward from IP to PSTN
- Set up the phone number for Call Forward from IP to IP



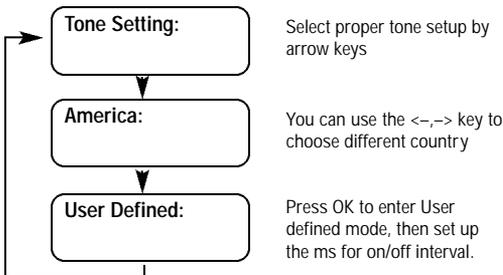
- Call forward to pre-setting number or IP address.
if you choose "YES" then you could input the number
 - IP to IP (priority 1); (i.e. 192.168.100.200 remote unit where you want the call forward to.)
 - From IP to PSTN (priority 2); (i.e. 555-1234 local phone number)
 - From PSTN to IP (priority 3); (i.e. 192.168.100.222 forward to this IP if calling from PSTN)

One of the three option can be chosen. If two or more are selected, only the one with higher priority will work. For example, if you want to use PSTN to IP Call, Priority 1 & 2 should be blank.

L. BUSY TONE SETTING

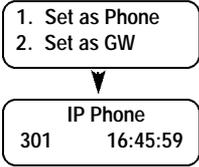
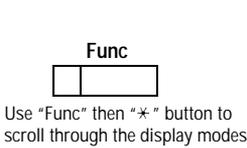
Since the busy tone might be different from country to country, make sure to set up your IP Phone's busy tone for different PSTN environments.

- Select proper tone setup by arrow
- Use the <-,> key to choose different country.
- Press OK to enter User defined mode, then set up the ms for on/off interval.



M. GATEWAY/PHONE MODE

The VoIP Phone supports Gateway mode or Phone mode. Set this IP Phone to Gateway mode if you want to forward incoming PSTN calls to another IP phone. Otherwise, set up your IP Phone to Phone Mode.

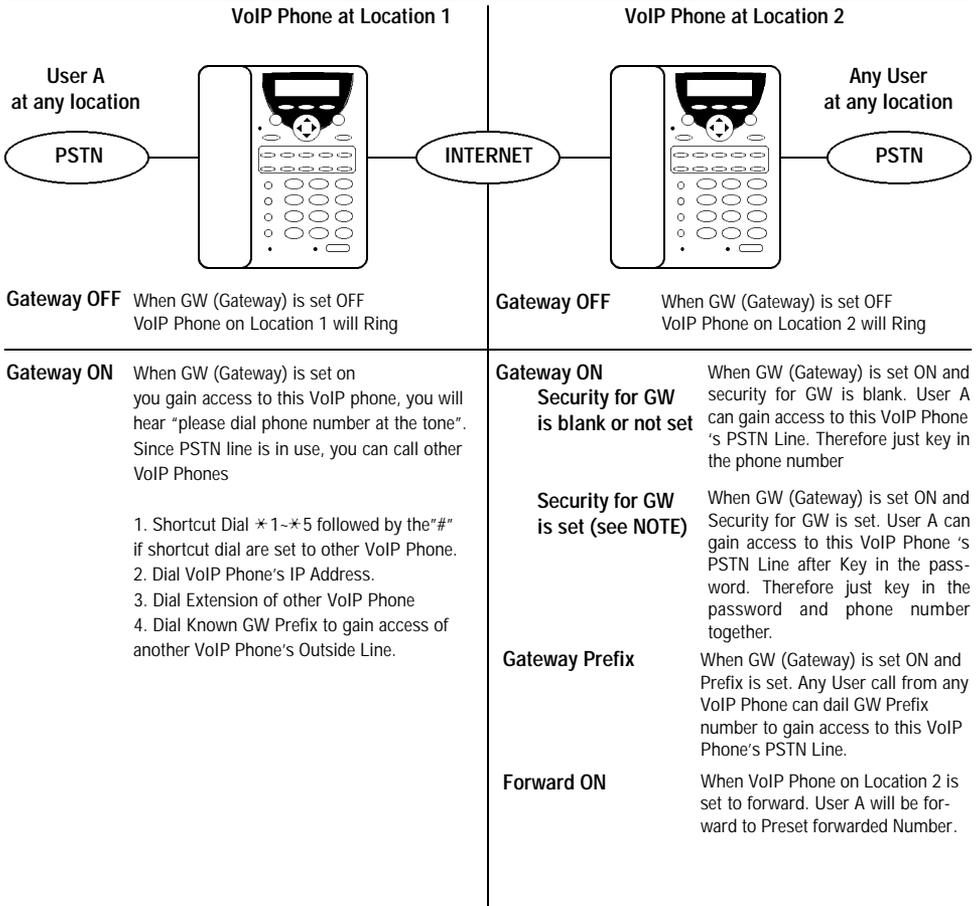


Press "1" or "2" for phone or Gateway mode (GW)

Use "Func" then "*" button to scroll through the display modes

Once the Gateway Set to GW (Gateway) and the Forward function is set off. Calling to this phone will allow the caller access to dial any outside calls. If you are calling from a telephone, you will hear "Please Dial Phone Number at the Tone". Dial another VoIP Phone's IP address or extension number to make the call.

Call from User A to VoIP at Location-1, Location-2, or Any User.



NOTE: Security for GW (Gateway) Password has to set thru the web browser

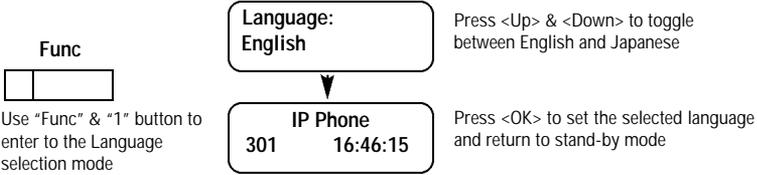
Easy configuration through web browser. (i.e. Internet Explorer, Netscape Navigator)

http://192.168.100.100:9999 (your IP address) Default user name: user Default password: user

N. LANGUAGE SELECTION

This Ip Phone supports both English and Japanese, the setup process is as below:

- Press <UP> & <DOWN> to toggle between English and Japanese
- Press <OK> to set the selected language and return to stand-by-mode



4. HOW TO SET UP VoIP PHONE THRU BROWSER

A. WEB BROWSER CONFIGURATION

Your IP Phone can also be set up by using a web browser, such as "Microsoft IE", "Netscape". Key-in `http://ip_address:9999` (ip_address is the IP address of the IP Phone) in URL field to get into the web page. If the password is not BLANK, it will pop up a window for entering the password. You can change settings by click the Hyper-Text in left side of the window. Once completed, press "Submit" to save the settings or press "Reset" to restore the parameter to the original setting. Note: You have to click "Submit" before moving to another page, otherwise the settings will be lost. You must reboot your computer to activate any new settings.

User Name	User
DHCP	<input type="radio"/> Yes <input checked="" type="radio"/> No
PPPoE	<input type="radio"/> Yes <input checked="" type="radio"/> No
PPPoE ID	
PPPoE Password	
NAT/IP Sharing	0.0.0.0
IP Address	192.168.100.100
Router IP	192.168.100.1
Subnet Mask	255.255.255.0
DNS Server	192.168.100.10
NTP(Time) Server	0.0.0.0
Time Zone	(GMT+08:00 Beijing, Singapore, Taipei)
Gatekeeper	<input type="radio"/> Auto <input checked="" type="radio"/> Yes <input type="radio"/> No
Gatekeeper IP	4.38.32.22
Gatekeeper Password	
Extension No.	1111111
Default Codec	6.723.1
Gateway #1	192.168.111.111
Gateway #2	192.168.111.222
Gateway #3	192.168.100.111
Gateway #4	192.168.100.222
Gateway #5	192.168.100.200
MAC Address	11.E1.F9.E1.SB.C7
Version	IP PHONE V2.40
Password	----

Gateway Features:

Phone Mode	<input type="radio"/> Phone <input checked="" type="radio"/> Gateway
Time Setting	Taiwan
On Time (min):	
Off Time (min):	
Call Forward	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
IP to PSTN:	
PSTN to IP:	192.168.222.111
IP to IP:	
Gateway Prefix No. (for GK)	333333
Security for GW mode	*****

Submit Reset

Default User Name: User
Default Password: User

Note: When Password field is blank, User Name is disabled. You have to log-in to the browser using User Name: User; Password: User Whenever you are changing the User Name field, password should be set also.

Please set your User Name and Password when you received this product.

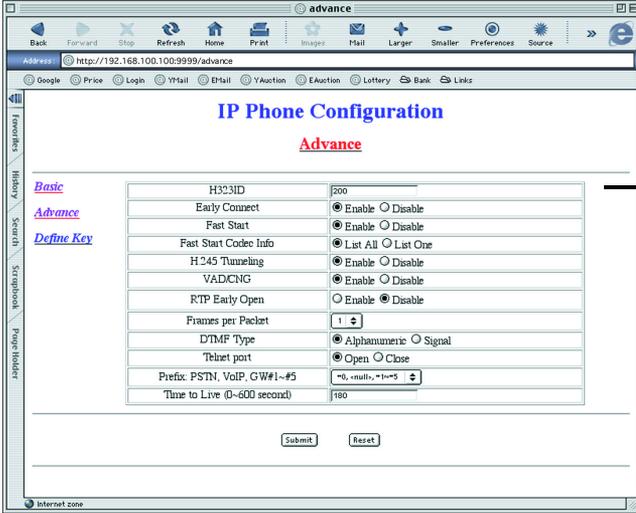
Other VoIP Phone's IP Address
These should be static IPs.

When Call Forward is Enabled
Please choose only one option
either from IP to PSTN, PSTN
to IP or IP to IP. Leave the
other two field blank.

Please leave this field blank.
This number will be shown on
Gatekeeper Server.

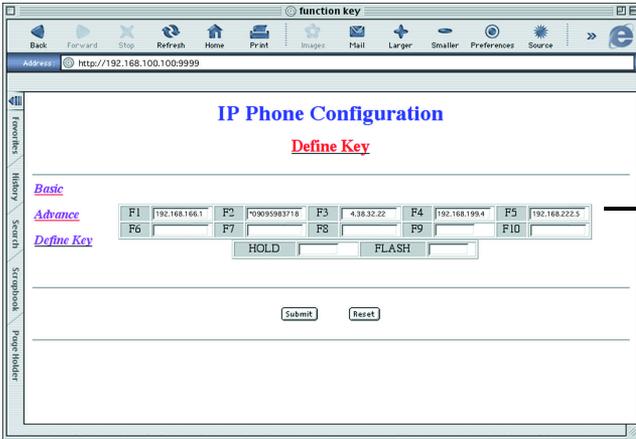
This field is your GK password
It is used for the Gatekeeper
service. This password can
only be set in the web browser.

B. ADVANCED SETTING



Please do NOT change setting on this page

C. QUICK DIAL SETTING

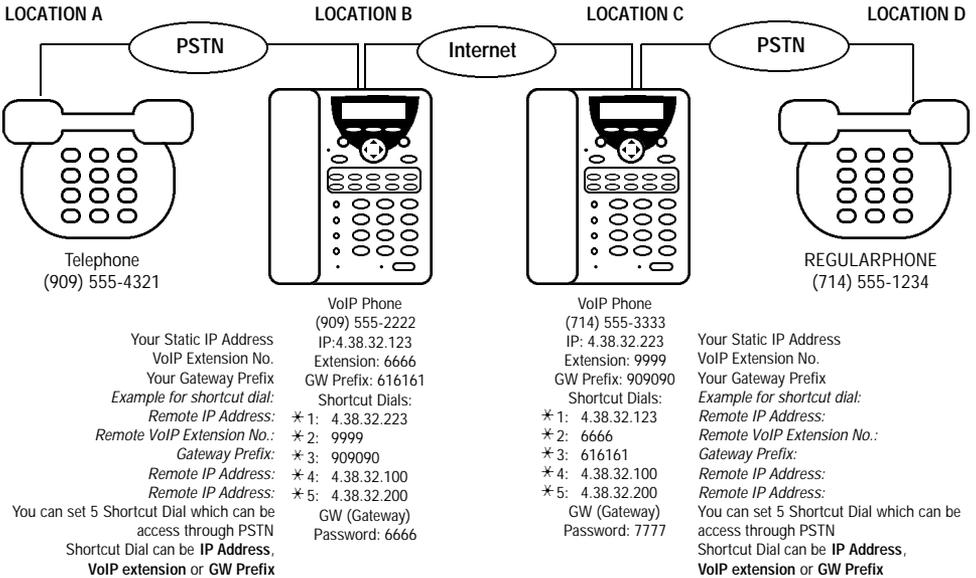


This is the Quick Dial Setting You can set it to IP address or Telephone numbers.

Setting up PSTN or telephone call, please use “*0”, phone number and followed by a #.

Example: 555-1234
Dial “*0 5551234 #”

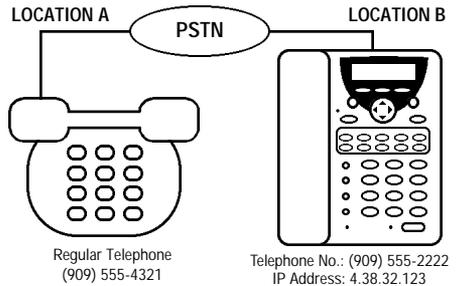
5. HOW TO USE VoIP PHONE



A. MAKING A TELEPHONE CALL TO VOIP PHONE

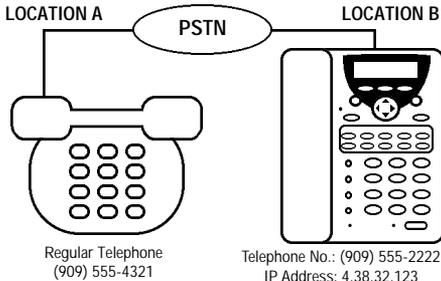
There are 4 different ways to make a phone call with VoIP Phone

- Dial IP address directly *4* 38* 32* 250 # (IP: 4.38.32.250) or *192* 168* 100* 100 # (IP: 192.168.100.100) while using VPN replace "." with "*" in the IP address, use # to finish dialing.
- Dial VoIP extension, a free (GK) gatekeeper service provided by PI. You can dial the extension of another VoIP phone (i.e. *66666 #)
- Dial through VoIP Phone to telephone when GW (gateway) is enabled. You can simply dial * * 1" (shortcut dial), password and phone no. You can store 5 shortcuts * * 1"-* * 5", they can be IP or VoIP extension.
- Dialing through regular phone line * * 0 19095983718 #
 Note: Dial * * 0" to access regular phone line.



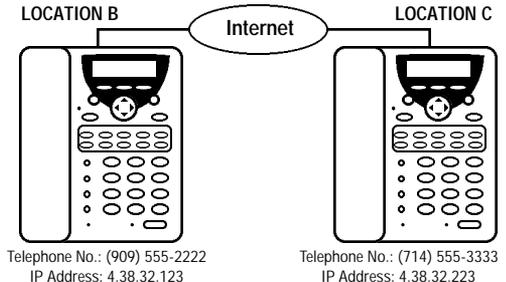
When making a call from location A to location B
 Simply dial "5552222". Regular Phone on location B will ring.
 Pick up handset and you can begin communication.

C. MAKING A REGULAR TELEPHONE CALL



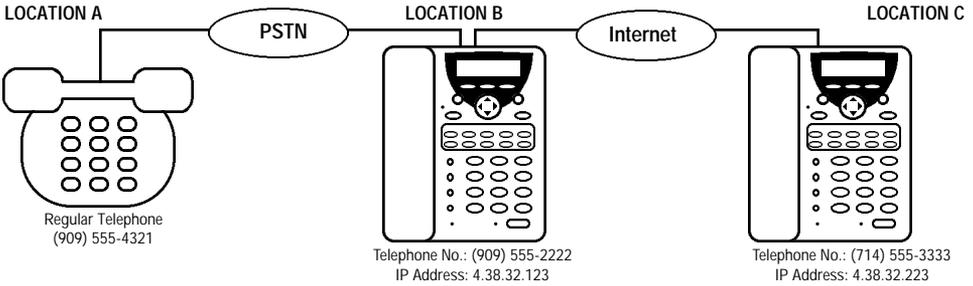
When making a call from location B to location A
 Simply dial * * 0 5554321 #. Regular Phone on location A will ring.
 Pick up handset and you can begin communication.

C. MAKING A INTERNET CALL TO VOIP PHONE



When making a call from location B to location C
 Simply dial *4* 38* 32* 223 #. VoIP Phone on location C will ring.
 Pick up handset and you can begin communication.

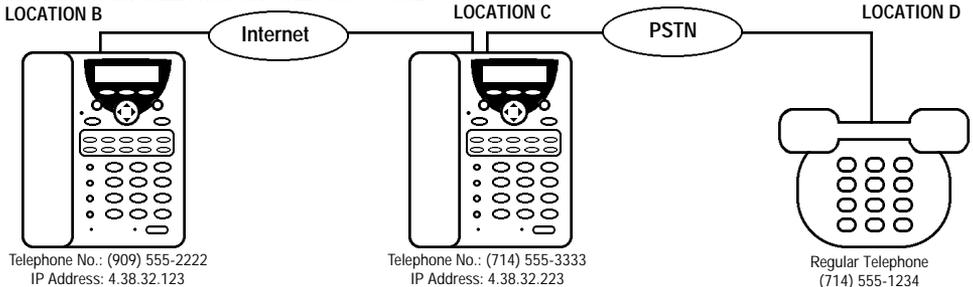
E. MAKING A PHONE CALL TO ANOTHER VOIP PHONE



When making a call from location A to location C
VoIP Phone on Location B must set GW (Gateway) ON.
To make a call from Location A to B Simply Dial *5552222*.
You will hear "please dial phone number at the tone"
Dial IP of VoIP Phone Number on Location C *4* 38* 32* 223 #"

If VoIP phone at Location B has set up 4.38.32.223 to its shortcut dial *1. You can simply dial "*1 #" after you hear "please dial phone number at the tone".
VoIP Phone at Location B can also be set up to forward call to Location C. If Auto forward is set to 4.38.32.223, then User at Location A need only to place a call to Location B and will be automatically transferred to VoIP Phone at Location C.

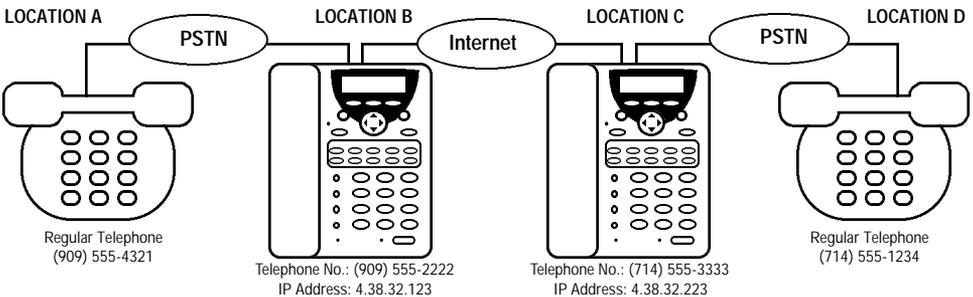
C. MAKING A GW CALL FROM ANOTHER VOIP PHONE



When making a call from location B to location D
VoIP Phone on Location C must set GW enabled
We can set IP address of Location C to shortcut dial from *1-*5
We can simply set this up to *1 with IP 4.38.32.233
While VoIP Phone's GW (Gateway) is "ON" at Location C
i. If VoIP Phone on Location C does not have GW password.
You can simply dial "*1 5551234 #" to call Location D
ii. If VoIP Phone on Location C have GW password (example. 7777)
You can simply dial "*1 7777 5551234 #" to call Location D

If VoIP Phone on Location C have set a GW Prefix. Example 909090.
At the tone, dial *909090 # wait 2 sec, dial "5551234 #" to call Location D
If you make call to Location C frequently, you can now set shortcut dial *1 to 909090 5551234. And you can now make the call by pressing "*1 #" or you can set *1 to 909090 and dial "*1 5551234 #" after the tone.
Warning : Since GW Prefix doesn't require password to access your phone. It's recommended to leave it blank in order to prevent unauthorized use of VoIP Phone. Since Any VoIP phone can call your GW Prefix and gain access of your PSTN phone lines

F. MAKING A GW CALL FROM REGULAR PSTN PHONE

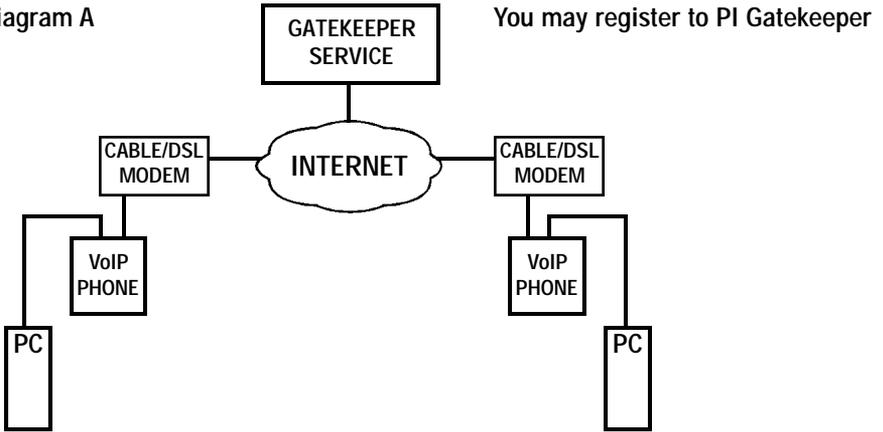


When making a call from location A to location D
VoIP Phone at Location B must set GW enabled and set up VoIP Phone at Location C to it's shortcut dial between *1-*5
We can set shortcut dial *1 with IP 4.38.32.233
While VoIP Phone's GW (Gateway) is "ON" at Location C.
i. If VoIP Phone on Location C does not have GW password.
You (Location A) can simply dial 555-2222 to call Location B, After hearing "please dial phone number at the tone", dial "*1 5551234 #" **Note**: dial "*1 1" will call to Location C. At location C because no password required, you can simply enter the phone number at Location D where you want to call.
ii. If VoIP Phone on Location C have GW password (example. 7777)
You can simply dial "*1 7777 5551234 #" to call Location D

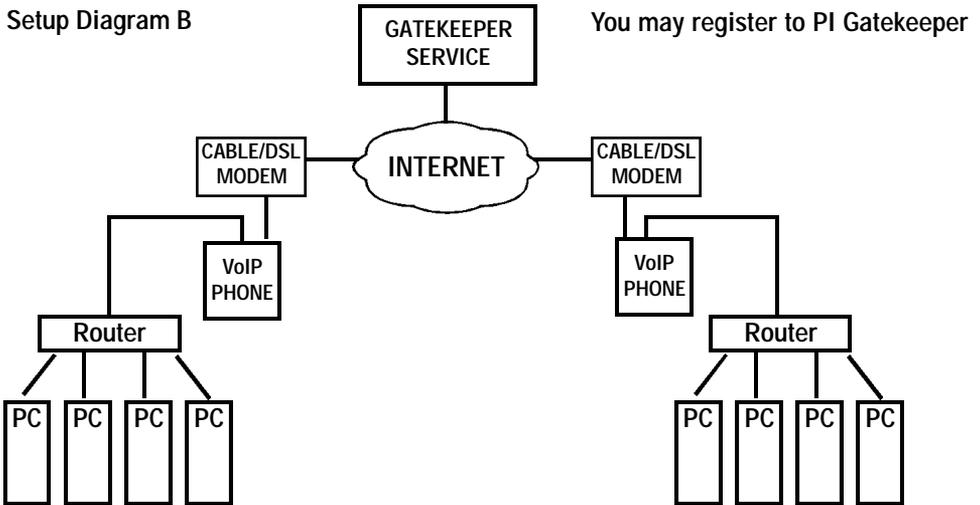
If VoIP Phone on Location C have a GW Prefix. Example 909090
You (Location A) can call to Location B, after you hear "please dial phone number at the tone", dial "909090#" wait 2 sec and dial "5551234 #" to call Location D. If you make call to Location D frequently, you can now set short cut dial *1 at Location B to "887766 5551234 #". And you can make the call by pressing "*1 #" at the tone. You can also set *1 to 887766 and dial "*1 5551234 #" after the tone.
Warning: Since GW Prefix doesn't require password to access your phone It's recommended to leave it blank in order to prevent unauthorized use of VoIP Phone. Since Any VoIP phone can call your GW Prefix and gain access of your PSTN phone lines.

6. SETUP DIAGRAM

Setup Diagram A

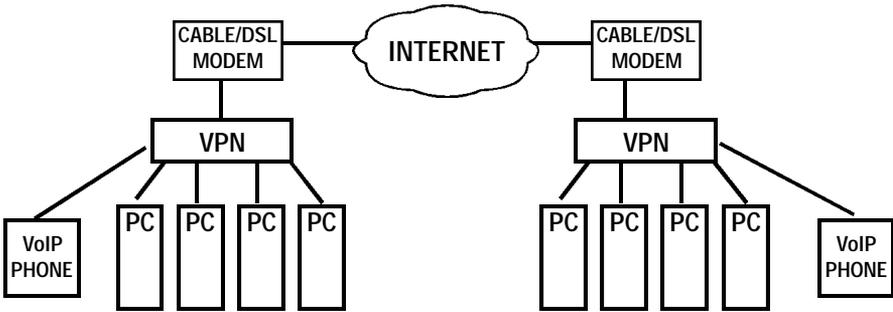


Setup Diagram B



Note 1: PI Gatekeeper is a free service. This free service is dependent on the longevity of each ISP (Internet Service Provider), network/internet traffic and cost of maintenance. As this is a free service, PI is not responsible for any liabilities and losses due to any down-time.

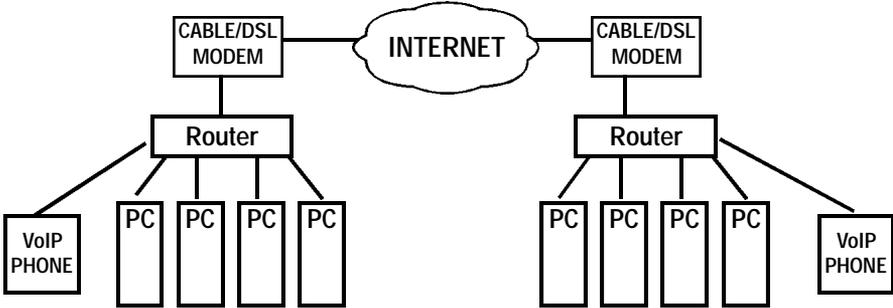
Setup Diagram C (Not Recommended, Professional Installation Required)
 PI Gatekeeper does NOT support for this setting.



You can only call to your internal IP address,

You can only call to your internal IP address,

Setup Diagram D (Not Recommended, Professional Installation Required)
 PI Gatekeeper does NOT support for this setting.



You can only call to your static IP address,

You can only call to your static IP address,

Note 1: For setting up as Diagram C,D, Each VoIP PHONE require it's own static IP address.

Note 2: If dynamic IP, you should used DYNDNS (Dynamic IP Solution) and assign port 1719-1720 and 41000-41001 for VoIP PHONE.

6. ABBREVIATIONS

ADSL: Asymmetric Digital Subscribe Line
CNG: Comfortable Noise Generation
DAM: Digital Answering Machine
DHCP: Dynamic Host Configuration Protocol
DTMF: Dual Tone Multi-Frequency
IP: Internet Protocol
NAT: Network Address Translation
PPPoE: Point-to-Point Protocol Over Ethernet
PSTN: Public Switch Telephony Network
SNTP: Simple Network Time Protocol
VAD: Voice Activate Detection
VoIP: Voice over Internet Protocol
VPN: Virtual Private Network

Gatekeeper:
Gateway:
G723:
G711:
G729A/B:
MAC Address:

PI Gatekeeper: 4.38.32.22
 If this IP Address does not respond, please visit <http://www.pimfg.com> or <http://www.callpi.com> to obtain a new gatekeeper IP address.

STATIC IP QUICK SETUP

(You can exit the Setup Menu anytime by pressing the "MENU" key again.)

Menu

NAME:
USA01

- Push "Menu" to enter Setup Mode
- Set up the name of the phone (e.g. PI WALNUT)

DHCP:
Disable

- Skip (Leave as default)

ADSL DIALUP:
NO

- Skip (Leave as default)

IP SHARE : NAT
0. 0. 0. 0

- Skip (Leave as default)

IP ADDRESS :
0. 0. 0. 0

- Set up Your IP address.

Router IP :
0. 0. 0. 0

- Set up your ISP Gateway Address.

Subnet Mask
255.255.255. 0

- The default value is 255.255.255.0 (Please check with your ISP)

DNS Server IP:
0. 0. 0. 0

- Leave as default. (Please check with your ISP)

SNTP Server IP:
0. 0. 0. 0

- Set up SNTP (Simple Network Time Protocol)
- This function allow IP Phone to get time from the Internet. If you do not know how to set this up. Skip to next step.

DATE: -- / -- / --
TIME: -- : -- : --

- Set up the date (year/month/day) e.g. 99/11/30
- Set up the time (hour:minute:second) e.g. 15:53:20

Time Zone
GMT + 0:00

- Set up the Time Zone
If you do not know how to set this up. Skip to next step.

Gatekeeper
No

- Enable or Disable Gatekeeper by <- or -> key
If you want to use the GK (Gatekeeper) please enable this function.

Gatekeeper IP
--- . --- . --- . ---

- Enable or Disable Gatekeeper by <- or -> key
If you want to use the GK (Gatekeeper) please enable this function.

Ext No (Use G/K)

- Set up Gatekeeper (GK) IP Address
- Gatekeeper IP will be supplied from PI and should be set to 4.38.32.22

Menu

- To save and exit press "menu" button and then "OK".
- To cancel and exit press "menu" button and then "Cancel"



Upon Completion, your LEDDisplay should contain the following information.

DYNAMIC IP QUICK SETUP

(You can exit the Setup Menu anytime by pressing the "MENU" key again.)

Menu

NAME:
USA01

- Push "Menu" to enter Setup Mode
- Set up the name of the phone (e.g. PI WALNUT)

DHCP:
Enable

- Set up DHCP mode to Enable

ADSL DIALUP:
NO

- Skip (Leave as default)

IP SHARE : NAT
0. 0. 0. 0

- Skip (Leave as default)

IP ADDRESS :
0. 0. 0. 0

- Skip (Leave as default)

Router IP :
0. 0. 0. 0

- Skip (Leave as default)

Subnet Mask
255.255.255. 0

- Skip (Leave as default)

DNS Server IP:
0. 0. 0. 0

- Skip (Leave as default)

SNTP Server IP:
0. 0. 0. 0

- Set up SNTP (Simple Network Time Protocol)
- This function allow IP Phone to get time from the Internet. If you do not know how to set this up. Skip to next step.

DATE: -- / -- / --
TIME: -- : -- : --

- Set up the date (year/month/day) e.g. 99/11/30
- Set up the time (hour:minute:second) e.g. 15:53:20

Time Zone
GMT + 0:00

- Set up the Time Zone
If you do not know how to set this up. Skip to next step.

Gatekeeper
No

- Enable or Disable Gatekeeper by <- or -> key
If you want to use the GK (Gatekeeper) please enable this function.

Gatekeeper IP
--- . --- . --- . ---

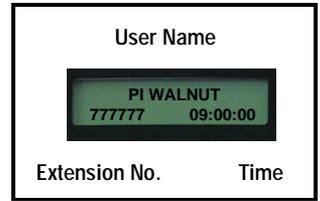
- Enable or Disable Gatekeeper by <- or -> key
If you want to use the GK (Gatekeeper) please enable this function.

Ext No (Use G/K)

- Set up Gatekeeper (GK) IP Address
- Gatekeeper IP will be supplied from PI and should be set to 4.38.32.22

Menu

- To save and exit press "menu" button and then "OK".
- To cancel and exit press "menu" button and then "Cancel"



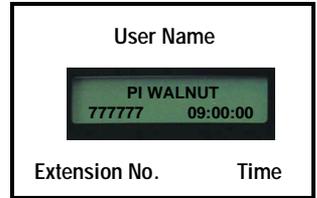
Upon Completion, your LEDDisplay should contain the following information.

ADSL (PPPoE) QUICK SETUP

(You can exit the Setup Menu anytime by pressing the "MENU" key again.)

Menu

- ◆ **NAME:**
USA01
 - Push "Menu" to enter Setup Mode
 - Set up the name of the phone (e.g. PI WALNUT)
- ◆ **DHCP:**
Enable
 - Set up DHCP mode (Enable or Disable switched by <- or -> key)
Leave in Disable mode if you have Static IP Address
For Dynamic IP Address, DHCP must set to Enable.
- ◆ **ADSL DIALUP:**
YES
 - Set up ADSL Dialup mode to YES
- ◆ **ADSL ID:**
 - ID for ADSL Dialup (Internet User Name)
- ◆ **ADSL Password:**
 - Password for ADSL Dialup (Internet Password)
- ◆ **IP SHARE : NAT**
0. 0. 0. 0
 - Skip (Leave as default)
- ◆ **IP ADDRESS :**
0. 0. 0. 0
 - Skip (Leave as default)
- ◆ **Router IP :**
0. 0. 0. 0
 - Skip (Leave as default)
- ◆ **Subnet Mask**
255.255.255. 0
 - Skip (Leave as default)
- ◆ **DNS Server IP:**
0. 0. 0. 0
 - Skip (Leave as default)
- ◆ **SNTP Server IP:**
0. 0. 0. 0
 - Set up SNTP (Simple Network Time Protocol)
 - This function allow IP Phone to get time from the Internet.
If you do not know how to set this up. Skip to next step.
- ◆ **DATE: -- / -- / --**
TIME: -- : -- : --
 - Set up the date (year/month/day) e.g. 99/11/30
 - Set up the time (hour:minute:second) e.g. 15:53:20
- ◆ **Time Zone**
GMT + 0:00
 - Set up the Time Zone
If you do not know how to set this up. Skip to next step.
- ◆ **Gatekeeper**
No
 - Enable or Disable Gatekeeper by <- or -> key
If you want to use the GK (Gatekeeper) please enable this function.
- ◆ **Gatekeeper IP**
4 . 38. 32. 22
 - Set up Gatekeeper (GK) IP Address
 - Gatekeeper IP will be supplied from PI and should be set to 4.38.32.22
- ◆ **Ext No (Use G/K)**
 - PI will preset Ext No (Extension No.) - Please Do Not Change
This allows other VoIP Phone to dial your VoIP Phone by G/K (Gatekeeper) Extension instead of typing your IP address.



Upon Completion, your LEDDisplay should contain the following information.

Menu

- To save and exit press "menu" button and then "OK".
- To cancel and exit press "menu" button and then "Cancel"

By removing this label, you agree to conform to the conditions below.

PI Gatekeeper is a free service. This free service is dependent on the longevity of each ISP (Internet Service Provider), network/internet traffic and cost of maintenance. As this is a free service, PI is not responsible for any liabilities and losses due to any down-time.