CIP-4500
User Manual

NOTICES TO USER

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:

    (1) this device may not cause harmful interference, and
    (2) this device must accept any interference received,
       including interference that may cause undesired operation.

One or more of the following statements may be applicable:

FCC WARNING

CAUTION : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Contents

Safety Instructions

Please read the following instructions carefully to ensure correct use and to prevent unexpected accident and damage caused by incorrect use.

Do not disassemble or modify the IP videophone or power adapter
by anyone other than the authorized personnel.
The warranty will not cover any defect that occurs due to such mishandling.

Install the unit on a stable and flat surface to ensure safe operation.

Do not install the unit in such a location where the unit can be affected by dust or gas.

Do not install the unit in a place subject to direct sunlight, or near heat sources such as radiators.

Do not install the unit near humid location to avoid any defect, heat and electric shock.

Do not touch the electric adapter when it is thundering and lightning to avoid electric shock.

Keep the unit safe from sudden shock to prevent defect. And do not apply excessive force especially to the LCD screen and the camera.

Clean the camera and the LCD screen with soft and clean clothes. Do not use coarse material to avoid damage.

Make sure to turn off the power switch before disconnecting the mains lead.
Disconnecting the mains with the power switch on will cause defect of the unit.

Do not apply sudden change of temperature. Installing in a place with severe temperature change may cause defect of the unit.

Make sure to use the exclusive power adapter.

Disconnect the power cable when the unit is not in use for a long time.

1. Installing IP Videophone

Components

The following parts are included in the product package. Be sure that you received all the parts.

- Main body of IP Videophone

- Handset

- Power adaptor

- Power cable

- User manual

- Network cable

- Telephone cable

Name of parts and functions
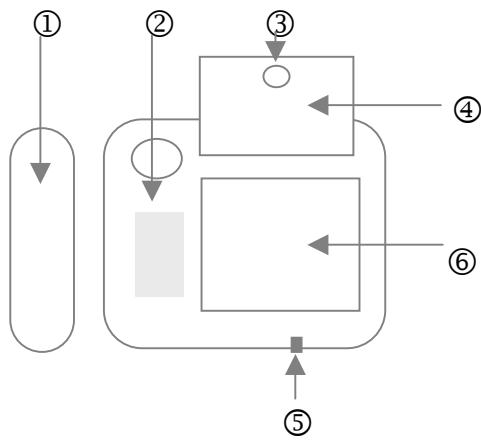
① Handset : Handset of IP Videophone

② Speaker : rings bell or sounds off the voice of the other party in the speakerphone mode.

③ Camera : captures your image to send to the other party.

④ LCD screen : displays images of yours and the other party during the call.

⑤ Microphone : receives voice in the speakerphone mode.

⑥ Keypad : the buttons operate the functions of the IP Videophone
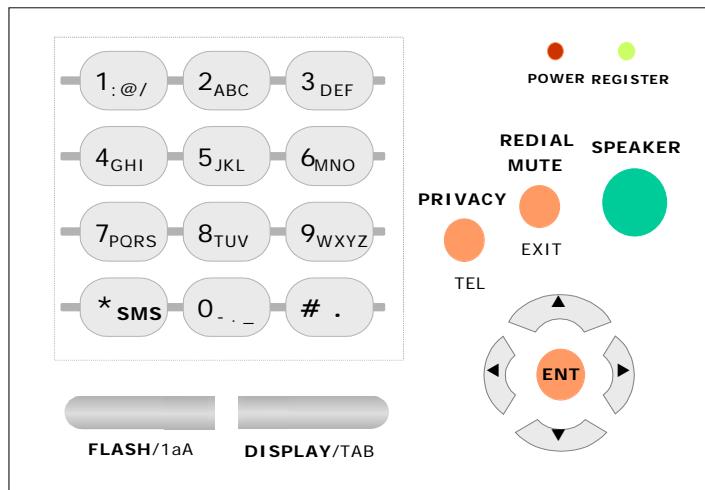
Numeric keys	Enters phone number in the dialing mode or the letters in the User Configuration menu.
*	Enters '*'.
SMS	Sends a short message during a call.
#	Enters '.' or '#'.
	Rejects the incoming call.
FLASH	Forwards the call to others during the Internet mode.
1aA	Selects the type of letters in the input mode. (Numeric/Lowercase/Capital)
DISPLAY	Changes the display mode during a call.
TAB	Shifts between the URL links and the URL input windows displayed on the browser.
	Moves to the submenus when retrieving the mail.
	Moves to the submenus when the auto answer list is displayed.
PRIVACY	Stops transmitting the video data during a call.
TEL	Changes the call mode to public phone mode.
REDIAL	Makes a call to the last dialed number.
MUTE	Cuts off the voice transmission and sends the melody.
EXIT	Moves to the previous menu from the User Configuration menu or the Setup menu during a call.
SPEAKER	Activates or deactivates the speakerphone mode.
POWER	Indicates if the IP Videophone is switched on.

REGISTER	Green LED is on when the IP Videophone registered to the Internet phone service.
	Greed LED blinks fast in auto answer mode.
	Green LED blinks slowly when the IP Video phone is registered to the Internet phone service and is in auto answer mode.
ENT	Makes a call to the dialed number.
	Moves to the User Configuration menu.
	Saves the setting in User Configuration menu.
Arrow Key (▲▼ ►◄)	Moves between the User Configuration menus.
	Moves between the items in the edit mode of PhoneBook or CallLog in User Configuration menu.

❶ ON/OFF : Turns on/off the power
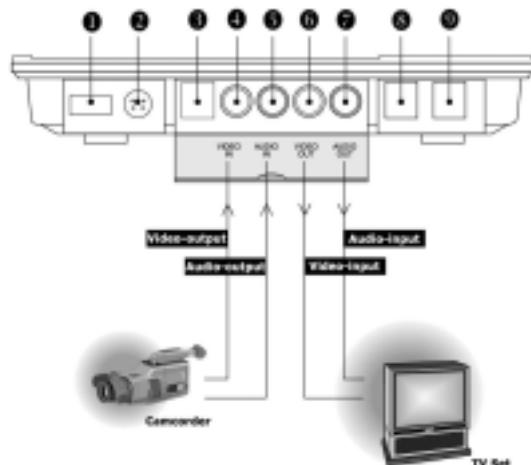
❷ POWER : Connects the power adapter

❸ LINE : Connects to the telephone line

❹ VIDEO IN : Receives external video data

❺ AUDIO IN : Receives external audio data

❻ VIDEO OUT : Sends out video data

❼ AUDIO OUT : Sends out audio data

❽ PC : Connects to the computer with LAN cable

❾ WAN : Connects to Internet

NOTE. A/V cable for audio/video input/output is not included in the package.

NOTE. When connecting TV to VIDEO OUT, the LCD screen of IP Videophone may not be fully displayed depending on the model of TV.

Installing IP Videophone

Please check the components before installing the IP Videophone. For the best result, please follow the installation procedures.

1) Plug in the handset line to the body.

2) Connect the power cable to the power adapter.

3) Connect the power adapter to the body of IP Videophone.
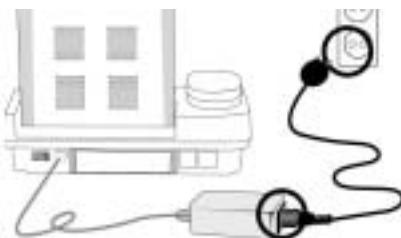
4) Connect the ADSL modem cable, cable modem or LAN cable to the IP Videophone.

5) Connect the phone line.
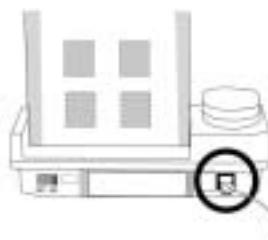
6) Turn on the power. The network configuration wizard is displayed. Set up the appropriate network configuration.

Network Configuration – Using Wizard

What is Wizard?

You must set up IP to use video call through the IP Videophone. The unit provides the wizard menu so that you can easily set up Internet. The menu provides you with the step-by-step guide to set up the **IP** part of the Personal Information Management System (PIMS) menu. It is executed when you first turn on the IP Videophone or when the system is rebooted with **Wizard** of **UserSet** being set to 'ON'.

Starting Wizard

Select 'Yes' for **Wizard** and turn on the IP Videophone to start the Wizard menu. The Wizard menu provides the following configuration functions.

IP Setup

Dynamic IP
ADSL IP
Static IP
Secondary DNS Address
NTP Server Address

Internet Phone

Internet phone setup
- Server address
- Authentication information
- User information

NAT Setup

Own NAT
Inside the NAT/Firewall
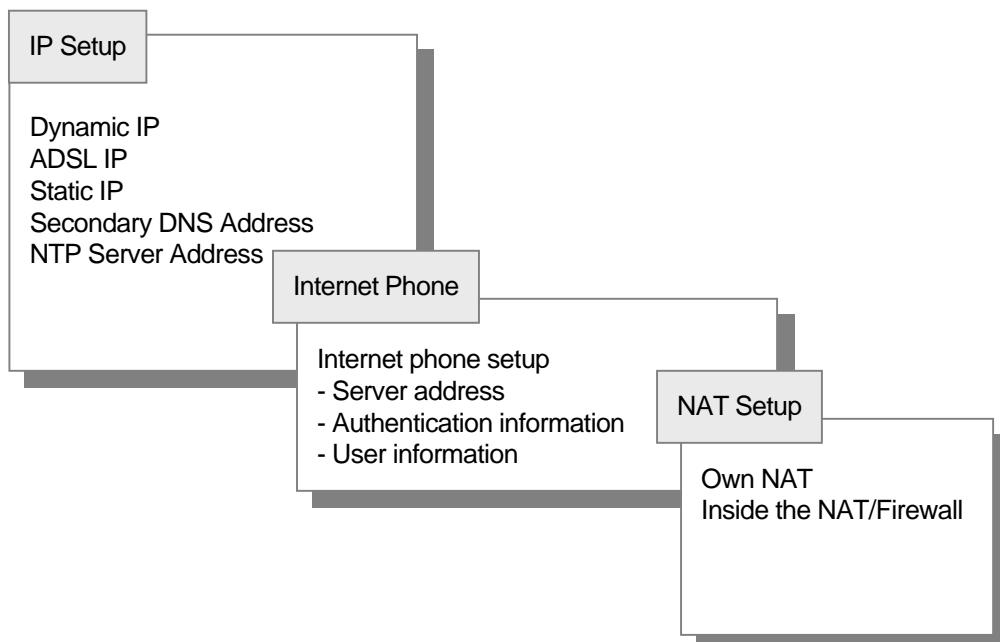
A. Internet Connection setting

- In the Wizard Menu main window, the current values are displayed, and the cursor is on the **Next** button.

- In **Internet Connection setting**, use ▲▼ to move between the connection method, and use ►◄ or **'ENT'** to select an item.

- In order to proceed, click **Next**, or to finish the function, click **Finish**.

NOTE. When connecting the IP Videophone to LAN or the cable network, select 'LAN(Static IP)' if the address of the IP Videophone is already fixed, or select 'LAN(Dynamic IP)' if the IP address is dynamically allocated. If you have subscribed to the ADSL network, select 'ADSL (PPP/PPPoE)'.

NOTE. Click **Next** will display the **LAN(Static IP) setting** window if you select 'LAN(Static IP)', the **Secondary DNS setting** window if you select 'LAN(Dynamic IP)', or **ADSL setting** if you select 'ADSL(PPP/PPPoE)'.

B. LAN(Static IP) setting

- This menu window is displayed if you selected 'LAN(Static IP)' in **Internet Connection setting**. The window displays the current values. You can change the value as described in 'LAN(Static IP)' configuration in <Default Internet Configuration(51p)>.

- In order to proceed to the next menu, use ▲▼ ►◄ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. In order to move to **Secondary DNS setting**, click **Prev**, move to **Internet Connection setting**, and then, click **Next**.

NOTE. If you use the IP Videophone on the network with Firewall, you can only communicate with the IP Videophone inside the firewall but not with the one outside the firewall. It is because the firewall blocks the Internet packet used by the IP Videophone.

C. ADSL Configuration

- This menu window is displayed if you selected 'ADSL(PPP/PPPoE)' in **Internet Connection setting**. The window displays the current values. You can change the value as described in 'ADSL' configuration in <Default Internet Configuration(51p)>.

- In order to proceed to the next menu, use ▲▼ ►◄ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. In order to connect the IP Videophone to ADSL, you should use the external ADSL modem. Connect the Internet line from the ADSL modem to the IP Videophone as illustrated in the following figure.

NOTE. In order to move to **Secondary DNS Setting**, click **Prev**, move to **Internet Connection setting**, and then, click **Next**.

D. Secondary DNS setting

- This menu enables you to set up the secondary DNS address in preparation for malfunction of the primary DNS set in **Internet Connection setting**. You can change the value as described in < Advanced Internet Configuration(52p)>.

- In order to proceed to the next menu, use ▲▼ ►◄ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. Click **Prev**, move to **LAN(Static IP) setting / Internet Connection setting / ADSL setting** depending on the selection in **Internet Connection setting**, and click **Next** to move to **Time Server setting**.

E. Time Server setting

- This menu enables you configure the timeserver to acquire time information used in the IP Videophone.

- Enter the server addresses in 'Server1' and 'Server 2'.

NOTE. If you leave the TimeServers 1 and 2 empty, the IP Videophone acquires the current time from the default time server.
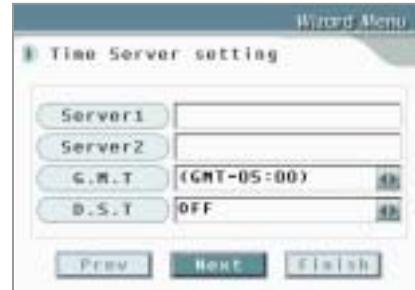
- In 'G.M.T' and 'D.S.T' field, set the appropriate standard time and summer time option, using ▶◀.

- The setup in this menu is as described in < Time/Date Setting(48p)> of **UserSet**.

- In order to proceed to the next menu, use ▲▼ ▶◀ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. Click **Prev**, move to **Secondary DNS setting**, and then, click **Next** to move to **Internet Phone setting**.

F1. Internet Phone setting (For H.323 protocol)

- This menu is used when you register the IP Videophone to the Internet phone service. The menu consists of two windows. The first one is the menu on which you shall enter the Internet phone server address, and the second one is the menu on which you shall enter H.323 ID /

  E.164 / Password.

- Changing the value is as defined in <Internet Phone Configuration (H.323) (52p)>.

- In order to proceed to the next menu, use ▲▼ ▶◀ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. Because the IP Videophone conforms to H.323 international video communication standard, you can register the unit to the Internet phone service. In order to connect the phone to the Internet phone service network, you should set the H.323 ID to be used in the server address and authentication process, and the ID in the format

of phone number (E.164). Therefore, make sure to check them when you subscribing the phone to the IP phone service network.

NOTE. If you click **Prev** in the first **Internet Phone setting**, you will move to **Time Server setting** menu. If you click **Next** you will move to the second **Internet Phone setting** menu. In the second **Internet Phone setting**, if you click **Prev**, you will move to the first **Internet Phone setting**, and if you click **Next**, you will move to **Internet Sharing setting**.

NOTE. If you have not subscribed to the Internet phone service, leave the blank empty, and click **Next** to move to **Internet Sharing setting**.

F2. Internet Phone setting (For SIP protocol)

- This menu is used when you register the IP Videophone to the Internet phone service. The menu consists of three windows. The first one is the menu on which you shall enter the user information, and the second and the third are the menus on which you shall set up the Internet phone server.

- The Internet Phone setting is the menu on which you register the IP Videophone to the server or you enter the user information for communication with the other party. In this window, enter the user name, password, address and alias. You can change the value as described in < Internet Phone Configuration (SIP) (53p)>.

- Use ▲▼ to select **Next**, and press '**ENT**', and then register the Internet phone server. You may select either Proxy or Registrar. Use ▲▼ to move between the items, and use ▶◀ or '**ENT**' to select an item.

- If you select **Next** using ▲▼, and press **'ENT'**, the server and port entering menu is displayed. You can change the value as described in < Internet Phone Configuration (SIP) (53p)>.

- In order to proceed to the next menu, use ▲▼ ▶◀ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. Because the IP Videophone conforms to H.323 international video communication standard, you can register the unit to the Internet phone service. In order to connect the phone to the Internet phone service network, you should set the H.323 ID to be used in the server address and authentication process, and the ID in the format of phone number (E.164). Therefore, make sure to check them when you subscribing the phone to the IP phone service network.

NOTE. If you click **Prev** in the first **Internet Phone setting**, you will move to **Time Server setting** menu. If you click **Next** you will move to the second **Internet Phone setting** menu. In the second **Internet Phone setting**, if you click **Prev**, you will move to the first **Internet Phone setting**, and if you click **Next**, you will move to **Internet Sharing setting**.

NOTE. If you have not subscribed to the Internet phone service, leave the blank empty, and click **Next** to move to **Internet Sharing setting**.

G. Internet Sharing setting

- Select the Internet sharing method to be applied to IP Videophone.

- Use ▲▼ to move between the items, and use ▶◀ or '**ENT**' to select an item.

- In order to proceed to the next menu, use ▲▼ ▶◀ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. If you click **Prev**, you will move to the second **Internet Phone setting**. If you click **Next**, you will move to **Finish Wizard setting/External Sharing setting/Internal Sharing setting** depending on the selected sharing mode.

H. External Sharing setting

- The menu is used to set up the Global IP address when you have selected 'External NAT used' in the **Internet Sharing setting**. Refer to < Internet Sharing Configuration (55p)> for details.

- Enter the global IP address of the external sharer in 'Global IP'.

- In order to proceed to the next menu, use ▲▼ ►◄ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. Click **Prev** to move to **Internet Sharing setting**, and click **Next** to move to **Finish Wizard setting**.

I. Internal Sharing setting

- This menu is used to set up the Host IP address when you have selected 'Internal NAT used' at **Internet Sharing setting**. Refer to < Internet Sharing Configuration (55p)> for details.

- Type the Host IP address of the IP Videophone to be used in the internal private network on 'Host IP'.

- In order to proceed to the next menu, use ▲▼ ►◄ to move to the menu button, and then click **Next**, or if you want to finish Wizard, click **Finish**.

NOTE. Click **Prev** to move to **Internet Sharing setting**, and click **Next** to move to **Finish Wizard setting**.

J. Finish Wizard setting

- The window indicates that the wizard is finished.

- If you click 'Reboot', the IP Videophone is rebooted. If you click 'Continue', the IP Videophone becomes in the standby mode.

NOTE. In order that Configuration Wizard is safely applied to the IP Videophone, you are recommended to select 'Reboot' to reboot the IP Videophone.

2. IP Videophone-based Calling

Making a Call

There are seven ways to make a videophone call.

Making a call using dialpad

- Pick up your handset or press '**SPEAKER**'.
- Press the IP address or phone number you want to make a call. For character input, refer to <How to Enter a Character (32p)>.
- After pressing the number, press '**ENT**'.
- When the dialing is started, the right figure is displayed.

  NOTE. You can also make a call by pressing the last digit of the phone number for a while. For example, if you try to make a call at 123.45.67.89, press '123.45.67.8' and then 9 for a moment.

Making a call in waiting mode

- In waiting mode (when LCD is turned off), if you enter the IP address or the first digit of the call number of the person you want to make a call, LCD is turned on, activating the dialpad with the input number.
- Making a call by pressing remaining call number is the same process as < Making a call using dialpad>.

Making a call using redial

- Pick up your handset or press '**SPEAKER**' .
- Press '**REDIAL'** to make a call at the number lastly connected.

NOTE. If IP videophone is in waiting mode, it is possible to make a call by pressing 'REDIAL' directly without picking up your handset.

Making a call from the latest calling list

- Pick up your handset or press '**SPEAKER**' .
- Press ▲ or ▼ to display the latest calling list. Select the number you want using ▲▼.
- Press '**ENT**' to make a call.
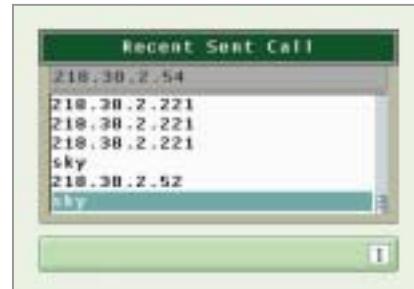
Speed dialing

- Pick up your handset or press '**SPEAKER**' .
- Enter the hot key you want from your **PhoneBook** and press '**ENT**'.

NOTE. If the speed dial number is for 'Internet', you shall make a call on the Internet, and for 'Mobile' or 'Public', make a call using a normal phone.

NOTE. If you press the speed dial number for a while, you can make a call without pressing '**ENT**'.

One Click Call from the PhoneBook

- While browsing your **PhoneBook**, select the destination you want to call and press '**ENT**'.

NOTE. For detailed call process, refer to < PhoneBook(35p)>.

One Click Call from the Call Log

- While browsing your **CallLog**, select the destination you want to call and press '**ENT**'.

NOTE. For detailed call process, refer to <CallLog (39p)>.

Receiving a Call

If an incoming call is arrived, videophone begins ringing and the following animation is shown on the LCD screen.

A. Picking up handset

Pick up your handset as usual.

B. Answering a call in Speakerphone mode

Press '**SPEAKER'**, in which case you get into the speakerphone mode.

Rejecting a Call

Press '#### ' to reject the incoming call.

Dropping a Call

To disconnect a call, hang up your handset.

If you are in speakerphone mode and the handset has already put on the phone, press **'SPEAKER'**.

**NOTE**. Your call data is stored in **CallLog**.

Call Forward

Call Forward allows you to forward a call from your phone to any other phone.

- Press **'FLASH'** to display dialpad on the screen.
- Click phone number or IP address of the person to whom you want to forward a call and press **'ENT'**.

NOTE. If a call is successfully transferred, the previous call is automatically disconnected. If not, the previous call is returned.

NOTE. Call forward is successful only between CIP-4500.

Auto Answering Mode

What is Auto Answering mode?

In auto answering mode, an incoming call is automatically received after ringing the predefined times, and an absent message is delivered. In this case, if a caller leaves a message, such the message is stored so that you can verify it in **Auto Answering Message** of **CallLog**.

NOTE. In auto answering mode, you are recommended not to transmit image and voice data.

NOTE. If a called party answers a call while an absence message is delivered or a caller leaves a message, the call may be connected.

NOTE. If there is not enough memory space to store messages, an absence message is delivered and a call is disconnected automatically.

Setting Auto Answering mode

You can set auto answering mode in Configuration.

NOTE. For detailed information, refer to <UserSet(45p)>.

Monitoring Function

You can use monitoring function of IP videophone by assigning the number of ringing times to "0" when setting auto answering mode in **UserSet**. With this function, you are able to monitor the local situation at the remote place.

Even though a caller makes a call, IP videophone seems not to operate and an absent message is delivered to a called party. In this case, if the caller sends the password via SMS while hearing the voice message, the IP videophone begins to send local video and audio data. If the password is not matched with yours, the call is disconnected immediately.

NOTE. For use of this monitoring function, the IP videophone of a caller shall be able to send a numeric information.

NOTE. How to send your password using IP videophone is described in <Short Message Service (SMS)(27p)>.

Useful Functions during a Call

You can use some useful functions even being on the line.

Display

Press '**DISPLAY'** to change display mode of the picture on your LCD screen. The display mode may be changed in the following sequence:

Dual Screen Mode   **PIP(Picture-in-Picture)**

Full Screen Mode (of the other party)   **PIP(Picture-in-Picture)**
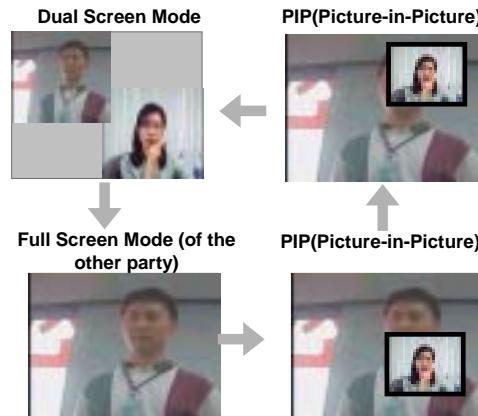
Mute

Press '**MUTE'** to prevent the other party from hearing your voice. "MUTE" message is displayed on LCD screen and melody instead of your voice is sent to the other party.

If you want to release mute, press '**MUTE'** again.

Privacy

Press '**PRIVACY'** to keep your image from delivering to the other side. Instead of your image, a logo image is displayed on the other party's screen in the privacy mode.

If you want to release privacy mode, press '**PRIVACY'** again.

Volume Control

① You can control volume by pressing ▲ ▼ during a call. The volume value icon is shown at the bottom of LCD screen.

② You can control volume in Setup menu during a call.

- Press '**ENT**' to display the control menu.
- Select the Volume Control menu using ▲▼. Then, press '**ENT'** to display phone volume menu.
- Select the volume using ◄ ► and press '**ENT'**.

- If you want to return to previous menu, press '**EXIT**'.

Video Quality Control

If video quality of the other side is not good or speed is too slow during videophone calling, you can control video quality or speed of the other party so that you can get better images and speeds.

- Press '**ENT**' to display the control menu.
- Select the Image Control menu using ▲▼. Then, press '**ENT'** to display detailed menu items.

● Select the item you want using ▲▼, and then control the value using ◄ ►.

> NOTE. You are not allowed to control image quality if only voice connection is made between you and the other party.

① RECEIVING SPEED : As you select the higher value, you can use more bandwidth, which guarantees enhanced image quality and better screen display.

> NOTE. When the receiving speed is high with bad network connection, the image may be broken. In this case, the receiving speed needs to be lowered.

> NOTE. If the other party's IP videophone model is different from yours, you have to control sending speed instead of receiving speed.

② SENDING SPEED : As you select the higher value, you can use more bandwidth, which guarantees enhanced image quality and better screen display.

> NOTE. When the sending speed is high with bad network connection, the image may be broken. In this case, the sending speed needs to be lowered.

● After setting all the items you need to control, if you want to return to previous menu, press '**EXIT**'.

Audio/Video Input Path Setting

You can change the input path of audio and video during a call.

● Press **'ENT'** to display the control menu.
● Select the Input menu using ▲▼. Then, press '**ENT'** to display detailed menu items.
● Select the item you want using ▲▼, and then control the value using ◄ ►.
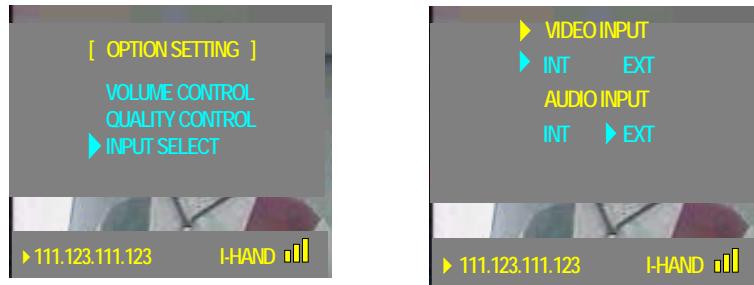
① VIDEO INPUT: If you select 'INT' from A/V Input menu, you can insert an image through the camera of IP videophone, but if you choose 'EXT', an image is inserted from the external camera connected to video input terminal of backside of the videophone body.

NOTE. If you select 'EXT' when the external camera is not connected to the videophone, the receiving image may look unclear. For the external video output, what you see on the current LCD screen is also displayed on any external device such as TV or LCD monitor only when an external display is connected to 'VIDEO OUT' port without special setting.

NOTE. When TV is connected to IP videophone, certain images may not be displayed according to TV model.

② AUDIO INPUT: If you select 'INT' from A/V Input menu, you can insert audio through the camera of IP videophone, but if you choose 'EXT', audio is inserted from the external camera connected to audio input terminal of backside of the videophone body.

NOTE. If you connect the external speaker to 'AUDIO OUT' port, you can hear the same audio via speaker. If you select 'EXT' when the external microphone is not connected, voice communication may be impossible.

NOTE. If audio input is set to 'EXT', volume control is not available.

● After setting all the items you want, if you want to return to previous menu, press '**EXIT**'.

Speakerphone Mode

Press '**SPEAKER'** to change into the speakerphone mode while calling using a handset.

If you want to release the speakerphone mode, press '**SPEAKER'** again.

NOTE. Even when you hang up your handset in speakerphone mode, the call may not be disconnected maintaining speakerphone mode.

NOTE. If you press '**SPEAKER'** in speakerphone mode after hanging up your handset, the call may be disconnected.

Short Message Service (SMS) (Optional)

You can exchange short messages during a call.

① Sending SMS

You can send a short message during a call in the following two manner:

Method 1

- In order to send simple numbers,
  press the number you want using numeric key.

Method 2

- Press '∗**(SMS)**' to display the following LCD screen for input.
- Enter a short message. For character input, refer to

  <How to Enter a Character(32p)**>.**
- After input, press '**ENT**' to send a message.
- If you do not want to send any input message, press '**EXIT**'.

NOTE. While you entering a message, image of such message continues to be delivered to the other party even though it is not displayed on the screen.

② Receiving SMS
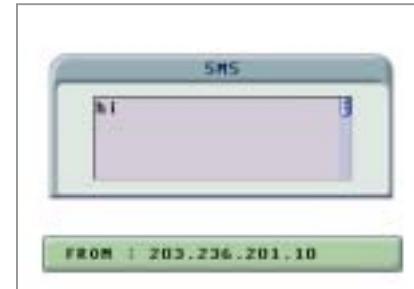
- If you receive a short message from the other party, the right screen is displayed on which you can view the message.
- After message check, if you want to exit this mode, press any button except ▲▼.

3. Public Phone-based Calling (Optional)

Making a Call

There are five ways to make a general call using an IP videophone:

Making a call using dialpad

- Pick up your handset or press '**SPEAKER**' .
- Press '**TEL**' to change into public phone mode. In public phone mode, you can see yourself.
- If you press the telephone number you want to make a call, dialing is started.

Making a call using redial

- Pick up your handset or press '**SPEAKER**' .
- Press '**TEL**' to change into public phone mode. In public phone mode, you can see yourself.
- Press '**REDIAL'** to make a call at the number lastly connected.

Speed dialing

- Pick up your handset or press '**SPEAKER**' .
- Enter the hot key you want from your **PhoneBook** and press '**ENT**'.

> **NOTE**. If the speed dial number is for 'Internet', you shall make a call on the Internet, and for 'Mobile' or 'Public', make a call using a normal phone.

NOTE. If you press the speed dial number for a while, you can make a call without pressing '**ENT**'.

One Click Call from the PhoneBook

- While browsing your **PhoneBook**, select the destination you want to call and press '**ENT**'.

    NOTE. For detailed call process, refer to <PhoneBook (35p)>.

One Click Call from the Call Log

- While browsing your **CallLog**, select the destination you want to call and press '**ENT**'.

    NOTE. For detailed call process, refer to <CallLog (39p)>.

Receiving a Call

If an incoming call is arrived, videophone begins ringing and the following animation is shown on the LCD screen.

A. Picking up handset

Pick up your handset as usual.

B. Answering a call in Speakerphone mode

Press '**SPEAKER'**, in which case you get into the speakerphone mode.

NOTE. CID function of IP videophone enables you to identify caller's phone number.

Dropping a Call

To disconnect a call, hang up your handset.

If you are in speakerphone mode and the handset has already put on the phone, press **'SPEAKER'**.

NOTE. Your call data is stored in **CallLog**. However, the numbers pressed within 10 seconds after dialing may be stored.

Useful Functions during a Call

You can use the following useful function in PSTN mode.

Volume Control

You can control volume by pressing ▲ ▼ during a call. The volume value icon is shown at the bottom of LCD screen.

4. User Configuration

Using Keypad in User Configuration

Numeric key	• Used for character input
1aA	• Enables you to select the type of characters in entering characters (Numeric/Lowercase/Capital)
TAB	• Allows you to move among the URL links and URL input window on the browser screen.
	• Enables you to go to the View menu for e-mail
	• Enables you to go to the View menu for auto answering list
EXIT	• Allows you to return the previous menu
ENT	• Enables you to go to Edit mode or to set an appropriate value of each item
Arrow Key	• Used for menu change
	• Enables you to go to Edit mode or to set an appropriate value of each item

How to Enter a Character

Press '**1aA**' to choose the input mode (Numeric/Lowercase/Capital) you want to use. The current input type is indicated on right top of LCD screen.

Key \ Mode	English		Numeric
	Small	Capital	
1	: @ /	: @ /	1
2	abc	ABC	2
3	def	DEF	3
4	ghi	GHI	4
5	jkl	JKL	5
6	mno	MNO	6
7	pqrs	PQRS	7

	tuv	TUV	8
8	tuv	TUV	8
9	wxyz	WXYZ	9
0	- ._	- ._	0
✳	*	*	*
#	#	#	. #

① Numeric input

Example : In case of entering "123"

• Press '**1aA**' to set input mode to ①.

• Press ①, ②, ③ successively.

② English input

Example : In case of entering "SKY"

• Press '**1aA**' to set input mode to Ⓐ.

• Press 'S', 'K', 'Y' successively. (7,7,7,7 ->5,5 ->9,9,9,)

③ Mixed input

Example : In case of entering "123.com"

• Press '**1aA**' to set input mode to ①.

• Press ①, ②, ③ successively.

• Enter '.'. (#)

• Press '**1aA**' to set input mode to Ⓐ.

• Press 'c', 'o', 'm' successively.(2,2,2,6,6,6, ▶, 6)

Main Menu

During power off, or in dialing mode (when there is no any input number), press '**ENT**' to display the User Configuration main menu. The main menu consists of five submenus: **PhoneBook**, **CallLog**, **Internet**, **UserSet**, **IP**.

You can change among menus (PhoneBook → CallLog → Internet → UserSet → IP (or reversely) using ►◄. Press '**ENT**' to go into configuration mode of the current main menu.

To finish the User Configuration menu, press 'EXIT'.

PhoneBook	• Provides user-specific phone number. • Enables you to search the registered phone number by name, short number or phone number. • You can make a call at the registered phone number.
CallLog	• Allows you to check the recent phone numbers made/received. • Enables you to check an absent message recorded in ARS (Auto Response System). • You can make a call directly at the numbers recorded in call log.
Internet	• You can search cHTML website. • Allows you to write/read e-mails. • You can set up your e-mail account.
UserSet	• Sets bell types and volume. • Sets ARS. • Sets an option during a call. • Sets audio/video input path. • Sets system time. • Sets whether to use Setting Wizard when system booting up. • Upgrades software version. • Initializes a system.
IP	• Sets the network configuration. • Sets DNS address. • Sets Internet Telephony Service options

	H.323 – server address, H.323 ID, phone number(E.164), password. SIP – user information, server(proxy/registrar) information. • Sets Internet Sharing function. • Shows IP information registered with IP videophone and the current network connection status.

PhoneBook

PhoneBook enables you to save the frequently used phone numbers and make direct phone call while you search the menu. An IP Videophone may store up to 100 items, and store the phone numbers of 'Internet', 'Mobile' and 'Public' in each item.
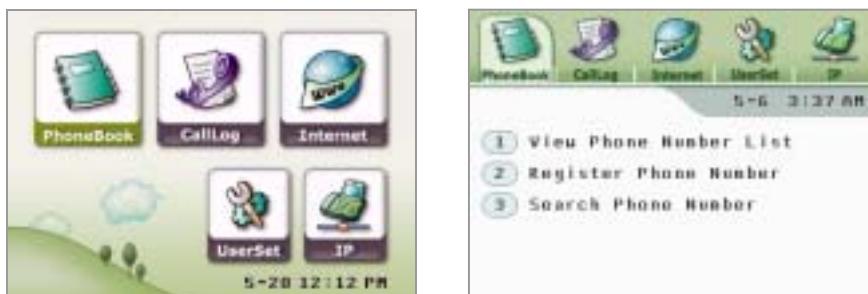
Use ◀ , ▶ to select **PhoneBook** menu and press '**ENT**' to start **PhoneBook** function.

NOTE. SIP Videophone may store up to 70 items.

View phone number list

• In **PhoneBook**, use ▲▼ to select **View Phone Number List**, and press ▶◀ or '**ENT**' (or press 1) to display all the numbers registered in the PhoneBook.

NOTE. View Phone Number List is performed only when

the numbers are in the PhoneBook.

• You can select an item with ▲▼. The selected item becomes to be in bluish green, and the
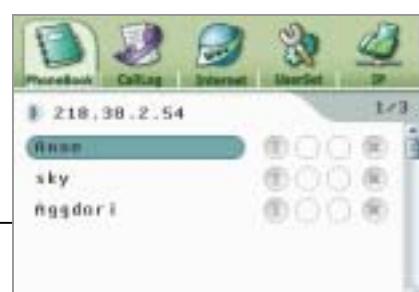
representative number is displayed on the top of the list.

• If you press '**ENT**' as the item list is selected, the window on which you can modify the item is displayed as in the right figure. You can move between the items with ▲▼, and after modifying each item, click 'Modify' to save the modification.

• Press ▶◀ as the item is selected to move to the icon that indicates the phone number of each type. 🔵 indicates Internet phone and 🔵 and 🔵 indicate mobile phone and public phone. On the top of the list, the phone number of the selected type is displayed. 🔴 deletes the selected item.

Calling from PhoneBook to Internet

*If you press '**ENT**' as the Internet phone icon (🔵) is selected, you can make a call in the Internet call mode and talk through the speaker phone. If you want to talk though the handset, pick up the handset.*

Calling from PhoneBook to Public Phone

*If you press '**ENT**' as the public phone icon (🔵,🔵) is selected, you can make a call in the public call mode and talk through the speaker phone. If you want to talk though the handset, pick up the handset.*

Deleting a number from PhoneBook

*If you press '**ENT**' as the delete icon (🔴) is selected, a message 'Do you really wish to delete?" is displayed. If you select 'YES' with ▶◀ and press '**ENT**', the selected item is deleted and a new phone number list is displayed.*

Making an entry

• In **PhoneBook**, use ▲▼ to select **Register Phone Number**, and press ►◄ or '**ENT**' (or press). The phone number entry window is displayed, and the available items are displayed in sky blue.

NOTE. If 100 items are registered in the **PhoneBook,** you cannot perform registration of phone numbers.
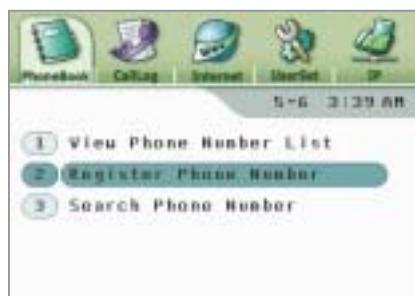
• After entering the 'Name', press ▼ to select 'Phone Type". Select the phone type with ►◄ (Internet phone / mobile phone / public phone)

• To enter the 'Phone Num.', press ▼.

• In order to set 'Speed Dial' for the number, press ▼.

• You can set the representative number after entering the 'Speed Dial'. Press ▼ to move to 'Rep.Num' field, and set the 'Rep.Num' with ►◄. (Internet Phone / Mobile Phone / Public Phone)

• After finish entering data, move the cursor with ▲▼ to 'Register'. The message "Registered" appears on the screen, and then, the upper menu is displayed.

• Click **'EXIT'** if you want to stop entering data or to move to the previous menu.

NOTE. If you make a call to a speed dial number, the phone originates a call to the representative of the speed dial number.

NOTE. If you select the speed number that is already in use, when you enter the 'Register' button, the error message 'Speed dial number in use. Enter, again.' is displayed.

Searching phone number

You can search the numbers that meet the search conditions. The conditions used in searching the phone number include name, phone number and

speed dial number. The phone numbers that meet the conditions are displayed in the list in the order of registration.

• In **PhoneBook**, select **Search Phone Number** with ▲▼, press ►◄ or '**ENT**' (or $3_{\text{↓}}$) .

• In order to enter conditions, move the cursor to 'Method', and select the conditions (Name/Phone number/Speed dial number).

• In order to enter name or number, move the cursor with ▲▼ to the condition entry window.

• In order to start search, move the cursor to 'Search' with ▲▼, and press ' **ENT**'.

• The number of items that match with the conditions and the list are displayed on the window. Actions in

the list of search result are the same with **View Phone Number List**.

• In order to stop entering or to return to the previous menu, press '**EXT**'.

NOTE. When searching a phone number with 'Name', all the partially matching names are found.

NOTE. When searching a phone number with 'Phone Num.', the window displays the matching phone number.

NOTE. When searching a phone number with 'Speed Dial', any item that is bigger than the entered speed dialing number is searched.

CallLog

The phone numbers of the recent calls are listed in CallLog. The IP Videophone has up to 10 calls in Sent Call, Received Call and Absent Call respectively. You can also read the auto answering message.
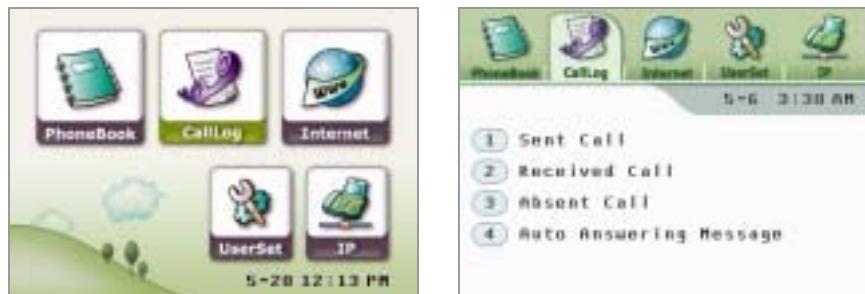
Use ►◄ to select **CallLog** menu and press '**ENT**'.

Sent Call

• Select **Sent Call** by using ▲▼. Pressing ►◄ or '**ENT**' brings the call lists made recently. (Or press 1 ↕.)

• In order to see the detailed information of each entry, press ►◄. Then you can check the name, the phone number and the time.

• Press '**EXIT**' to exit the menu and return to the previous menu.

Calling from the Set Call list

Select the number with ▲▼. You can make a call and talk through the speaker phone. If you want to talk though the handset, pick up the handset.

NOTE. You can also make a call by pressing and holding the index. For example, if 1234567 is in Index 7, press and hold 7 to make a call.

Received Call

• Select **Received Call** by using ▲▼. Pressing ▶◀ or '**ENT**' brings the call lists received recently. (Or press 2 .)

• In order to see the detailed information of each entry, press ▶◀. Then you can check the name, the phone number and the time.

• Press '**EXIT**' to exit the menu and return to the previous menu.

Calling from the Received Call list

Select the number with ▲▼. You can make a call and talk through the speaker phone. If you want to talk though the handset, pick up the handset.

NOTE. You can also make a call by pressing and holding the index. For example, if 1234567 is in Index 7, press and hold 7 to make a call.

Absent Call

• Select **Absent Call** by using ▲▼. Pressing ▶◀ or '**ENT**' brings the call lists made recently. (Or press 3 .)

• In order to see the detailed information of each entry, press ▶◀. Then you can check the name, the phone number and the time.

• Press '**EXIT**' to exit the menu and return to the previous menu.
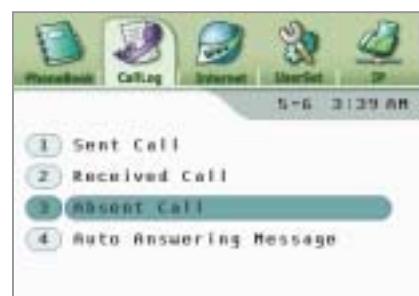
Calling from the Absent Call list

Select the number with ▲▼. You can make a call and talk through the speaker phone. If you want to talk though the handset, pick up the handset.

NOTE. You can also make a call by pressing and holding the index. For example, if 1234567 is in Index 7, press and hold [7 :] to make a call.

Saving a CallLog entry

• In the detailed call log entry menu, you can add it into the **PhoneBook**.

• Select 'Save', using ►◄, and press '**ENT**'.

• In the **Register Phone Number** window, modify the items.

• Use ▲▼ to select 'Modify', and press '**ENT**' to register the modification in the PhoneBook.

NOTE. If the phone number has been already stored in **PhoneBook**, "There is the same name or phone number. Do you wish to modify?" will be displayed. In case you select 'YES', the **Register Phone Number** menu is displayed.
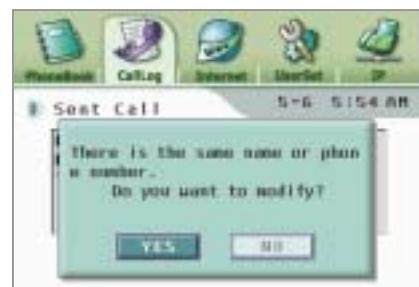
NOTE. In case that there is no room in **PhoneBook**, "There is no room to save in phone book." will be displayed.

Deleting a CallLog entry

• In the detailed call log entry menu, you can delete it from the CallLog.

• Select 'Delete' with ►◄, and press '**ENT**'.

• After the message box with "Deleting…" is appeared, the updated call log will be displayed.

Checking auto answer message

In Auto Answer mode, the IP Videophone saves the message of the called party. You can check the auto answer message as below.

• Select **Auto Answering Message** with ▲▼. Pressing ►◄ or '**ENT**' brings the auto answer message lists. (Or press ④.)

Type	• Media type of the auto answer message. **A** : Voice only, **V** : Video only **A+V** : Voice and Video together
Time/Date	• Date and time of the received auto answer message.
Phone Num.	• Phone number of the called party.
Del. All	• Delete all the auto answer messages in the list.
Prev, Next	• Display previous or next page of the list.
Del	• Delete the selected auto answer message.
Play	• Play the selected auto answer message.

• The number by 🔊 on the upper right of the window indicates the total number of auto answer messages.

• Use ►◄ to move the cursor between the menus.

• Use ▲▼ to select an auto answer message. The selected auto answer message becomes in bluish green.

• Press '**EXIT**' to go back to the previous menu.

NOTE If no auto answer message is stored, the "No Saved Auto Answering" message is displayed.

Retrieving auto answer message

• Select an auto answer message with ▲▼ and press '**ENT**', or select 'Play' with ▶◀ and press '**ENT'**.

• If both video and voice are saved, the video is displayed in the center of the window while the voice is heard. If the voice is received without video, the video screen remains black while the voice is heard.

• You can use the following menus while retrieving auto answer messages.

1: Review	• The auto answer message is played from the first. • You can also press 1 to play the message.
2: Pause	• Stop playing the message. • You can also press 2 to stop playing.
3: Del	• Delete the auto answer message and display the auto answer message list. • You can also press 3 to delete a message.
4: Exit	• Return to the auto answer message list. • You can also press 4 to exit the menu.

Internet (Optional)

The cHTML web browser and mail client are embedded in the videophone. You can access the web with the cHTML browser, and can read and send mails with the mail client.

For the detailed instruction, refer to the <5. Using Browser (58p)> and <6. Mail Services(63p)>

UserSet

You can choose the User Configuration to your preference. The settings are a Bell option, Auto Answering options, a Time/Date setup, a Video/Audio Input path option, a wizard setup, software upgrade and download, and a system initialization.

In the PIMS menu, select **UserSet** with ▶◀, and press '**ENT**'.

Bell		• Select the type of bell. • Select the volume of bell.
Auto Answering		• Set the auto answering mode • Set the password for monitoring.
Call Setup		• Set up the call bandwidth. • Set up the mute detection function. • Set the video transmission function. • Set the size of the video to be transmitted. • Set the rate of movement of video to be transmitted.
Miscellaneous	A/V Input Path	• Select the video input path. • Select the audio input path.
	Time/Date	• Set the network time server. • Determine whether to use the summer time, and select the standard time.
	Wizard	• Determine whether to use Wizard for network setup at system booting.
System Setting	Version /Upgrade	• Check the latest version of the software from the server. • Download the new software.
	System Init.	• Initialize the system information.

Bell setting

• Use ▲▼ to select **Bell** in the **UserSet** menu and press ►◄ or '**ENT**'.(Or just press ⬛.)

• In 'Bell', select one among 4 different kinds of ringing sounds by using ►◄. Move down to 'Volume' with ▼ or '**ENT**'.

• Select the volume of the ringing sound in 'Volume' by using ►◄. The volume can be one of 5 levels.

• Press '**EXIT**' to exit the menu or go back to the upper menu.

 NOTE. In case that the volume is set as '0', no ringing sound is played.

Auto answering mode

• Use ▲▼ to select **Auto Answering** in the **UserSet** menu and press ►◄ or '**ENT**'. (Or just press ⬛.)

• If you want to turn on the auto answering mode, set 'ON' in 'On/Off' with ►◄ and move down to 'Auto Ans.' with ▼ or '**ENT**'. Otherwise, select 'OFF' for 'On/Off' field.

• In 'Auto Ans.', select the ringing count using ►◄ or input the number between 0 and 5. Move down to 'Password' with ▼ or '**ENT**'.

• 'Password' is required to set up the monitoring function for the auto answering mode. Enter 4 digits of password. "Enter, again" is displayed to confirm
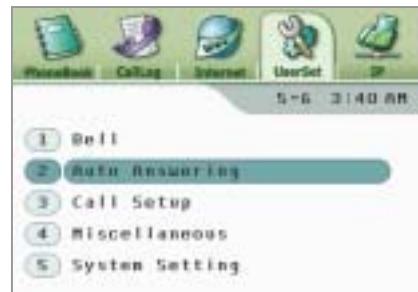
the password. If the two passwords are matched, "Saved" is displayed.

• Press 'EXIT' to exit the menu or go back to the upper menu.

NOTE. 'If 'On/Off' set 'OFF', the 'Auto Ans.' field and 'Password' will be deactivated.

NOTE. If Bell of 'Auto Ans.' is set to 0, the monitoring function is activated automatically. 'Password' is meaningful only when the monitoring function is on.

NOTE. If the second password is not matched with the first password, then 'Incorrect !' message will be displayed.

NOTE. If the auto answering function is on, the REGISTER lamp on the phone blinks.

Call setup

Set up the options to be applied to IP video call.

• Use ▲▼ to select Call Setup in the UserSet menu and press ►◄ or 'ENT'.(Or just press 3.)

• In 'Bandwidth', select the value with ►◄ (128,192,256,352,512,752 Kbps). This bandwidth is applied to both voice and video data transmission. To move to 'VAD' use ▼ or 'ENT'.

• The mute detection function detects the mute section during the call, and stops transmitting the voice data to the other party. Use ►◄ to select On or Off. To move to 'Video E/D', use ▼ or 'ENT'.

• Set 'ON' or 'OFF' of Video transmission with ►◄. If it is set to Off, no video can be transmitted/received during a call, and 'Video Size' and 'Video Rate' are disabled. If 'Video E/D' is set to 'YES', use ▼ or '**ENT**' to move to 'Video Size'.
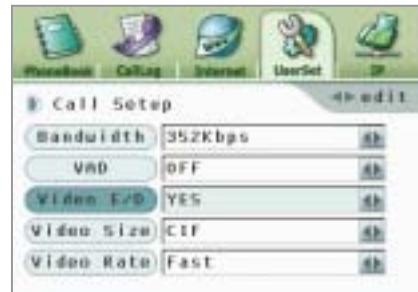
• In 'Video Size', select the video size with ►◄. Video size is either QCIF or CIF. QCIF is the small sized screen and CIF is the large sized screen. Use ▼ or '**ENT**' to move to 'Video Rate'.

• In 'Video Rate' select the video rate with ►◄. In 'Video Rate' you can select the speed of movement; Fast/Normal/Slow. Press ▲▼ or '**ENT**' to save the setting.

• Press '**EXIT**' to exit the menu or go back to the upper menu.

NOTE. The faster the video rate, the picture quality becomes coarser. On the contrary, the slower the video rate, the picture quality becomes finer.

A/V Input Path Setting

• Use ▲▼ to select **Miscellaneous** in the **UserSet** menu and press ►◄ or '**ENT**'. (Or just press ④.)

• Press ▲▼ to select **A/V Input Path** in the **Miscellaneous** and press ►◄ or '**ENT**'. (Or just press ①.)

• In 'Video In', use ►◄ to select internal camera (Internal) or external camera (External). Use ▼ or '**ENT**' to move to 'Audio In'.

• In 'Audio In', use ►◄ to select internal audio system (Internal) or external audio system (External).

• Press '**EXIT**' to exit the menu or go back to the upper menu.
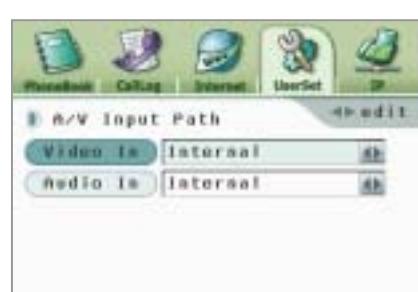
Time/Date Setting

The IP Videophone receives the current time from the Internet time server. In this menu, you can set the options to be applied to the time of the Internet time server.

• Use ▲▼ to select **Miscellaneous** in the **UserSet**

menu and press ▶◀ or '**ENT**'. (Or just press ④.)

• Press ▲▼ to select **Time/Date** in the **Miscellaneous** and press ▶◀ or '**ENT**'. (Or just press ②.)
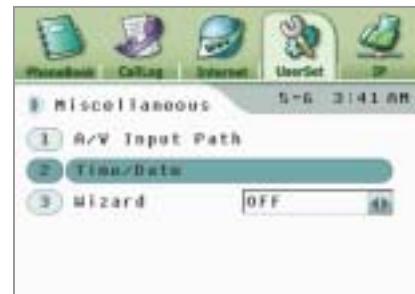
• In 'D.S.T', use ▶◀ to select whether to apply the summer time. Use ▼ or '**ENT**' to move to 'G.M.T'.

• In 'G.M.T', use ▶◀ to select the standard time of the zone where the IP Videophone is installed.

• In 'Server1', enter the address of the network time server. The IP Videophone has the default network time server information. You can designate the time server to which the IP Videophone will access. Use ▼ or '**ENT**' to move to 'Server2' if you want to enter another time server.

• Press '**EXIT**' to exit the menu or go back to the upper menu.

NOTE. You can enter IP or domain name of the time server.

NOTE. If 'Server1' and 'Server2' are left blank, the IP Videophone receives time information from the default time server.

Wizard Setting

The IP Videophone provides the wizard menu for network setting when the system is rebooted.

• Use ▲▼ to select **Miscellaneous** in the **UserSet** menu and press ▶◀ or '**ENT**'. (Or just press ④.)

• Press ▲▼ to select **Wizard** in the **Miscellaneous** and press ▶◀ or '**ENT**'. (Or just press ③.)

• Use ▶◀ to selected 'ON'/'OFF' of wizard function.

• Press '**EXIT**' to exit the menu or go back to the upper menu.

> **NOTE.** If the Wizard is set to 'ON', the wizard menu is started when the system is rebooted. Once the wizard function is used, it is automatically set to 'OFF'.

Program Version/Upgrade

> **NOTE.** For details of software upgrade, refer to <7. Software Upgrading (70 p)>.

System Init.

• Use ▲▼ to select **System Setting** in the **UserSet** menu and press ▶◀ or '**ENT**'. (Or just press ⑤.)

• Press ▲▼ to select **System Init.** in the **System Setting** and press ▶◀ or '**ENT**'. (Or just press ②.)

• Enter the password, and press '**ENT**'.

• If the password is correct, the "System is being initialized" is displayed. If the password is incorrect the "Incorrect password. Enter, again." is displayed.

• Press '**EXIT**' to exit the menu or go back to the upper menu.

NOTE. Initializing the system will initialize the system information.

IP

In User Configuration main menu, use ▶◀ to select **IP** menu and press '**ENT**'.

Default	Basic network configuration required to connect the IP Videophone to Internet. • Select the Internet access method (LAN with stationary IP, LAN with dynamic IP, and ADSL)
Advanced	Set the additional information for connection to Internet. • Set the secondary DNS address.
Internet Phone	Set the information required for registration to Internet phone service. • Set the server address. • Set the H.323 ID and E.164 formatted phone number for registration of the phone to the Internet phone service.(H.323) • Set the information of server (Proxy/Registrar). (SIP) • Set the password for authentication to the Internet phone service. • Set the emergency server. • Set the prefix for connection to the Internet phone service.

Internet Sharing	• Select whether to use the Internet sharing function. • Set the external Internet sharer information. • Set the Internet sharing information in the IP Videophone.
View Internet Status	In this menu, the current IP configuration of videophone is shown – IP address, Subnet mask, Gateway address, DNS address, MAC address.

NOTE. This menu necessary to use the videophone.

Default Internet Configuration

• Use ▲▼ to select **Default** in the **IP** menu and press ►◄ or '**ENT**'. (Or just press 1.)

• In 'Type', using ►◄, select the Internet access type to be used in IP Videophone ; Static IP, Dynamic IP and ADSL. If the type is set to 'LAN(Static IP)', you may go to sub-items with ▼.

⌐ LAN(Static IP) ¬

In 'Type', use ▲▼ to select IP Addr', 'Sub. Mask', 'Gateway', 'DNS Addr', and set the values.
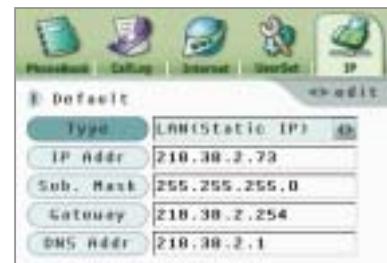
⌐ LAN(Dynamic IP) ¬

The phone, using DHCP, is assigned with IP Addr', 'Sub. Mask', 'Gateway', 'DNS Addr' dynamically from the server.

⌐ ADSL ¬

In 'Type', use ▲▼ to move to 'ID', 'Password', 'Service PPPoE'

NOTE. If authentication is required, enter the service name in the 'PPPoE' field.

• Press '**EXIT**' to exit the menu or go back to the upper menu. If the IP setting is changed, the message in the right is displayed. If you want to change IP configuration, click 'YES' and press '**ENT**'.

> IP setting has been reconfigur
> ed
> Do you want to apply new setti
> ngs?
>
> YES   NO
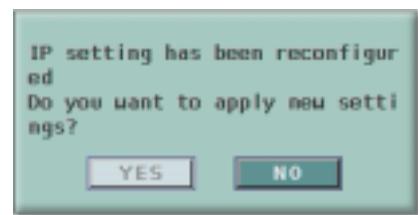
NOTE. If the access type is changed, reboot the system to apply new IP information.

NOTE. Most of the sites to be visited on Internet are expressed in the domain names. In order to access to those sites successfully, the domain name should be resolved by the DNS server. For this, you have to input IP address of the DNS server in this menu. If you are connected to the ADSL, Cable Network or LAN with dynamic IP, the DNS address will be given by the server.

Advanced Internet Configuration

> PhoneBook CallLog Internet UserSet IP
>
> 5-6 3:42 AM
>
> ① Default
> ② Advanced
> ③ Internet Phone
> ④ Internet Sharing
> ⑤ View Internet Status

• Use ▲▼ to select **Advanced** in the **IP** menu and press ►◄ or '**ENT**'. (Or just press 2 .)

• In 'DNS Addr', enter IP address of the DNS server to be used in emergency.

• Press '**EXIT**' to exit the menu or go back to the upper menu. If the IP setting is changed, the message in the right is displayed. If you want to change IP configuration, click 'YES' and press '**ENT**'.

> PhoneBook CallLog Internet UserSet IP
>
> ▌ Advanced   1
>
> DNS Addr 211.23.11.0

NOTE The secondary DNS is used when the main DNS server is in defect.

> IP setting has been reconfigur
> ed
> Do you want to apply new setti
> ngs?
>
> YES   NO
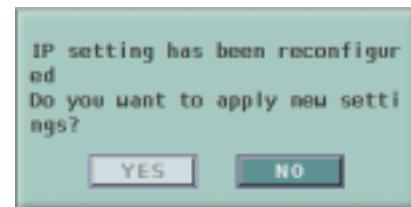
Internet Phone Configuration (H.323)

• Use ▲▼ to select **Internet Phone** in the **IP** menu and press ►◄ or '**ENT**'. (Or just press 3 .)

• In 'G.K Addr1' enter the server address of the Internet phone service provider's network. To move to 'H.323 ID', press ▼ or '**ENT**'.

• In 'H.323 ID', set H.323 ID to be used in authentication for access to Internet phone service. Press ▼ or '**ENT**' to move to 'E.164'.

• In 'E.164', enter the phone number to be used in authentication for access to Internet phone service. Press ▼ or '**ENT**' to move to 'Password'.

• In 'Password', enter the password to be used in authentication for access to Internet phone service. Press ▼ or '**ENT**' to move to 'G.K Addr2'. '

• In 'G.K Addr2', enter the address of the server to which the phone is to access when the Internet phone service network server is abnormal. Press ▼ or '**ENT**' to move to 'Area Code'.

• In 'Area Code', enter the prefix to be used in access to the Internet phone service network.

• Press '**EXIT**' to exit the menu or go back to the upper menu. If the IP setting is changed, the message in the right is displayed. If you want to change IP configuration, click 'YES' and press '**ENT**'.

NOTE. All the items must have the values given by the service provider when the phone is registered to the Internet phone service. If any of the item is not received from the service provider, it must be left blank.

NOTE. If the IP Videophone is successfully registered to the Internet phone service, the **REGISTER** lamp is on.
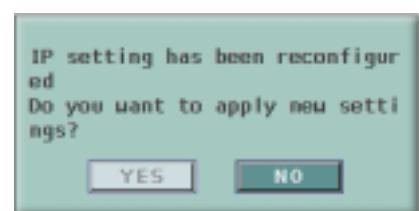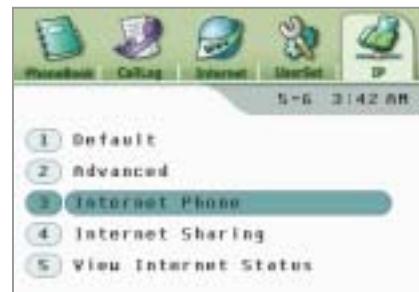
Internet Phone Configuration (SIP)

You must set the basic user information for SIP call. If the phone is subscribed to the Internet phone service, the server information must be set up.
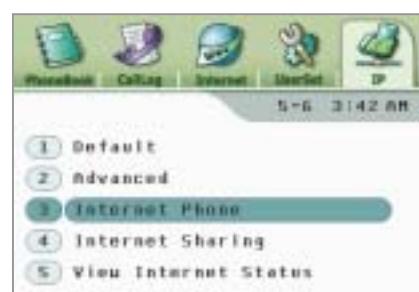
User Information

• Use ▲▼ to select **Internet Phone** in the **IP** menu and press ►◄ or '**ENT**'. (Or just press ③.)

• In order to enter user information, select **User Information** with ▲▼ in **Internet Phone**, and press ►◄ or '**ENT**'. (Or just press ①.)

• In 'User Name', enter user ID. Press ▼ or '**ENT**' to move to Password.

• In 'Password', set the password used for authentication for access to Internet phone server. The password is displayed as '*'. Press ▼ or '**ENT**' to move to Password 'Address'.

• In 'Address', enter domain name or IP address of SIP used for access to Internet phone service. Press ▼ or '**ENT**' to move to 'Auth. ID'.

• In 'Auth. ID', enter authentication id used for access to Internet phone service. Press ▼ or '**ENT**' to move to 'Realm'.

• In 'Realm', show the realm information given by Internet phone server.

• Press '**EXIT**' to exit the menu or go back to the upper menu. If the IP setting is changed, the following message box is displayed.
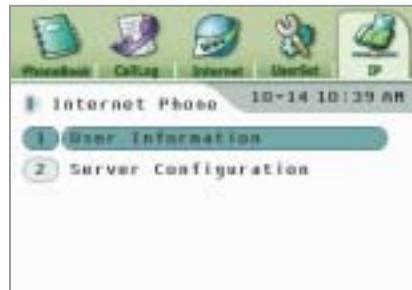
NOTE. You must enter 'User Name' and 'Address' for SIP call.

NOTE. All the items must have the values given by the service provider when the phone is registered to the Internet phone service. If any of the item is not received from the service provider, it must be left blank.

Server Configuration

• Use ▲▼ to select **Internet Phone** in the **IP** menu and press ►◄ or '**ENT**'. (Or just press ③.)

• In order to enter server information, select **Server Configuration** with ▲▼ in **Internet Phone**, and press ►◄ or '**ENT**'. (Or just press 2.)

• Use ►◄ to select the type of server to be used in SIP. (Proxy/Registrar) Press ▼ or '**ENT**' to move to 'Address'.

• In 'Address', enter IP address or domain name of the Internet phone service. Press ▼ or '**ENT**' to move to 'Port'.

• In 'Port', enter the port number of the Internet phone server.

• Press '**EXIT**' to exit the menu or go back to the upper menu. If the IP setting is changed, the following message box is displayed. If the IP setting is changed, click 'YES' and press '**ENT**'.
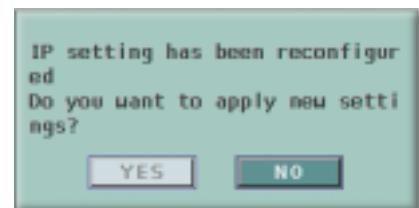
NOTE. All the items must have the values given by the service provider when the phone is registered to the Internet phone service. If any of the item is not received from the service provider, it must be left blank.

NOTE. If the IP Videophone is successfully registered to the Internet phone service, the **REGISTER** lamp is on.

Internet Sharing Configuration

• Use ▲▼ to select **Internet Sharing** in the **IP** menu and press ►◄ or '**ENT**'. (Or just press 4.)

• In 'Type' use ►◄ to set the sharer type to be used in IP Videophone. You can select 'OFF' (No Internet sharer is used.), 'External NAT' (external sharer) or 'Internal NAT' (Internal Internet sharer). If you select 'External NAT' or 'Internal NAT', press ▼ to set the sub-item.

 External NAT

In 'Type', press ▲▼ to go to 'Global IP', and set the external sharer IP address. Refer to <Connecting IP Videophone in the Private Network (73p)> for details.
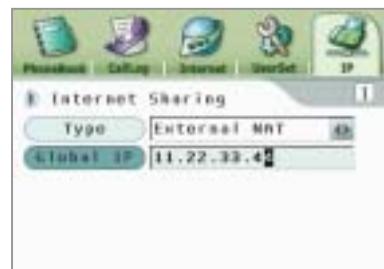
 Internal NAT

In 'Type', press ▲▼ to go to 'Host IP', and set the external sharer IP address. Refer to <Using 'Share' function embedded in IP videophone (76 p)> for details.
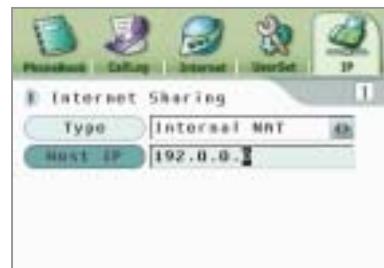
• Press '**EXIT**' to exit the menu or go back to the upper menu. If the IP setting is changed, the following message box is displayed. If you want to change IP configuration, click 'YES' and press '**ENT**'
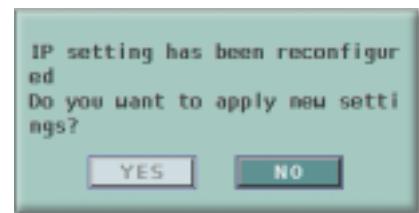
NOTE If the sharer type is changed, you must reboot the system.

View Internet Status

• Use ▲▼ to select **View Internet Status** in the **IP** menu and press ►◄ or '**ENT**'. (Or just press 5.)

• The window shows IP address, Subnet Mask, Gateway, DNS address and MAC address.

• Press '**EXIT**' to exit the menu or go back to the upper menu.

NOTE. In case that the DNS server or the gate way router doesn't respond to the ping request of the IP videophone, it may be represented as disc onnected from Internet even though the IP video
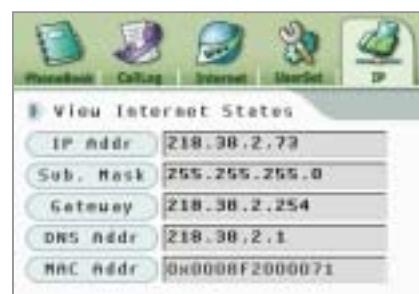
phone works correctly.

5. Using Browser (Optional)

Getting Started

- Move to **Internet** menu from Personal Information Setting menu using   .

- Press '**ENT**' in **Internet** menu, and select **Brower** using ▲▼, and then press '**ENT**'.
  (or press 1 .)

- Type URL directly or connect to Web page using **Bookmark** that is already saved.
  If you get information on how to type URL, refer to <Type URL (59p)>.
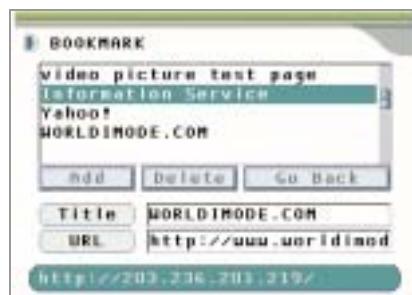
Keypads in a Web Browser

The followings are keypads used in a web browser.

Number key	• Enables you to enter numbers.
1aA	• Enables you to change character input mode in order of Numeric, Lowercase, Capital.
TAB	• Provides a shortcut for moving between items that you can select or input in a web browser.
EXIT	• Enables you to exit a web browser and go to **Internet** menu.
ENT	• Enables you to execute the selected item.
Arrow Keys	• – Enable you to scroll up/down if a web page exceeds one screen.
	• - Enable you to scroll to the left/right if the size of web page exceeds one screen .

Type URL

If you open a web page, enter the address in a following procedure.

- Press **'TAB'** and go to 'URL' input window.
- Press **'1aA'** and change to Numeric or English mode.
- Enter a web page address.

Ex) www.vizufon.com

9 -> -> 9 -> -> 9 -> 0 0 -> 8 8 8 -> 4 4 4

w   **w**   **w**   **.**   **v**   **i**

-> 9 9 9 9 -> 8 8 ->…

    z   **u**
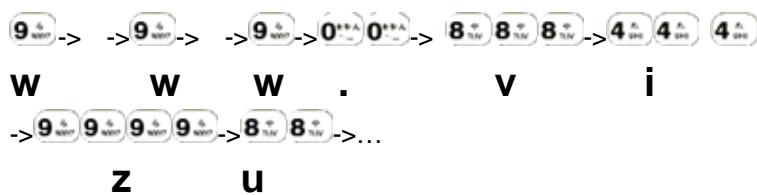
- Press **'ENT'** to move.

View Browsers

If you are successfully connected to the site that corresponds to the URL, the web page

appears as shown below.

- If you press **'TAB'**, you can skip between icons, URL windows and links on a page.

- If you move to ⬅ and press '**ENT'**, you can go to the previous page. If current page is the site you visited first after executing browser, you cannot go to ⬅.

- If you move to ➡ and press **'ENT'**, you can go to the next page. If current page is your latest site after executing the browser, you cannot go to ➡.

- If you move to 🏠 and press **'ENT'**, you can go to Bookmark screen.

- If you move to URL window using **'TAB'** key, you can directly type URL of the corresponding site. For information on how to type URL, refer to <Type URL (60p)>.

- If you move to links on a web page using **'TAB'** and press **'ENT'**, you can go to the appropriate web page. If any number is attached to the link, enter the number directly and move to the page to which the appropriate link refers.

- If a web page is bigger than IP videophone screen, scroll to the left/right using or scroll up/down using ▲▼.

NOTE. IP videophone browser supports a compatible HTML. Thus, it correctly displays web pages made in a compatible HTML. Simplified general web pages can be shown and some of them are not correct.

Using Bookmark

Move to Bookmark as follows:

- Press **'TAB'** to select .
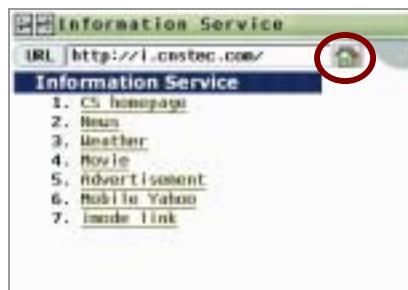
- Press **'ENT'** and move to **Bookmark** menu.
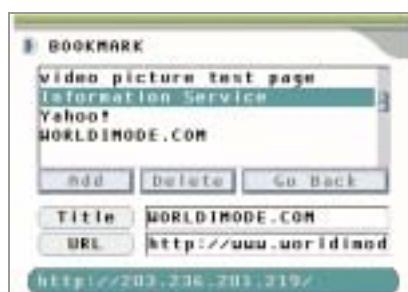
① Move to Bookmark

- Select your target web page using   if you want to move. Then, the URL that corresponds to currently selected item appears on the status bar of **Bookmark**.
- Press **'ENT'** to move to the selected web page.

② Add Bookmark

- In 'Title'/URL' columns on a **Bookmark** page, there appears title and address of the web page you will add.
- If you change the information, press **'TAB'** and move to 'Title'/'URL' input window.
- Select 'Add' using **'TAB'** and press '**ENT'** to save.
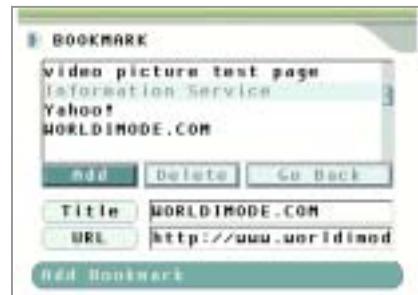
NOTE. Web browser's bookmark feature lets you store up to 5 addresses.

③ Delete Bookmark

- Move to Bookmark List using **'TAB'**.
- Use   to select target web pages you will delete. The bookmarked URLs appear on the status bar of **Bookmark.**
- Press **'TAB',** and move to 'Delete' using ►◄ if focused on 'Add'.
- If you press **'ENT'**, the web page is deleted from Bookmark List.

6. Mail Services (Optional)

Setting Mail User Configuration

Mail of **Internet** menu supports POP3 and SMTP protocols. **Mail Configuration** is a menu that sets POP3 server address, SMTP server address and mail ID information required for mail function and saves up to 5 IDs in IP videophones.

• Select **Mail Configuration** from **Internet** menu using ▲▼, and press ▶◀ or '**ENT**'. (or press 3.)

• Press ▶◀ or '**ENT**' at a target position using ▲▼. If you want to enter NO. 1 vizufon@vizufon.com, for example, press '**ENT'** when NO. 1 is highlighted, and then you can enter POP3 server address, SMTP server address and ID. (or press 1.)

• Enter POP3 server address to receive mails at 'POP3'. You can move to 'SMTP' menu by clicking on ▼.

• Enter SMTP server address to send mails at 'SMTP'. You can move to 'ID' menu by clicking on ▼.

• Type mail ID in 'ID' menu. You can go to 'Reply Addr' by clicking on ▼.

• Enter such an email address as to be received in 'Reply Addr'. At this time, make sure you enter both ID and SMTP address to be received. If the reply address is reply@vizufon.com, in other words, enter complete address in 'Reply Addr' menu. You can go to 'Notice' by clicking on ▼.

• If a new mail arrives at the appropriate ID in

'Notice', select whether to use 'Notice' function using ►◄.

• If you want to stop typing or move to previous menu, press '**EXIT'**.

NOTE. Values entered in 'Reply Addr' are automatically inserted to receiver's address when performing 'Reply' of 'Reading Mail' menu. If 'Reply Addr' remains blank, write Reply Address referring to values entered in SMTP.

NOTE. If you select Mail Notice function, 🖼 appears on GUI main screen when a new mail arrives at the appropriate mail account.

Logging into the Mail Server

• Select **Mail** from **Internet** menu using ▲▼, and press ►◄ or '**ENT**'. (or press 2.)

• If you press ►◄ or '**ENT**' in 'ID', the entered ID list is shown in **Mail Configuration**. Select the desired mail ID using ▲▼ and press '**ENT**'. If you want to move to 'Password', press ▼.

• Enter password at 'Password' item and move to 'Saving Pwd' by clicking on ▼.

• Decide if you will save password typed in 'Password' in 'Saving Pwd' using ►◄. If you want to move to 'Reading Mail', click on ▼.
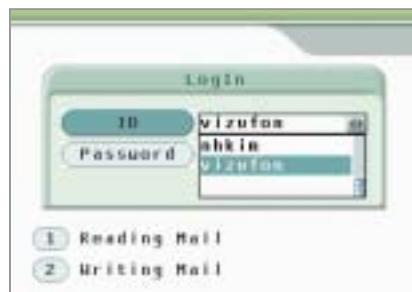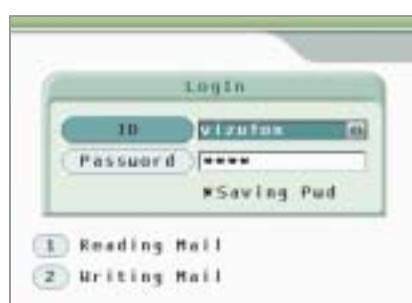
  NOTE If you save password, you need not enter password again to access to the server later.

• If you want to stop typing or move to previous menu, click on '**EXIT**'.

NOTE. Mails in mail server are maintained even after you checked them.

Reading Mail

NOTE. Mail function is available only if POP3, SMTP and ID information are configured in **Mail Configuration**.

View Mail List

• Select **Reading Mail** from **LogIn** using ▲▼, and press ►◄ or '**ENT**'.

TITLE	• The title of mail.
FROM	• Sender's mail address.
DATE	• Date when mail is delivered.
Del.All	• Move to menu for deleting all the mails.
Prev, Next	• Read previous/next list of current mail by pages.
Go	• Read designated mails directly from total mails.

• If you press '**ENT'** in 'Prev' or 'Next' using ►◄, you can see previous/next list of current mails by pages.

• Move from mail to mail using ▲▼.

• Move between mail lists and menus using '**TAB**' key.

• The number next to 📧 on the right top means total number of mails.

• If you want to move to previous menu, press '**EXIT**'.

NOTE If there are no previous or next page lists, a message window "There is no desired information" appears when you press 'Prev' or 'Next'.

View Mail

• Select your mail item from **Mail List** using ▲▼, and press '**ENT**' or enter the number of appropriate mail. Click on '**ENT'** when 'Go' is selected.

TITLE	• The tile of mail
FROM	• Sender's mail address
DATE	• Date when mail is delivered
Prev/ Next	• Read previous/next mail of current mail
List	• Move to mail list menu.
Reply	• Reply to current mail. • Move to 'Mail Write' screen.
Del	• Move to menu for deleting current mail.

• Move between menus (Prev, Next, List, Reply, Del) in View Mail using ▶◀.

• Scroll mail contents using ▲▼.

• ⬚ on the right top means 'current mail number/total number of mails'.

• If you want to move to previous menu, press '**EXIT**'.

 NOTE. You cannot see 'Previous' mail at the first mail and you cannot either see 'Next' mail at the last mail.

Send Reply

• Select 'Reply' from View Mail using ▶◀ and press '**ENT'**.

• Move from item to item in 'Reply' using '**TAB**'.

• Move to Mail Edit window with '**TAB**' key and then write a mail.

• After that, move to 'Send' using '**TAB'** key and press '**ENT**'. Then, the mail will be delivered to 'TO's mail address.

• If you stop typing or move to previous menu, press '**EXIT**'.
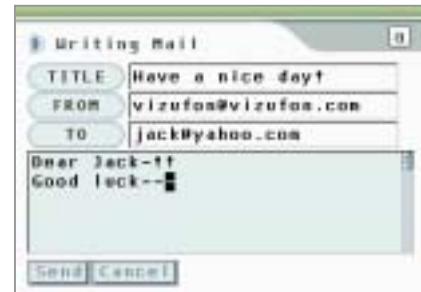
> **NOTE.** 'Title', 'Sender' and 'Receiver' are set by default.

Delete Mail

• Select 'Del' from View Mail using ▶◀ and press '**ENT'**.

• If you select 'YES' and press '**ENT**', the mail is deleted.

• If you cancel Delete Mail, select 'NO' and press '**ENT**' or press '**EXIT**'.
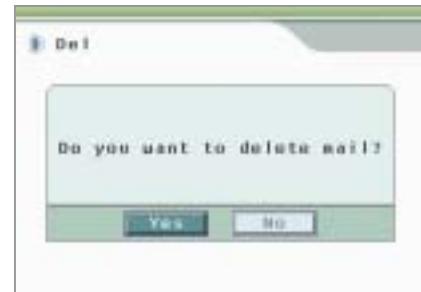
> **NOTE.** If you execute 'Del. All' from **View Mail List**, all mails are deleted.

Writing Mail

• Select **Writing Mail** from **Login** using ▲▼, and press ▶◀ or '**ENT**'.

• Enter 'TITLE'. If you want to move to 'FROM', press '**TAB**'.

• 'FROM' is set by default to login mail address. If you want to move to 'TO', press '**TAB**'.
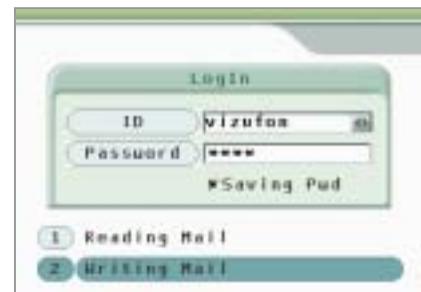
• Enter sender's e-mail address in 'TO' item. If you want to write Mail, press '**TAB**'.

• Write a mail.

• If you move to 'Send' or 'Cancel' using '**TAB'** and press **'ENT'**, you can send mail or cancel Write Mail.
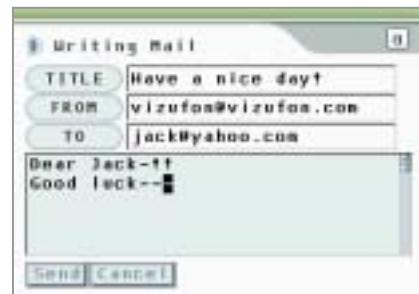
• If you stop typing or move to previous menu, press '**EXIT**'.

  NOTE, You can attempt to send mail by clicking on '**ENT'**.

Checking Mail Notice Window

If a new mail arrives at the account where mail notice function is set in Setting mail properties, appears on PIMS main screen.

• At this time, press '**ENT**' button. Then, a list of accounts at which mails are delivered appears.

• Select an account for checking mails using ▲▼ and press '**ENT**'. It directly moves to 'Reading Mail' of the appropriate account.

7. Software Upgrading

What is remote upgrade ?

IP videophone can download the latest software version by connecting to a remote server through the Internet. For further information on latest IP videophone software version, please contact software supplier.

Connecting to Server

Connect to the server from IP videophone and check the latest software version.

- Select **UserSet** from Personal Information Setting menu.

- Select **System Setting** from **UserSet** menu using ▲▼ and press ►◄ or '**ENT**'. (or press 5.)

- Select **Version/Upgrade** from **System Setting** using ▲▼ and press ►◄ or '**ENT**'. (or press 1.)

- 'Version' indicates current software version of IP videophone.

- 'Modified' indicates the date when current IP videophone software is manufactured.

- Enter server address in 'Server' item to check latest software version of IP videophone. You can substitute IP address or domain name for server address.
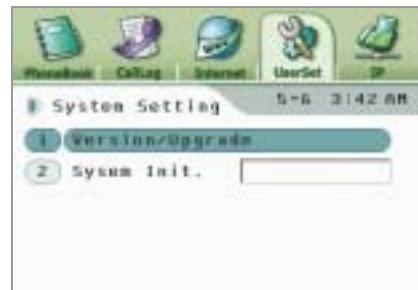
- IP videophone supports TFTP and HTTP methods when it connects to the server. Select one of two methods in 'Type' item using ◄ ►.

- If you select 'Check Version' and press '**ENT**', it connects to the server and gets information on the latest software version.
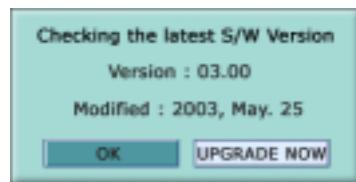
NOTE. If it fails in connecting to the server, the following error message is displayed.
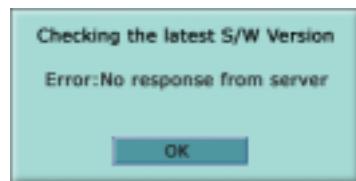
Program Downloading

Download the latest software version from the server.

- When you check the latest software version after connecting to the server, the following message is displayed. If the server software version is higher than current IP videophone version, the following message appears.

- If you want to download the latest software version, at this time, select 'UPGRADE NOW' using ◄ ► and press '**ENT'**.

- Three messages appear by turns as shown below, and software upgrade is performed.
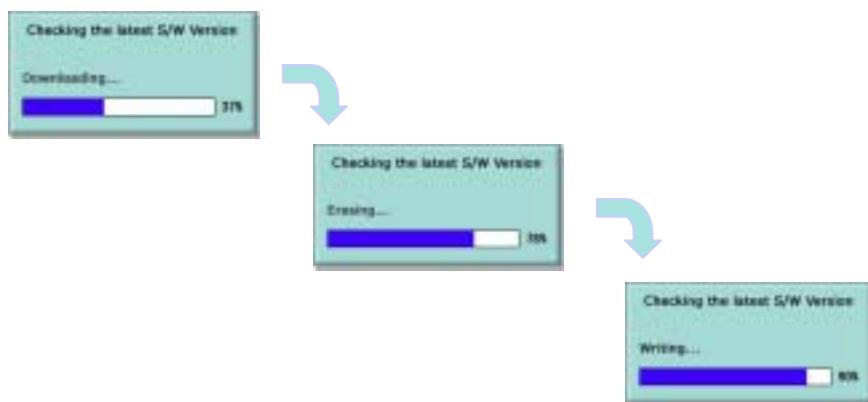
NOTE. Make sure that software upgrade should not be stopped. In other words, do not cut off power in the course of upgrading. If the procedure of upgrading stops, the existing software is deleted and not normally operated. If something goes wrong, do not turn off power and attempt upgrading again. If it continues to fail, please contact with Post Sales Service center.

8 Appendix

Use NAT function

Connecting IP Videophone in the Private Network

This describes procedures of setting an IP videophone and external sharers if installation of IP videophone is required in a private network configured with an external sharer.

A. Check internal/external IP address

First, check an IP videophone's IP address and external sharer IP address (WAN, Global or Public) before setting an IP videophone and external sharer.

View Internet Status menu enables you to check IP videophone's IP address. If connected to the private network, IP address is usually set to the following values:

- 192.168.xxx.xxx ~ 192.168.255.255

- 10.xxx.xxx.xxx ~ 10.255.255.255

- 172.16.xxx.xxx ~ 172.31.xxx.xxx

You can check an external sharer IP address through Sharer Status of each sharer. For further information, refer to user's manual on each sharer.

The figure below shows screen on which you can check set in external sharer IP address at your computer.
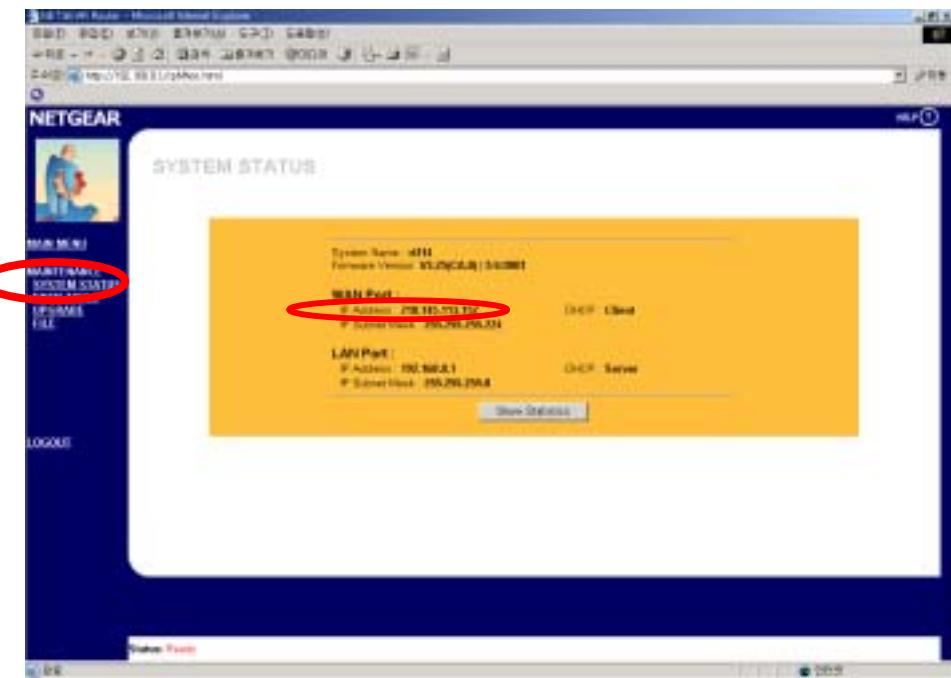
< Checking external sharer IP address>

 B. Set IP videophone

Be sure to enter external sharer's IP address in IP videophone. Set IP videophone by checking the external IP address of external sharer.

• Select **Internet Sharing** from **IP** menu using ▲▼, and press ►◄ or '**ENT**'. (Or press 4.)

• Select 'External NAT' from 'Type' item using ►◄.

• Press ▼ in 'Type' and move to 'Global IP', and then
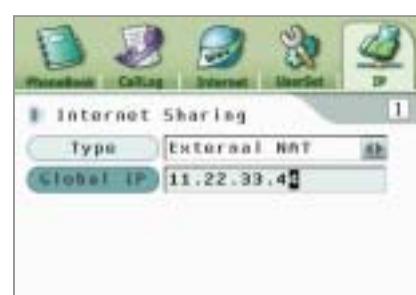
set IP address of external sharer.

• If you want to stop typing or move to previous menu, press '**EXIT**'. If you select a different one from current IP setting method, the following message window appears. If you want to change IP Setting, click on 'Yes' and press '**ENT**'.
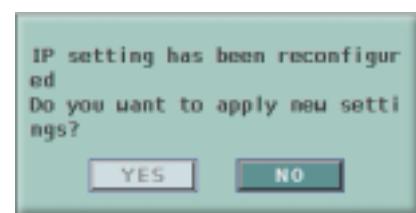
NOTE If the mode of a sharer to be used is changed, be sure to reboot the system.

C. Set external sharer

• Move to Sharer Configuration menu through Web browser such as Internet Explorer in PC connected to external sharer.

• Move to "DMZ Host' or "DMZ server" setting menu among sharer properties. Enter IP videophone IP address in DMZ Server Address Input Window, and save the settings.

• For further information of menus and methods related to sharer setting, see each sharer manual. The figure below shows how to set DMZ server in an external sharer.
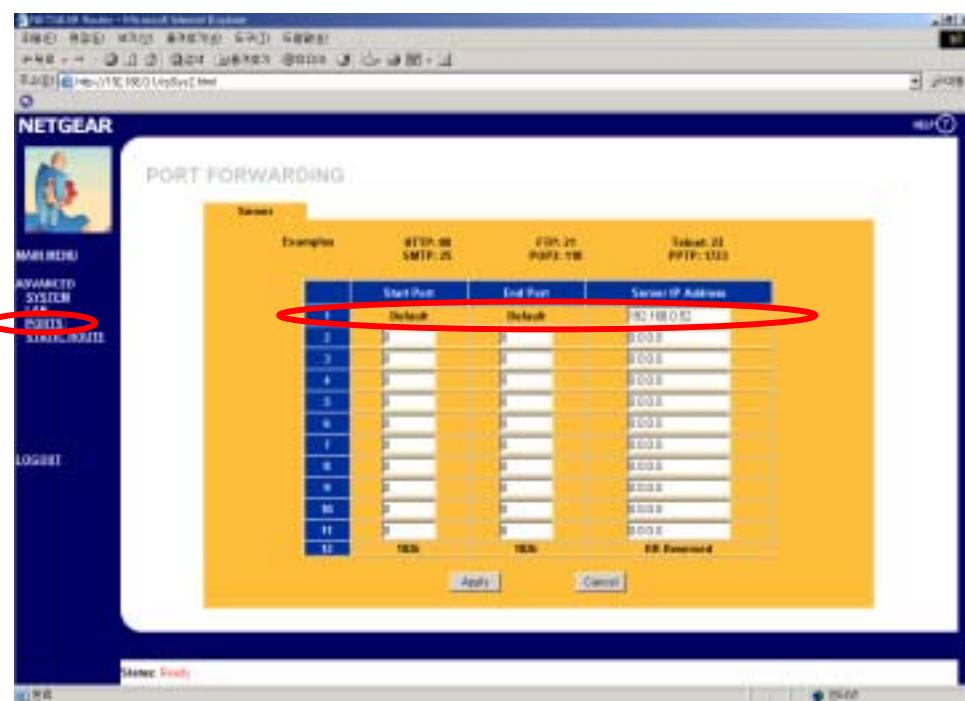
< Setting DMZ Server in an External Sharer>

NOTE If server setting is normally performed through the procedures above, you can make a call and answer the phone using **external sharer IP address** or IP videophone phone number.

Using 'Share' function embedded in IP videophone

Using 'Internet share' function embedded in IP videophone, you can connect one computer to the Internet.

If you use 'Internet share' function in IP videophone, connect computer to IP videophone as shown in the figure below. In order to connect computer with IP videophone, at this time, connect LAN port (PC) at the back of IP videophone to computer LAN card using LAN cables.

A. Set IP videophone

If you use 'Internet Share' function embedded in IP videophone, set an IP videophone IP address in a private network.

• Select **Internet Sharing** from **IP** menu using ▲▼, and press ▶◀ or '**ENT**'. (Or press ⁴.)

• Select 'Internal NAT' from 'Type' using ▶◀.

• Move to 'Host IP' from 'Type' using ▼, and set built-in sharer IP address.

• If you want to stop typing or move to previous menu, press '**EXIT**'. If you select a different one from current IP setting method, the following message window is displayed. If you want to change IP setting, click on 'Yes' and press '**ENT**'.
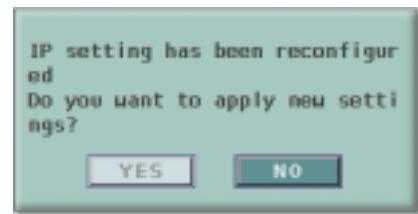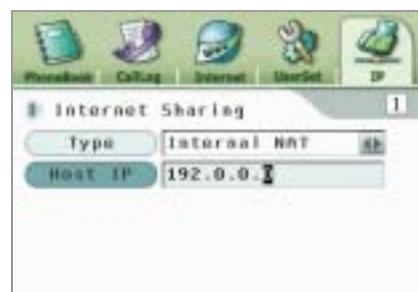
NOTE If the mode of a sharer to be used is changed, be sure to reboot the system.

B. Setting IP related information in computer

If IP videophone host IP is set to 192.168.2.1 as example above, set computer IP information as follows:

Items	Setting values
IP address	192.168.2.2 (IP videophone host IP address +1)
Subnet mask	255.255.255.0
Gateway	192.168.2.1 (IP videophone host IP address)
DNS server address	DNS server address set in IP videophone

NOTE. IP videophone can support up to 2M bps for Internet sharing. For the best performance, connection of more than 4M bps is recommended.

NOTE.   Only one PC could be connected by using Internet sharing. Under this configuration, some applications like network games, messenger, P2P may not be used.

NOTE.   2Mbps is the maximum using Internet sharing. This may cause the degradation of PC Internet performance. In this case, it is recommended using external Internet router.

NOTE.   Some ISP (Internet Service Provider) restricts Internet connection after check the MAC address of each computer. In this case, be sure to register the MAC address of the IP videophone to the ISP. Please contact the ISP you are subscribing for the MAC address registration.

For further information on setting IP in computer OS, refer to each OS manual. The following example shows how to set IP information in operating systems such as Windows 98 or Windows ME.

C. IP setting in Windows98 or Windows ME

● Select [Start]->[Set]->[Control Panel]. Execute [Network] of "Control Panel" items.

- Select "TCP/IP" on the screen after executing [Network], and select [Properties].
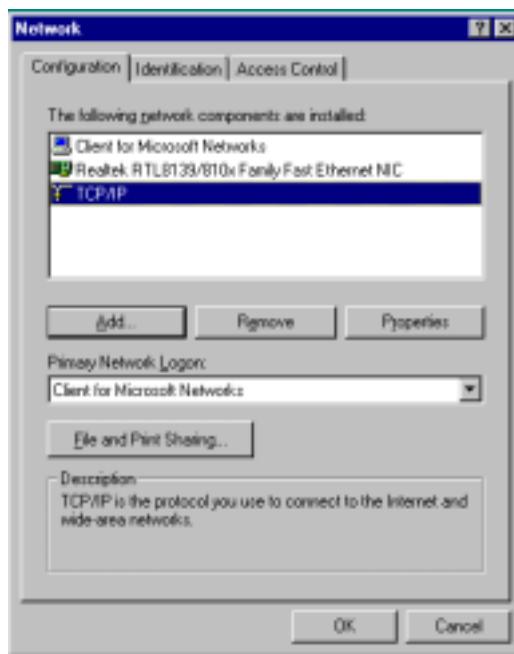
- Select "Specify an IP address" of [IP Address] items, and enter IP address and subnet mask as follows:

- Move to [Gateway] TAB, and enter "192.168.2.1" in a "New gateway", and select [Add], and then it is saved in "Installed gateways".

- Move to [DNS Configuration] TAB and select "Enable DNS". Enter alphanumerical name in [Host]. Enter Internet address of very high-speed network in [Domain]. For example, type kornet.net for KT, and type hanaro.com for HANAFOS, and thrunet.com for

THRUNET. Enter IP videophone DNS address in [DNS Server Search Order], and click [Add] and save it.
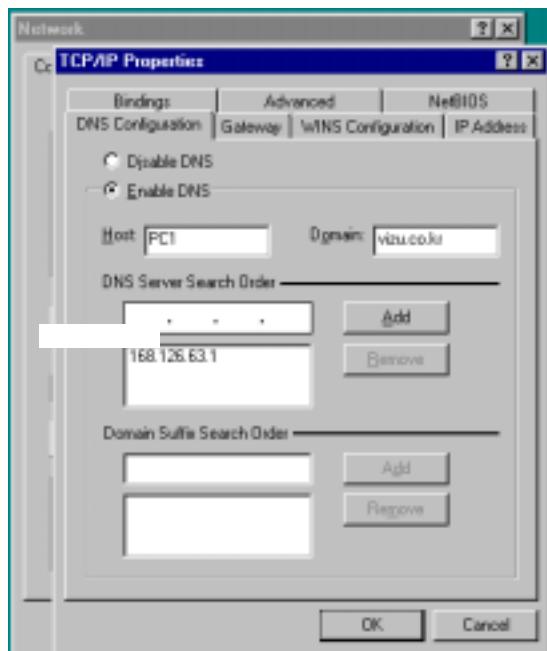
- If you click [OK] after setting, and click OK again on "Network" window, the following [System Setting Change] window appears. If you select [Yes] to start the system again, you can connect your computer to the Internet through Internet share function of IP videophone.
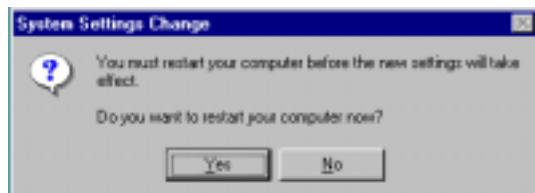
Before Requesting Help

Problem	Troubleshooting
I cannot turn on the power	Check if the power cable is correctly connected.
LCD screen is not turned on	Check if the power cable is correctly connected.
I cannot hear any call connection signal from handset.	Check if the handset is connected to the left port of the videophone.
I cannot make a call.	Check if the Internet line is connected
	Check if the handset is connected to Internet. Refer to < View Internet Status (57p)>.
	If it is connected to ITSP (Internet Telephony Service Provider)'s network, check if the registration lamp turns on. If not, check if the server and user information are correct.
	If it is connected to ITSP's network, the called party may not be registered with the same network.
	If you are calling with IP address, check if the IP address is correct.
	If you are using speed dialing, check if it is correctly registered with a PhoneBook.
	If a called party uses IP videophone installed in a private network or firewall system, it may not be connected.
I cannot make a general call in PSTN mode.	Check if the normal phone line is correctly connected.
	If you are using speed dialing, check if it is correctly registered with a PhoneBook.
Someone calls me but I cannot receive the call.	If the IP videophone is installed in a private network or a firewall system, you may not receive a call.
When I receive a call, the screen is turned on but any ring sound cannot be heard.	Check if the bell sound level is set to more than '0' in User Configuration menu.
The call is connected, but the other party's screen is dark and the sound is very bad.	If the videophone is installed in private network or on firewall, you may not be received the other party's screen.
	Check if a camera is connected to the other party's IP videophone.
The call is connected, I can see the screen, but cannot hear any voice.	Check if the other party's microphone works well.
	Volume up the handset.
The call is connected and I can see the screen and hear the voice, but	Check if the other party's videophone is installed in a private network or a firewall system.

the other party cannot see and hear me.	Check if the audio/video input path is correctly configured in the Setup menu during a call.
	Check if the other party's audio/video device works properly.
The call is connected, and I can see the screen and hear the voice, and the other party can see me but cannot hear me.	Check if the audio input path is configured is correctly configured in the Setup menu during a call.
	Check if the other party's audio device works properly.
The call is connected, and I can see the screen and hear the voice, and the other party can hear me but cannot see me.	Check if the video input path is configured is correctly configured in the Setup menu during a call.
	Check if the other party's video device works properly.
The other party's screen stops suddenly and the voice is not heard any more.	Check if the videophone is connected to Internet properly.
	Check if the other party's videophone has gotten disconnected from Internet before the call is completed.
The browser is not connected to the site I want.	Check if IP setting is correct.
	Check if the DNS server address is correct.
	Your desired site may not be in service.
I cannot connect to a mail server.	Check the Internet environment is correctly configured.
	Check if the DNS server address is correct.
	Check if mail ID and address of POP3 server and SMTP server are entered correctly.
	Check if mail ID and Password are correct.
	The mail server may not be in service.
When the IP videophone is connected to TV set, the images displayed on both screen are different.	When external video output port is connected to TV, a certain image is not displayed on LCD screen of IP videophone.

Warning Messages

The following table describes warning messages and their meanings.

Warning message		Description
Power On	System initialization	System is being initialized.
	Unpacking Image Data…	Image data for GUI is being decompressed.
	Loading DB...	Personal data settings are being loaded.
	Network Setting Error !! Please check setting and reboot.	IP address is not successfully allocated.
Configuring DHCP	DHCP Server not Found !! Connection Time Out	DHCP server cannot be found in the network.
	Connecting to a DHCP Server...	Data is being exchange with DHCP server.
	Fail to get IP address.	I fail to receive IP address from a DHCP server.
Configuring ADSL	Connecting to ADSL Server...	Connection to ADSL server is being made.
	ADSL Connection Error No response from Server	I try to connect to ADSL server, but any response is not received.
	ADSL Connection Error !! Invalid Username/Password	I cannot log in to ADSL server. Check user ID and password
Attempting to make a call	Gatekeeper rejects a call.	Gatekeeper of ITSP's network does not permit call connection, so a call cannot be made.
	Call connection to the other party is not available.	The other party's phone cannot be found.
	The other party rejects a call.	The other party sends call refusal signal.
	Gatekeeper is unreachable.	Gatekeeper of ITSP's network cannot be found.
	Gateway refuses a call.	Gateway ITSP's network refuses call connection.
	The other party's phone number is not correct.	The telephone number is not managed by gatekeeper of ITSP's network.
	The called party's line is busy.	The called party is on another line.
	Unknown Error	Connection to ITSP's network is not available due to unknown error.
	Destination is not registered.	The called party is not registered with gatekeeper of ITSP's network.
	You are not registered.	You are not registered to gatekeeper with gatekeeper of ITSP's network.
	This call is disconnected.	A call is disconnected by the other party or due to server failures.
	Wrong Number	You entered a wrong number.

	Call connection is failed.	The other party's phone cannot be found.
During a call session	Audio/Video Connecting...	A call is being connected.
	MUTE	You are in Mute mode.
	PRIVACY	You are in Private mode.
After completing a call	Call log is being recorded.	A recent call log is being recorded.
Setting User Configuration	Please Wait...	User Configuration being loaded or menu being changed.
	Incorrect! Please enter, again.	Your password is not correct.
	Initialize system.	All personal information already configured is being initialized.
	Wrong IP Address !!	IP address is not suitable for current input mode.