



# **Internet Video Conferencing Phone**

ICF-1501 / ICF-1550

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## **User's Manual**

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## **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

### **FCC Caution:**

To assure continued compliance (ample-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

### **R&TTE Compliance Statement**

This equipment complies with all the requirements of DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

### **WEEE Regulation**



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

### **Safety**

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

## **Revision**

**User's Manual for Internet Video Conferencing Phone**

**Model: ICF-1501 / ICF-1550**

**Rev: 1.0 (Dec. 2005)**

**Part No. EM-ICF1550v1**

## Safety Instructions

- Please read all instructions before using this produce and follow.
- All openings on the housing of this product are designed for ventilation. Do not block or cover them. Do not insert any foreign objects in the openings. Doing so might cause a short circuit, electrical shock and/or fire.
- Before cleaning, unplug the machine and wipe it gently with soft cloth dampened with water or diluted liquid soap. To avoid damage or malfunction to the machine, do not use alcohol or other strong solutions.
- Avoid Electrical Shock:
  - Be sure to ground your machine so that the built-in shock arrester will function and reduce the chance of being shocked.
  - Do not connect the grounding wire to a gas or water pipe.
  - If possible, switch power off and unplug the machine during a thunderstorm.
- Do not try to disassemble the machine. Unplug the machine and call for service in the following situations:
  - The power cord or plug is damaged or frayed.
  - Some liquid is spilled into the machine.
  - The machine appears wet with water.
  - The machine appears faulty and cannot be repaired despite having followed all instructions in the manual.
  - The machine is damaged from being dropped or the housing is broken.
- Power Requirements and Power Cords:
  - Use a single wall outlet with the power of 100-240V AC, 50/60 Hz 1A depending on label indication.
  - Do not place anything on the power cord. Avoid having people step on it.

## Table of Contents

<b>User's Manual</b> .....	1
1. Introduction.....	9
1.1 Features.....	9
1.2 Specification.....	10
2. Installation.....	12
3. Connections.....	13
4. Getting to Know the Machine.....	16
5. System Configuration.....	19
5.1 General.....	19
⌘ Auto-Answer Mode.....	20
⌘ Auto-Send Video.....	20
⌘ System Sleep.....	20
⌘ Language Type.....	20
⌘ Display Name.....	21
⌘ Security.....	21
⌘ Password.....	21
5.2 Network (ICF-1501).....	22
⌘ Bandwidth.....	22
⌘ Network Mode.....	22
⌘ DNS IP Address.....	24
⌘ DDNS Hostname.....	25
⌘ DDNS User Name.....	25
⌘ DDNS Password.....	25
5.3 Network (ICF-1550).....	26
⌘ Bandwidth.....	26
⌘ Network Mode.....	26
5.4 Advanced (ICF-1501).....	28
⌘ Gatekeeper Mode.....	28
⌘ GK IP Address.....	29
⌘ GK Phone Number.....	29
⌘ GK Alias Name.....	29
⌘ H235 Password.....	30
⌘ Detect NAT RIP.....	30
⌘ NAT Route.....	30
⌘ NAT Route IP.....	30
⌘ UDP Base Port.....	31

⌘ Default.....	31
⌘ Picture Quality.....	31
⌘ Audio Format.....	32
⌘ Remote Update.....	32
⌘ Update IP Address.....	32
⌘ Upgrading the System Software.....	33
⌘ Exit System Configuration.....	35
5.5 Advanced (ICF-1550).....	35
⌘ Server Mode.....	35
⌘ SIP Proxy IP Addr (SIP Proxy IP Address).....	35
⌘ SIP User Name.....	36
⌘ Password.....	36
⌘ Domain/Realm.....	36
⌘ Port 37	
⌘ Default.....	37
⌘ Picture Quality.....	37
⌘ Audio Format.....	38
⌘ Remote Update.....	38
⌘ Update IP Address.....	38
⌘ Upgrading the System Software.....	38
⌘ Exit System Configuration.....	41
5.6 Selecting A/V Source.....	41
⌘ Selecting Video Source.....	41
⌘ Selecting Audio Source.....	41
6 Phone Book Setup.....	42
6.1 Input Characters.....	42
6.2 Input IP Address.....	43
6.3 Ten Records Communicating by Phones.....	43
7. General Operation.....	44
7.1 Making Video Calls.....	44
7.2 Making Phone Calls under PSTN.....	45
7.3 Receiving Video Calls.....	45
8. On-line Operation.....	46
8.1 Snapshot.....	46
8.2 Switching the Video and Audio Source.....	46
8.3 Activating Video/Audio Mute.....	47
8.4 Operation State.....	48
9. Troubleshooting.....	49

1.	Boot up failure .....	49
2.	Connection failure.....	49
3.	The Video Phone keeps ringing but doesn't establish the connection.....	49
4.	The picture is block or scrappy. ....	49
5.	Local image is blurry. ....	49
6.	Fail to response to inbound calls from LAN phone or VoIP gateway.....	50
7.	The remote site receives images but no sound from the local site.....	50
8.	Voice is unclear or discontinuous. ....	50
9.	How to use the Video Phone if you don't have a static IP address? .....	50
10.	How to connect the machine with GATEWAY? (ICF-1501).....	51
11.	How to check the firmware version of the Video Phone? .....	51
12.	How to set dynamic IP under PPPoE mode? .....	51
13.	Why the communication quality is poor? .....	51
14.	How to upgrade your machine? .....	51



# 1. Introduction

PLANET's Video Conferencing products, ICF-1501 for H.323 standard and ICF-1550 for SIP 2.0 standard, bring you a vivid video conferencing experience through the Internet. No PC is required and none of the usual complications of complex web camera, sound card, software settings, and specialized data connections. Furthermore, the ICF-1501/ICF-1550 has a built-in 5" LCD monitor in a telephone form factor ideal for desktop use.

ICF-1501 is H.323 and ICF-1550 is SIP 2.0 compliant, which means you can have a seamless conferencing experience with other H.323/SIP 2.0 compliant video conferencing systems, VoIP gateway/phones, Microsoft NetMeeting, and SIP proxy server. With Gatekeeper, MCU, SIP proxy server support, the ICF-1501/ICF-1550 from PLANET make communications with your business partners quick and cost-effective.

The ICF-1501/ICF-1550 has multiple video inputs which can be used to connect to external cameras for group meetings and/or a document camera for showing detailed documents or photographs. With up to 30 fps frame rate, outstanding picture and sound quality, the PLANET Internet Video Conferencing Phone offers you a superior communications experience via the Internet. Unless specified by model, in the following section, turns of "Video Phone" will means ICF-1550 or ICF-1501.

## 1.1 Features

- ITU H.323 version 2 compliant for ICF-1501
- SIP version 2 (RFC 3261) compliant for ICF-1550
- Support H.263 Video Codec and G.711, G.723.1, G.729A/B Audio Codec
- Compatible with H.323 VoIP gateway, Gatekeeper, MCU (Multipoint Control Unit) and Microsoft NetMeeting (ICF-1501).
- Compatible with SIP 2.0 Proxy server and peer to peer mode (ICF-1550).
- Built-in High Quality CCD Camera
- Full-duplex Voice Conversation
- Superior voice quality with Voice Activity Detection (VAD), Automatic Gain Control(AGC), Acoustic Echo Cancellation(AEC) and Electrical Echo Cancellation(EEC) support
- Supports Static IP, PPPoE, DHCP Connection

- Supports Dynamic DNS
- 3 video resolution modes supported, CIF, QCIF and SQCIF
- Control bandwidth to 128K, 256K, 384K, 512K, 768K, and no limit (No limit bandwidth for ICF-1550 only)
- Supports frame rate up to 30 fps
- Phone book of 100 Names/Addresses and quick search
- On-line snapshot of remote video function
- On-line display of connection status
- Provide Auto-answer mode which allow you to monitor remote location with real-time picture and voice
- TFTP software remote update

#### **Additional Features of ICF-1501/ICF-1550**

- Built-in 5" TFT LCD monitor, angle adjustable
- Built-in High sensitive microphone
- Built-in high volume speaker
- pair RCA Audio/Video input interfaces for multiple camera connection
- pair RCA Audio/Video output for TV connection
- Two Ethernet ports for connecting to WAN and PC

## **1.2 Specification**

Product	Internet Video Conferencing Phone
Model	ICF-1501 / ICF-1550
Hardware	
Port	2 x 10/100Mbps RJ-45 port, 1 x PSTN RJ-11 port
Camera	Built-in High quality CCD Camera, adjustable focus/tilt
Audio/Video Input	1 pair RCA Audio/Video input 1 telephone handset 1 built-in microphone
Audio/Video Output	1 built-in 5" TFT LCD, adjustable angle 1 pair RCA Audio/Video output 1 built-in speaker
LED indicator	1 PWR/LNK LED
Protocols and Standard	
Communication	ICF-1501: ITU-T H.323 v.2,

Standard	ICF-1550: SIP 2.0 RFC 3261
Video Standard	H.263
Audio Standard	G.711, G.723.1, G.729A/B
Control Standard	H.245
Compatibility	ICF-1501: Compatible with Gatekeeper, H.323 Videophone, H.323 VoIP gateway, Microsoft NetMeeting, Multipoint Control Unit (MCU) ICF-1550: Compatible with SIP Proxy server, SIP 2.0 Videophone
LAN standard	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet
Network and Configuration	
Connection Type	ADSL, Cable, LAN
Access Mode	Static IP, PPPoE, DHCP
Bandwidth Usage	ICF-1501: 128K, 256K, 384K, 512K, 768K ICF-1550: 128K, 256K, 384K, 512K, 768K, No Limit
Video Resolution	CIF (352x288), QCIF (176x144), and SQCIF (128x96)
Configuration Interface	Keypad with On Screen Display (OSD)

## 2. Installation

Please open the package and check all equipment carefully.

1. Videophone Machine × 1



2. Power Adapter × 1 & AC Power Cord × 1



3. Audio/Video Cable × 2



4. User Manual (CD-ROM) × 1

5. Quick Installation Guide × 1



If there is any problem, please liaise with the sales right away.

### 3. Connections

#### Step 1 Choose a proper location for installation.



The illuminant should be in the upper front of the user so that the light can shine on the user's face.

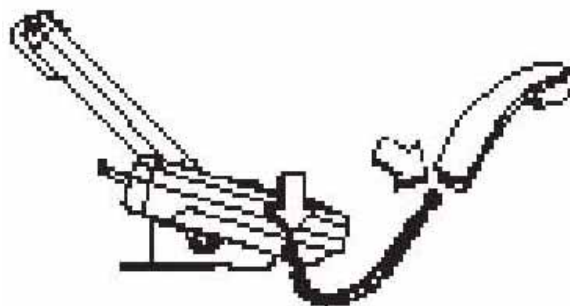


Avoid backlight – illuminant from user's upper back is improper.

Avoid light reflection from mirror, which is behind the user.

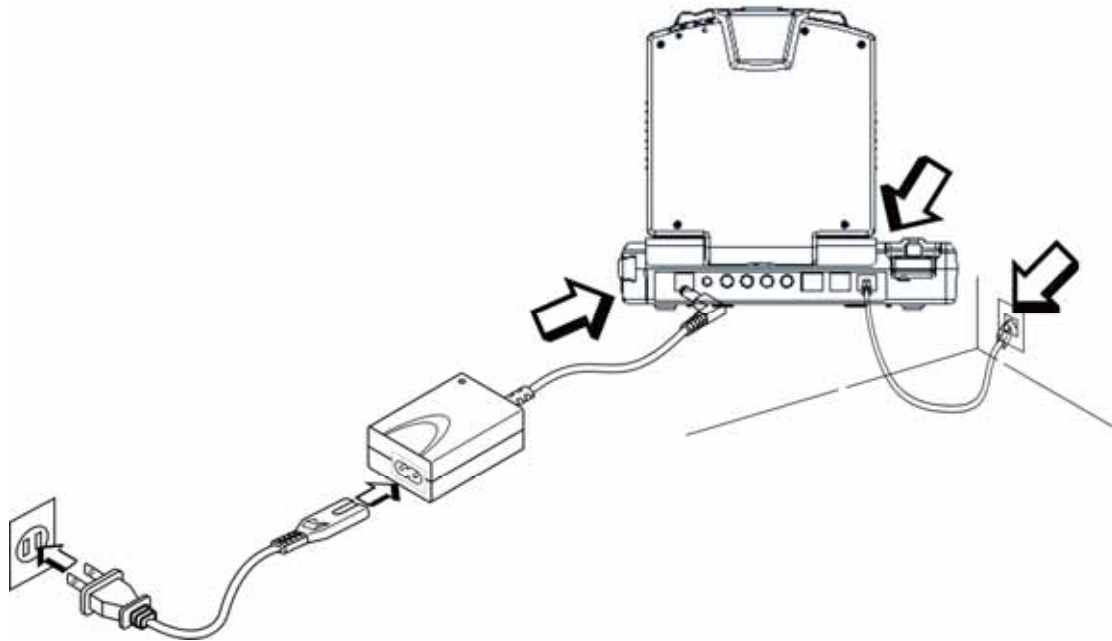
#### Step 2 Hardware installation

Insert the handset cord into the socket upon the handset and the other end into the socket on the left side of the machine.



### Step 3 Connecting to the Internet.

Plug one end of the LAN cable into the WAN port of the Video Phone machine, and the other end into your switch/hub, cable modem, ADSL modem or the wall socket which connects to switch/hub.



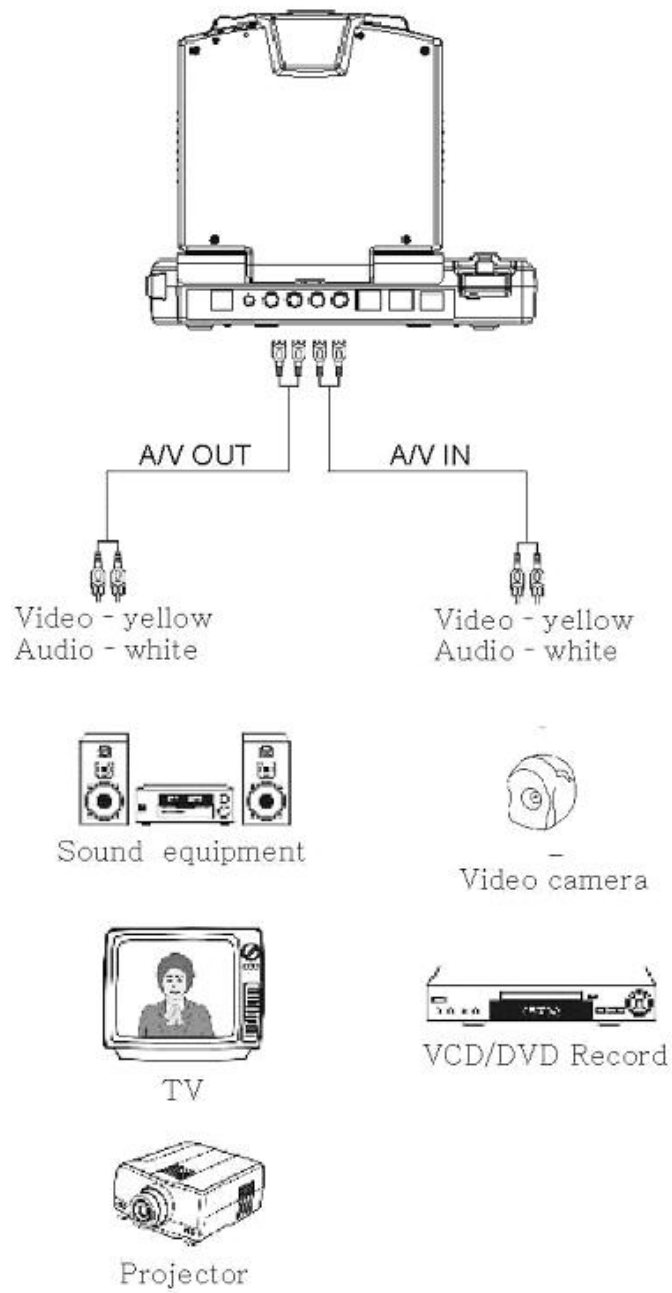
#### Note:

1. The Video Phone can work as a hub by connecting the Video Phone to a computer with a LAN cable. Please plug the LAN cable into the PC port on the back panel.
2. You can use the Video Phone as a PSTN telephone as well. By connecting the phone line to the Video Phone, you may have it work as a PSTN telephone.

### Step 4 Connecting the power cord.

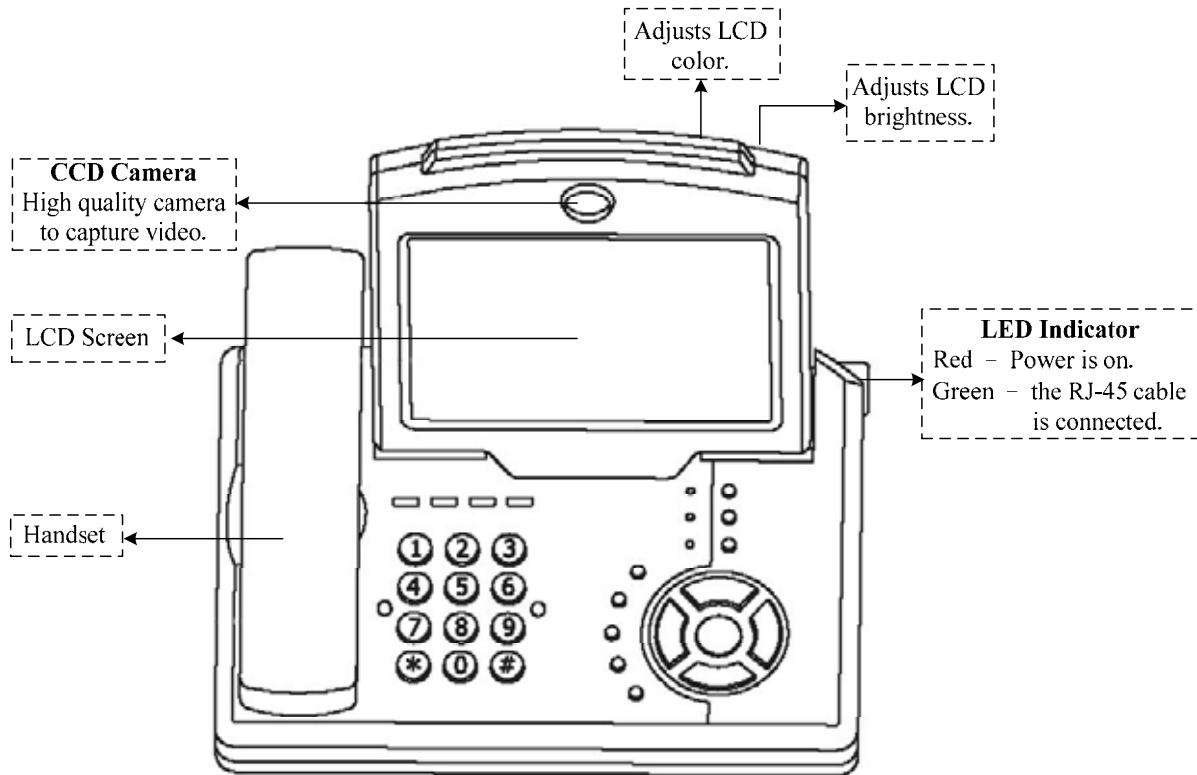
Please refer to the picture above. Plug the power cord into a socket and use the supplied cable to connect the machine.

## Step 5 Back panel introduction



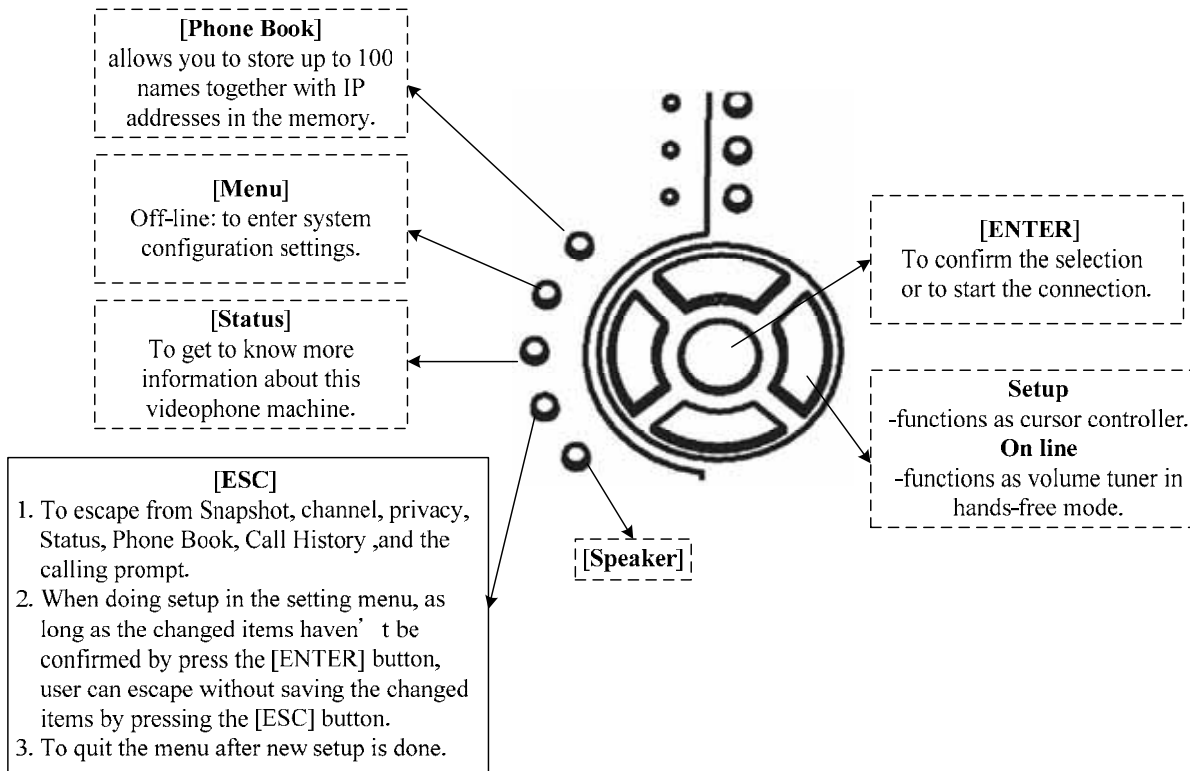
## 4. Getting to Know the Machine

### Front View

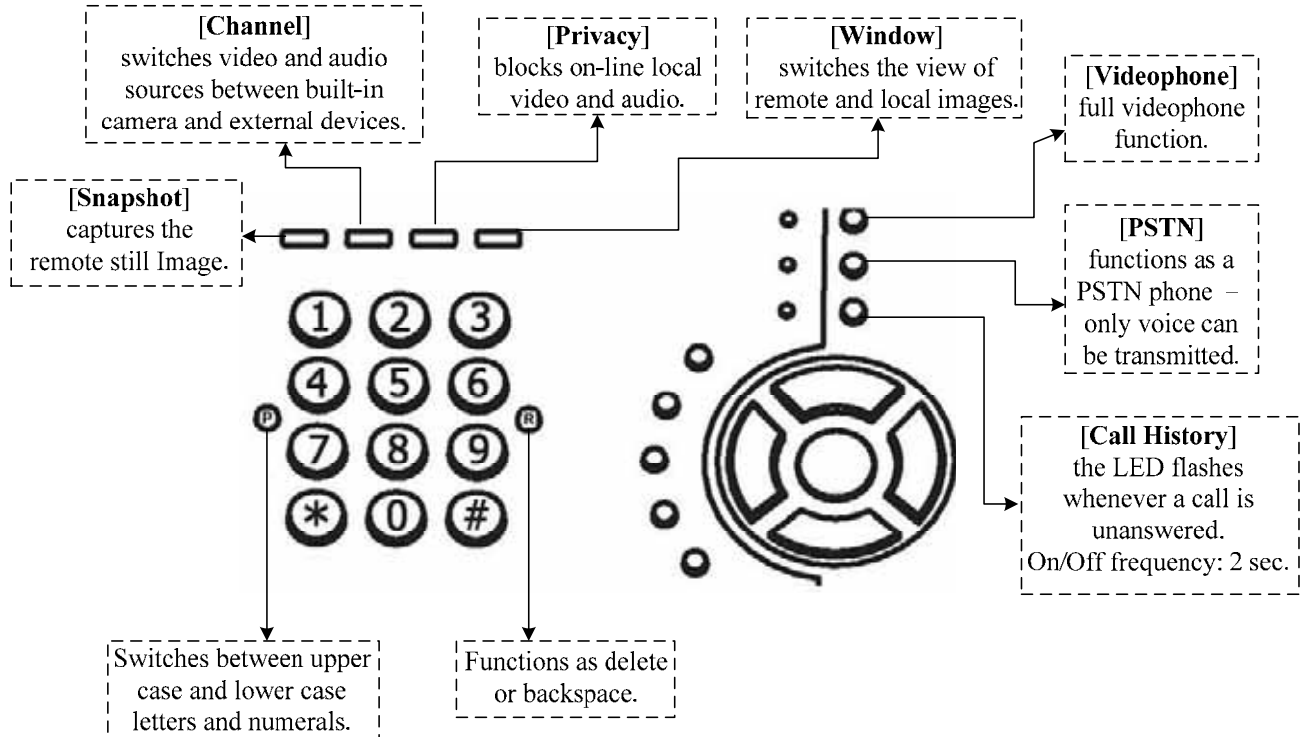




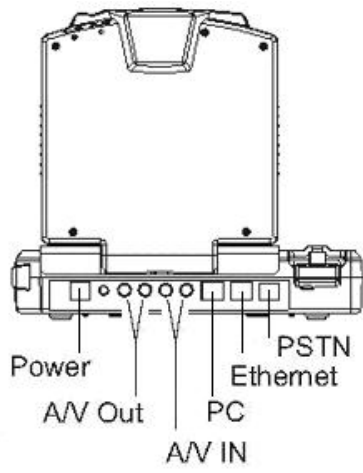
## Keypad Panel



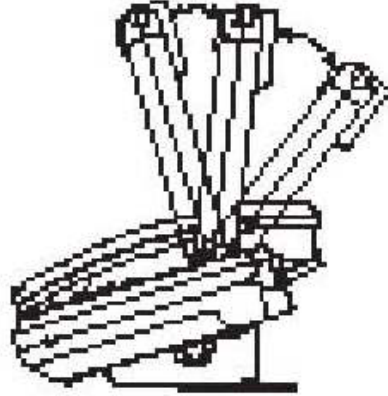
## Keypad Panel



### Back View



### Side View



The LCD panel can be tilted up or down to obtain the most comfortable viewing position.

## 5. System Configuration

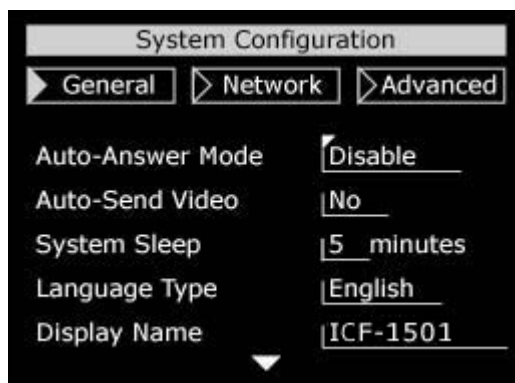
After power on, the PWR/LNK LED on the top-right of LCD monitor turn red to indicate it have received power. The LED will then turn green if the Ethernet network connection is established. The conferencing phone should take about 30 seconds to make power on self-test and system start up. In this period, the screen will show local images. Please do not press any button on this period.

After the booting process is completed, the following page is shown on the LCD monitor.



Press **[Menu]** button, a System Configuration page is shown. Please use **[▲]**, **[▶]**, **[▼]**, and **[◀]** to move the highlight to the function you need to configure and **[Enter]** to enter the function menu.

### 5.1 General



### ⌘ Auto-Answer Mode

The feature allows the Video Phone to answer incoming calls automatically.

1. General → select “Auto-Answer Mode.”
2. Press the [▲] or [▼] key to select the setting you want.
  - Enable – Machine automatically answers any incoming calls.
  - Disable – Incoming calls can be answered only when receiver picks up the handset or presses the [Speaker] button.
3. Press the [ENTER] key to confirm the setting.

### ⌘ Auto-Send Video

This function could make the Video Phone send image automatically when conversing.

1. General → select “Auto-Send Video.”
2. Press the [▲] or [▼] key to select the setting you want.
  - Yes – Video Phone sends image automatically when conversing.
  - No – Video Phone does not send image automatically when conversing.
3. Press the [ENTER] key to confirm the setting.

### ⌘ System Sleep

Sleep mode will be on when system is idle for a pre-set period.

1. General → select “System Sleep.”
2. Press the [ENTER] key and use number keys to input sleep time. (Up to 99 minutes.)
  - \* To disable System Sleep function, please set the time to “0” minute. Use the “®” key to delete a character.
3. Press the [▼] key to select “OK” and press [ENTER] to return to the previous page.

When system is under sleep mode, press any key to wake up the system.

### ⌘ Language Type

We provide Chinese and English for users to choose.

1. General → select “Language Type.”
2. Press the [▲] or [▼] key to select the setting you want.
3. Press the [ENTER] key to confirm the setting and return to the previous page.

#### Note:

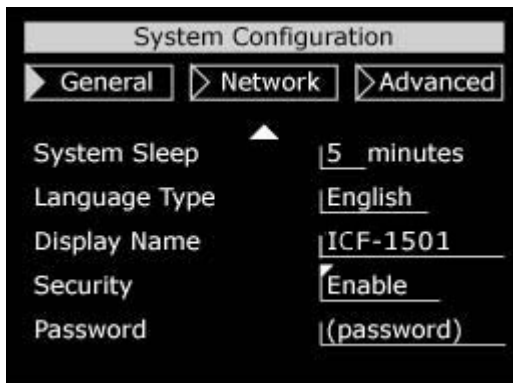
For special model, we provide Chinese and English. For normal model, we provide English only.

## ⌘ Display Name

Display name represents your identification. The display name is shown when people receive a call from you. You can also use the display names recorded in the phone book sheet to contact people.

1. General → select “Display Name.”
2. Press [ENTER] and use the on-screen keyboard to input the display name.
3. Press the [▼] key to select “OK” and press [ENTER] to return to the previous page.

## ⌘ Security



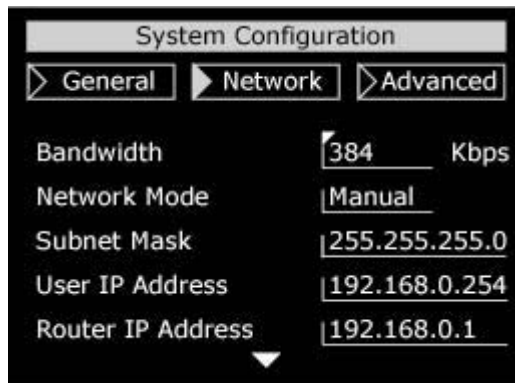
This feature allows only the people who have the security password to enter the system configuration settings. In this case, you don't have to worry that the system settings will be changed without notice.

1. General → select “Security.”
2. Press the [▲] or [▼] key to select the setting you want.
  - Enable – enable password protection. Users have to input the security password next time when trying to enter system configuration settings.
  - Disable – Disable password protection.
3. Press the [ENTER] key to save the setting. If you select “Enable”, please go on to the next step.

## ⌘ Password

1. General → select “Password.”
2. Press [ENTER] and use the on-screen keyboard to input your password.  
(You can also use the keypad to key in numbers and letters. The capacity is 30 digits.)
3. Press the [▼] key to select “OK” and press [ENTER] to return to the previous page.

## 5.2 Network (ICF-1501)



### ⌘ Bandwidth

Select appropriate bandwidth in compliance with your Internet transmission speed when placing a call.

1. Network → select “Bandwidth.”
2. Press the [▲] or [▼] key to select the bandwidth you need.
  - 768 – the maximum bandwidth is 768 Kbps.
  - 512 – the maximum bandwidth is 512 Kbps.
  - 384 – the maximum bandwidth is 384 Kbps.
  - 256 – the maximum bandwidth is 256 Kbps.
  - 128 – the maximum bandwidth is 128 Kbps.
3. Press the [ENTER] key to confirm the setting.

#### 📌 Note:

Please set your bandwidth consumption in accordance with your Internet bandwidth subscribed from your ISP.

### ⌘ Network Mode

The Network Mode function is used for network configuration.

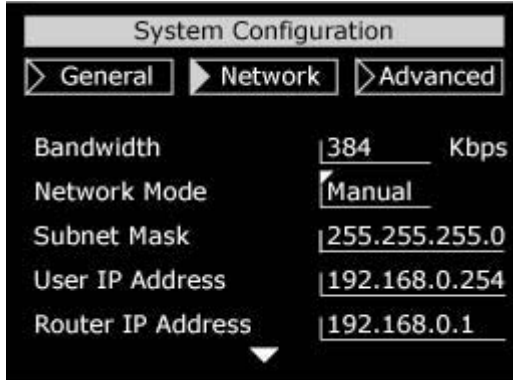
You can get the network setup information from your Internet Service Provider (ISP).

1. Network → select “Network Mode.”
2. Press the [▲] or [▼] key to select the network mode.
  - Manual – Fixed IP Mode. Acquire the subnet mask address, user IP address, and router IP address from your ISP.
  - DHCP – Dynamic Host Configuration Protocol is used to auto-assign IP addresses within a LAN.
  - PPPoE – PPPoE (Point-to-Point Protocol over Ethernet) protocol is used by many Internet Service Providers. A PPPoE user name and PPPoE

password should be provided.

3. Press the [ENTER] key to confirm the setting.

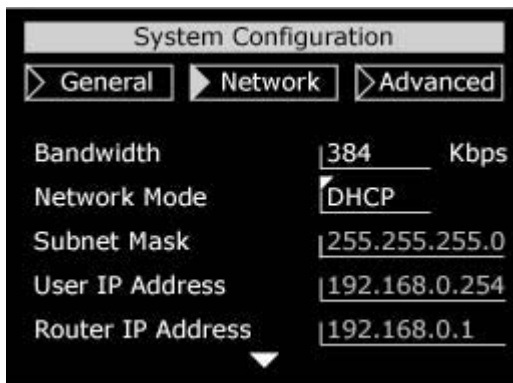
#### A. Manual



If your ISP provides you with one or more static IP addresses, you can setup your network manually. However, you have to acquire subnet mask, user IP address, and router IP address from your ISP.

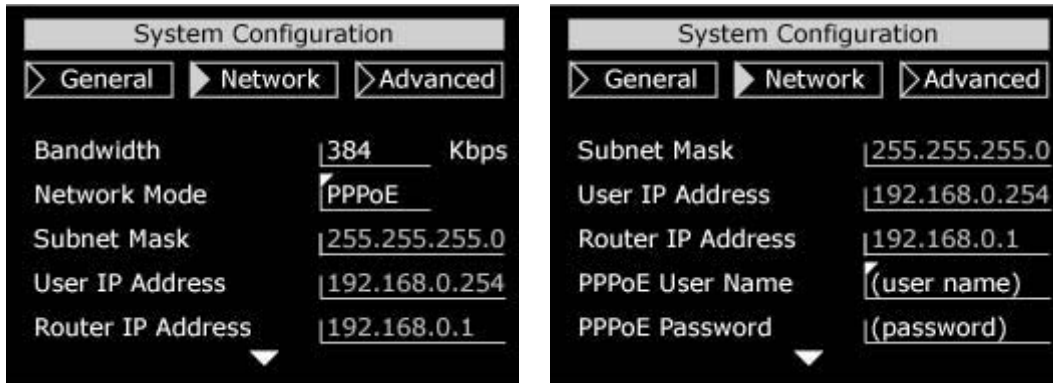
1. Network → Bandwidth → Press [▲] or [▼].  
Select a proper bandwidth in compliance with your Internet transmission speed.
2. Network → Network Mode → Press [▲] or [▼]. Select “Manual” mode.
3. Network → Subnet Mask → input your subnet mask.
4. Network → User IP Address → input your user IP address.
5. Network → Router IP Address → input your router IP address.
6. Press [ESC] to save your settings.

#### B. DHCP



1. Network → Network Mode → Press [▲] or [▼]. Select “DHCP” mode.
2. Press [ESC] to save your settings.

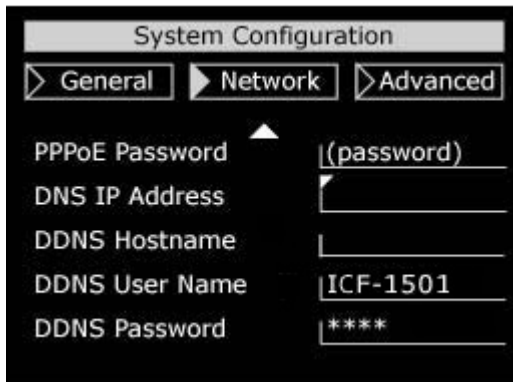
### C. PPPoE



If your ISP provides you with a dynamic IP address, you can set your network mode to PPPoE. However, you have to acquire a PPPoE connection user name and password from your ISP.

1. Network → Network Mode → Press [▲] or [▼]. Select “PPPoE” mode.
2. Network → PPPoE User Name → input your PPPoE user name.
3. Network → PPPoE Password → input your PPPoE password.
4. Press [ESC] to save your settings.

### ⌘ DNS IP Address



1. Network → select “DNS IP Address.”
2. Press [ENTER] and use keyboard to input your DNS IP address.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

#### 📌 Note:

Please register your DDNS on <http://www.dyndns.org>

1. Please choose “Account” item.
2. After registering, the user will get DDNS user name and password.
3. After login, please enter add Host Services of my service. Then user can get the hostname.



### ⌘ DDNS Hostname

Dynamic DNS hostname setup.

1. Network → select “DDNS Hostname.”
2. Press [ENTER] and use the number key to input your DDNS hostname.
  - \* Press “Ⓜ” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

### ⌘ DDNS User Name

Dynamic DNS user name setup.

(The machine only supports the DDNS service provided from

<http://www.syndns.orgDDNS>)

1. Network → select “DDNS User Name.”
2. Press [ENTER] and use the number key to input your DDNS user name.
  - \* Press “Ⓜ” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

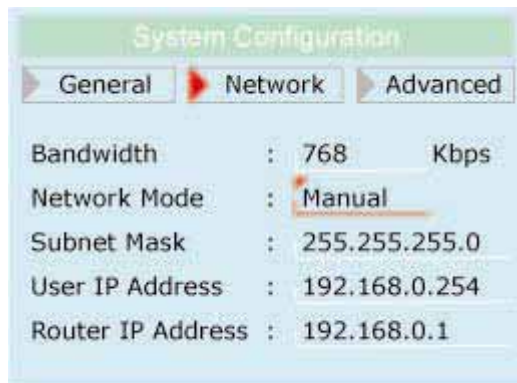
### ⌘ DDNS Password

Dynamic DNS password setup.

1. Network → select “DDNS Password.”
2. Press [ENTER] and use the number key to input your DDNS password. (You can also use the keypad to key in numbers and letters. The capacity is 30 digits.)
  - \* Press “Ⓜ” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

After all settings, please press [ESC] to save your settings.

## 5.3 Network (ICF-1550)



### ⌘ Bandwidth

Select appropriate bandwidth in compliance with your Internet transmission speed when placing a call.

1. Network → select “Bandwidth.”
2. Press the [▲] or [▼] key to select the bandwidth you need.
  - No Limit – there is no bandwidth limit.
  - 768 – the maximum bandwidth is 768 Kbps.
  - 512 – the maximum bandwidth is 512 Kbps.
  - 384 – the maximum bandwidth is 384 Kbps.
  - 256 – the maximum bandwidth is 256 Kbps.
  - 128 – the maximum bandwidth is 128 Kbps.
3. Press the [ENTER] key to confirm the setting.

#### 📌 Note:

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### ⌘ Network Mode

The Network Mode function is used for network configuration.

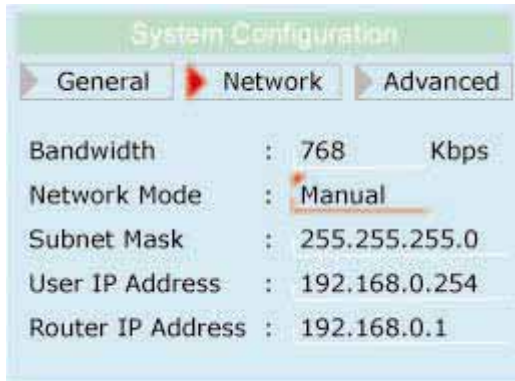
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  - DHCP – Dynamic Host Configuration Protocol is used to auto-assign IP addresses within a LAN.
  - PPPoE – PPPoE (Point-to-Point Protocol over Ethernet) protocol is used by

many Internet Service Providers. A PPPoE user name and PPPoE password should be provided.

3. Press the [ENTER] key to confirm the setting.

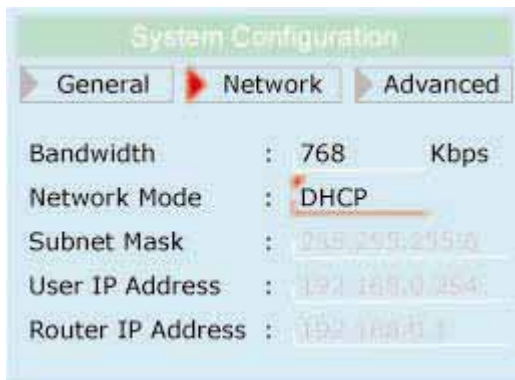
#### D. Manual



If your ISP provides you with one or more static IP addresses, you can setup your network manually. However, you have to acquire subnet mask, user IP address, and router IP address from your ISP.

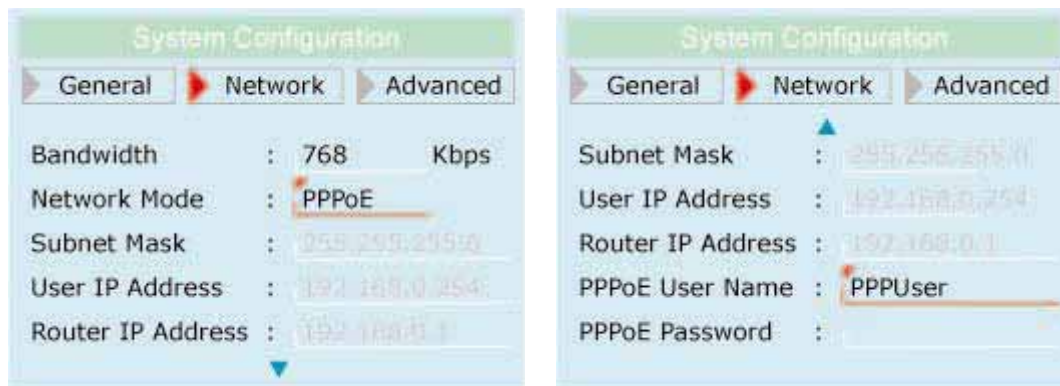
1. Network → Bandwidth → Press [▲] or [▼].  
Select a proper bandwidth in compliance with your Internet transmission speed.
2. Network → Network Mode → Press [▲] or [▼]. Select “Manual” mode.
3. Network → Subnet Mask → input your subnet mask.
4. Network → User IP Address → input your user IP address.
5. Network → Router IP Address → input your router IP address.
6. Press [ESC] to save your settings.

#### E. DHCP



1. Network → Network Mode → Press [▲] or [▼]. Select “DHCP” mode.
2. Press [ESC] to save your settings.

## F. PPPoE

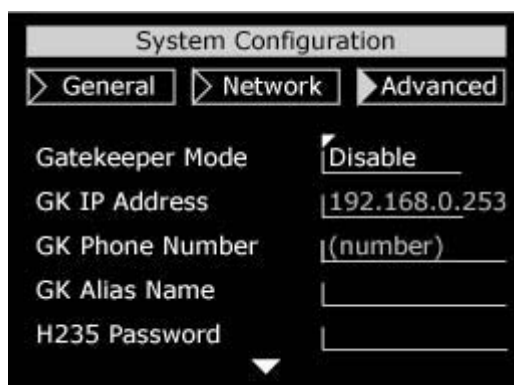


If your ISP provides you with a dynamic IP address, you can set your network mode to PPPoE. However, you have to acquire a PPPoE connection user name and password from your ISP.

1. Network → Network Mode → Press [▲] or [▼]. Select “PPPoE” mode.
2. Network → PPPoE User Name → input your PPPoE user name.
3. Network → PPPoE Password → input your PPPoE password.
4. Press [ESC] to save your settings.

After all settings, please press [ESC] to save your settings.

## 5.4 Advanced (ICF-1501)



### ⌘ Gatekeeper Mode

When register a gatekeeper, you can assign a number to the Video Phone. This makes the Video Phone user-friendly, as users only have to dial a number instead of entering an IP address when making a call.

1. Advanced → select “Gatekeeper Mode.”
2. Press [▲] or [▼] to select the setting you want.
  - Disable – Not to register a gatekeeper.
  - Auto – Auto search for a gatekeeper IP address.

Manual – User must input a gatekeeper IP address.

3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.
4. If the gatekeeper mode is set to “Manual”, please continue setting up “GK IP Address”, “GK Phone Number”, “GK Alias Name”, and “H.235 Password.”

### ⌘ GK IP Address

Enter the gatekeeper IP address assigned to the machine. (Please acquire subnet mask address from your ISP.)

1. Advanced → select “GK IP Address.”
2. Press [ENTER] and use number keys to input your gatekeeper IP address.  
Press “Ⓜ” to delete a word; press [◀] to delete all.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

### ⌘ GK Phone Number

You can register a phone number at the gatekeeper to make the dialing of Video Phone more user-friendly.

(Please set your gatekeeper mode to “Manual” or “Auto.” Contact your gatekeeper service provider for gatekeeper registration.)

1. Advanced → select “GK Phone Number.”
2. Press [ENTER] and use number keys to input your GK phone number.  
(The capacity is 30 digits.)  
\* Press “Ⓜ” to delete a word. Press “\*” to input a dot.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

### ⌘ GK Alias Name

You can register a name or number at the gatekeeper to make the dial of Video Phone more user-friendly.

(Please set your gatekeeper mode to “Manual” or “Auto.” Contact your gatekeeper service provider for gatekeeper registration.)

The alias name is the GK name given to the Machine by GK Manager. It may be used in place of an IP address when dialing H.323 calls.

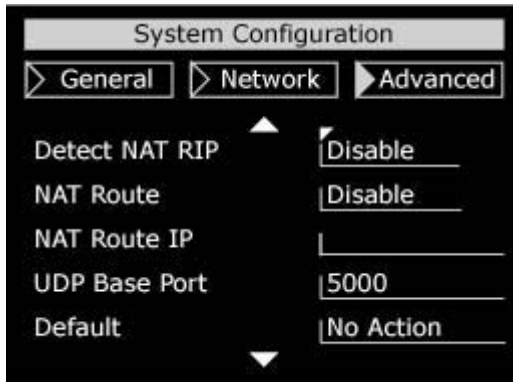
1. Advanced → select “GK Alias Name.”
2. Press [ENTER] to enter the on-screen keyboard to input your GK alias name.  
(You can also use the keypad to key in numbers and letters. The capacity is 30 digits.)  
\* Press “Ⓜ” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

### ⌘ H235 Password

Please enter your H.235 password here.

1. Advanced → select “H235 Password.”
2. Press [ENTER] to enter the on-screen keyboard to input your H.235 password.
  - \* Press “Ⓡ” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

### ⌘ Detect NAT RIP



NAT RIP is the abbreviation of “Network Address Translation” and “Routing Information Protocol.” By enabling this function, the Video Phone can detect if the other is under NAT mode.

1. Advanced → select “Detect NAT RIP.”
2. Press [▲] or [▼] to select Enable or Disable.
3. Press [ENTER] to save the setting.

### ⌘ NAT Route

If you’re a virtual IP user, please enable this function and continue setting the NAT route IP.

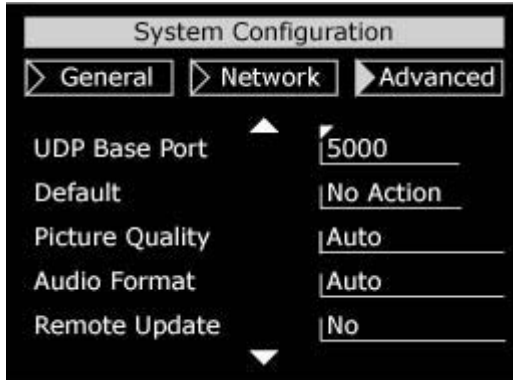
1. Advanced → select “NAT Route.”
2. Press [▲] or [▼] to select Enable or Disable.
3. Press [ENTER] to save the setting.

### ⌘ NAT Route IP

1. Advanced → select “NAT Route IP.”
2. Press [ENTER] to enter the on-screen keyboard to input the NAT router IP address.

3. Press [▼] to select “OK” and press [ENTER] to save the setting.

### ⌘ UDP Base Port



UDP Base port is for transmit audio and video data. The port number is set to 5000 by default. (If you set it over the maximum number 65536, system will adjust it to 65000 automatically.) If you're not using NAT, you may skip this item.

1. Advanced → select “UDP Base Port.”
2. Press [ENTER] and input the UDP Base port number.
3. Press [▼] to select “OK” and press [ENTER] to save the setting.

### ⌘ Default

You can use this function to initialize System Configuration to default value.

1. Advanced → select “Default.”
2. Press [▲] or [▼] to select the setting you want.
  - No Action – Retain the present setting
  - Configuration – Initiate system configurations to default value
  - Phone Book – Initiate phone book to default value
  - Call History – Initiate call history record to default value
3. Press [ENTER] to return to the previous page.

### ⌘ Picture Quality

This function is responsible for the video quality sent to the remote site. There are four kinds of format (Auto, CIF, QCIF, SQCIF) provided.

1. Advanced → select “Picture Quality.”
2. Press [▲] or [▼] to select the setting you want.
  - Auto – The system automatically switches for the best picture quality.
  - CIF – It is ISO standard of Sharp. (352 × 288 pixels)
  - QCIF – It is ISO standard of Good. (176 × 144 pixels)
  - SQCIF – It is ISO standard of Smooth. (128 × 96 pixels)

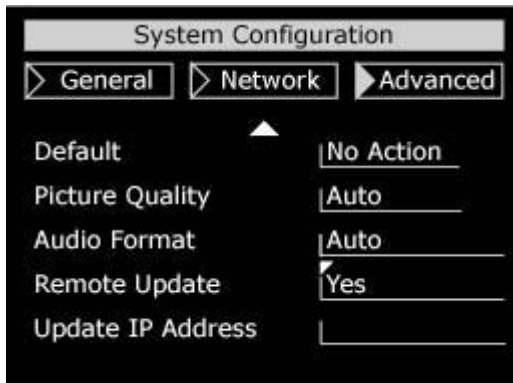
3. Press [ENTER] to confirm the setting.
  - \* While bandwidth is low, low-resolution image format (QCIF or SQCIF) is suggested for getting real-time image.

### ⌘ Audio Format

The audio format can be adjusted to compensate for audio distortion caused by high packet loss. Select a proper audio protocol for audio transmission.

1. Advanced → select “Audio Format.”
2. Press [▲] or [▼] to select the setting according to your need.
  - Auto – The system automatically switches. (Default)
  - G. 711 – 64Kbps
  - G. 723 – 6.3Kbps
  - G.729 – 8Kbps
3. Press [ENTER] to confirm and save the setting.

### ⌘ Remote Update



Remote Update provides users to upgrade system software. (Remote Update function enables users to upgrade Video Phone software online.)

1. Advanced → select “Remote Update.”
2. Press [ENTER] and select Yes if you want to do remote update.
3. Press [ENTER] to confirm the setting and go on to the next step.

### ⌘ Update IP Address

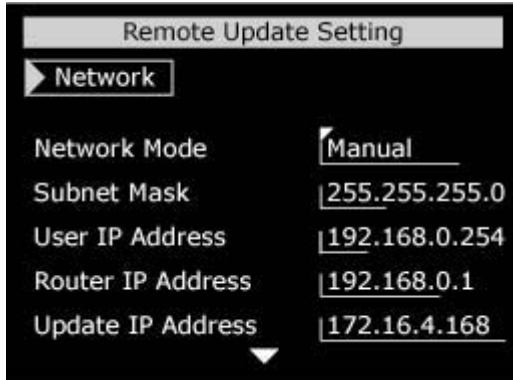
1. Advanced → select “Update IP Address.”
2. Press [ENTER] and input the update IP address.
3. Use the [▼] key to select “OK.”
4. Press [ESC] to save the setting and start updating the software.



## ⌘ Upgrading the System Software

Please set the network mode to “Manual”, “DHCP”, or “PPPoE” first.

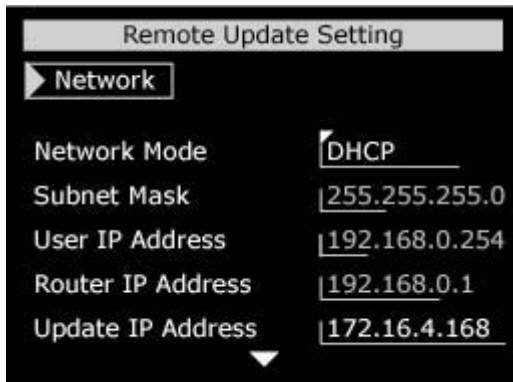
### Manual



The screenshot shows a terminal window titled "Remote Update Setting". A "Network" menu item is highlighted with a right-pointing arrow. Below it, the "Network Mode" is set to "Manual". Other settings include Subnet Mask (255.255.255.0), User IP Address (192.168.0.254), Router IP Address (192.168.0.1), and Update IP Address (172.16.4.168). A small downward-pointing arrow is visible at the bottom right of the settings area.

1. Use the number keys to input your subnet Mask IP address.  
(You can also use the keypad to input characters directly.)
2. Use the number keys to input your User IP address.
3. Use the number keys to input your Router IP address.
4. Use the number keys to input your Update IP address.
5. Press [ESC] to save the setting and start upgrading the software.  
(It will take about fifteen seconds to start upgrading. Please wait patiently.)

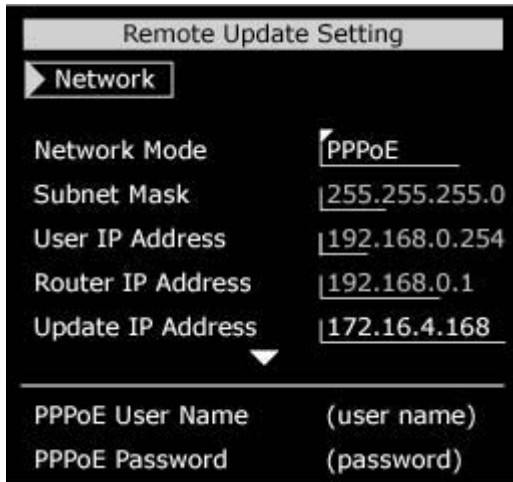
### DHCP



The screenshot shows a terminal window titled "Remote Update Setting". A "Network" menu item is highlighted with a right-pointing arrow. Below it, the "Network Mode" is set to "DHCP". Other settings include Subnet Mask (255.255.255.0), User IP Address (192.168.0.254), Router IP Address (192.168.0.1), and Update IP Address (172.16.4.168). A small downward-pointing arrow is visible at the bottom right of the settings area.

1. Use the [▼] key to go to Update IP Address and input your Update IP address.
2. Press [ESC] to save the setting and start upgrading the software.  
(It will take about fifteen seconds to start upgrading. Please wait patiently.)

## PPPoE

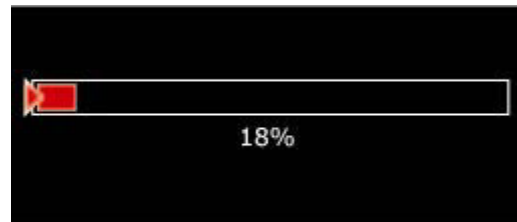
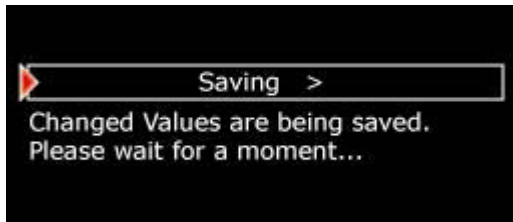


(PPPoE user name and PPPoE password under “Network” menu must be set.)

1. Use the [▼] key to go to Update IP Address and input your Update IP address.
2. Press [ESC] to save the setting and start upgrading the software.

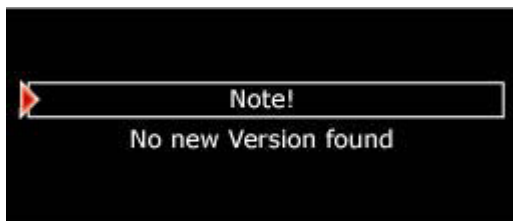
(It will take about fifteen seconds to start upgrading. Please wait patiently.)

After network setting, press the [Speaker] key to save the settings and start updating.



After updating, system will restart automatically. (Please wait for about fifteen seconds.)

If there is no upgrade file to update, the screen will return to Remote Update page. Press [Menu] and then press [ENTER]. The system will restart automatically and return to standby mode. (Please wait for about ten seconds.)



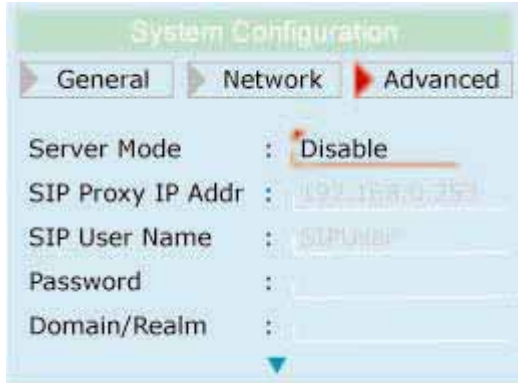
### Note:

The system only accepts the redaction software higher than original.

## ⌘ Exit System Configuration

Please press the [ESC] button to exit the system configuration.

## 5.5 Advanced (ICF-1550)



### ⌘ Server Mode

You can choose to use a SIP server or not here in this item.

When the ICF-1550 is registered on a SIP server, it is provided related setup information. SIP can offer callers a choice of ways of reaching a person. Using SIP makes the ICF-1550 user-friendly, as users only have to dial the “SIP user name” instead of entering a user IP address when making a call.

1. Advanced → select “Server Mode.”
2. Press [▲] or [▼] to select the setting you want.  
Disable – Not to register a SIP server.  
Proxy – To register a SIP server and use it for communication.
3. Press [ENTER] to confirm the setting and return to the previous page.

\*\*\* If you set this item to “Proxy”, please continue setting the “SIP Proxy IP Addr”, “SIP User Name”, “Password”, “Domain/Realm” and “Port” items. Detailed setup instructions are as follows.

### ⌘ SIP Proxy IP Addr (SIP Proxy IP Address)

Enter the SIP Proxy IP address assigned to the machine.

1. Advanced → select “SIP Proxy IP Addr.”
2. Press [ENTER] and use the on-screen keyboard to input your SIP proxy IP address.  
Press “®” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

### ⌘ SIP User Name

The SIP server will assign a phone number for the ICF-1550 to make the dialing of ICF-1550 more user-friendly.

(Please set your server mode to “Proxy.” Then ICF-1550 can contact each other by dialing the other’s SIP user name.)

1. Advanced → select “SIP User Name.”
2. Press [ENTER] and use the on-screen keyboard to input your SIP user name.  
(The capacity is 30 digits.)
  - \* Press “Ⓜ” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

### ⌘ Password

Please enter the password assigned by the SIP server.

1. Advanced → select “Password.”
2. Press [ENTER] to enter the on-screen keyboard to input your password.  
(You can also use the keypad to key in numbers and letters. The capacity is 30 digits.)
  - \* Press “Ⓜ” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

### ⌘ Domain/Realm

Please enter your domain/realm provided by the SIP server here.

1. Advanced → select “Domain/Realm.”
2. Press [ENTER] to enter the on-screen keyboard to input your domain/realm.
  - \* Press “Ⓜ” to delete a word; press “\*” to input a dot; press “Ⓟ” to switch between upper case and lower case letters and numerals.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

## ⌘ Port



Port is used for register a SIP server. Most of the time, the port number is 5060. If the SIP server specially assigns a port number to you, please use the number assigned.

1. Advanced → select “Port.”
2. Press [ENTER] and use the number keys to input the port number you use.
3. Press [▼] to select “OK” and press [ENTER] to return to the previous page.

## ⌘ Default

You can use this function to initialize System Configuration to default value.

1. Advanced → select “Default.”
2. Press [▲] or [▼] to select the setting you want.
  - No Action – Retain the present setting
  - Configuration – Initiate system configurations to default value
  - Phone Book – Initiate phone book to default value
  - Call History – Initiate call history record to default value
3. Press [ENTER] to return to the previous page.

## ⌘ Picture Quality

This function is responsible for the video quality sent to the remote site. There are three kinds of format (Auto, CIF, QCIF) provided.

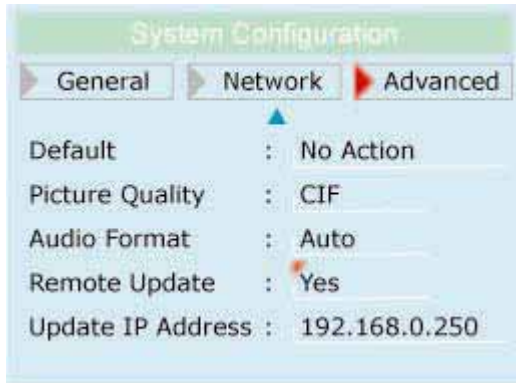
1. Advanced → select “Picture Quality.”
2. Press [▲] or [▼] to select the setting you want.
  - Auto – The system automatically switches for the best picture quality.
  - CIF – It is ISO standard of Sharp. (352 × 288 pixels)
  - QCIF – It is ISO standard of Good. (176 × 144 pixels)
  - SQCIF – It is ISO standard of Smooth. (128 × 96 pixels)
3. Press [ENTER] to confirm the setting.
  - \* While bandwidth is low, low-resolution image format (QCIF or SQCIF) is suggested for getting real-time image.

### ⌘ Audio Format

The audio format can be adjusted to compensate for audio distortion caused by high packet loss. Select a proper audio protocol for audio transmission.

1. Advanced → select “Audio Format.”
2. Press [▲] or [▼] to select the setting according to your need.
  - Auto – The system automatically switches. (Default)
  - G.711 – 64Kbps
  - G.723 – 6.3Kbps
  - G.729 – 8Kbps
3. Press [ENTER] to confirm and save the setting.

### ⌘ Remote Update



Remote Update provides users to upgrade system software. (Remote Update function enables users to upgrade Video Phone software online.)

1. Advanced → select “Remote Update.”
2. Press [ENTER] and select Yes if you want to do remote update.
3. Press [ENTER] to confirm the setting and go on to the next step.

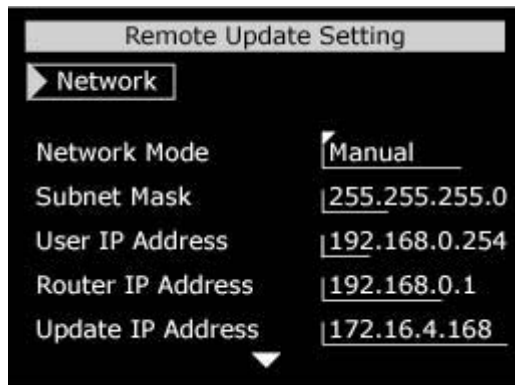
### ⌘ Update IP Address

1. Advanced → select “Update IP Address.”
2. Press [ENTER] and input the update IP address.
3. Use the [▼] key to select “OK.”
4. Press [ESC] to save the setting and start updating the software.

### ⌘ Upgrading the System Software

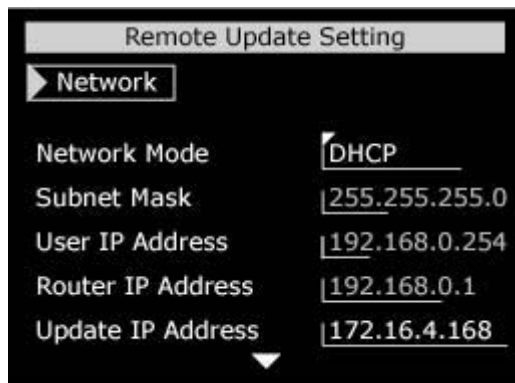
Please set the network mode to “Manual”, “DHCP”, or “PPPoE” first.

## Manual



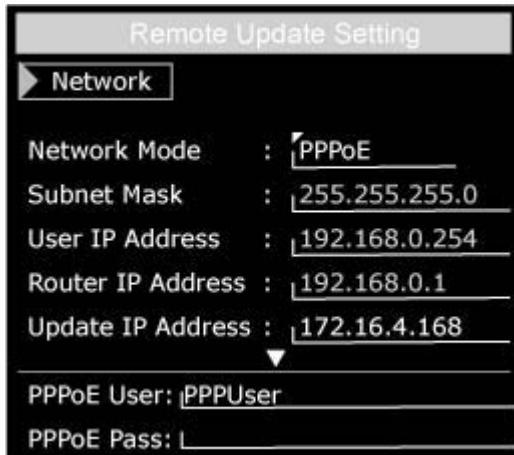
1. Use the number keys to input your subnet Mask IP address.  
(You can also use the keypad to input characters directly.)
2. Use the number keys to input your User IP address.
3. Use the number keys to input your Router IP address.
4. Use the number keys to input your Update IP address.
5. Press [ESC] to save the setting and start upgrading the software.  
(It will take about fifteen seconds to start upgrading. Please wait patiently.)

## DHCP



1. Use the [▼] key to go to Update IP Address and input your Update IP address.
2. Press [ESC] to save the setting and start upgrading the software.  
(It will take about fifteen seconds to start upgrading. Please wait patiently.)

## PPPoE

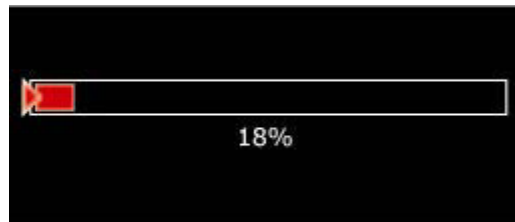
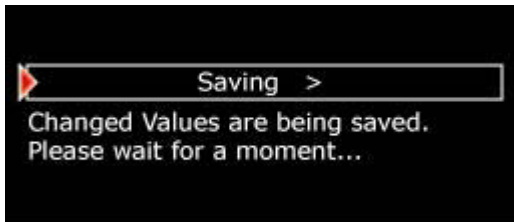


(PPPoE user name and PPPoE password under “Network” menu must be set.)

1. Use the [▼] key to go to Update IP Address and input your Update IP address.
2. Press [ESC] to save the setting and start upgrading the software.

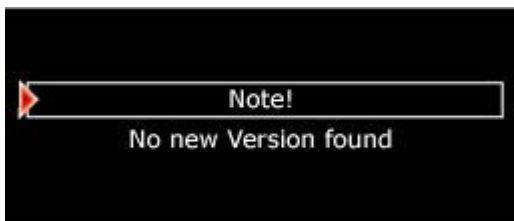
(It will take about fifteen seconds to start upgrading. Please wait patiently.)

After network setting, press the [Speaker] key to save the settings and start updating.



After updating, system will restart automatically. (Please wait for about fifteen seconds.)

If there is no upgrade file to update, the screen will return to Remote Update page. Press [Menu] and then press [ENTER]. The system will restart automatically and return to standby mode. (Please wait for about ten seconds.)



### Note:

The system only accepts the redaction software higher than original.



## ⌘ Exit System Configuration

Please press the [ESC] button to exit the system configuration.

## 5.6 Selecting A/V Source

Video Phone supports one external A/V input channel and one A/V output channel.  
(A/V In – EXT; A/V Out – Main)

### ⌘ Selecting Video Source



1. Press the [Channel] button.
2. Use [▲] or [▼] to enter Video Channel Selection.
3. User [◀] or [▶] to switch channels.

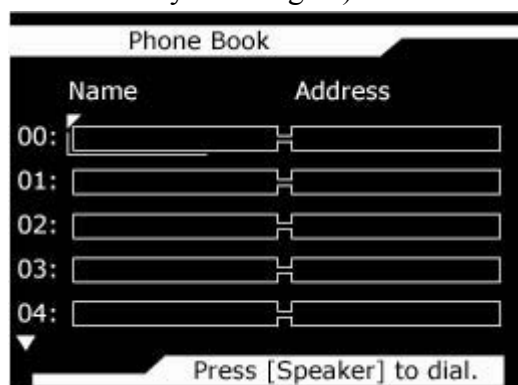
### ⌘ Selecting Audio Source



1. Press the [Channel] button.
2. Use [▲] or [▼] to enter Audio Channel Selection.
3. User [◀] or [▶] to switch channels.

## 6 Phone Book Setup

The Video Phone provides an address book to store up to 100 access names and their IP addresses. You can make a speed dial directly from the phone book. (The capacity for each entry is 30 digits.)



1. In standby mode, press [**Phone Book**] to enter the phone book sheet.
2. Use [**▲**] or [**▼**] to select an entry for storing name and IP address.
3. Press the [**ENTER**] key to input the name or IP address.
4. Press [**▼**] to select "OK." Press [**ENTER**] to confirm the setting.
5. Press [**ESC**] to leave phone book sheet and return to standby mode.

### *Quick search address:*

If you want to search the thirty-second phone address, you may setup the following steps.

1. You can press [**Phone Book**] and press "3" in the remote control.
2. Then the sign will move to the thirtieth address.
3. User can use the [**▼**] key to move to the 32 one.

### 6.1 Input Characters

Select one entry from the phone book and press the [**ENTER**] button to enter the alphabet, number, and symbol chart.

1. Use the cursor to select the letter, digit, or symbol.
2. Use [**ENTER**] to confirm and input the letter, digit, or symbol you chose. (You can also use keypad to input characters directly.)
  - \* Press "®" to delete a word; press "\*" to input a dot; press "P" to switch between upper case and lower case letters and numerals.

3. Press [▼] to select “OK”, and press [ENTER] to return to the previous page.

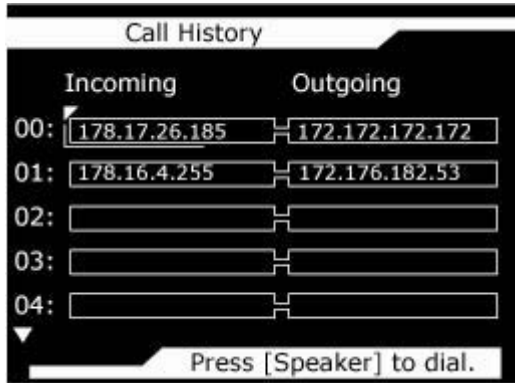
## 6.2 Input IP Address

Select one entry from the phone book and press the [ENTER] button to enter IP addresses.

1. Please use the number keys to input the user IP address.
  - \* Press “®” to delete a word; press “\*” to input a dot; press [◀] delete all.
2. Press the [▼] key to select “OK” and press [ENTER] to return to the previous page.
3. Press [ESC] to leave phone book sheet and return to standby mode.

## 6.3 Ten Records Communicating by Phones

After communicating, press [Call History] to review the call history. The most recent ten incoming and outgoing IP records are kept in Call History.



The screenshot shows a screen titled "Call History" with two columns: "Incoming" and "Outgoing". The screen displays a list of records from 00 to 04. Record 00 shows an incoming IP of 178.17.26.185 and an outgoing IP of 172.172.172.172. Record 01 shows an incoming IP of 178.16.4.255 and an outgoing IP of 172.176.182.53. Records 02, 03, and 04 are empty. At the bottom, there is a prompt: "Press [Speaker] to dial."

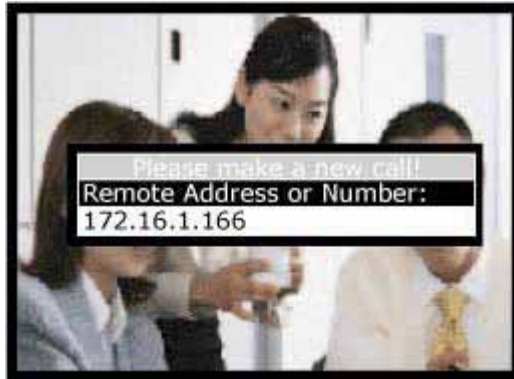
	Incoming	Outgoing
00:	178.17.26.185	172.172.172.172
01:	178.16.4.255	172.176.182.53
02:		
03:		
04:		

1. Press the [Call History] key to enter the call history sheet.
  - Press [◀] or [▶] to select record of incoming or outgoing calls.
  - Press [▲] or [▼] to select one of the recent ten records.
2. Press the [Speaker] key to connect.
3. After communicating, system will return to standby mode automatically.

## 7. General Operation

Before making a video call, please make sure that the unit has been installed and set up successfully.

When trying to make a video call, the user sees the following picture.



When connecting, the user sees the picture below.



### 7.1 Making Video Calls

#### Under General State

1. In standby mode, pick up the handset or press the [**Speaker**] button. Then dial the IP address of the remote site.
2. Press the [**ENTER**] button to confirm and commence the Internet connecting.
3. When the connection is set up successfully, the video communication will start and the remote site video will be shown on the screen of local site.
4. Please hang up the handset or press the [**Speaker**] again to end the Video Phone call.

### **By Using the Phone Book**

The phone book provides users a convenient way for retrieving the IP addresses of some regular called parties.

1. Press the [**Phone Book**] button to enter the phone book sheet.
2. Press the [**▲**] or [**▼**] key to select the name, or use [**◀**] or [**▶**] to select the IP address you want to call.
3. Press the [**Speaker**] button to make connection.
4. When the connection starts successfully, the remote site video will be shown on the screen of local site.
5. When finish, press the [**Speaker**] button to end the connection.

#### **Note:**

You can locate a certain entry promptly by entering the entry number.

1. In standby mode, press the [**Phone Book**] button to enter the phone book sheet.
2. Press “3” and “2”. The Video Phone will connect with the thirty-second IP address automatically after a moment.
3. When the connection is up successfully, the video communication will start and the remote site video will be shown on the screen of local site.
4. When finish, press the [**Speaker**] button to end the connection.

## **7.2 Making Phone Calls under PSTN**

1. Press the [**PSTN**] button on the panel.
2. Pick up the handset or press the [**Speaker**] key on the panel.
3. Input the number you want to call and press [**ENTER**] to make connection.
4. When finish, hang up the handset or press the [**Speaker**] button to end the connection.

## **7.3 Receiving Video Calls**

If the auto-answer mode is enabled, the Video Phone answers calls automatically.

If the auto-answer mode is disabled, users have to pick up the handset or press the [**Speaker**] button to answer phone calls.

## 8. On-line Operation

All the on-line operations can ONLY be done during communication.



### 8.1 Snapshot

The snapshot function captures the image from remote site. This function allows the two parties to see more details of the pictures.



1. Press the [**Snapshot**] button once to take a snapshot of the remote site image.
2. Press the [**Snapshot**] button again to release the image and return to current video call.

(The “Snapshot” will disappear once the captured image is released.)

### 8.2 Switching the Video and Audio Source

The Video Phone allows you to connect with one external video/audio source, such as a camera. When the external device is connected to the Video Phone, you can switch to the video and/or audio taken by the external device.

### ⌘ Video Channel Select



1. Press the [**Channel**] button.
2. Use [**▲**] or [**▼**] to switch to Video Channel Selection.
3. Use [**◀**] or [**▶**] to switch to the external video source.  
Main (Built-in) → EXT (from A/V In)
4. Press [**Channel**] or [**ESC**] button to save the setting and exit.

### ⌘ Audio Channel Select



1. Press the [**Channel**] button.
2. Use [**▲**] or [**▼**] to switch to Audio Channel Selection.
3. Use [**◀**] or [**▶**] to switch to the external audio source.  
Main (Built-in) → EXT (from A/V In)
4. Press [**Channel**] or [**ESC**] button to save the setting and exit.

## 8.3 Activating Video/Audio Mute

### ⌘ Activate Video Mute

If you want to temporarily stop video or audio transmission to the remote site during connection, you can use this function to conceal the local video or audio.

1. Press the [**Privacy**] button to enter Privacy function.
2. Use [**◀**] or [**▶**] to control video On/Off.

On: transmits video normally      Off: video cannot be transmitted

3. Press the [Privacy] button again to confirm the privacy setting mode.

### ⌘ Activate Audio Mute

1. Press the [Privacy] button to enter Privacy function.
2. Use [▲] or [▼] to select the Audio Channel.
3. Use [◀] or [▶] to control audio On/Off.

On: transmits audio normally      Off: audio cannot be transmitted

4. Press the [Privacy] button again to confirm the privacy setting mode.

☞ If you disable the “Auto-Answer Mode” in the system configuration, the A/V transmission setting function will be disabled.

### ⌘ Switching Images between Remote and Local Site

You can switch images between remote and local end by pressing the [Window] button. There are three types of image arrangement: remote + local, remote only, and local only.

## 8.4 Operation State

This function is to display the status of Network connecting, for example, connecting time, TX/RX Bit Rate as well as TX/RX Frame Rate and so on. For getting better quality, you can adjust the settings below under online mode.

TX: Transmitting Rate

RX: Receiving Rate

Encode: Encoding Rate

Decode: Decoding Rate





## 9. Troubleshooting

### 1. Boot up failure

- a) Please check if the power cord is correctly connected.
- b) Please make sure the power adapter is well connected to your Video Phone and the plug is well plugged into the socket. When the power supply is normal, the LED indicator is RED and it turns GREEN when you connect a network wire to your Video Phone.
- c) Please check if the power adapter is out of order. The LED indicator on the power adapter should be GREEN when power is on.

### 2. Connection failure

- a) Please check if the LAN cable is well connected to the RJ-45 LAN port of your Video Phone and make sure the RJ-45 joint on your network wire functions normally.
- b) Please check if your system configuration is correct.
- c) Please confirm if the IP address of the remote site is correct.

### 3. The Video Phone keeps ringing but doesn't establish the connection.

This is because you disable the auto-answer mode. In this case, you have to pick up the handset or press the [Speaker] button to answer the phone.

### 4. The picture is block or scrappy.

This is caused by bad Internet connection quality or insufficient bandwidth. We recommend that you set the picture quality to SQCIF (path: Menu → Advanced → Picture Quality) and set the bandwidth to 128Kbps.

### 5. Local image is blurry.

Please adjust the camera focus by using the camera focus tuning knob around the camera.

**6. Fail to response to inbound calls from LAN phone or VoIP gateway.**

- a) Please check with the caller if the VoIP equipment is H.323 / SIP 2.0 compliant.
- b) Please enter “General” in Menu to check if the Auto-Send Video is disabled. If not, please disable it.

**7. The remote site receives images but no sound from the local site.**

Please confirm if the audio mute function is on.

**8. Voice is unclear or discontinuous.**

Please set the speaker volume to normal degree. If the speaker volume is too low or too high, the echo cancellation mechanism could be overloading and thus damage sound quality.

**9. How to use the Video Phone if you don't have a static IP address?**

- a) If you have MIS staff, please turn to them for assistance.
- b) Please make sure if the router you use supports DMZ. Please contact the router manufacturer for setting problems.
- c) Please reboot the router after finishing DMZ setting.
- d) Please ping your IP address. If you fail to locate the IP address, there must be some errors in the router setting. Please go through the router setting and correct the errors.
- e) Machine configuration:

Network	H.323 (ICF-1501)
Network Mode: manual User IP Address: DMZ IP Router IP Address: Your static IP address for Gateway (If you don't know, please use the commend “ipconfig” in your computer to check it.)	Detect NAT RIP: enable

Network SIP 2.0 (ICF-1550)
Network Mode: manual User IP Address: DMZ IP Router IP Address: Your static IP address for Gateway (If you don't know,

please use the commend “ipconfig” in your computer to check it.)

**10. How to connect the machine with GATEWAY? (ICF-1501)**

- a) H.323: Audio Format: G.711  
Software keyboard: enable
- b) Dial number: (EX: 1004@211.72.147.254)

**11. How to check the firmware version of the Video Phone?**

Please press the [Status] button.

**12. How to set dynamic IP under PPPoE mode?**

Network setup as follows:

Network Mode: PPPoE

DDNS User Name:

DDNS Password: (Please contact your ISP for password.)

**13. Why the communication quality is poor?**

This is caused by poor Internet connection quality or insufficient bandwidth.

Please test your Video Phone bandwidth from 128Kbps and up till you get better quality communication. Meanwhile, you can also try to lower your Video Phone picture quality to lower the bandwidth consumption.

**14. How to upgrade your machine?**

Please refer to Video Phone upgrade instruction.