



# Internet Video Conference Phone

**ICF-1601**

**User's manual**

**Version 1.0**

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## **CE mark Warning**

The is a class B device, In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

## **WEEE Warning**



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.

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## **Revision**

User's Manual for PLANET Internet Video Conference Phone:

Model: ICF-1601

Rev: 1.0 (February, 2010)

Part No. EM-ICF1601v1.doc

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## Safety Instructions

Please follow the following safety instructions while you're using this PLANET video phone, or you could damage this video phone and yourself.

1. Do not place this video phone in high-humid and / or hot environment, like bathroom or kitchen. Please refer to the specification of this video phone to understand the environmental requirements of this phone.
2. This video phone is designed for indoor use; do not use this phone at places like garden or any other outdoor environment.
3. Do not point the video camera to strong light; it will damage the image sensor.
4. If you want to place this phone at high places, please make sure that the video phone is properly secured. Falling down from high places will damage this phone!
5. Do not drag any connected cord with force; the terminal and cord will be damaged.
6. Only use dry cloth with water to clean this video phone; do not use alcohol or other chemical solution to clean this phone.
7. There's no user-serviceable part inside this video phone; if the video phone is not working properly, please contact the dealer of purchase to ask for help.
8. Do not set the volume control of handset or headset to a too high setting; high volume could damage your ear if you use this video phone for too long time.
9. Do not put the video phone and / or A/C adapter on paper, cloth, or other flammable materials.
10. If you smell something strange or even see smoke coming out from the video phone or A/C adapter, disconnect the power cord immediately, and call your dealer of purchase for help.

# Chapter 1

## Introduction

### Overview

PLANET's Video Conferencing products, ICF-1601, bring you a video conferencing experience through the Internet. No PC is required and none of the usual complications of complex web camera, sound card and software settings and specialized data connections. Furthermore, the ICF-1601 has a built-in 5" LCD monitors in a telephone form factor ideal for desktop use.

Both devices are SIP compliant, which means you can have a seamless conferencing experience with other SIP compliant video conferencing systems, voice gateway, IP phones, ATA and IP PBX System. With SIP Proxy Server, MCU support, the ICF-1601 from PLANET make communications with your business partners quick and cost-effective.

The ICF-1601 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.

### Features

- SIP version 2 (RFC 3261) compliant
- 5" Color TFT-LCD display with video/audio output function
- Personalize phone ring tone
- Supports frame rate up to 30 fps
- User-friendly GUI Management
- Support H.264 Video Codec and G.711 and G.729A/B Audio Codec
- Compatible with SIP 2.0 Proxy server and peer to peer mode
- Built-in High Quality CMOS Camera
- Superior voice quality with Automatic Gain Control(AGC) and Acoustic Echo Cancellation(AEC) support
- Built-in Digital photo frame

### Package Content

The contents of your product should contain the following items:

- Quick Installation Guide
- User's Manual CD
- Ethernet cable x 1
- Power Adapter



Quick Installation Guide



CD-ROM



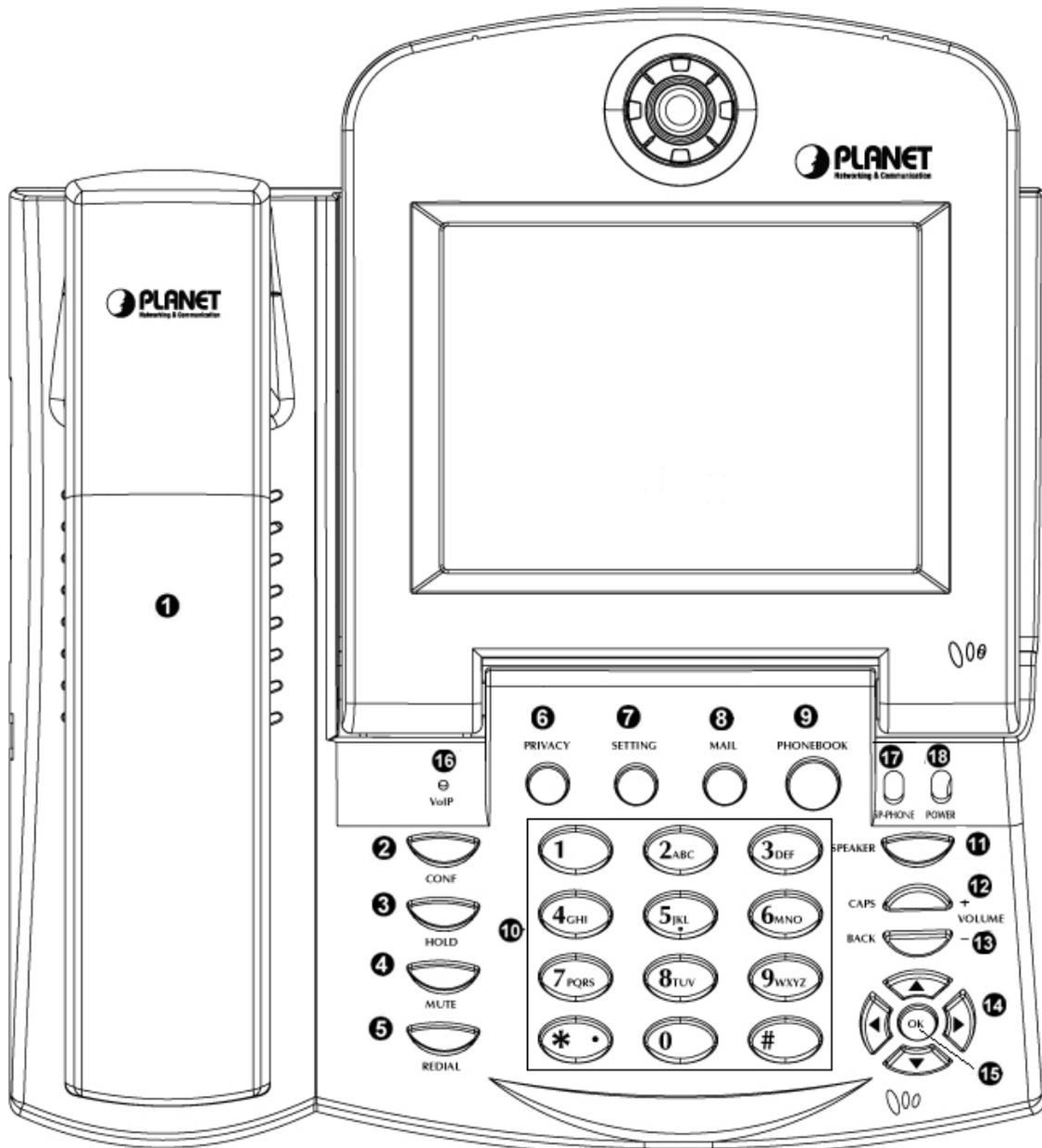
Ethernet Cable



Power Adapter

## Physical Details

The following figure illustrates the components of ICF-1601

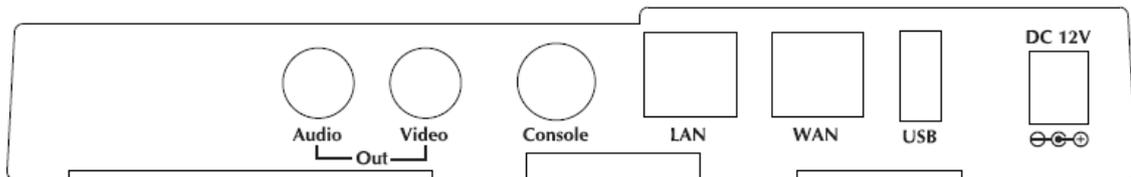


Item No.	Description	Item No.	Description
1	Handset	2	Conference key
3	Hold key	4	Mute key
5	Redial key	6	Privacy key
7	Setting key	8	Mail key
9	Phonebook key	10	Numeric Keypad
11	Speaker key	12	Volume + / Caps key
13	Volume - / Back key	14	UP/DOWN/LEFT/RIGHT key
15	OK key	16	VoIP LED
17	SP-Phone LED	18	Power LED

### LED Definition

Item No.	Description	Item No.	Description
Power	Green	On	Receiving Power
		Off	Not receiving Power
Register	Green	On	Ready to Dial
		Off	Not ready to Dial

### Rear View



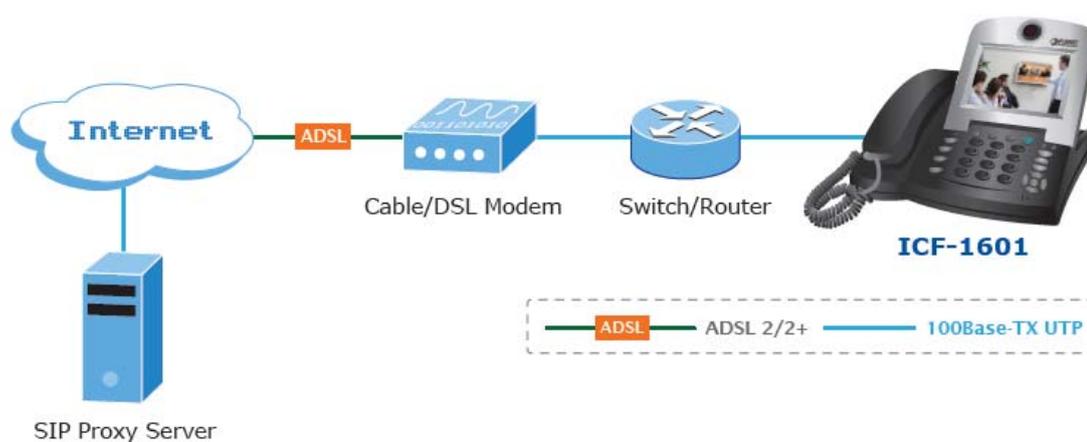
Item No.	Description	Item No.	Description
A	Power Jack	B	USB
C	WAN	D	LAN
E	Console(For Factory Debug ONLY)	F	Video Out
G	Audio Out		

# Chapter 2

## Installation

### Getting Start

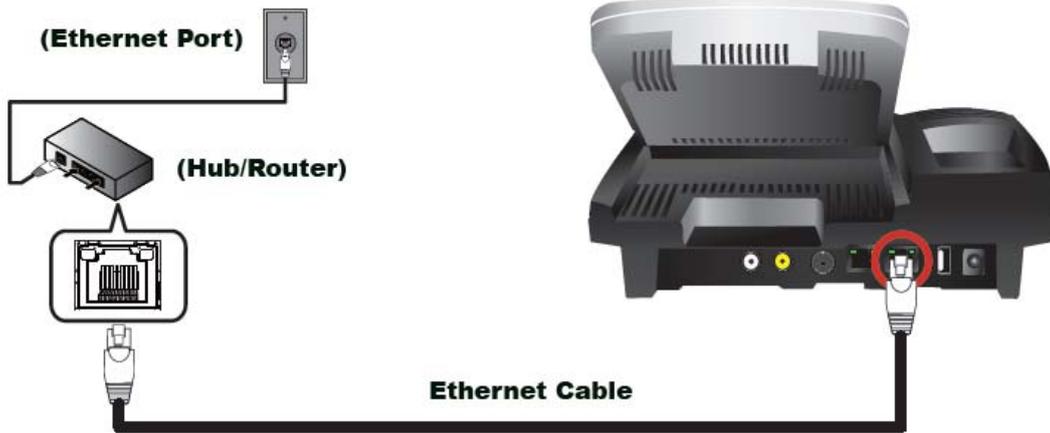
This chapter illustrates basic installation of ICF-1601, the processes is shown as below.



#### Step1: Connecting Handset



#### Step2: Connecting Ethernet Cable



**Step3:** Connecting AC Power Adapter



**Note: Only use the power adapter shipped with the unit to ensure correct functionality.**

---

**Note**

Only use the power adapter shipped with the unit to ensure correct functionality.

---

#### **Step4:** Configure the Network

##### **LCD menu configuration**

1. Press 『**Settings**』 to enter configuration menu.
2. Go to 『**System Settings**』 → 『**Network**』 to configure the network configuration.
3. Please base on your network to configure the network connection such as Static or DHCP.
4. Select 『**Net Settings**』 → 『**Bridge or NAT mode**』 and then select 『**Interface**』 → 『**Fixed IP/DHCP/PPPoE**』 and press **OK** to choose the network configuration.
5. If select 『**Fixed IP**』 , you can press up/down key to configure the IP address, then press **OK** to save the changes.

## Chapter 3

### LCD Menu

#### Main Menu

When ICF-1601 connects to the power unit, the Welcome Screen will display after finished boot-up sequence. Then, the phone will stay at Main Menu.



And there are options for Phone book, Call log, Setting, Digital Photo Frame and Device Information in this Main Menu.

#### Phone Book

In Main Menu, use the down arrow navigate key to move the cursor to **Phone Book** option and press **OK** to enter Phone book setting page.

There are three options:

**All Contracts**, Search and **Delete All**.



- **All Contacts** : Shows all contact list
- **Search** : Search for a specified phones from contact list
- **Delete All** : Delete all from contact List

### All Contracts

You can see **All Contracts** from this menu.



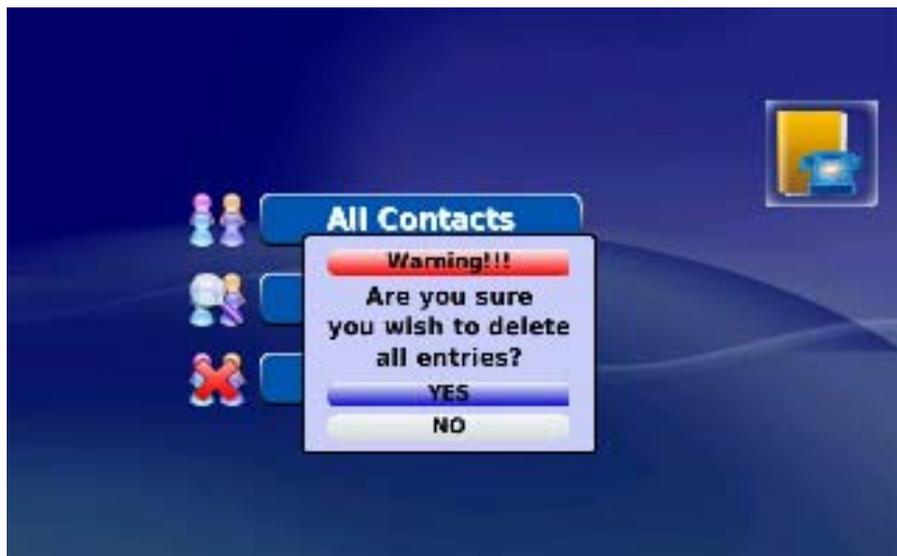
## Search

You can **Search** the contact either by name or number.



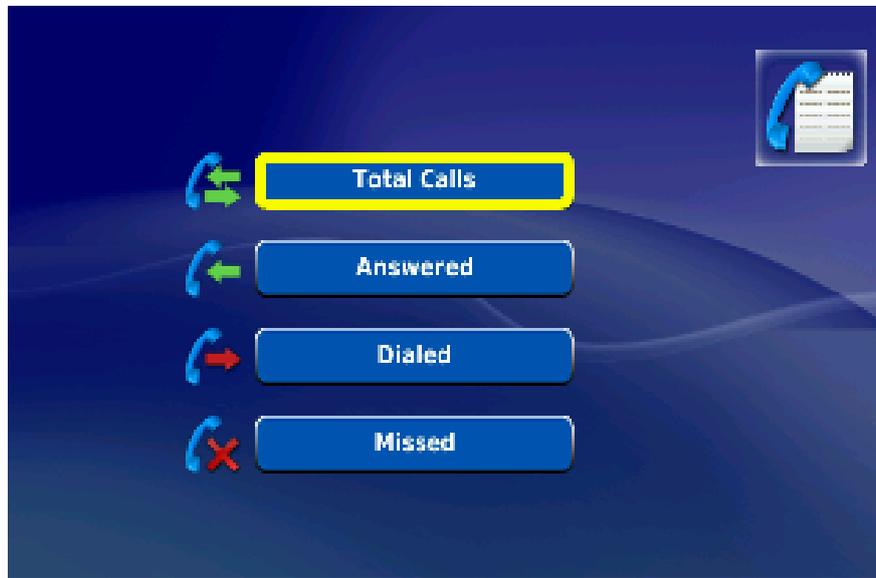
## Delete All

Press **YES** to delete All Contracts, press **NO** to exit this option.



## Call Logs

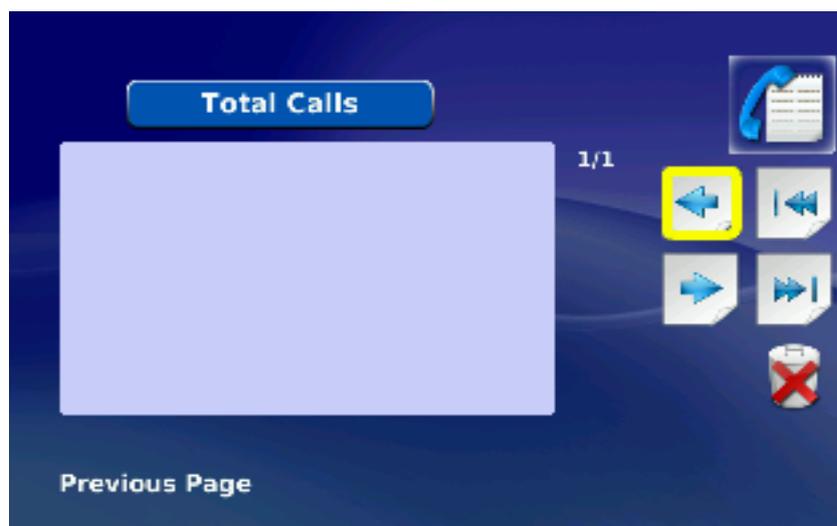
In Main Menu use down arrow navigate key to move the cursor to **Call Log** option and press **OK** to enter the setting page



- **Total Calls** : Shows All calls
- **Answered** : Shows All answered calls
- **Dialed** : Shows All dial out calls
- **Missed** : Shows All un-answered calls

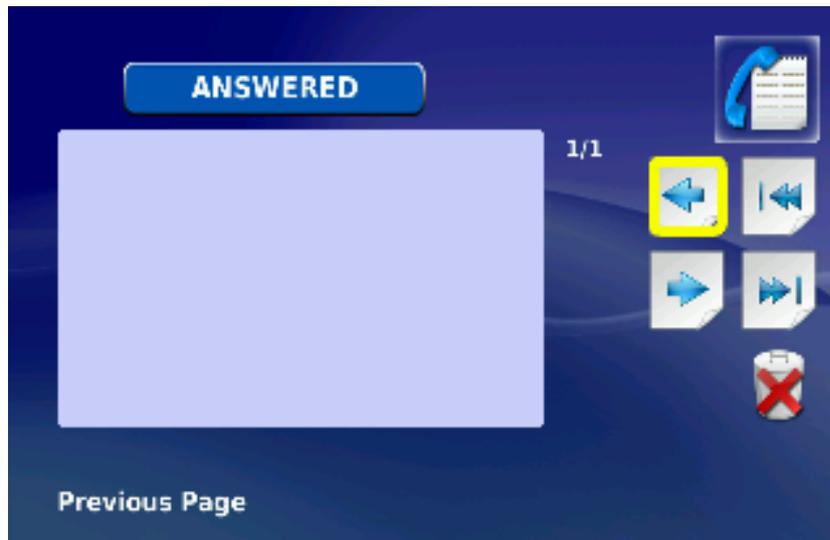
## Total Calls

To view the Total calls list.



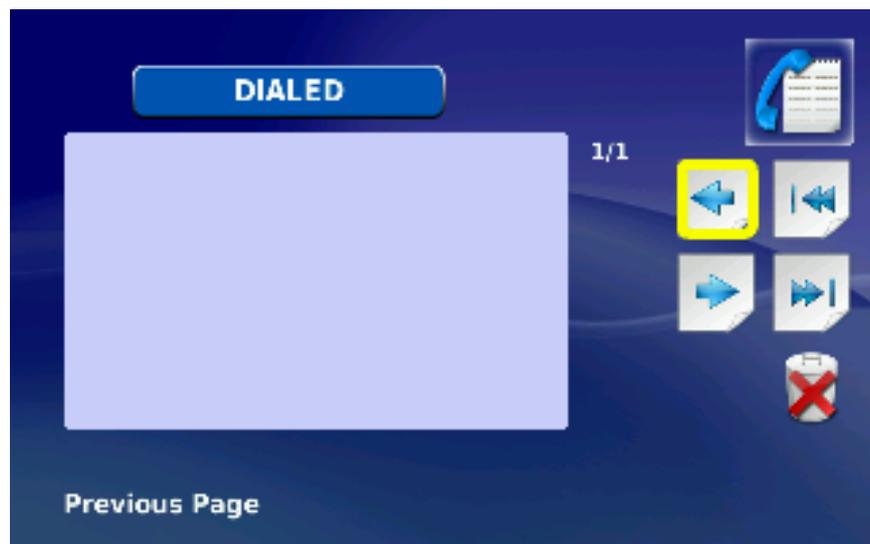
## Answered

To view the Answered calls list.



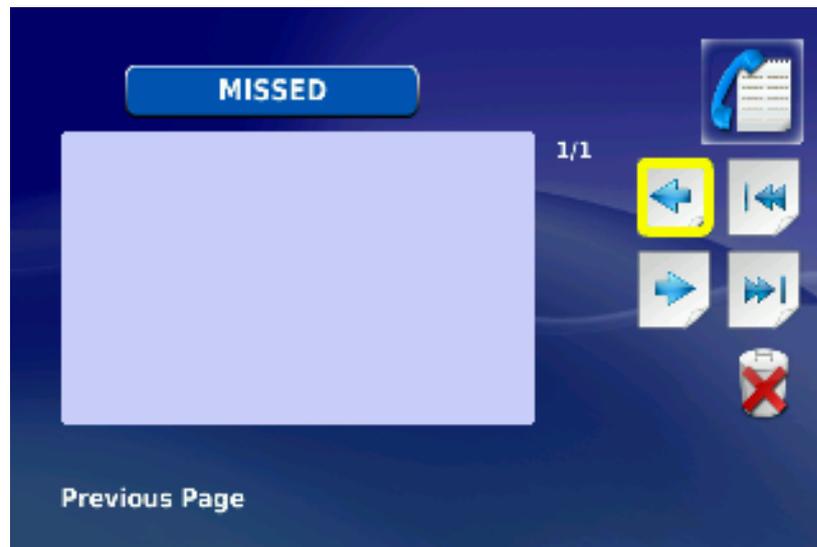
## Dialed

The view the Dialed Calls list.



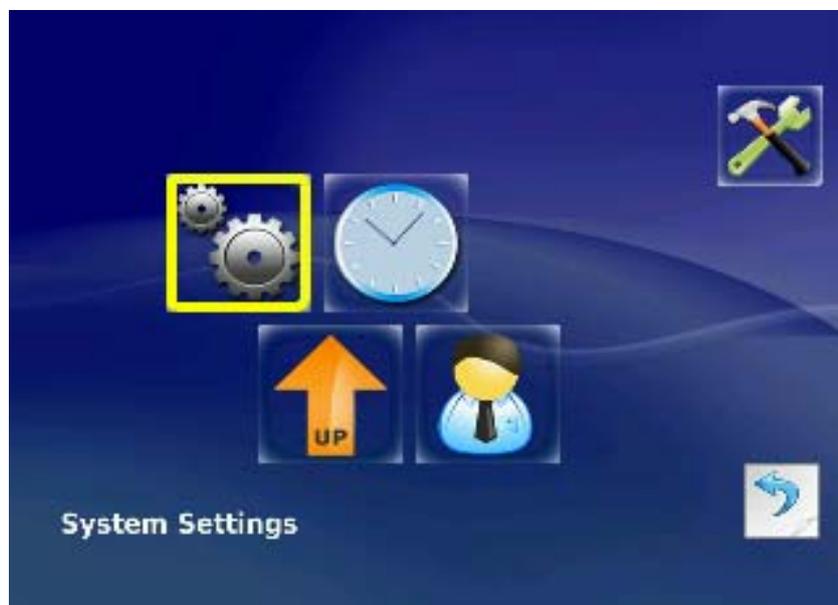
## Missed

To view the Missed calls list.



## Settings

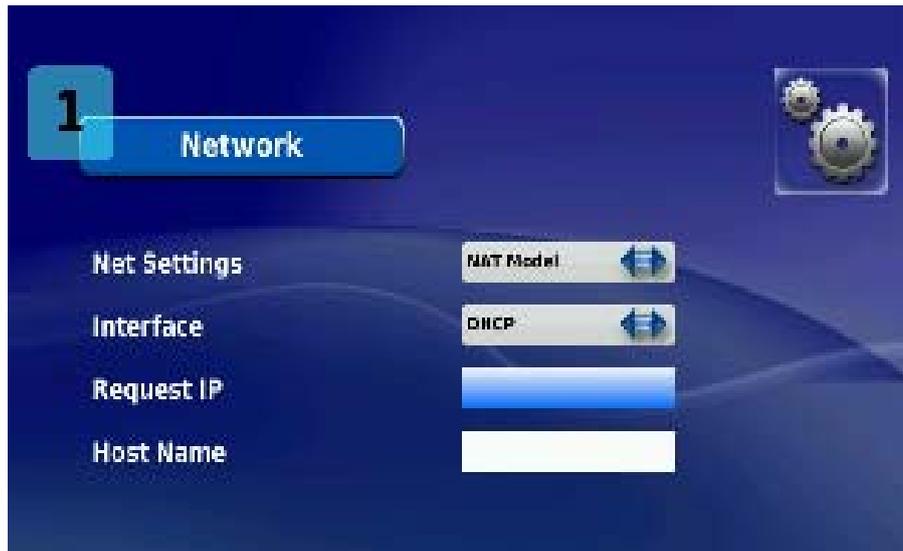
In Main Menu use down arrow navigate key to move the cursor to **Settings** option and press **OK** to enter the setting page. There are System Settings, Time Settings, Upgrade and Administrator options.



## System Settings

In the System Settings page, there are Network, Factory Reset, Sound and Display options.

## [Network]



**Network** : Get into Network setting page

### ■ Network Interface Setting:

Setup IP method, Press Left/Right arrow navigate key to select DHCP or PPPoE or Fixed IP.

- I. **DHCP**: The DHCP server will provide an IP automatically
- II. **PPPoE**: You need to setup Account number, Password
- III. **Fixed IP**: You need to setup IP address, Subnet and Default gateway

(Above setup value, please contact your ISP or network administrator for assistance)

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### Note

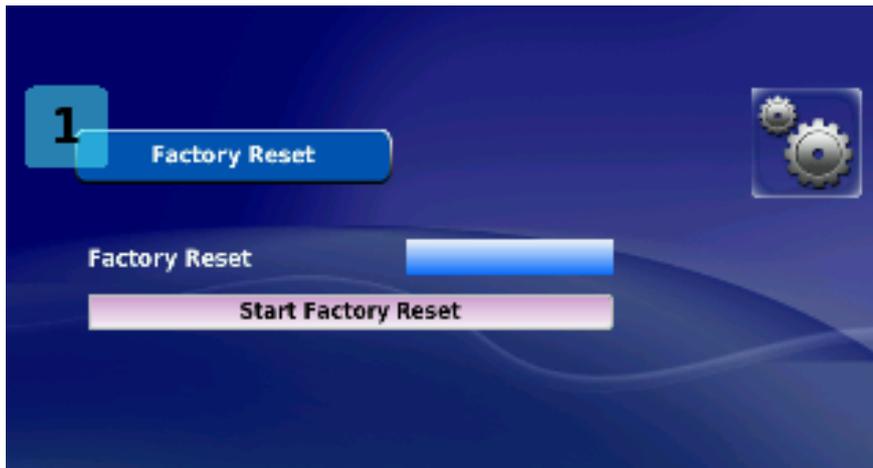
There is a stamp on the Top-Left LCD screen "1", it mentions which format you are typing.

For example: "1" means numeral, "A" is letter in capitalization and "a" is small letter and

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## [Factory Default]

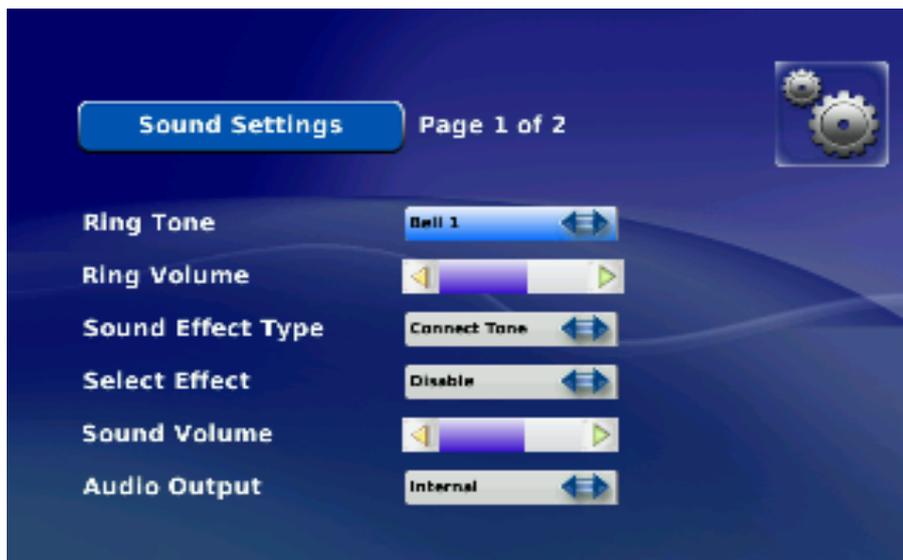
In System Settings, and then select Factory Rest button



After input the password ( 0000 ) and then you can start the factory reset, and the phone will reboot/reset to factory default settings.

### [Sound]

**Sound Setting** : Select System Settings and then select sound button



First page (1 of 2)

- **Ring Tone** : Select Ring tone type
- **Ring Volume** : Adjust Ring tone volume
- **Sound Effect Type** : Select Sound Effect Type (Connect · Keypad · Warning Tone)
- **Select Effect** : Select Sound Effect Ring Type (Disable · Bell 1 · Bell 2 · Bell 3)
- **Sound Volume** : Select Sound Effect Ring volume
- **Audio Output** : Select Audio Output interface (Internal · External)

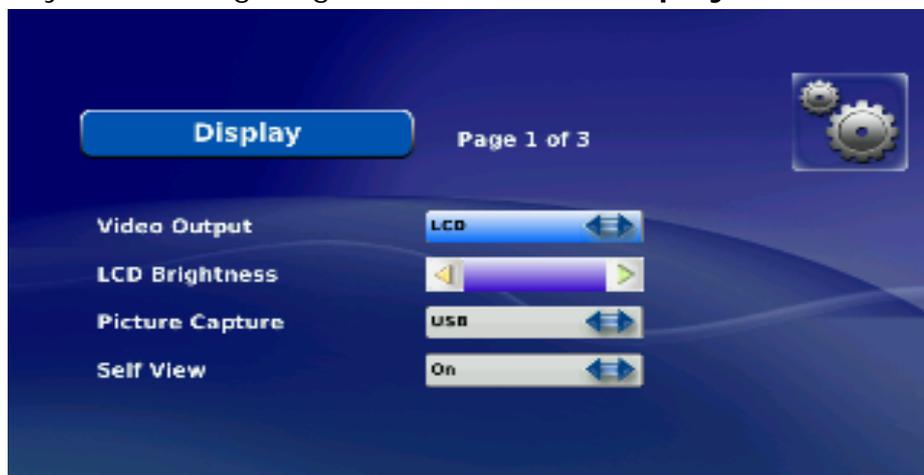


Page Two (2 of 2)

- **Speaker Volume** : Adjust Hand free Speaker Volume
- **Handset Volume** : Adjust Handset Volume

### [Display]

Select System Settings Page, and then select **Display** button.



Page one (1 of 3)

- **Video Output** : Select Video Output Interface (LCD · TV OUT-PAL · TV OUT-NTSC)
- **LCD Brightness** : Adjust brightness
- **Picture Capture** : Select Screen snapshot storage device
- **Self View** : Set self view On/Off during calls



Page 2(2 of 3)

- **Power Saving** : Screen Saving setting, 30/60/90 sec (enable screen saving after phone not in use for 30/60/90 seconds)
- **Wallpaper** : Wallpaper setting On/Off(If select On, need to select source file)
- **Digital Photo Frame** : Set Digital Photo Frame On/Off
- **Digital Photo Frame Delay** : Set Digital Photo Frame Display Interval Time (10/15/20 seconds)
- **Language** : Select Video Phone operation language, currently it supports for English only.



Page 3(3 of 3)

- **Upload Bandwidth** : Select suitable bandwidth base on your actual available bandwidth ICF-1601 provide 128K , 256K , 384K , 512K selection

- **Screen Size** : Adjust Screen size, provide CIF and VGA options
- **Frame Rate** : Adjust Frame Rate, Provide Low, normal, High options
- **Video Codec** : Select H.263 or H.264

## Time Settings

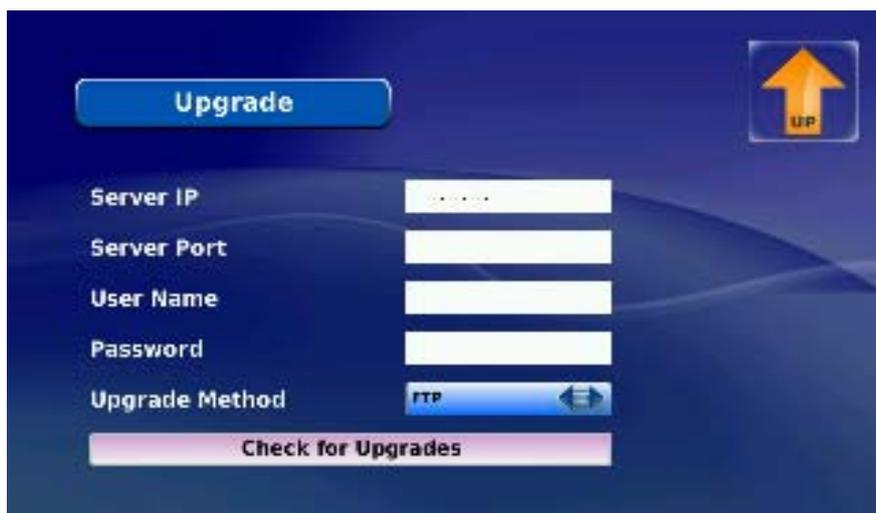
Select System Settings, and then select **Time Settings** button



- **NTP** : Select NTP server
- **D.S.T** : Day Light Saving On/Off
- **G.M.T** : Adjust Time Zone

## Upgrade

Select System Settings page then select **Upgrade** button



- **Upgrade Method** : Provide the firmware upgrade via FTP server, and please refer to [Appendix A FAQ](#) for more detail configuration.

## Administrator

Select System Settings, and then select **Administrator** button.



Need to input password (**1234**) and then you can enter to advance settings such as SIP, Proxy, DNS Setting, Audio Codec, Video Codec and LAN Settings.

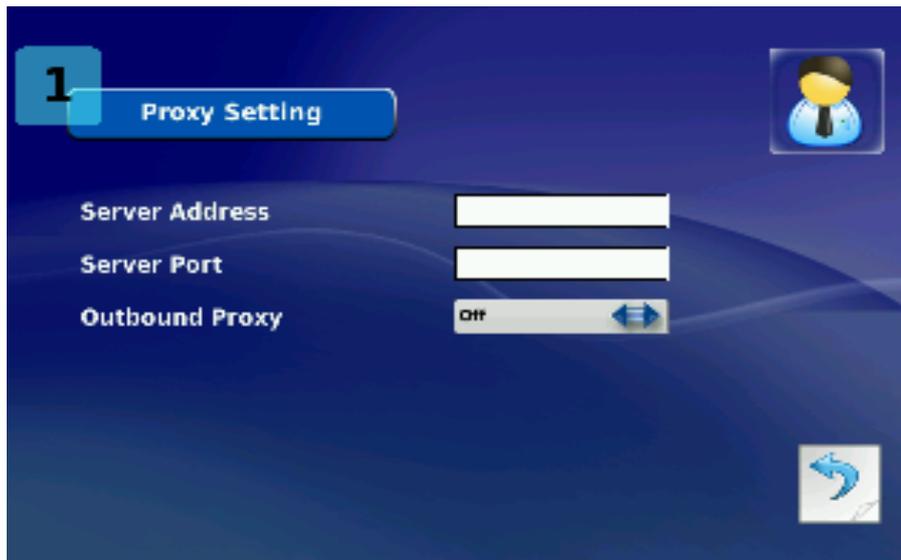
### [SIP]

In SIP Setting, user need to input the account and the related informations. In this page, please refer to your SIP provider or network administrator.



- **P2P Mode** : Turn on/off the P2P mode. The default P2P mode is OFF.
- **User Name** : You can input the User Name you want to display.
- **Account ID** : You need to input the Account ID get from your ISP.
- **Password** : You need to input the Register Password get from your ISP or network administrator.

## [Proxy]



- **Server Address** : You need to input the Proxy Server get from your ISP.
- **Server Port** : Please types the port number get from your ISP.
- **Outbound Proxy** : You can input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.

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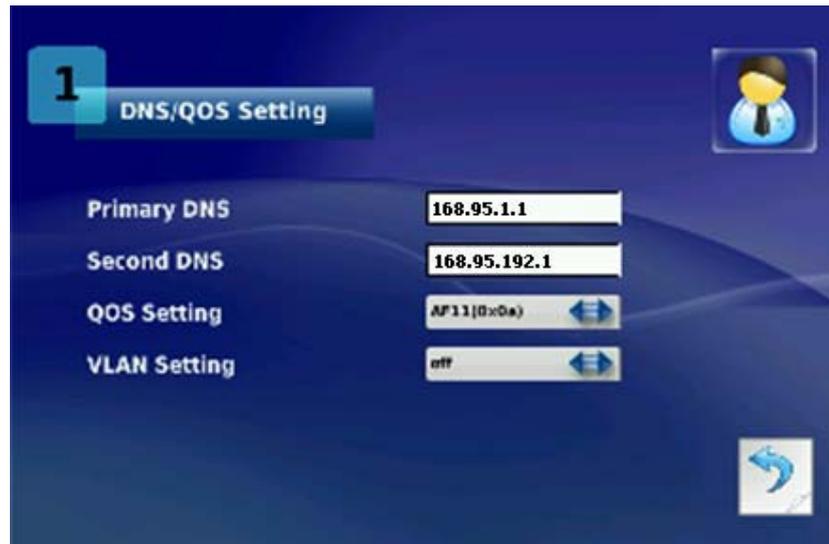
**Note** You can see the Register Status from VoIP LED on ICF-1601

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## [DNS Setting]

Then, you can set DNS server for the ICF-1601. A Domain Name system (DNS) server is like an index of IP addresses and Web addresses. If you type a Web address into you browser, a DNS server will find that name in its index and find the matching IP address.

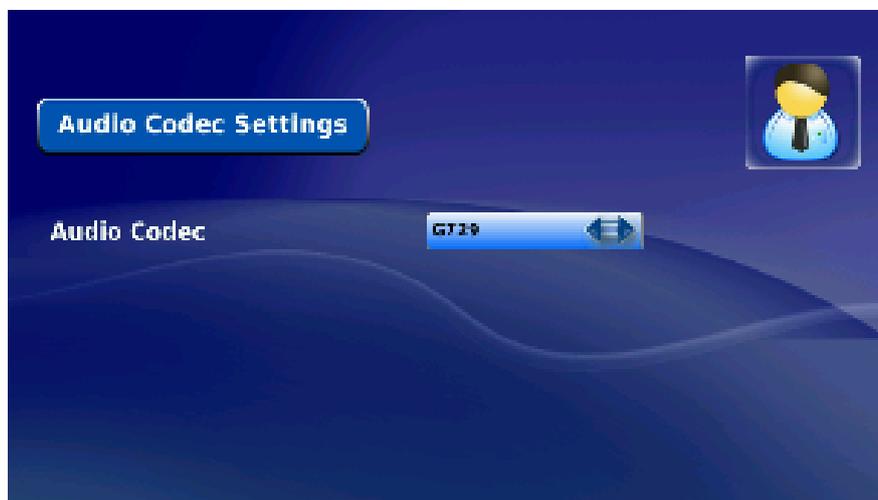
Most ISPs provide a DNS server for speed and convenience. Since your Service Provider many connect to the Internet with dynamic IP settings, it is likely that the DNS server IP addresses are also provided dynamically. However, if there is a DNS server that you would rather use, you need to specify the IP address below.



- **Primary DNS** : Enter the Primary DNS Server IP address get from your ISP manually.
- **Second DNS** : Enter the Secondary DNS Server IP address get from your ISP manually.

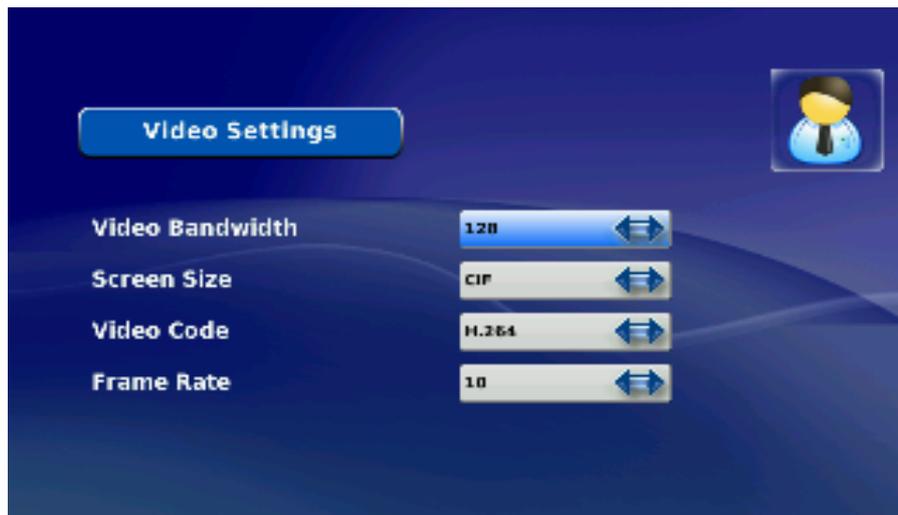
### [Audio Codec]

The Codec is used to compress the voice signal into data packets. Each Codec has different bandwidth requirement.



- **Audio Codec** : To determine the priority (G711uLaw, G711aLaw and G729), selects one codec algorithm from the pull-down menus individually.

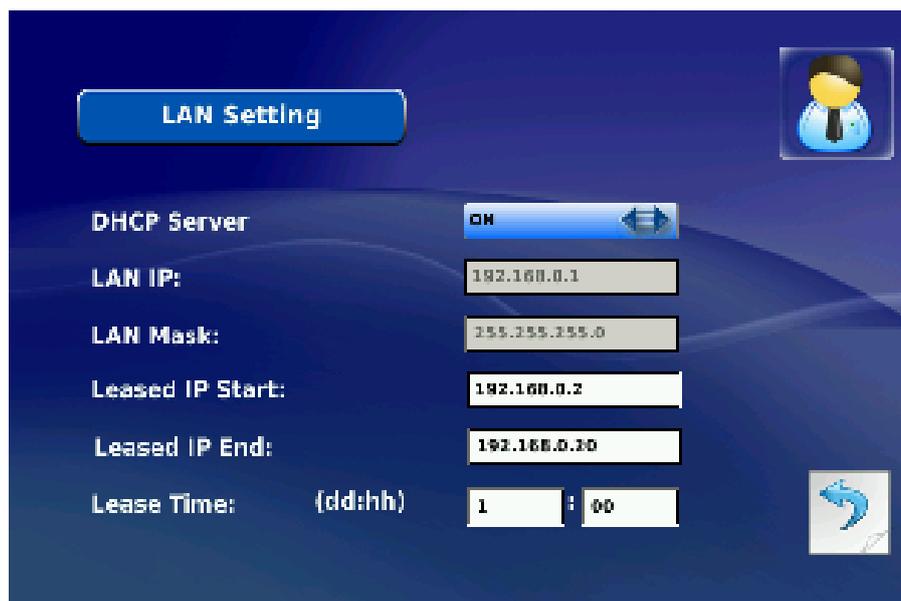
## [Video Codec]



- **Video Bandwidth** : Select suitable bandwidth base on your actual available bandwidth ICF-1601 provide 128K , 256K , 384K , 512K selection
- **Screen Size** : Adjust Screen size, provide CIF and VGA options
- **Video Codec** : Select H.263 or H.264
- **Frame Rate** : Adjust Frame Rate, Provide Low, normal, High options

## [LAN Setting]

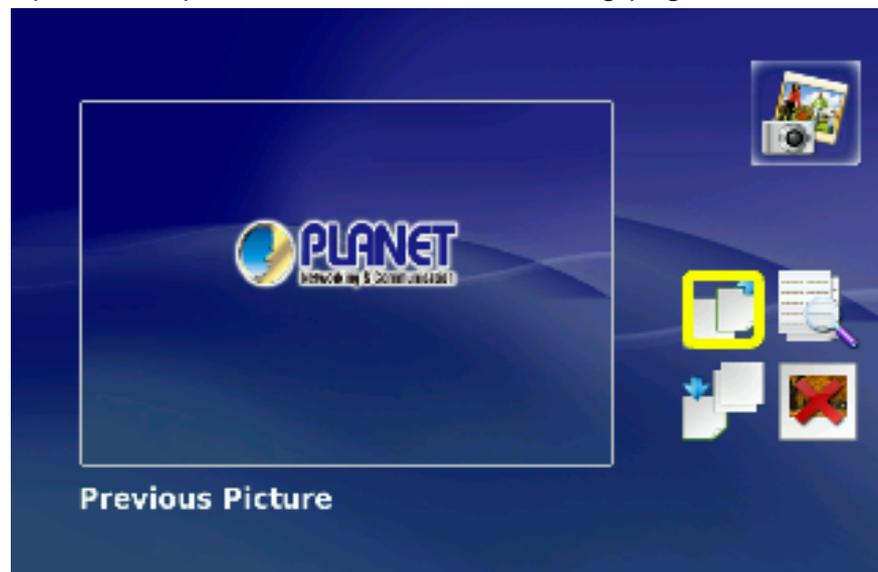
The following sections will explain more details of Network access setup. The LAN setup includes two parts – LAN Interface and DHCP Settings.



- **DHCP Server** : Enable / Disable DHCP server. The default DHCP Server is **ON**.
- **LAN IP** : You may change the LAN IP address if needed. The LAN IP address is provided to your internal network and cannot be seen on the Internet. You can change the LAN IP address for your requirements. Enter the IP address for your video phone, for example, 192.168.1.1.
- **LAN Mask** : Enter the subnet mask.
- **Leased IP Start / End** : Enter the start IP / end IP address you wish to use as the DHCP server's IP assignment.
- **Lease Time**: Enter the amount of time you wish to lease out a given IP address.

## Digital Photo Frame

In Main Menu use down arrow navigate key move cursor to **Digital Photo Frame** option and press **OK** to enter the setting page.



There are four options: Previous Picture, Next Picture, View Another Picture, and Delete the Current Picture you can select to.

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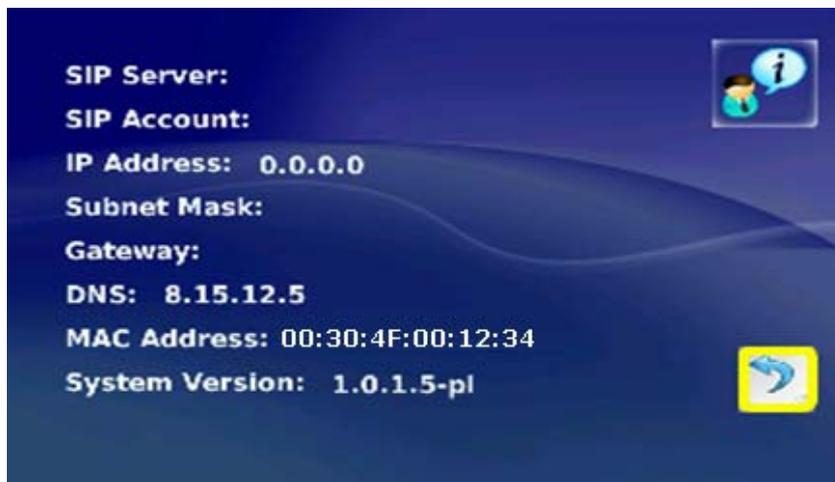
### **Note**

This feature need to work with the USB flash disk which attached with ICF-1601. The format supports **JPEG** and resolution is **640 x 480**.

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## Informaiton

In Main Menu use down arrow navigate key move cursor to **Information** option and press **OK** to Display system related information



- **SIP Server** : Display Register ISP IP address
- **SIP Account** : Display Register Video Phone Number
- **IP Address** : Display IP address
- **Subnet Mask** : Display Subnet mask info
- **Gateway** : Display Gateway info
- **DNS** : Display DNS server IP address
- **MAC Address** : Display Phone MAC address
- **System Version** : Display FW version in use

## Appendix A FAQ

**Q1: Nothing is displayed on LCD display, or malformed text / graphic is displayed.**

**A:**

1. Check the connection between power jack of A/C adapter and the phone. Make sure it's securely connected.
2. Plug the A/C adapter into power outlet on the wall, if it's not plugged in.
3. Please check the status of power outlet, maybe it's not powered.
4. Disconnect the power jack and A/C adapter, and reconnect it again after about 10 seconds.
5. Press "**SPEAKER**" button on the phone, or lift handset. If you can hear dial tone, please return this IP phone to your dealer.
6. If the problem can not be solved by solutions listed above, please contact your dealer of purchase for assistance.

**Q2 : I can not hear dial tone.**

**A:**

1. Please check the cable connection between IP phone and handset.
2. Replace the cable used to connect IP phone and handset with a new one. (If you don't have another cable, bring the old cable to a telephone / computer store and show them, they can help).
3. If you can't hear dial tone from handset, try to press 'SPEAKER' button on the phone, to see if you can hear the dial tone. Please also check the connection cable between handset and the phone.
4. Try a higher volume setting.
5. Try solutions of last scenario.
6. Contact your dealer if above solutions don't work.

**Q3 : I can not see my image / remote party can not see my image / malformed image is displayed.**

**A:**

- Make sure you set the "video privacy" setting to "OFF"
- If you think the image is flashing, please try a different camera frequency
- If you see strange color / malformed image displayed, please contact the dealer of purchase for help.

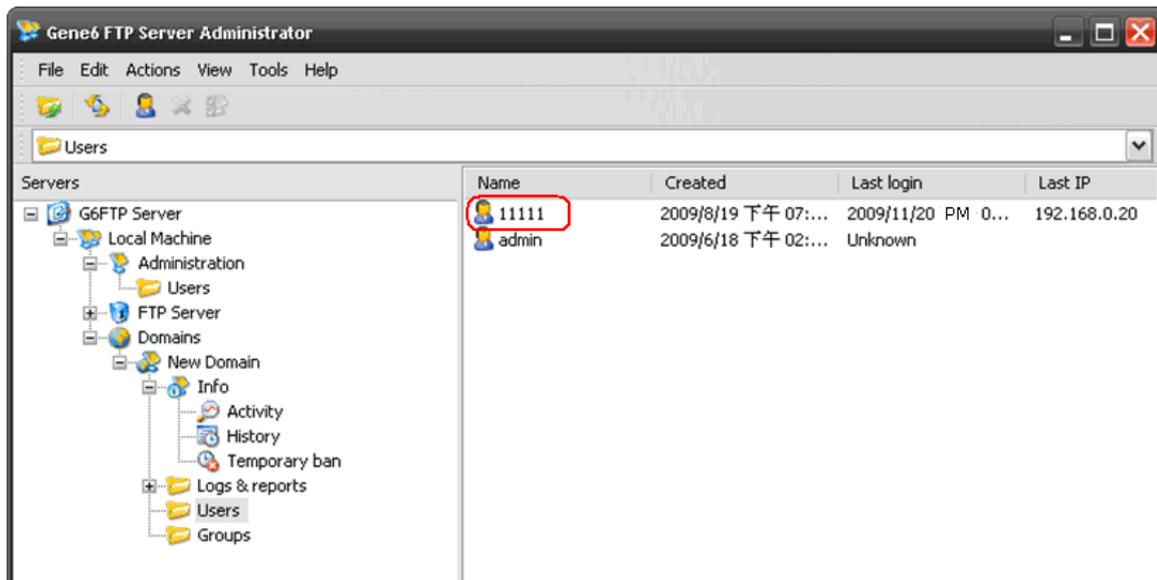
#### Q4 : How to upgrade firmware?

**A:**

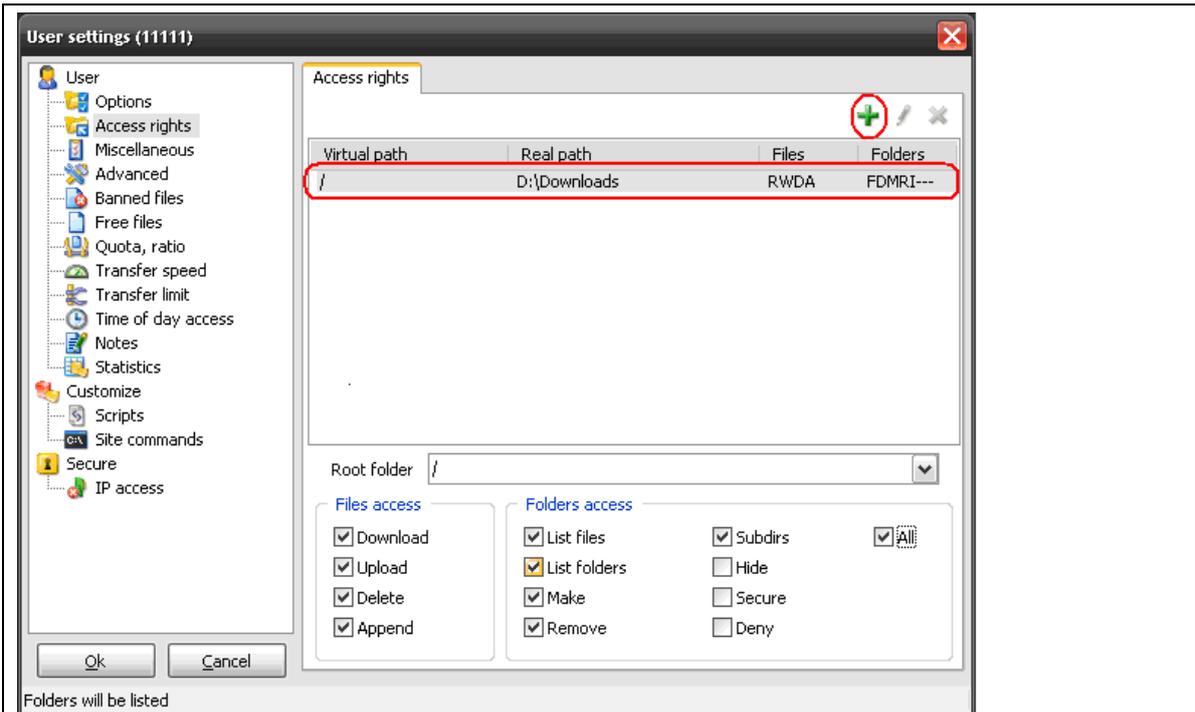
1. Firstly, it is necessary to install an ftp server on your PC, here we used Gene6 FTP server to perform the test as the below example.



2. Add new users: 11111



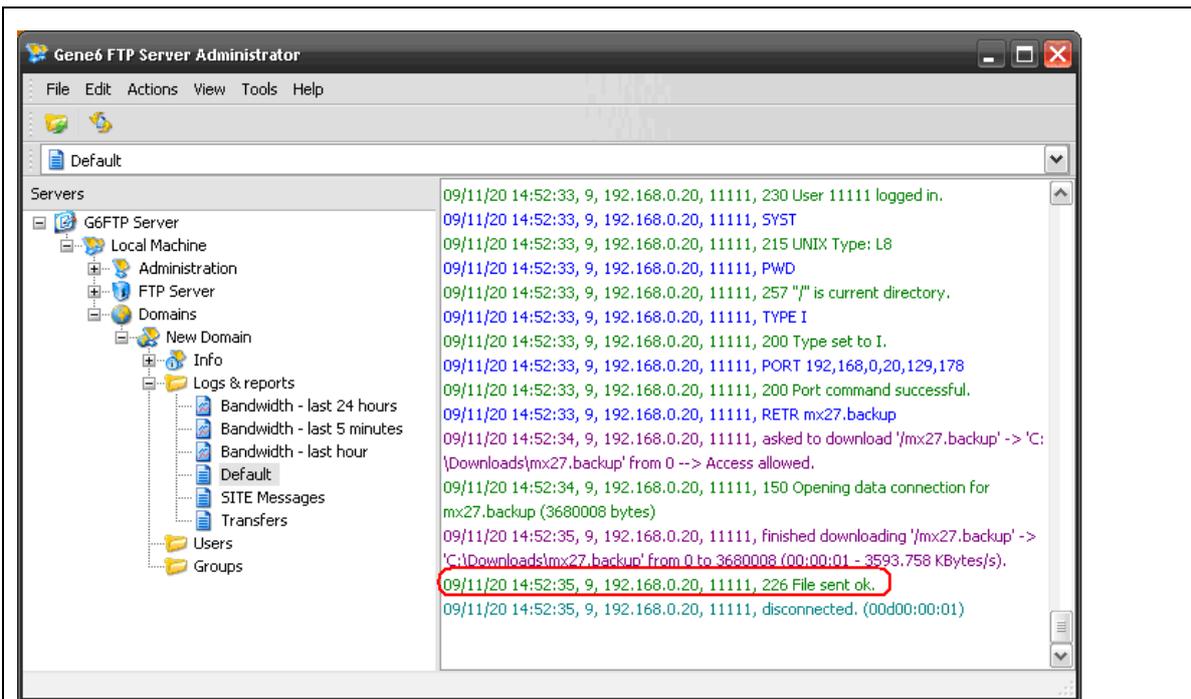
3. Add the location of the firmware file from your PC.



- Configure the ICF-1601 LCD menu and fill the FTP server's information such as Server IP, Port, User Name and Password. And then please click on "**Check for Upgrades**" button to start upgrade firmware.



- After upgraded success, you can see the logs from FTP server.



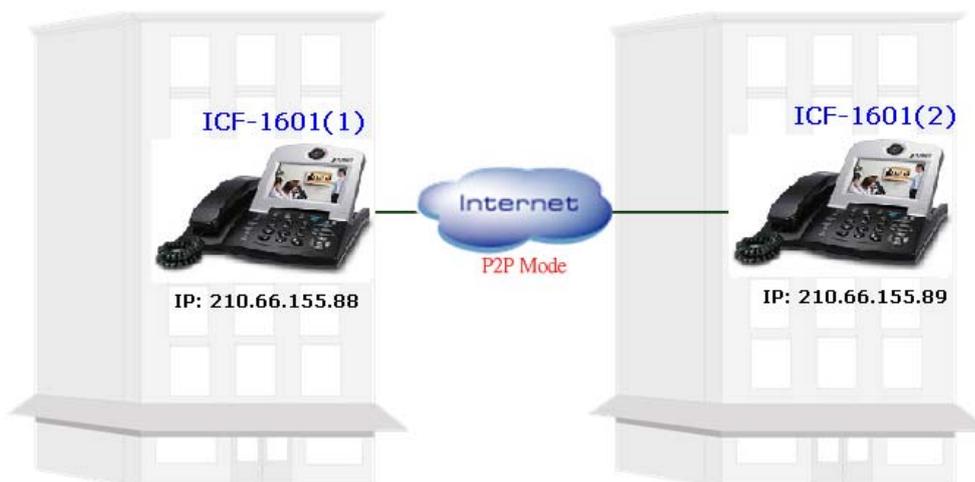
**Note**

When you use the FTP server, please remember to disable your firewall or antivirus program, otherwise the FTP access will be blocked.

## Q5: How to make P2P call?

**A:**

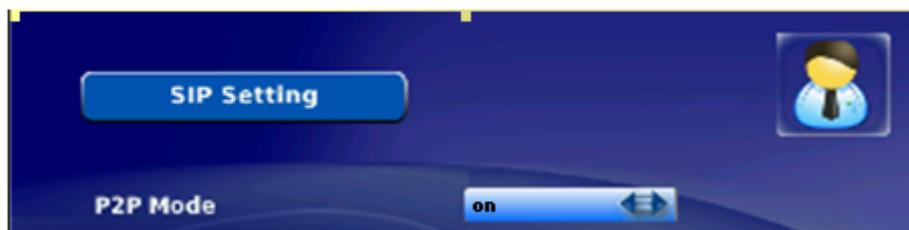
Please refer to the following descriptions and insert proper parameters configurations into the device for establish the voice communications.



1. Please enable the P2P mode on both ICF-1601's LCD menu:

### LCD menu configuration

- (1) Press 『**Settings**』 to enter configuration menu.
- (2) Go to 『**Administrator Settings**』 → 『**SIP Setting**』 to configure the SIP configuration.
- (3) Please select 『**on**』 to P2P Mode .



2. Configure the IP address of ICF-1601 on LCD menu.

### LCD menu configuration

- (1) Press 『**Settings**』 to enter configuration menu.
- (2) Go to 『**System Settings**』 → 『**Network**』 to configure the network configuration.
- (3) Please base on your network to configure the network connection such as Static or DHCP.
- (4) Select 『**Net Settings**』 and then select 『**Interface**』 → 『**Fixed IP**』 and press **OK** to choose the network configuration.

3. Test the Scenario:

I. ICF-1601(1) presses "210.66.155.89" and then press **OK** to call ICF-1601(2).

II. ICF-1601(2) presses "210.66.155.88" and then press **OK** to call ICF-1601(1).

### Q6: How to register to IP PBX server?

**A:**

Please refer to the following descriptions and insert proper parameters configurations into the device for establish the voice communications.



1. Configuring the IPX-1900 and create the SIP extensions.

(1) Browse to "IP PBX Setup - > User Extensions Setup" configuration menu.



(2) Click the "Add" button to create extension account ext.10 and ext.20

### User Extension Advance Setup

User Extension

Password

Caller Id

- Try peer-to-peer RTP
 

Peer to Peer
- Call group / Pickup group select
 

Call Group  1  2  3  4  5  6  7  8  9  10

Pickup Group  1  2  3  4  5  6  7  8  9  10
- Call forward option
 

DND (Forward to Voicemail)

Call Forward Always

Call Forward on Busy

Call Forward on No Answer  IF Time out  Sec
- Voice mail
 

Voicemail  Enable

### Extensions List Extension Max is 100

User Extension	Password	Caller Id	Action
10	123	10	<input type="button" value="Advance"/> <input type="button" value="Delete"/>
20	123	20	<input type="button" value="Advance"/> <input type="button" value="Delete"/>
30	123	30	<input type="button" value="Advance"/> <input type="button" value="Delete"/>

2. Configuring the VIP-255PT and insert the SIP parameters.

(1) Please log in VIP-255PT and browser to **"Account - > Account"** configuration menu. Insert the account/password information then save and reboot machine. The sample configuration screen is shown below:

Account	Server	Voice	Advanced
Display Name	<input type="text" value="20"/>		
User Name	<input type="text" value="20"/>		
Register Name	<input type="text" value="20"/>		
Password	<input type="password" value="***"/>		
Status	<input type="text" value="Registered"/>		
<input type="button" value="Confirm"/> <input type="button" value="Cancel"/>			

(2) And then browser to “**Account** - > **Server**” configuration menu. Insert the server information then save and reboot machine. The sample configuration screen is shown below:

Account	Server	Voice	Advanced
SIP Server	<input type="text" value="192.168.0.1"/>	Port <input type="text" value="5060"/>	
Enable Outbound Proxy Server	<input type="button" value="Disabled"/> ▾		
Outbound Proxy Server	<input type="text"/>	Port <input type="text" value="5060"/>	
NAT Traversal	<input type="button" value="Disabled"/> ▾		
SMSServerHost	<input type="text"/>	Port <input type="text"/>	
<input type="button" value="Confirm"/> <input type="button" value="Cancel"/>			

3. Configuring the ICF-1601 and insert the SIP parameters.

Then log in ICF-1601(1) via LCD menu.

#### LCD menu configuration

(1) Press 『**Settings**』 to enter configuration menu.

(2) Go to 『**Administrator Settings**』 → 『**SIP Setting**』 to configure the SIP configuration.

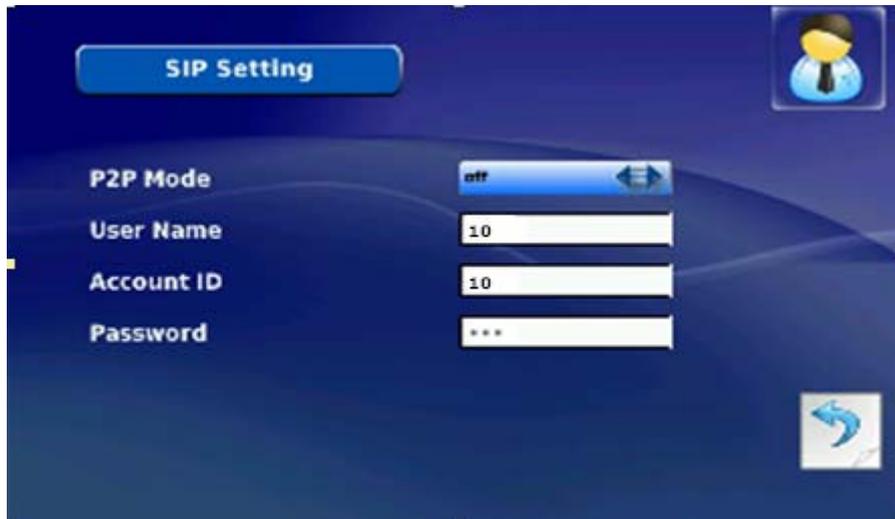
#### **Note**

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Need to input password (**1234**) and then you can enter to advance settings such as SIP, Proxy, DNS Setting, Audio Codec, Video Codec and LAN Settings

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(3) Please select 『off』 to P2P mode, and then please insert the SIP parameters such as User Name, Account ID, Password, Server Address and Server Port.



The screenshot shows the 'SIP Setting' configuration page. At the top left is a blue button labeled 'SIP Setting'. In the top right corner is a user icon. The main area contains four settings: 'P2P Mode' is set to 'off' with a dropdown arrow; 'User Name' is '10'; 'Account ID' is '10'; and 'Password' is masked with three asterisks. A blue arrow icon is in the bottom right corner.



The screenshot shows the 'Proxy Setting' configuration page, indicated by a blue box with the number '1' in the top left. At the top left is a blue button labeled 'Proxy Setting'. In the top right corner is a user icon. The main area contains three settings: 'Server Address' is '192.168.0.1'; 'Server Port' is '5060'; and 'Outbound Proxy' is 'Off' with a dropdown arrow. A blue arrow icon is in the bottom right corner.

By the way, the setting is same on the ICF-1601(2).

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**Note**

After register success, you can see the Register Status from VoIP LED on ICF-1601

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4. To see the register status on IPX-1900.

After both of devices have registered to IP PBX successfully, it could browse to "**Information -> PBX Extension Status**" page to show the registration status:

• Extension Status

Register OK!		Talk on the Telephone !		Register Unknown!	
Num	Status	Num	Status	Num	Status
10		20		30	

5. Test the Scenario1:

All the phones can press the extension number to call each.

For example:

ICF-1601(1) can press "20" to call VIP-255PT and press "30" to call ICF-1601(2), and so on.

6. Test the Scenario2\_Call Transfer

※Attendant Transfer (#1)

Step1: 10 call 20

Step2: 20 press the buttons "#1 30" to transfer the call to 30. At meantime, 20 can talk to 30, and the background music on the 10 will also start until 20 hang up the phone.

Step3: 30 can talk to 10

Step4: 30 and 10 both hang up the phones, then the conversation finished

※Blind Transfer (#2)

Step3: repeat step1-2, and 20 press the buttons "#2 30" to transfer the call to 30. The call will transfer to 30 immediately

Step4: 30 can talk to 10

Step5: 30 and 10 both hang up the phones, then the conversation finished

📌Note

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The ICF-1601 doesn't define the "Call Transfer" key function, so it is necessary to use the Call Transfer functions which defined on Proxy servers.

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## Q7: How to make 3-way conference call?

### A:

Please refer to the following descriptions and insert proper parameters configurations into the device for establish the voice communications.

#### Example1:

- (1) A and B are in the process of conversation.
- (2) A want to invite C to join their conversation.
- (3) A press "HOLD" button to hold the conversation with B at first then input the number of C (plus the "OK" key).
- (4) C will ring up and pick up the handset to conversation with A.
- (5)A press "CONF" button again, and they will entry the 3-Way conference mode.

#### Example2:

- (1) A and B are in the process of conversation.
- (2) B wants to invite C to join their conversation.
- (3)B press "HOLD" button to hold the conversation with B at first, and then input the number of C (plus the "OK" key).
- (4) C will ring up and pick up the handset to conversation with A.
- (5)B press "CONF" button again, and they will entry the 3-Way conference mode.

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#### Note

The 3-Way conference mode is only support audio mode, if you need to use the video conference, it is necessary to connect to Multipoint Control Unit such as PLANET MCU-1400/MCU-1900.

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## Appendix B Specifications

<b>Product</b>	Internet Video Conferencing Phone
<b>Model</b>	ICF-1601
<b>Hardware</b>	
<b>Port</b>	2 x 10/100Mbps RJ-45 ports
<b>Camera</b>	CMOS module, 300K pixels QCIF, 30fps
<b>USB</b>	1 USB 2.0 (For connecting with USB flash disk)
<b>Audio/Video Input</b>	1 telephone handset 1 built-in microphone
<b>Audio/Video Output</b>	1 built-in 5" TFT LCD, adjustable angle 1 pair RCA Audio/Video output 1 built-in speaker
<b>Protocols and Standard</b>	
<b>Standard</b>	SIP2.0 (RFC 3261), and support Outbound Proxy Configuration
<b>Video Standard</b>	H.263, H.264
<b>Audio Standard</b>	G.711a/u and G.729A/B
<b>Internet protocol</b>	TCP/IP, UDP, RTP/RTCP
<b>Echo cancellation</b>	G.167
<b>LAN standard</b>	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet
<b>Access Mode</b>	Static IP, DHCP and PPPoE
<b>Phone Features</b>	
<b>Keys</b>	1 Speakerphone Key 1 Volume Up & Down keys 1 Conference key 1 Hold key 1 Mute key 1 Redial key 1 Privacy key 1 Setting key 1 Mail key 1 Phone book key 12 Numerical keys
<b>Audio Features</b>	Silence Suppression Comfort noise generation(CNG)

	<p>In-band DTMF &amp; Out-of-band DTMF (RFC 2833)</p> <p>Call progress tone generation</p> <p>Acoustic Echo Cancellation</p> <p>Dynamic Jitter buffer</p> <p>Three-way audio conferencing</p>
<b>Video Features</b>	<p>2-Way Video Call</p> <p>PIP(Picture in Picture)</p> <p>LCD Brightness Adjustment</p> <p>LCD Contrast Adjustment</p> <p>LCD/TV Display Switch</p> <p>Video Privacy (Audio Only)</p> <p>Video Mute</p> <p>Remote Video Display On/Off</p>
<b>Message &amp; Configuration Service</b>	<p>Address Book</p> <p>Phone setting</p> <p>Network setting</p> <p>Call records</p> <p>Local Clock setting</p> <p>Digital Photo Frame</p>
<b>Network and Configuration</b>	
<b>Access Mode</b>	Static IP, DHCP and PPPoE
<b>Management</b>	LCD GUI
<b>Dimension (W x D x H)</b>	216 x 206 x 180mm
<b>Operating Environment</b>	<p>0 to 50 Degree C</p> <p>10~85% humidity (non-condensing)</p>
<b>Power Requirement</b>	12V DC, 1.5A
<b>EMC/EMI</b>	FCC, CE Class B

## EC Declaration of Conformity

For the following equipment:

\*Type of Product : Internet Video Conferencing Phone  
\*Model Number : ICF-1601

\* Produced by:

Manufacturer's Name : **Planet Technology Corp.**  
Manufacturer's Address: 11F, No 96, Min Chuan Road  
Hsin Tien, Taipei, Taiwan, R.O.C.

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive on (2004/108/EC).

For the evaluation regarding the EMC, the following standards were applied:

Emission: EN 55022: 2006 +A1:2007, Class B  
EN 61000-3-2:2006, Class A (See note\* below)  
EN 61000-3-3:1995 + A1:2001 + A2:2005

Immunity: EN 55024:1998 + A1:2001 + A2:2003  
IEC 61000-4-2:2008 ED.2.0  
IEC 61000-4-3:2006 + A1:2007 ED.3.0  
IEC 61000-4-4:2004 ED.2.0  
IEC 61000-4-5:2005 ED.2.0  
IEC 61000-4-6:2008 ED.3.0  
IEC 61000-4-8:2001 ED.1.1  
IEC 61000-4-11:2004 ED.2.0

Note\*: The power consumption of EUT is 8.123W, which is less than 75W and no limits apply.  
Therefore it is deemed to comply with EN 61000-3-2 without any testing.

**Responsible for marking this declaration if the:**

**Manufacturer**     **Authorized representative established within the EU**

**Authorized representative established within the EU (if applicable):**

**Company Name:** Planet Technology Corp.

**Company Address:** 11F, No.96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C

**Person responsible for making this declaration**

**Name, Surname** Jonas Yang

**Position / Title :** Product Manager

Taiwan  
Place

20 Nov., 2009  
Date

  
Legal Signature

**PLANET TECHNOLOGY CORPORATION**

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