

# **Cordless IP Phone User Manual**

**For model:**

9700IP/9702IP

NDC2110S/NDC2210S

Version: V1.0

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The phone started, get Provisioning Server address by DHCP Server, then the phone LED lights flashing, and issued a "beep beep" prompt tone, "Config ID". Through the digital keyboard input after the ID, and then enter the "#", then the opportunity to Provisioning Server automatically load the configuration file, automatically restart after the success; if this fails, then the opportunity to enter the default standby state, after 15s can log on; if you do not want to download directly into the standby state # by default. If you do not complete the download, or download the configuration file in the AutoUpdate Settings config ID no configuration parameters, will still be asked to enter "Config ID" after the restart.

After the phone has entered the default state, you can have the phone to broadcast the IP address by pressing “\*\*47#”.

## Function

1. Support DHCP automatic distribution of IP addresses and other parameters
2. Support PPPOE agreement (ADSL, cable modem access use)
3. The program can be upgraded via HTTP, HTTPS, FTP or TFTP
4. Dynamic voice detection; comfort noise generation; voice buffer technology
5. Hold function
6. Speed dial
7. DND (Do Not Disturb), blacklist, call restriction, hotline function
8. Voicemail
9. Using a standard web browser (such as IE) for setting
10. SSH remote management function
11. Classified management for common user password and remote user password
12. Support \* \* code function
13. Call Waiting Feature
14. Auto answer
15. Call park
16. Call transfer
17. Tripartite conference
18. 802.1x Authentication
19. LLDP Feature

## Standard and Protocols

- ◆ IEEE802.3/802.3u/10 Base T/100Base
- ◆ PPPoE: Point to point protocol over Ethernet
- ◆ DHCP Client and Server: Dynamic Host Configuration Protocol
- ◆ Support G.711a/u, G.729, G.723.1, G.722, iLBC speech encoding algorithm
- ◆ SIP RFC3261, RFC2543
- ◆ TCP/IP: Internet transmission control protocol
- ◆ RTP: Real-time Transfer Protocol
- ◆ RTCP: Real-time Control Protocol
- ◆ VAD/CNG: can save bandwidth
- ◆ TFTP: Trivial File Transfer Protocol

# 1. INTRODUCTION

This is the 9602IP network telephone user manual. Before the use of 9602IP phone, you need to make some phone configuration for normal use. This book illustrates how to use keyboard and Web phone service configuration page.

## 1.1 HARDWARE OVERVIEW

The default WAN port is a DHCP client, the user connects it to the ADSL or WAN port switch, LAN port connects to the computer; you can use the administrator username "admin" and password "admin" to set the login password.

Only WAN port supports POE.

## 1.2 SOFTWARE OVERVIEW

Network Protocol	Tone
<ul style="list-style-type: none"> <li>● SIP v2(RFC3261)</li> <li>● IP/TCP/UDP/RTP/RTCP</li> <li>● IP/ICMP/ARP/RARP/SNTP</li> <li>● TFTP Client/DHCP Client/PPPOE Client</li> <li>● Telnet/HTTP Server</li> <li>● DNS Clients</li> </ul>	<ul style="list-style-type: none"> <li>● Ring Tone</li> <li>● Ring Back Tone</li> <li>● Dial Tone</li> <li>● Busy Tone</li> </ul>
	Phone Function
	<ul style="list-style-type: none"> <li>● Volume Adjustment</li> <li>● Speed dial key</li> </ul>
Codec	IP Assignment
<ul style="list-style-type: none"> <li>● G.711a</li> <li>● G.711u:</li> <li>● G.723.1:</li> <li>● G.729</li> <li>● G.722</li> <li>● iLBC</li> </ul>	<ul style="list-style-type: none"> <li>● IP (Static IP)</li> <li>● DHCP</li> <li>● PPPoE</li> </ul>
Voice Quality	Security
<ul style="list-style-type: none"> <li>● VAD: Voice activity detection</li> <li>● AGC: Automatic Gain Control</li> <li>● AEC: Automatic Echo Cancellation</li> <li>● SRTP: Secure Real-time Transport Protocol</li> </ul>	<ul style="list-style-type: none"> <li>● HTTP 1.1 basic/digest authentication for Web setup</li> <li>● MD5 for SIP authentication (RFC2069/RFC2617)</li> </ul>
	QoS
	<ul style="list-style-type: none"> <li>● QoS field</li> </ul>
Call Function	NAT Traversal
<ul style="list-style-type: none"> <li>● Call Hold</li> <li>● Call Waiting</li> </ul>	<ul style="list-style-type: none"> <li>● STUN</li> </ul>
	Configuration

<ul style="list-style-type: none"><li>● Call forward</li><li>● Caller ID</li></ul>	<ul style="list-style-type: none"><li>● Web Browser</li><li>● Keypad</li></ul>
DTMF	Firmware Upgrade
<ul style="list-style-type: none"><li>● IN Band</li><li>● RFC2833</li><li>● SIP Info</li></ul>	<ul style="list-style-type: none"><li>● TFTP</li><li>● HTTP</li><li>● FTP</li><li>● HTTPS</li></ul>

## 2 PHONE MENU SETTINGS

Using the web configuration page: familiar with the PC user can use the method to configure the phone. Sequentially press the "\*\*\*47#" button, then the phone will voice broadcast address IP. Directly in the browser address bar entering the address of the IP phone can log in web page, enter the login name: admin, password: admin

### 2.1 KEY FEATURES

The user can use the table below to confirm the key and hardware function.

Key function on base unit:

Key	State	Function / Display
Volume +	Conversation	Increase the volume
Volume -	Conversation	Decrease the volume
Message	Dialing	Listen to the voice message
LOCATE	Dialing	Page the handset
Speaker	Conversation	Toggle between handset and speakerphone
Mute	Conversation	Mute
Redial	Dialing	The last number redial and call
Hold	Conversation	Hold or release hold or Park key
M1~M10	Dialing	Speed dial and call or secondary function
Line1	Stand-by	Line1 state (only for two-line model)
Line2	Stand-by	Line2 state (only for two-line model)
1	Dialing	"1"
2	Dialing	"2"
3	Dialing	"3"
4	Dialing	"4"
5	Dialing	"5"
6	Dialing	"6"
7	Dialing	"7"
8	Dialing	"8"
9	Dialing	"9"
0	Dialing	"0"
*	Dialing	"*"
#	Dialing	Can be used as the first number dialing out or equivalent dial end tag

Key function on handset:

Key	State	Function / Display
-----	-------	--------------------

Volume+	Conversation	Increase the receiver volume
	Stand-by	Increase the ringer volume
Volume-	Conversation	Decrease the receiver volume
	Stand-by	Decrease the ringer volume
Line1	Stand-by	Line1 state (only for two-line model)
Line2	Stand-by	Line2 state (only for two-line model)
Mute	Conversation	Mute
Redial	Dialing	The last number redial and call
Hold/Conf	Conversation	Hold or release hold or Park key
	Two lines on hold	Achieve Conference function (only for two-line model)
FNC/Flash	Conversation	Achieve Transfer function
Speaker	Conversation	Only M series supports it
1	Dialing	“1”, press and hold for 3s to pick up the voice message
2	Dialing	“2”, press and hold for 3s to dial out the number in M6
3	Dialing	“3”, press and hold for 3s to dial out the number in M7
4	Dialing	“4”, press and hold for 3s to dial out the number in M8
5	Dialing	“5”, press and hold for 3s to dial out the number in M9
6	Dialing	“6”, press and hold for 3s to dial out the number in M10
7	Dialing	“7”
8	Dialing	“8”
9	Dialing	“9”
0	Dialing	“0”
*	Dialing	“*”
#	Dialing	Can be used as the first number dialing out or equivalent dial end tag



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## **3 THE OPERATION METHOD OF TELEPHONE**

### **3.1 HOW TO MAKE A PHONE CALL?**

You could make a phone call after the phone configuration items are set up. Please check if the cable is properly connected before use.

#### **3.1.1 Basic call**

##### **1. Making the call by handset**

After the handset is placed off-hook, dial and use “#” key as the end dialing symbol.

##### **2. Making the call by speakerphone**

After the phone is placed off-hook, dial and use “#” key as the end dialing symbol.

#### **3.1.2 Hold Key**

1. You can keep and release the call of current line. The only one line is presently in a call, the other line must be placed on hold.

##### **1) Place the call of one line on hold**

Make sure that the call you want to keep is enabled, then press "Hold" key.

##### **2) Release Hold**

Make sure that the call is initiated, then press "Hold" key.

##### **2. Call Park Function**

Initiate the call park function, Hold key can be used as a Park key.

#### **3.1.3 Volume Control**

Press “VOL▲” to increase the volume, while press “VOL▼” to decrease the volume.

### 3.1.4 Mute

During the call, if you do not want to let them hear your own voice, you can press "Mute" key, so that the other party cannot hear your voice, and you can hear the sound of other end.

### 3.1.5 Memory Key

In addition to serving as a storage function, but also can be used as hold, DND, transfer and conference function. See the web call feature function set.

### 3.1.6 Tripartite Conference Function

If the phone is Line1 hold, line2 in the call, press the conference key, which can achieve three party conference.

During the three party conference, the base unit and handset cannot be switched each other.

### 3.1.7 Transfer

The telephone is in conversation with A, A wants to call B, you can press the Transfer key, and then call B, press the Transfer button again after B hooking off, the transfer function can be achieved.

### 3.1.8 Call Park

After the call park feature is enabled, and Hold Key Active and Idle Hold Key related parameters are configured, we can perform the function of park. This function is only applicable to the base unit.

### 3.1.9 Redial

After the base unit is stand by or the handset is off-hooked, press Redial key, the last dialed number will be dialed out to achieve the redial function.

### 3.1.10 Register the Handset

Place the handset into the cradle of base unit. The "Message" LED on base unit will blink. Initiate the handset registration. The "Message" LED on handset will also begin to blink. At that time, if the base unit and handset have found out each other, the

“Message” LED on base unit will stop blinking and the “Message” LED on handset will also stop blinking and emit the prompt sound of successful registration.

Note: each base unit can register up to 5 handsets.

### 3.1.11 Toggle between Base Unit and Handset

When the base unit is in conversation, press “Line1”/“Line2” key on handset, the call will switch over to the handset. If the handset is in conversation, press “SPEAKER” key, the call will switch over to the base unit.

---

## 4 WEBSSETTING

The IP phone and the computer are connected to the same network (LAN), open the browser, enter the IP address of the phone, the page will request to input a username and password. Enter your username and password to login as administrator.

A screenshot of a web-based login form. The form has a light green background and a darker green header bar. The text "Please enter your User name and Password below to login" is displayed in purple. Below this text are two input fields: "Username" and "Password", both with white text and light green borders. At the bottom of the form are two buttons: "Login" and "Cancel", both with light green backgrounds and black text.

Please enter your User name and Password below to login

Username

Password

Login Cancel

### 4.1 HOME PAGE

Enter the user name and password, the page is shown below:

- ⊙ Home
- ⊙ Network Settings
  - ✦ WAN Settings
  - ✦ LAN Settings
- ⊙ VoIP Settings
  - ✦ Primary Register
  - ✦ Audio Settings
  - ✦ Call Features
  - ✦ Dialing Rules
  - ✦ Multicast Paging
  - ✦ Advanced Settings
- ⊙ QoS Settings
- ⊙ Provisioning
- ⊙ System Settings
  - ✦ Logging Server
  - ✦ Time Settings
  - ✦ User Management
  - ✦ System Actions
  - ✦ DECT

**Home**

**Summary of Network Parameters**

**WAN : Connected**

Network Mode: DHCP	Current IP Address: 192.168.12.83
Current Gateway: 192.168.12.1	Current Netmask: 255.255.255.0
MAC Address: 00:19:F3:0F:43:D2	

**Summary of VoIP Settings**

**Primary Register: Registered**

User Name: 102	Domain Realm:
Register Server: 192.168.12.10	Outbound Proxy:
Register Server Port: 5060	
SIP Backup Register Status: Not configured	
SIP Backup Server:	
SIP Backup Type: None	

**Other**

NAT Traversal(STUN): Disabled	QoS: Disabled
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## 4.2 NETWORK SETTING

You can get the network information of phone in the page.

**Home**

**Summary of Network Parameters**

**WAN : Connected**

Network Mode: DHCP	Current IP Address: 192.168.12.83
Current Gateway: 192.168.12.1	Current Netmask: 255.255.255.0
MAC Address: 00:19:F3:0F:43:D2	

### 4.2.1 WAN Setting

WAN port setting page.

WAN port supports the static IP, dynamic allocation IP and PPPoE.

Home • Network Settings • WAN Settings

### WAN Settings

**WAN Interface: Connected**

**Basic Settings**

Network Mode  DHCP  Fixed  PPPoE

Link Mode

Primary DNS

Secondary DNS

**Static IP Settings (Required if Network Mode is set to Static IP)**

Static IP Address

Subnet Mask

Default Gateway

**PPPoE Settings (Required if Network Mode is set to PPPoE)**

User Account

Password

**802.1X Settings**

802.1X

User Name

Password

Type

**LLDP Settings**

LLDP

Packet Interval

#### 4.2.1.1 Basic Setting

**Basic Settings**

Network Mode  DHCP  Fixed  PPPoE

Link Mode

Primary DNS

Secondary DNS

Basic Setting	
Network Mode	Select the network mode of WAN port; the default is DHCP
Link mode	Configure the WAN port network connection mode
Primary DNS	Set the main DNS address
Secondary DNS	Set the secondary DNS address

#### 4.2.1.2DHCP

If your local network has a DHCP server, 3302IP phone can get WAN network information from the DHCP server.

### 4.2.1.3 Static IP Setting

Basic Settings	
Network Mode	<input type="radio"/> DHCP <input checked="" type="radio"/> Fixed <input type="radio"/> PPPoE
Link Mode	AUTO ▼
Primary DNS	8.8.8.8
Secondary DNS	8.8.4.4
Static IP Settings (Required if Network Mode is set to Static IP)	
Static IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1

Static IP setting(WAN port network mode is set to Static IP)	
Static IP Address	Set static IP address
Subnet Mask	Set subnet mask with static IP
Default Gateway	Set the default gateway with static IP

### 4.2.1.4 PPPoE Setting

PPPoE Settings (Required if Network Mode is set to PPPoE)	
User Account	admin
Password	*****

PPPoE Setting (Required if Network Mode is set to PPPoE)	
User Account	Set the PPPoE user account
Password	Set the PPPoE account password

### 4.2.1.5 802.1x settings

802.1x settings	
802.1x_Enable	Enable or disable 802.1x authentication
802.1x_UserName	802.1xusername
802.1x_Password	802.1x authentication password
Type	Multicast/Broadcast

### 4.2.1.6 LLDP settings

LLDP settings	
LLDP Enable	Enable or disable LLDP function
Packet Interval	Packet interval

Note: if the user wants to access the phone through the WAN port, then he / she must use the new IP address to access the phone after changing IP address of WAN port.

## 4.2.2 LAN Settings

### LAN port setting interface

Home • Network Settings • LAN Settings

**LAN Settings**

LAN Settings

Link Mode

WAN/LAN Mirror Enable

LAN Port Mode  NAT  Bridge  Disable

**NAT**

IP Address

Subnet Mask

DHCP Server

IP Pool Start

IP Pool End

MAX Leases  (1~250 leases)

DNS Relay

### 4.2.2.1 LAN Settings

LAN Settings

Link Mode

WAN/LAN Mirror Enable

LAN Port Mode  NAT  Bridge  Disable

LAN Settings	
Link Mode	Configure the LAN port network connection mode
WAN/LAN Mirror Enable	Whether WAN/LAN mirror mode is enabled
LAN Port Mode	The mode of LAN port is Nat/Bridge/Disable

## 4.2.2.2 NAT

NAT	
IP Address	<input type="text" value="192.168.10.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
DHCP Server	<input type="text" value="Enable"/>
IP Pool Start	<input type="text" value="10"/>
IP Pool End	<input type="text" value="100"/>
MAX Leases	<input type="text" value="10"/> (1~250 leases)
DNS Relay	<input type="text" value="Enable"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

NAT	
IP Address	IP address of LAN port
Subnet Mask	Subnet Mask
DHCP Server	DHCP server is enabled or not
IP Pool Start	IP address assignment startaddress
IP Pool End	IP address assignment endaddress
MAX Leases	Maximum release time
DNS Relay	DNS relay is enabled or not

## 4.3 VoIP SETTING

You can get SIP account information and registrationstatus of the phone through the page.

### Summary of VoIP Settings

#### Primary Register: Registered

User Name: 102	Domain Realm:
Register Server: 192.168.12.10	Outbound Proxy:
Register Server Port: 5060	
SIP Backup Register Status: Not configured	
SIP Backup Server:	
SIP Backup Type: None	

#### Other

NAT Traversal(STUN): Disabled	QoS: Disabled
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### 4.3.1 Primary Register

Configure the SIP registration information of phone in the below page.



## Primary Register

Main Server: Registered

Backup Server: Not configured

### Register Server

Use Service	Enable ▾
Display Name	102
User Name	102
Authorization User Name	102
Password	*****
Register Server Port	5060
Register Server Address	192.168.12.10
Domain Realm	
Outbound proxy	
Register Expire	300
SIP Backup Type	None ▾
SIP Backup Server	

### Protocol Control

MWI Subscribe	Enable ▾
Local SIP Port	5060
Local RTP Port	20000
Keep Alive Packet	<input type="radio"/> Off <input checked="" type="radio"/> On
Keep Alives Period	60
DTMF	<input checked="" type="radio"/> RFC2833 <input type="radio"/> Inband <input type="radio"/> SIP Info
DTMF SIP INFO Mode	Send */# ▾
DNS Type	NAPTR/SRV ▾
Jitter Buffer Max	150
Anonymous Call Rejection	<input checked="" type="radio"/> Off <input type="radio"/> On
Session Switch	Disable ▾
Session Time (Min=90s)	1800
PRACK	Disable ▾
Support Update Method	Disable ▾
Rport	Disable ▾
SIP Transport	UDP ▾
SIP URI	sip ▾
SRTP	Disable ▾

Apply Cancel

Register Server	
Use Service	Enable or disable SIP registration
Display Name	Set the displayed name of phone's SIP account
User Name	Set the username (SIP account)
Authorization User Name	Confirm the SIP account
Password	Set the password of SIP account
Register Server Port	Set the port No. of register server, the default is 5060
Register Server Address	Set the IP address or domain name of register server
Domain Realm	Set the authentication domain of server
Outbound Proxy	Set the proxy server
Register Expire	Set the register time in second, the default is 300s
Sip Backup Type	Device backup type: Failover/Redundant
Sip Backup Server	Set the address of SIP backup server

Protocol Control	
MWI Subscribe	Disable: the phone prohibits MWI function. Even if it receives a NOTIFY from server that there is a new voice mail, the phone will not have a prompt.
	Enable(Subscribe): the phone enables MWI function and will send SUBSCRIBE. If it receives a NOTIFY from server that there is a new voice mail, the MWI LED on phone will blink to give a prompt.
	Enable(No Subscribe): the phone enables MWI function but will not send SUBSCRIBE. If it receives a NOTIFY from server that there is a new voice mail, the MWI LED on phone will also blink to give a prompt.
Local SIP Port	Set the No. of local SIP port. The default is 5060.
Local RTP Port	Set the No. of local RTP port. The default is 20000.
Keep Alive Packet	Will you keep alive packet or not?
Keep Alive Period	Keep alive interval. The default is 60S.
DTMF	Select DTMF mode in 3 options: "RFC2833", "In band" and "SIP Info". The default is RFC2833.
DTMF SIP INFO Mode	DTMF out of band detection mode: signal=*/# or signal=10/11
DNS Type	DNS type: A request, DNS SRV,NAPTR+SRV
Jitter Buffer Max	The jitter buffer maximum. The default is 150.
Anonymous Call Pejection	Will the anonymous call be rejected? The default is disable (namely no reject).
Session Switch	Will the session switch be turned on?
Session Time(Min=90S)	Set the session time. The default is 1800S.
Prack	Temporary recovery confirmation. Ensure the reliable transfer of response of 1XX in SIP.
Support Update Method	Supports the update method.
Rport	The relocation port has penetrated NAT
Sip Transport	SIP transfer protocol: UDP/TCP/TLS
Sip URI	SIP call address uses SIP/SIPS
SRTP	The safe real-time transfer protocol mode: Optional/Mandatory

### 4.3.2 Audio Setting

You can adjust the volume of microphone and handset in the page, set the codec.

## Audio Settings

### Sound and Volume Control

Handset	<input type="text" value="5"/> (1~7)
Speaker	<input type="text" value="5"/> (1~7)
Ringer Tone	<input type="text" value="4"/> (1~7)
Signal Standard	United States ▼
Ringer	<input type="radio"/> Off <input checked="" type="radio"/> On
Ringer Type	ringer 1 ▼

### Codecs Settings

Codec Priority 1	G.711u ▼
Codec Priority 2	G.723.1 ▼
Codec Priority 3	G.729 ▼
Codec Priority 4	G.711a ▼
Codec Priority 5	iLBC ▼
Codec Priority 6	G.722 ▼
Packet Data Size	20 ms ▼
iLBC 15.2K	<input checked="" type="radio"/> Off <input type="radio"/> On
G.723.1 5.3K	<input checked="" type="radio"/> Off <input type="radio"/> On

### Voice VAD/CNG

Voice VAD	<input checked="" type="radio"/> Off <input type="radio"/> On
CNG	<input checked="" type="radio"/> Off <input type="radio"/> On

### Codec ID Settings

DTMF Payload(RFC2833)	<input type="text" value="101"/> (95~127)
-----------------------	---

Apply Cancel

Audio Setting	
Sound and Volume Control	
Handset	Configure the handset output volume. The control range is 1~7. The default is 5.
Speaker	Configure the speakerphone output volume. The control range is 1~7. The default is 5.
Ring Tone	Configure the ringer volume. The range is 1~7. The default is 4.
Signal Standard	The signal standard. There are 12 categories in total. # 0: Belgium;1: China;2: Germany;3: Israel;4: Japan; # 5: Holland;6: Norway; 7: South Korea;8: Sweden; # 9: Switzerland;10: Taiwan; 11: USA
Ringer	Will the ringer be enabled?
Ringer Type	There are 11 ring tones in total for selection. The default is Ringer1.
Codec Setting	
Codec Priority1~6	Set the codec priority, there are 6 modes as follows:
	1 G.711a
	1 G.711u
	1 G.729
	1 G.723.1

	1 iLBC
	1 G.722
Packet Data Size	The packet data size is 20mS by default.
IBLC 15.2k	iLBC 15.2kbit/s is enabled or not. The default is disable.
G.723.1 5.3k	G.723.1 5.3kbit/s is enabled or not. The default is disable.
Voice VAD/CNG	
Voice VAD	Enable or disable Mute detection function
CNG	Enable or disable the comfortable noise.
Codec ID Settings	
DTMF Payload(RFC2833)	DTMF payload. The default is 101.

### 4.3.3 Call Feature

You can set call feature, create the blocked list and restricted list in this page.

#### Call Features

##### Programmable Keys & MWI Touchlite

Memory 1:	Memory ▼	106
Memory 2:	Memory ▼	107
Memory 3:	Memory ▼	108
Memory 4:	Memory ▼	109
Memory 5:	Memory ▼	110
Memory 6:	Memory ▼	101
Memory 7:	Memory ▼	102
Memory 8:	Memory ▼	103
Memory 9:	Memory ▼	104
Memory 10:	Memory ▼	105
MWI Touchlite:	106	
Park Mode	Default ▼	
Hold Key Active:		
Hold Key Idle:		

##### Call Features

Hotline	
Warm Line Time	4 (0~30 sec)
Auto Answer	<input checked="" type="radio"/> Off <input type="radio"/> On
Auto Answer Time Out	5 (0~30 sec)
Forward Type	Disable ▼
Forward Number	
Enable Call Time Out	Enable ▼
No Answer Time Out	20
Call Waiting	<input type="radio"/> Off <input checked="" type="radio"/> On
Do Not Disturb	<input checked="" type="radio"/> Off <input type="radio"/> On
Ban Outgoing	<input checked="" type="radio"/> Off <input type="radio"/> On
Accept Any Call	<input type="radio"/> Off <input checked="" type="radio"/> On

Apply Cancel

Blocked List Set		
Position	Number	Select
1		<input type="checkbox"/>
2		<input type="checkbox"/>
3		<input type="checkbox"/>
4		<input type="checkbox"/>
5		<input type="checkbox"/>
6		<input type="checkbox"/>
7		<input type="checkbox"/>
8		<input type="checkbox"/>
9		<input type="checkbox"/>
10		<input type="checkbox"/>

Add New

Position:  (1~10)

Number:

Call Feature	
Programmable Keys&MWI Touchlite	
Mem1~Mem10	1. Set the number in speed dial key. 2. Set the second function. Each memory can be arbitrarily set as Hold, DND, Transfer, Conference, Multicast Paging
MWI Touchlite	Set the number in shortcut key for voice message pickup.
Park Mode	Enable or disable Park function.
Hold key Active	Set the Call Park number. In Park mode, when one line of phone is in call, press HOLD key to call the number.
Hold key Idle	Set the Call Park number. In Park mode, when the phone is idle, press HOLD key to call the number.
Call Features	
Hotline	Hotline
Warm Line Time	Set the waiting time of user taking the phone off-hook to call the hotline number. The range is 0-9s and the default is 0s. If the warm line time is 0s, the hotline number will be sent out immediately after the phone is off-hook.

	The set range is 1-9s, for example 3s, the hotline number will be sent out immediately after 3s with the phone off-hook and without pressing any key. As long as any key is pressed within the set time, the time counting will stop.
Auto answer	Enable or disable auto answer function. If enabled, you could set 5 auto answer phone numbers for incoming call.
Auto Answer Time Out	Enable the auto answer function after timeout. The set range is 0~30s, the default is 5s.
Forward Type	Call forward type (mono-choice, the default is “Disable” type)
	Disable: disable the call forward function.
	Always Forward: all the incoming calls are forwarded to the appointed phone.
	Busy Forward: when the phone is busy, the incoming call will be forwarded to the appointed phone.
	No Answer Forward: if the phone has not answered, the incoming call will be forwarded to the appointed phone.
Forward Phone Number	Call the forwarded phone number.
Enable Call time out	Enable the no answer timeout function.
No Answer timeout	Set the no answer time. The default is 20s.
Call waiting	Enable or disable the call waiting.
Do Not Disturb	Set DND.
Ban Outgoing	Restrict any outgoing call.
Accept Any Call	Enable accepting any incoming call.

In the Black List page, you can add blacklist number, you can also delete.

Add New	
Position	Position 1~10
Number	The number to be blocked.

#### 4.3.4 Dial Rule

Configure dialing rules in the page.

## Dialing Rules

### Dialing Rules Configuration

End With #  No  Yes

Time limit for Redial number  (0~60 minutes)

Auto Dial Switch  ▾

Auto Dial Time  (1~30 seconds)

### User Defined Rules

Position	Rule	Select
1		<input type="checkbox"/>
2		<input type="checkbox"/>
3		<input type="checkbox"/>
4		<input type="checkbox"/>
5		<input type="checkbox"/>
6		<input type="checkbox"/>
7		<input type="checkbox"/>
8		<input type="checkbox"/>
9		<input type="checkbox"/>
10		<input type="checkbox"/>

### Add Digital Map Rule

Position:  (1~10)

Rule:

Dialing Rules Configuration	
Entry Name	Description
Dialing Rules Configuration	<p>1. Set the end of dialing rules, there are 2 kinds to choosefrom:</p> <ul style="list-style-type: none"> <li>● End with “#”.</li> <li>● Timeout: Timeout setting. Set the waiting timefor dialing end, the unit is second, the defaultis5s.</li> </ul> <p>The default is "#" as the end of the dial.</p> <p>2. 60mins。 Redialing timeliness: The default is 60mins,redial will be invalid. Maximum of 60mins can be set.</p>
User Define Rules	Users can add 10 custom dialing rules.

### 4.3.5 Multicast Paging

**Multicast Paging**

**Multicast Paging Configuration**

Paging Barge: 10 ?

Paging Priority Active: Disable

Multicast Paging Codec: G.711a

**Multicast Listening**

Priority	Listening Address ?	Label
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Apply Cancel

You can use the multicast function that will simply, conveniently and efficiently send the timely notice to each member of the multicast group. The multicast key is set on the telephonto send the multicast RTP stream to the pre-configured multicast address. Throughthe configuration monitoring multicast address on the phone, listen and play theRTP stream sent by the multicast address, the RTP stream multicast process does notinvolve SIP signaling. The phone can be set up to monitor 10 multicast addresses.

Multicast Paging Configuration	
Paging Barge	The common call priority in case of the multicast access. Define the call priority, 1 is the top level, 10 is the bottom level.
Paging Priority Active	Paging priority switch: you can enable or disable the paging priority switch. The function determines how to handle the newly incoming multicast RTP stream when the phone is presently performing the multicast session. If the paging priority switch is enabled, the phone will automatically ignore the multicast RTP stream with the lower priority and receive the multicast RTP stream with the higher priority and place the current multicast session on hold. If the paging priority switch is disabled, the phone will automatically ignore all the newly incoming multicast RTP streams.



Multicast Paging Codec	The multicast voice coding format:0:G.711a; 1:G.711u; 2:G.723; 3:G.729; 4:iLBC; 5:G.722
<b>Multicast Listening</b>	
listening Address	You can set to listen up to 10 different multicast addresses on the phone which can be used to receive the multicast RTP stream sent by them. If the priority of incoming multicast RTP stream is lower than the priority of current call, the phone will automatically ignore the multicast RTP stream. If the priority of incoming multicast RTP stream is higher than the priority of current call, the phone will automatically receive the multicast RTP stream and place the call on hold. You can select to disable the paging priority switch, the phone will automatically ignore all the incoming multicast RTP streams.
Label	Multicast label

### 4.3.6 Advanced Settings

#### Advanced Settings

**NAT Traversal**

STUN  Off  On

STUN Server Address

STUN Server Port  (1024~65534), default: 3478

Advanced Setting	
Entry Name	Description
Enable	Enable or disable NAT firewall function. The default is enable.
STUN Server Address	Set the address of STUN server.
STUN Server Port	Set the port # of STUN server.

## 4.4 QoS SETTING

You can get QoS information in the page.

## QoS Settings

QoS Settings	
Voice VLAN	<input checked="" type="radio"/> Off <input type="radio"/> On
Voice VID (TAG)	<input type="text" value="136"/> (2 ~ 4094)
User Priority	<input type="text" value="0"/> (0 ~ 7)
Data VLAN	<input checked="" type="radio"/> Off <input type="radio"/> On (Note:LAN port will work in bridge mode)
Data VID (TAG)	<input type="text" value="137"/> (2 ~ 4094)
User Priority	<input type="text" value="0"/> (0 ~ 7)
Voice QoS (Diff-Serv)	<input type="text" value="40"/>
SIP QoS (Diff-Serv)	<input type="text" value="40"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

QoS Setting	
Entry Name	Description
Voice VLAN	Enable or disable Voice VLAN function. The default is disable.
Voice VID(TAG)	The Voice Video Tag. The range is 2~4094. The default is 136.
User Priority	User priority. The default is 0.
Data VLAN	Enable or disableData VLAN function. The default is disable. When it is enabled, LAN port will operate in the bridge mode.
Data Priority	Data label. The range is 2~4094. The default is 137.
User Priority	User priority. The default is 0.
Voice QoS (Diff-Serv)	Voice interval service priority: the default is 40.
SIP QoS (Diff-Serv)	SIP interval service priority: the default is 40.

## 4.5 PROVISIONING

You can set the configuration information of phone in the page.

## Provisioning

### Provisioning Options

- DHCP Options  Disable  Enable  
 Auto Redirection  Disable  Enable  
 MAC File  Disable  Enable  
 ConfigID  Disable  Enable  
 Firmware Update  Disable  Enable  
 Notify Reboot  Disable  NoAuth  Auth

### Provisioning Server Settings

- Server Type  Disable  tftp  ftp  http  https  
 Server URL   
 User Name   
 Password

### AutoUpdate Settings

- ConfigID   
 ConfigID Update Time  1-24 hour of the day,0-Disable  
 Firmware Update Time  1-24 hour of the day,0-Check on reboot

### webUI Management

- Configuration Version Number 3.1000 ?  
 Export Configuration  ?  
 Import Configuration  No files selected   
 Firmware Version Number CD2-3.0.0-033  
 Import Firmware  No files selected

Provisioning	
Provision Options	
DHCP Options	Support DHCP Options parameter or not.
Auto Redirection	Support Auto Redirection or not
MAC File	Support that the Config. filename is MAC address or not
Config ID	Support that the Config. filename is config ID or not
Fireware Update	Support the firmware upgrade
Notify Reboot	Enable or disable Notify Reboot. After enabled, it is divided into 2 cases, one needs the authentication, the another does not need.
Provisioning Server Settings	
Server Type	Configure the server type: disable /TFTP/FTP/HTTP/HTTPS
Server URL	Configure the server address: IP address or domain name
User Name	User name
Password	Password
AutoUpdate Settings	
Config ID	Config ID

ConfigID Update Time	0-24, 0 - Disable, 1-24 hour selects any hours among 1-24 and generates a random number as the minute of upgrade among 0~60 and delays a few seconds to begin to detect if Config ID file is updated.
Firmware Update Time	0-24, 0 - Only check at reboot, 1-24 hour selects any hours among 1-24 and generates a random number as the minute of upgrade among 0~60 and delays a few seconds to check if there is any firmware update.
<b>WebUI Management</b>	
Configuration Version Number	Configure the version number of file
Export Configuration	Export the Config. file to local
Import Configuration	Import the Config. file from local, press "Import Now" to do import
Firmware Version Number	The version number of firmware
Import Firmware	Import the firmware version from local, press "Import Now" to do import

## 4.6 SYSTEM SETTINGS

### 4.6.1 Syslog Server

Set the information of Syslog server.

#### Logging Server

##### Logging Information

Logging Server  Off  On

Server Address

Server Port

Default  Events only  Events plus periodic status

Interval  (30 ~ 300)

Syslog Server	
Entry Name	Description
Syslog Server	Enable or disable the syslog function. The default is disable.
Server Address	Set the IP address or domain name of syslog server. The default is empty. It could be loaded from option43.

Server Port	Set the port # of syslog server. The default is 49494.
default	The default of logintelval is 0.
Events only	Log information print interval is 1min.
Events plus periodic status	Logint is the setting range of lower interval.
interval	Log interval time setting.

## 4.6.2 Time Settings

### Time Settings

**Time Settings Information**

SNTP  Disable  Enable

Server Address

Time Zone  ▼

Polling Interval  seconds (30 - 21600)

Local Time  :  :   :   
(Year:Month:Day Hour:Min)

Display Time  Disable  Enable

Time Format  ▼

**Daylight Savings Settings**

Enable Daylight  Off  On

Time Shift (minutes)  minutes (-1440 - 1440)

**Daylight Savings Start Dates**

Month  ▼

Week of Month  ▼

Day  ▼

Hour

**Daylight Savings Stop Dates**

Month  ▼

Week of Month  ▼

Day  ▼

Hour

Time Settings	
Time Settings Information	
SNTP	SNTP server enable or disable.
Server Address	SNTP server address: the default is 0.pool.ntp.org
Time Zone	Time zone selection
Polling Interval	Polling interval
Local Time	Local time
Display Time	Display the time or not
Time Format	Time format: 12 hour/24 hour
Daylight Savings Settings	

Enable Daylight	Daylight savings enable or disable.
Time Shift(minutes)	Time difference (minute)
Daylight Savings Start Dates	
Month	Daylight Savings Start Month
Week of Month	Week of Month
Day	Day of Week
Hour	Hour of Day
Daylight Savings Stop Dates	
Month	Daylight Savings Stop Month
Week of Month	Week of Month
Day	Day of Week
Hour	Hour of Day

### 4.6.3 User Management

Set the user information.

#### User Management

##### Keypad Password

Keypad Password  Note: Please only input number.  
 Verify Password  Because keypad only accept number.

##### User Management

Administrator User ID  Note:  
 Administrator Password  Only administrator user can modify this account.  
 Verify Password

##### Remote Administration

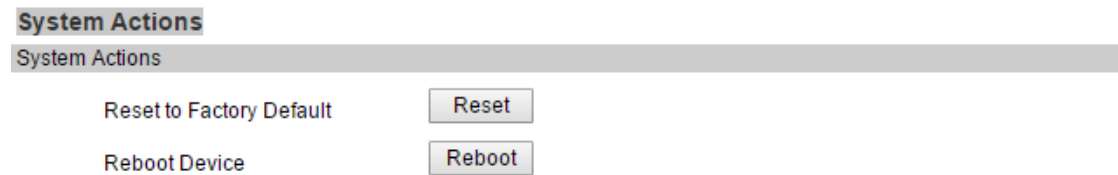
CetisAdmin User  Note:  
 CetisAdmin Password  Only administrator user can modify this account.  
 Verify Password

User Management	
Keypad Password	
Keypad Password	Set the keypad access password. The default is 123.
Verify Password	Input the set new password again for verification.
User Management	
Administrator User ID	Set the administrator ID as the username for webpage login. The default is admin.

Administrator Password	Set the password for webpage login in the identity of administrator. The default is admin.
Verify Password	Input the administrator password again for verification.
<b>Remote Administration</b>	
CetisAdmin User	Set the username of remote administrator. The default is admin.
CetisAdmin Password	Set the login password of remote administrator. The default is admin.
Verify Password	Input the administrator password again for verification.

#### 4.6.4 System Actions

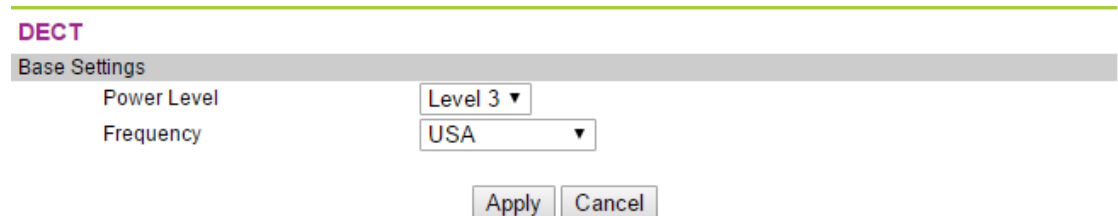
System operation.



System Action	
Reset Factory Default	Click <b>【Reset】</b> button to recover factory setting of phone.
Reboot Device	Click <b>【Reboot】</b> button to reboot the phone.

#### 4.6.5 DECT

DECT configuration.



<b>DECT</b>
Base Settings

Power Level	Select the power level of registered handset. The power level is related to the receiving range. The level 0 is minimum, level 7 has the maximum receiving range.
Frequency	Select the DECT frequency band: select the different countries.

## 5 SHORTCUT KEYS

1. \*\* 47 #, Broadcast the current ip address of the phone.
2. \*\* 39 #, Broadcast the current software version of the phone.
3. \*\* 85 #, Broadcast the current phonevlan ID.
4. \*\* 83 #, Broadcast current tftp server address.
5. \*\* 72 #, Restart the phone.
6. \*\* 36 #, Broadcast the current account of the phone.
7. \*\* 33 \* password #, Clear all the current configuration of the phone, and automatically restart.
8. \*\* 77 \* password \* config ID #, The phone downloads the configuration file from the tftp server and restarts automatically after the download is successful.
9. \*\* 87 \* password \* VLAN ID #, Modify the vlan ID of the phone; modify the vlan id success, the prompt success, and broadcast the modified vlan. ID, and then restart the phone.
10. \*\* 89 \* < keypad password > \* < TFTP server IP address > \* < configid > #, The phone downloads the configuration file from the tftp server and restarts automatically after the download is successful.
11. The following ways: the phone is connected to the POE static settings after the start
  - \*\* 73 \* 123 # Set the phone wan port to a fixed ip address mode.
  - \*\* 74 \* 123 \* 192.168.18.111 # Set a fixed ip address, I heard ip broadcast voice after the success of the amendment.
  - \*\* 76 \* 123 \* 255.255.255.0 # Set subnet, I heard the broadcast ip address of the voice after the success of the amendment.
  - \*\* 49 \* 123 \* 192.168.18.1 # Set the gateway, I heard the ip address of the broadcast voice after the success of the amendment.
  - \*\* 72 # after the phone restarts, input IP address in the PC's LAN browser, enter the WEB setup IP account settings.

Conditions of use:

Temperature: -10°C ~ 40°C

Humidity: 10% ~ 95%



## **FCC Warning**

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the 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:

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

## **FCC Exposure to Radio Frequency (RF) Signals**

For handset:

This is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards previously set by both U.S. and international standards bodies. These standards include a substantial safety margin designed to assure the safety of all persons, regardless of

age and health. This device and its antenna must not be colocated or operating in conjunction with any other antenna or transmitter. This product has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in FCC/OET Bulletin 65 Supplement C (2001) and IEEE 1528.

For Base:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### **ISED Warning**

This device complies with Innovation, Science, and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

The device is compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance.

### **ISED Specific Absorption Rate (SAR) information**

For Handset

SAR tests are conducted using standard operating positions accepted by the ISED with device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model device is an available for sale to the public, it must be tested and certified to the ISED that it does not

exceed the exposure limit established by the ISEDC, tests for each device are performed in positions and locations as required by the ISEDC.

For Base

This equipment complies with ISEDC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter located or operating in conjunction with any other antenna or transmitter.

### **Avertissement ISEDC**

Cet appareil est compatible avec la licence de l'Innovation, la Science et le développement économique du Canada à l'exemption des normes RSS. Le fonctionnement est sujet aux deux (2) conditions suivantes :

- (1) Cet appareil peut ne pas causer de l'interférence, et
- (2) Cet appareil doit accepter l'interférence, incluant de l'interférence qui peut causer un mauvais fonctionnement de cet appareil.

L'appareil est compatible avec les directives de l'exposition RF, les utilisateurs peuvent obtenir les renseignements pour le Canada sur l'exposition RF et sa conformité.

### **Renseignements sur le taux spécifique d'absorption ISEDC (SAR)**

Pour le combiné

Les tests SAR sont faits en utilisant les normes de positions d'opération acceptées par l'ISEDC avec les appareils émettant les plus hauts niveaux de puissance certifiés sur toutes les bandes de fréquences, même si le SAR est déterminé d'être du plus haut niveau de puissance certifié, le niveau SAR actuel de l'appareil peut être sous la valeur maximale de fonctionnement. Avant qu'un nouveau modèle d'appareil ne soit disponible pour la vente au public,

celui-ci doit être soumis à des tests de certification par l'ISED  
lesquels n'excèdent aucunement la limite d'exposition issue par  
l'ISED, lesquels sont des tests effectués sur chaque appareil dans  
des positions et endroits requis par l'ISED.

Pour la base

Cet équipement est conforme avec les limites d'exposition à la  
radiation de l'ISED émises dans un environnement contrôlé. Cet  
équipement devrait être installé et fonctionnel avec un minimum de  
distance entre le radiateur et votre corps d'au moins 20 cm. Ce  
transmetteur ne doit pas être co-situé près d'une autre antenne ou  
en conjonction avec un autre transmetteur.

***This product meets the applicable Innovation, Science and  
Economic Development Canada technical specifications.***