DPH-400G/DPH-400GE VERSION 1.00

USER MANUAL









Please read the following safety notices before installing or using this phone. They are crucial for the safe and reliable operation of the device.

- Please use the external power supply that is included in the package. Other power supplies may cause damage to the phone, affect the behavior or induce noise.
- Before using the external power supply in the package, please check with home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it, it may cause fire or electric shock.
- The plug-socket combination must be accessible at all times because it serves as the main disconnecting device.
- Do not drop, knock or shake it. Rough handling can break internal circuit boards.
- Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature, below 0° C or high humidity.

Avoid wetting the unit with any liquid.

- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug or phone line, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place.
- You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

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1 Introducing VoIP Phone

1.1 Simple Introduction

Thank you for your purchasing DPH-400G/DPH-400GE.

DPH-400G/DPH-400GE is a full-feature telephone that provides voice communication over the same data network that your computer uses. This phone functions not only much like a traditional phone, allowing to place and receive calls, and enjoy other features that traditional phone has, but also it owns many data services features which you could not expect from a traditional telephone. This guide will help you easily using the various features and services available on your phone.

1.2 Delivery Content

Item	Description
IP Phone	DPH-400G/DPH-400GE Phone with display and
	keypad.
Power Adapter	Power supply for telephone.
Network Cable	Used to access network for the phone.
Handset	Make phone calls with the phone's basic functions.
Handset Cord	Connected with the handset and the phone.
Quick Installation Guide	Quick install the DPH-400G/DPH-400GE
	guide.
CD	Containing manual and quick installation guide.
Warranty Safety Information	Warranty Safety Information for
	DPH-400G/DPH-400GE .

Please check whether the delivery contains the following parts:

IP Phone are designed to look like conventional phones, the following photo shows a broad overview of the IP Phone.



1.3 Keypad

Key	Key name	Function Description
Navigation		Navigation keys assist users for operating. In idle state they have special function. You can configure through the web page according to your patterns of use.
РВООК	Phonebook	Access to phone book, check the record list and add new records and revise the record. When check the phone book record, press this key again will return to idle mode.
MUTE	Mute	Press this key in calling mode, you can hear the other side, and the other side cannot hear you.
HOLD	Hold	Temporarily hold the active call during the talking; press the key again to unhold the call. You also can press this key then input the third party's phone number and end with the # key during calling; you can make a call with the third party and hold the previous calling.
TRANSFER	Transfer	Use the key to realize blind transfer or attended transfer.
CONF	Conference	Use this key to realize the three party call.
- +	Volume -/+	Turn down or turn up the volume by pressing these two keys.

REDIAL		1. In the hook off /hands-free mode, use the key to dial the last call number.
	Redial	2. In stand-by mode, it has a function to check the Outgoing Call.
•())	Hands-free	Make the phone into hands-free mode.
	Indicator light	If power on, the indicator is light.
		Keys combination, include functions such as
Soft key 1/2/3/4		History/PBook /DND /Menu /Del /Redial /Send / Quit/Answer/Divert/Reject/Hold/Transfer/Conf/Cl ose and so on.
	Call logs	View the Missed call, Incoming Call and dialed Call.
1 2лес Зост 4.он 5.ис 6ино 7 годе 8.00 9чклгг *. 0 #seno	Digital keyboard	Inputting the phone number or DTMF.
		Programmable keys to let you customize with different functions. You can configure them in the web page.
	DSS keys	
RLS		

1.4 Port for connecting

Port	Port name	description
	Power switch	Input: 5V AC, 1A.
	WAN	10/100M Connect it to Network.
	LAN	10/100M Connect it to PC.

Headset	Port type: RJ-9 connector.
Handset	Port type: RJ-9 connector.
External console interface	Port type: RJ-11 direct connector.

1.5 Icon introduction

Icon	Description
\longrightarrow	Call out.
***	Call in.
•	Call hold.
AA	Auto answer.
<u>U</u>	Call mute.
1	Contact.
DND	DND(Do not Disturb).
III)	In hand free mode.
<i>c</i>	In handset mode.
Δ	In headset mode.
\boxtimes	SMS.
Lt .	Missed call.
C+	Call forward.

1.6 LED introduction

LED Status	Description
Steady green	The object is in idle status.
Slow blinking red	The object is ringing.
Steady red	The object is active.
Fast blinking red	The object is failed.
Off	The object is failed/ No subscribe

Table 1 Programmable key LEDs for BLF

Table 2 Programmable key LEDs for Presence

LED Status	Description
Steady green	The object is online.
Slow blinking red	The object is ringing.
Steady red	The object is active.
Fast blinking red	The object is failed.
Off	The object is failed/ No subscribe

Table 3Line key LEDs

LED Status	Description
Steady green	The account is active
Fast Blinking green	There is an incoming call to the account
Slow Blinking green	The call is on hold/ Registration is unsuccessful
Off	The line is unapplied or idle

Table 4 Programmable key LEDs for line

LED Status	Description
Steady green	The account is active
Fast Blinking green	There is an incoming call to the account
Slow Blinking green	The call is on hold
Slow Blinking red	Registration is unsuccessful
Off	The line is not unapplied or idle

Table 5 Programmable key LEDs for MWI

LED Status	Description
Blinking green	There are new voice mails
Off	There is no new voice mail

Table 6 Power Indication LED

LED Status	Description
Steady red	Power on.
Fast Blinking red	There is an incoming call.

Off Power off.	
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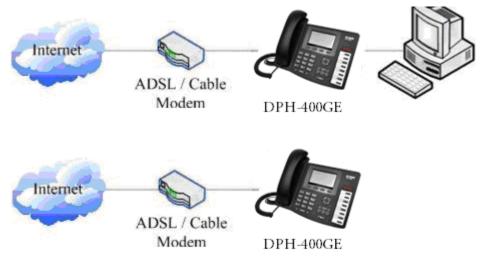
2 Initial connecting and Setting

2.1 Connect the phone

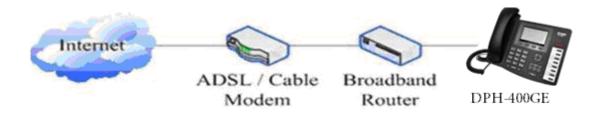
2.1.1 Connect to network

Step 1: Connect the IP Phone to the corporate IP telephony network. Before you connect the phone to the network, please check if your network can work normally.

You can do this in one of two ways, depending on how your workspace is set up. Direct network connection—by this method, you need at least one available Ethernet port in your workspace. Use the Ethernet cable in the package to connect WAN port on the back of your phone to the Ethernet port in your workspace. Since this VoIP Phone has router functionality, whether you have a broadband router or not, you can make direct network connect. The following two figures are for your reference.



Shared network connection—Use this method if you have a single Ethernet port in your workspace with your desktop computer already connected to it. First, disconnect the Ethernet cable from the computer and attach it to the WAN port on the back of your phone. Next, use the Ethernet cable in the package to connect LAN port on the back of your phone to your desktop computer. Your IP Phone now shares a network connection with your computer. The following figure is for your reference.



Step 2: Connect the handset to the handset port by the handset cable in the package.

Step 3: connect the power supply plug to the DC 5V adapter port on the back of the phone. Use the power cable to connect the power supply to a standard power outlet in your workspace.

If your LCD screen displays different information from the above, you need refer to the next section "Initial setting" to set your network online mode. If your VoIP phone registers into corporate IP telephony Server, your phone is ready to use.

2.1.2 Power adaptor connection

Make sure that the power you use is comply with the parameters of power adaptor.

- 1. Plug power adaptor to power socket.
- 2. Plug power adaptor's DC output to the DC5V port of DPH-400G/DPH-400GE to start up.

3. There will be displayed black line and "initializing... wait logon..." on the screen. After finishing startup, phone will show greeting, current date and time and so forth.

4. If phone has registered to the server, you can place or answer calls.

2.2 Basic Initialization

DPH-400G/DPH-400GE is provided with a plenty of functions and parameters for configuration. User needs some network and VoIP knowledge so that user could understand the meanings of parameters. In order to make user use the phone more easily and convenient, there are basic configurations introduced which is mandatory to ensure phone calls.

2.2.1 Network settings

Make sure that network is connected already before setting network of phone. DPH-400G/DPH-400GE uses DHCP to get WAN IP configurations, so phone could access to network as long as there is DHCP server in it. If there is no DHCP server available, phone has to be changed WAN network setting to Static IP or PPPoE.

Setting PPPoE mode (for ADSL connection)

1. Get PPPoE account and password first.

2. Press Menu->Settings->Advanced Setting, then enter passwords, and choose network ->WAN->Net Mode, enter and choose PPPoE through navigation keys and press the Save key.

3. Press Quit, then choose PPPoE Set, press Enter.

4. The screen will show the current information. Press Del to delete it, then input your PPPoE user and password and press Save.

5. Press Quit six times to return to the idle screen.

6. Check the status. If the screen shows "**Negotiating...**" it shows that the phone is trying to access to the PPPoE Server; if it shows an IP address, then the phone has already get IP with PPPoE.

Setting Static IP mode (static ADSL/Cable, or no PPPoE / DHCP network)

1. Prepare the network's parameters first, such as IP Address, Net mask, Default Gateway and DNS server IP address. If you don't know this information, please contact the service provider or technician of network.

2. Press Menu->Settings->Advanced Setting, then enter passwords, and choose network ->WAN->Net Mode, enter and choose Static through navigation keys and press the Save key.

3. Press Quit, then choose Static Set, press Enter.

4. The screen will show the current information, and then press Del to delete. Input your IP address, Mask, Gateway, DNS and press Save to save what you input.

5. Press Quit six times to return to the idle screen.

6. Check the status, the screen shows "**Static**" .the screen shows the IP address and gateway which were set just now, if the phone could display the right time, it shows that Static IP mode takes effect.

Setting DHCP mode

1. Press Menu->Settings->Advanced Setting, then enter passwords, and choose network ->WAN->Net Mode, enter and choose DHCP through navigation keys and press the Save key.

2. Press Quit six times to return to the idle screen.

3. Check the status, the screen shows "DHCP", If the screen shows the IP

address and gateway which were set just now, it shows that DHCP mode takes effect.

3 Basic function

3.1 Making a call

3.1.1 Call Device

You can make a phone call via the following devices:

- 1. Pick up the handset, \checkmark icon will be showed in the idle screen.
- 2. Press the Speaker button, \blacksquare icon will be showed in the idle screen.
- 3. Press the Headset button if the headset is connected to the Headset Port in

advance. The icon \square will be showed in the idle screen.

You can also dial the number first, and then choose the method you will use to speak to the other party.

3.1.2 Call Methods

You can press an available line button if there is more than one account, then

- 1. Dial the number you want to call.
- 2. Press History softkey, use the navigation buttons to highlight your choice (press Left/Right button to choose Missed Calls, Incoming Calls and Outgoing Calls.
- 3. Press the RD button to call the last number called.
- 4. Press the programmable keys which are set as speed dial button.

Then press the Send button or Send softkey to make the call if necessary.

3.2 Answering a call

Answering an incoming call

1. If there is no other calling, you could choose the handle or press the speaker

button or use softkey-answer or press the headset to accept the call.

2. If you are on another call, press the fluctuation navigation key to answer the new call.

During the conversation, you can alternate between Headset, Handset and Speaker phone by pressing the corresponding buttons or picking up the handset.

3.3 DND

Press the DND softkey to active DND Mode. New incoming calls will be rejected and the display will show: DND icon. Press the DND softkey to choose deactivate DND mode. Incoming calls will be stored in the Call History.

3.4 Call Forward

This feature allows you to forward an incoming call to another phone number. The display showed \Box^+ icon.

The following call forwarding events can be configured:

Off: Call forwarding is deactivated by default.

Always: Incoming calls are immediately forwarded.

Busy: Incoming calls are immediately forwarded when the phone is busy.

No Answer: Incoming calls are forwarded when the phone is not answered after a specific period.

To configure Call Forward via Phone interface:

- 1. Press Menu ->Features->Enter->Call Forward->Enter.
- 2. There are 4 options: Off, Always, Busy, No Answer.
- 3. If you choose one of them (except Off), enter the phone number you want to forward your calls to. Press Save to save the changes.

3.5 Call Hold

- 1. Press the Hold button or Hold softkey to put your active call on hold.
- 2. If there is only one call on hold, press the hold softkey to retrieve the call.

3. If there are more than one call on hold, press the line button, and the

Up/Down button to highlight the call, then press the Unhold button to retrieve the call.

3.6 Call Waiting

- 1. Press Menu ->Features->Enter->Call Waiting->Enter.
- 2. Use the navigation keys to active or inactive call waiting.
- 3. Then press the Save to save the changes.

3.7 Mute

Press Mute button during the conversation, icon will be showed in the LCD.

Then the called will not hear you, but you can hear the called. Press it again to

get the phone to normal conversation.

3.8 Call transfer

1. Blind Transfer

During talk, press the key Transf, and then dial the number that you want to transfer to, and finished by "#". Phone will transfer the current call to the third party. After finishing transfer, the call you talk to will be hanged up. User cannot select SIP line when phone transfers call.

2. Attended Transfer

During talk, press the key Transf, then input the number that you want to transfer to and press Send. After that third party answers, then press Transfer to complete the transfer. (You need enable call waiting and call transfer first). If there are two calls, you can just talk to one, and keep hold to the other one. The one who is keep hold cannot speak to you or hear from you. In other way, if user wants to invite the third party during the call, they can press Conf to make calls mode in conference mode. If user wants to stop conference, user can press Split. (User must enable call waiting and three way call first).

Note: the server that user uses must support RFC3515 or it might not be used 3. Semi-attended Transfer

During the talk, press Transf firstly, and then press Send after inputting the number that you want to transfer. You are waiting for connection, now, press Transf and the transfer will be done. (To use this feature, you need enable call waiting and call transfer first).

3.9 3-way conference call

1. Press the Conf softkey during an active call.

2. The first call is placed on hold. Then you will hear a dial tone. Dial the number to conference in, then press Send key.

3. When the call is answered, press Conf and add the first call to the conference.

4. If you want to release the conference, press Split key.

Note: the server that user uses must support RFC3515 or it might not be used (User must enable call waiting and three way call first).

3.10 Multiple-way call

In this phone you can registe 5 SIP account numbers and the 5 accuonts can be used at the same time. There are four keys used as SIP line toleranted to make calls in SIP accounts. It will blink when the account registed failed.

In order to convenience the enterprise the phone support multiple call answering,

call hold and multi-line call. The user can answer 10 incoming call phones at most, you can choose any call through pressing the fluctuation navigation key in taiking and the other 9 calls will be in held. You also can press the fluctuation navigation key to change the call and recover the talking then last call will be held automatic. You also can define the four line keys as multi-line keys , then each line key will relate to a call and you can choose the talking through pressing the line keys and recover the talking and the light to the line key will bright all the time when in taking ,then the light of the call in held is sparking. If user has 5 line calls and wants to invite the five party during the call, they can press Conf or Transf "New Call", press OK, enter the number ,then press Send and wait for the other party to answer. When the multiple-way calls, you can press the arrow keys to select a call.

4 Advanced function

4.1 Call pickup

Call pickup is implemented by simulating pickup function of PBX. it's that, when A calls B, B rings but no answer, at this moment, C can hook off and input an appointed prefix plus B's number, pick up A's call and talk with A. The following chart shows how to configure an appointed prefix in dial peer to have call pick up function.

Dial Peer Table									
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length			
*1*T	0.0.0.0	5060	SIP	rep:pickup	no suffix	3			

1 means appointed prefix code. After making the above configuration, C can dial *1* plus B's phone number to pick up A's call. User can set prefix in random, in the case of no affecting current dialing rules.

4.2 Join call

When B is calling C, A can join in the existing call by inputting an appointed prefix numbers plus B or C number, if B or C also supports join call. The following chart shows how to configure an appointed prefix in dial poer to

The following chart shows how to configure an appointed prefix in dial peer to have join call function.

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
*2*T	0.0.0.0	5060	SIP	rep:joincall	no suffix	3

2 means appointed prefix code. After making the above configuration, A can dial *2* plus B or C number to join B and C's call. User can set prefix in random, in the case of no affecting current dialing rules.

4.3 Redial / Unredial

If B is in busy line when A calls B, A will get notice: busy, please hang up. If A want to connect B as soon as B is in idle, he can use redial function at the moment and he can dials an appointed prefix number plus B's number to realize redial function.

What is redial function? A can't not build a call with B when B is in busy, then A will subscribe B's calling mode at 60 second intervals. Once B is available, A will get reminder of rings to hook off, while A hooks off, A will call B automatically. If at this time A is occupied temporarily and unwilling to contact B, A also can cancel the redial function by dialing an appointed prefix plus B's number before making the redial function.

 *3*T
 0.0.0.0
 5060
 SIP
 rep:redial
 no suffix
 3

 *4*T
 0.0.0.0
 5060
 SIP
 rep:unredial
 no suffix
 3

3 is appointed prefix code. After making the above configuration, A can dial *3* plus B's phone number to make the redial function.

4 is appointed prefix code. After configuration, A can dial *4* to cancel redial function.

User can set prefix in random, in the case of no affecting current dialing rules.

4.4 Click to dial

When user A browses in an appointed Web page, user A can click to call user B via a link (this link to user B), then user A's phone will ring, after A hooks off, the phone will dial to B.

4.5 Call back

This function allows you dial out the last phone call you received.

4.6 Auto answer

When there is an incoming call, after no answer time, the phone will answer the call automatically.

4.7 Hotline

You can set hotline number for every sip, and then enter the dialer interface and after Warm Line Time, the phone will call out the hotline number automatically.

4.8 Application

4.8.1 SMS

1) Press Menu ->Application->Enter->SMS->Enter.

2) Use the navigation keys to highlight the options. You can read the message in the Inbox/Outbox.

3) After view the new message, you can press Reply to reply the message, and use the 123 softkey to change the Input Method, when enter the reply message, press OK, then use the navigation keys to select the line from which you want to

send, then Send.

4) If you want to write a message, you can press New and enter message. Use the 123 softkey to change the Input Method. When you input the message you want to send, press OK, then use the navigation keys to select the line from which you want to send, then Send.

5) If you want to delete the message, after view the message, press Del, then you have three options to choose: Yes, All, No.

4.8.2 Memo

You can add some memos to record some important things to remind you. Press Menu->Application->Memo->Enter->Add.

There are some options to configure: Mode, Date, Time, text, Ring. When the configuration is completed, press Save.

4.8.3 Voice Mail

1) Press Menu->Voice Mail->Enter.

2) Use the navigation keys to highlight the line for which you want to set, press Edit, and use the navigation key to turn on the mode, and the input the number. Press 123 softkey to choose the proper input method.

3) Press Save to save the change.

4) To view the new voicemail, Press the Voicemail softkey directly. Press Dial, then you may be prompted to enter the password, then you can listen to your new and old messages.

4.9 Ping

- 1) Press Menu-> Application->ping>Enter.
- 2) Input the IP you want ,and press start key ,if input wrong, you can press "delete" to modification the IP.
- 3) After input the IP, wait a moment it will display"confirmation", it meas ping successful ,or means ping failed.

4.10 Programmable Key Configuration

The phone has 8 programmable keys which are able to set up to many functions per key. The following list shows the functions you can set on the programmable keys and provides a description for each function. The default configuration for each key is N/A which means the key hasn't been set for any functions.

```
1. Set the type as Memory Key
```

Press Menu->Settings->Basic Setting->Enter->DSS Key, you have two options:

Line As DSS Keys and Memory As DSS Keys, choose one you want to make the assignment, use the navigation key to choose the type as memory key. In the Dial field, you have some options, such as Normal, Speed Dial, Intercom, BLF, Presence, and MWI.

Speed dial

You can configure the key as a simplified speed dial key. This key function allows you to easily access your most dialed numbers.

Intercom

You can configure the key for Push to talk code and it is useful in an office environment as a quick access to connect to the operator or the secretary.

BLF

BLF is also called "Busy lamp field", and it is used to prompt the user to pay attention to the state of the object than has been subscribed, and used to cooperate with the server to pick up the phone call. You can configure the key for Busy Lamp Field (BLF) which allows you to monitor the status (idle, ringing, or busy) of other SIP account. User can dial out on a BLF configured key. Please refer to "LED Instruction" for more detail about the LED status in different situation.

Note: In the Web interface, you can also set the pickup number to active the pickup function. For example, if you set the BLF number as 212, and the pickup number is 189, then when there is an incoming call to 212, press the BLF key, it will call out the 189 automatically to pick up the incoming call on 212.

Presence

Presence is called present, and compared to the BLF, it can also check whether object online.

Note: You can subscribe the BLF and presence station of the same number at the same time.

MWI

When the key is configured as MWI, you are allowed to access voicemail quickly by pressing this key.

CALL PARK

You need setting a server number, when you have set what represent Call park. If you have a calling and you busy now, you could press the key and hear a number, then you could choose other phone and input this number. so you can directly recover call..

Call forward

When there is an incoming call, press the key and the incoming call can be transferred to the number set up.

2. Set the type as Line

You can set these keys as line keys, and press it, it will enter dialer interface.

3. Set the type as Key Event

You can set these keys as Key Event, and the subtype have many options. Choose one and it will have corresponding function.

• None

- MWI
- DND (Do Not Disable)
- Hold
- Transfer
- Phone Book
- Redial
- Pick up
- Join
- Auto Redial On
- Auto Redial Off
- Call Forwarding
- History
- Flash
- Memo
- Headset
- Release: Press the key you can end the call.
- Lock: Press the key you can lock the keyboard.
- SMS
- Call Back
- Power Light
- Hide DTMF
- Prefix
- Hot Desking: Pressing the key, you can clear all sip information and register yourself sip information
- Agent
- 4. Set the type as Dtmf

You can configure the key as Dtmf. This key function allows you to easily dial or edit dial number.

5. Set the type as Remote

You need to match a XML Phonebook address, pressing the button you can directly access the corresponding remote phonebook.

6. Set the type as BLF List Key

It needs the cooperation with the Broadsoft server. The traditional BLF is that every number will need to be subscribed, so if the numbers that subscribed is so many that it will cause to obstruction. However, BLF List Key will put the numbers that needed to be subscribed in a group, and the phone use the URL of the group to subscribe and analyze the specific information of each number such as number, name, state and so on according to the notifications from the server. Then set the idle Memory key as BLF List Key, later if the state of an object changes, the corresponding LED will change.

7. set the type as Multicast

Set the multicast address and audio code, press this key to initiate the multicast.

Notice: Detailed feature see 8.3.4.7

5 Other functions

5.1 Auto Handdown

1. Press Menu ->Features-> Enter->Auto Handdown-> Enter.

2. Set the Mode Enable through the navigation key, then set Time, unit is minute, then press Save.

3. When the call ends, after the time that you have set, the phone will back to the idle interface.

5.2 Ban Anonymous Call

1. Press Menu ->Features-> Enter->Ban Anonymous Call-> Enter.

2. Choose which sip you want to enable Ban Anonymous Call, and then press Enter, choose Enabled or Disabled through navigation key.

3. If you choose Enabled, the others can't call the phone by anonymous. If you choose Disabled, the others can call the phone by anonymous.

5.3 Ban Outing

1. Press Menu ->Features-> Enter->ban outgoing> Enter

2.Enable the function, then you can not call any number.

5.4 Dial Plan

1. Press Menu ->Features-> Enter->Dial Plan-> Enter.

2. The following plans you can set: Press # to Send, Timeout to Send, Timeout, Fixed Length Number, Press # to Do BXFER, BXFER On Onhook, AXFER On Onhook. You can enable or disable each dial plan.

5.5 Dial Peer

1. Press Menu ->Features-> Enter->Dial Peer-> Enter.

2. Press Add to enter the Edit interface, and then input some information. For example: Number: 1T, Dest.: 0.0.0.0, Port: 5060, Mode: SIP, Alisa: all:3333, Suffix: no suffix, Del Len: 0. Then press Save. Then press Save.

3. Input 1+number (1234) in the dial interface, you can dial out 3333.

You can refer to 8.3.3.4 DIAL PEER.

5.6 Auto Redial

1. Press Menu ->Features-> Enter->Auto Redial-> Enter.

2. Choose Mode Enabled or Disabled through the navigation key. If you choose Enable, you also need to set Interval and Times, and then press Save.

3. After enable auto redial, calling out someone, if he is in busy, it will pop up a prompt box whether to auto redial, press OK, the phone will call out him according the Interval and Times that you set.

5.7 Call completion

1. Press Menu ->Features-> Enter->Call Completion-> Enter.

2. Enable the function through the navigation key, and then Save .

3. Call out others, if he is in busy, it will pop up a prompt Call Completion Waiting number? Press OK, when he is in idle, it will pop up a prompt Call Completion Call number? Press OK, the phone will call out the number automatically.

5.8 Ring From Headset

- 1. Press Menu ->Features-> Enter->Ring From Headset-> Enter.
- 2. Enable this function through the navigation key, the phone connects the headset, when the phone has an incoming call, it will ring from the headset.

5.9 Power Light

- 1. Press Menu ->Features-> Enter->Power Light-> Enter.
- 2. Enable this function through the navigation key.

5.10 Hide DTMF

1. Press Menu ->Features-> Enter->Hide DTMF-> Enter.

2. Through the navigation key to choose: Disabled, All, Delay, Last Show. When you set up a call with others and need to input the DTMF, the DTMF will show as you have set.

5.11 Password Dial

- 1. Press Menu ->Features-> Enter->Password Dial-> Enter.
- 2. Enable this function, you can also set Prefix and Length. For example, you

want call out 1234567 and you set Password Dial Prefix 123 and Password Length 3, then enter the dial interface and input 1234567, and then the screen will show 123***7.

5.12 Pre Dial

1. Press Menu ->Features-> Enter->Pre Dial-> Enter.

2. Through navigation key to enable the feature, and to realize the Pre Dial function.

5.13 Action URL & Active URI

1. Action URL: The action that the phone carries out e.g. open dnd can produces one URL, then the phone can send the HTTP Get of the URL to PC, then the phone can report the action to the PC.

2. Active URI: Enter the web page of the phone, PHONE->FEATURE, input Active URL Limit IP, You can input internet server (e.g. PC'IP), PC can send one URL to the phone, the phone will produce one action for example open dnd, so PC can control the phone.

5.14 Push XML

Enter the web page of the phone->PHONE->FEATURE, input Push XML Server(e.g. PC'IP), then PC can push text, SMS, phonebook, advertisement,, execute etc. to phone to update the message or the phone makes an action.

6 Basic setting

6.1 Keyboad

 Press Menu ->Settings-> Enter->Basic Setting-> Enter->Keyboard->Enter.
 There are four items: DSS Keys, Multiplex, Long Click, SoftKey, You can set up respectively on them. Press the key Enter to the interface, then use the navigation keys to choose the function for the key according to you want.
 Press the key OK to save.

6.2 Screen Set

Press Menu ->Settings-> Enter->Basic Setting-> Enter->Screen Set->Enter.
 You can set Contrast and Brightness, press Enter and use the navigation keys to set, then press the key Save.

6.3 Ringer Set

Press Menu ->Settings-> Enter->Basic Setting-> Enter->Ringer Set->Enter.
 You can set Ringer Volume and Ringer Type, press Enter and use the navigation keys to set, then press the key Save. In the Ringer Type, the default system rings have nine and the custom ringtones have five that can be set through the web page.

6.4 Voice Volume

1. Press Menu ->Settings-> Enter->Basic Setting-> Enter->Voice Volume->Enter.

2. Use the navigation keys to turn down or turn up the voice volume, the press the key Save.

6.5 Time & Date

1. Press Menu ->Settings->Enter->Basic Setting->Enter->Time & Date->Enter. 2. You have two options to choose: Auto and Manual, use the navigation keys to choose, then press Save.

6.6 Greeting Word

1. Press Menu ->Settings-> Enter->Basic Setting-> Enter->Greeting Word->Enter.

2. You can enter the message and press Save, it will display in the phone screen when the phone start up.

6.7 Language Setting

Press Menu ->Settings-> Enter->Basic Setting-> Enter->Language->Enter.
 DPH-400G/DPH-400GE support three languages, you can use the navigation keys to choose. The default two languages are English and Chinese.

7 Advanced settings

7.1 Account

Press Menu->Enter->Advanced settings, and then input the password to enter the interface, the default password is 123. You can set it through the web page. Then choose Account then press Enter, you can do some SIP settings.

7.2 Network

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Network and press Enter, you can do network settings, you can refer to 2.2.1 Network settings.

7.3 Security

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Security, you can configure Menu Password, Keylock Password, Keylock Status.

7.4 Maintenance

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Maintenance and press Enter, you can configure Auto Provision, TR069, Backup, and Upgrade.

7.5 Factory Reset

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Factory Reset and press Enter, you can choose Yes or No.

8 Web configuration

8.1 Introduction of configuration

8.1.1 Ways to configure

DPH-400G/DPH-400GE has three different ways to different users.

- Use phone keypad.
- Use web browser (recommendatory way).
- Use telnet with CLI command.

8.1.2 Password Configuration

There are two levels to access to phone: root level and general level. User with root level can browse and set all configuration parameters, while user with general level can set all configuration parameters except SIP $(1\sim5)$'s that some parameters cannot be changed, such as server address and port. User will has different access level with different username and password.

- Default user with general level:
 - username: guest
 - ◆ password: guest
- Default user with root level:
 - ♦ username: admin
 - ◆ password: admin

The default password of phone screen menu is 123.

8.2 Setting via web browser

When this phone and PC are connected to network, enter the IP address of the wan port in this phone as the URL (e.g. http://xxx.xxx.xxx/ or http://xxx.xxx.xxx.xxx/).

If you do not know the IP address, you can look it up on the phone's display by checking menu-Status.

The login page is as below picture

User:		
Password:		
1	Logon	

8.3 Configuration via WEB

8.3.1 **BASIC**

8.3.1.1 Status

-Lin	K						
DOGE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGO
51	WAN						
		Connect	ion Mode:	DH	CP		
)G		MAC Add	iress:	00:	03:07:a9:b4:0b		
GE		IP Address:		192	.168.3.254		
		IP Gate	way:	192	2.168.1.1		
		Bridge M	lode:	Ena	bled		
	Accounts						
		SIP Line	1:	@:5060		Unappl	ied
		SIP Line	2:	@:5060		Unappl	ied
		SIP Line	3:	@:5060		Unappl	ied
		SIP Line	4:	@:5060		Unappl	ied
		SIP Line	5:	@:5060		Unappl	ied

Status

Field name	Explanation
	Shows the configuration information on WAN port,
	including the connect mode of WAN port (Static,
WAN	DHCP, PPPoE), MAC address, the IP address of WAN
	port, IP Gateway, ON or OFF bridge mode.
Accounts	Shows the phone numbers provided by the SIP LINE
	1~5 servers.

8.3.1.2 Wizard

D-Lin	K							
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT	
STATUS	WAN Conne	ection Mode						
WAN Connection Mode IZARD Static IP ALL LOG DHCP								
CALL LOG LANGUAGE	BASIC NETWORK VOIP PHONE MAINTENANCE WAN Connection Mode Static IP DHCP PPPOE Next Wizard Next Ct the proper network mode according to the network setting If your ISP server provides you the static IP address, one, and then finish Static Mode setting. If you don't sters of Static Mode setting, please ask your ISP for the In this mode, you will get the information from the In this mode, you must input your ADSL account and so refer to 2.2.1 Network setting to speed setting your							
LANGOAGE	BASIC NETWORK VOIP PHONE MAINTERANCE SECURITY LOCOUT WAN Connection Mode							
BROADBAND								
Wizard								
 Wizard Please select the proper network mode according to the network condition. DPH-400G/DPH-400GE provide three different network settings: Static: If your ISP server provides you the static IP address, please select this mode, and then finish Static Mode setting. If you don't know about parameters of Static Mode setting, please ask your ISP for them. DHCP: In this mode, you will get the information from the DHCP server automatically; need not to input this information artificially. PPPoE: In this mode, you must input your ADSL account and password. You can also refer to 2.2.1 Network setting to speed setting your network. Choose Static IP MODE, click [NEXT] can configure the network and SIP(default SIP1)simply, also can browse too. Click [BACK] can return to 								

D-Link										
DPH-400GE	IC NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOG				
STATUS Static	IP Settings									
WIZARD	IP Addr	ess:	192.	168.2.40	[
CALL LOG	Subnet	Mask:	255.	255.0.0	T					
LANGUAGE	IP Gate	-	192.	168.1.1	-					
	DNS Do Primary		202	06 104 100						
	-	ary DNS:	,	96.134.133	1					
	becond	[]		ext						
			(
BROADBAND										
IP Address	Input the I									
Subnet Mask	Input the I	Input the Netmask distributed to you.								
IP Gateway	Input the 0	Gateway a	ddress d	istributed to	you.					
DNS Domain	Set DNS of	Set DNS domain postfix. When the domain which you								
	input cann	input cannot be parsed, phone will automatically add								
	this domai	this domain to the end of the domain which you input								
	before and	before and parse it again.								
Primary DNS	Input your	Input your primary DNS server address.								
Secondary DNS	Input your	secondar	y DNS s	erver addres	SS.					
D-Link										
DPH-400GE	IC NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGC				
	SIP Settings									
WIZARD CALL LOG	Display	Name:	2041	2041						
LANGUAGE	Server /			192.168.1.2						
	Server I	ort: cation User:	2041	5060						
		cation Diser.								
	SIP Use		2041							
	Enable F	legistration:	~							
			Back N	ext						
BROADBAND										
Display Name	Set the dis	Set the display name.								
Server Address	Input your			<u>S.</u>						
Server Port	Set your S									
Authentication Us	•		A	count name.						
Authentication		-								
Aunonitication	Input your	or regis	hereu pas	saworu.						

Password																
SIP User		Input the p	Input the phone number assigned by your VOIP													
		service pro	ovider.													
Enable Registr	ration	Start to reg	gister or r	ot by sele	cting it or	not.										
				-	-											
D-Link	Č															
DPH-400GE	<u>BASIC</u>	NETWORK	VOIP	PHONE MAINTENANCE SECURITY L												
STATUS	WAN															
WIZARD		Connecti	ion Mode:	Static I	IP.											
CALL LOG LANGUAGE			Address:	192.16	8.2.40											
		IP Gatev	vay:	192.16	8.1.1											
5	SIP															
		Server A		192.16	8.1.2											
		Account: Phone N		2041 2041												
		Registra		Enable	d											
				Back Fini	sh											
BROADBAND																
D: 1 1 / 1	1. 0			1 (*												
Display detaile	ed infor	mation that	t you mar	iual config	gure.											
Choose DHCF	P MOD	E, click	NEXT	can config	gure SIP(de	efault										
SIP1)simply, a	also can	browse too	o. Click	BACK	ean return t	o the last p	age.									
Like Static IP	MODE															
Choose PPPoH	E MOD	E, click 🕻	NEXT	can confi	gure the PF	PoE										
account/passw	ord and	d SIP(defau	lt SIP1)si	mply, also	o can brows	se too. Clic	ck									
【BACK】 ca	n returi	n to the last	page. Lil	ke Static I	P MODE.											
D-Link	Č															
DPH-400GE	<u>BASIC</u>	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGO									
	PPPoE Set	ttings														
WIZARD		Service	Name:	ANY												
CALL LOG LANGUAGE		User:		user1												
		Passwor	rd:	Pack No												
			L	Back Ne	xt											
BROADBAND																
Service Name		T. 111					BROADBAND									
		It will be p	provided	by ISP.												

Password	Input your ADSL password.					
Notice: Click [Finish] button after finished your setting, IP Phone will save						
the setting automatically and reboot, After reboot, you can dial by the SIP						
account.						

8.3.1.3 Call Log

You can query all the dialed calls through this page.

D-Link											
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT				
STATUS	ATUS Call information										
WIZARD	Start Time		Duration		Dialed Calls						
CALL LOG											
LANGUAGE											
BROADBAND											
Call Log											
Field name		explanat	ion								
Start Time	me Display the start time of the dialed calls.										
Duration	Display the conversation time of the dialed calls.										
Dialed Calls Display the account /line of the dialed calls.											

8.3.1.4 LANGUAGE

D-Lin	k									
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT			
STATUS	Language									
WIZARD	Language Selection: English V									
CALL LOG										
LANGUAGE	Greeting W Greeting W		VOIP PHONE		(0-12 character(s))				
	Greeting w	JIUS.	VOIP PHONE		(0-12 character(s)))				
				Apply						
BROADBAND										
LANGUAGE										
Field name		explanat	ion							

Language	Set the language of phone, English is default.				
	The greeting message will display on LCD when				
Greeting Words	phone is idle. It can support 16 chars. the default chars				
	are VOIP PHONE.				
Notice: the maximal length of the greeting message is twelve English					
characters and five Chinese characters.					

8.3.2 Network

8.3.2.1 WAN

H-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOU
I	WAN Status	;					
VLAN		Active IP	Active IP Address:		8.2.40		
ICE PORT		Current S	ubnet Mask:	255.25	5.0.0		
&Date		Current I	P Gateway:	192.16	8.1.1		
		MAC Addr	ess:	00:03:	07:a9:b4:0b		
		MAC Time	estamp:	2013-1	.0-22		
	WAN Setting	gs					
	Static IP 💿	_	онср С)	рррое		
		IP Addres	IP Address:		192.168.2.40		
		Subnet M	Subnet Mask:		255.255.0.0		
		IP Gatew	IP Gateway:		68.1.1	T	
		DNS Dom	ain:				
		Primary [ONS:	202.9	6.134.133	T	
		Secondar	y DNS:	202.9	202.96.128.68		
				Apply			
	802.1X Sett	tings					
		802.1x M	ode:	Disal	ole 💌		
		Identity:		admir	admin		
		Password	l:	•••••	•••••		
		CA Certifi	cate:			Browse	Upla
		Device Ce	ertificate:			Browse	Uplo
		Device Ce	ertificate:	Apply		Browse	

WAN Status					
	IP Address:	192.168.2.40			
	nt Subnet Mask:	255.255.0.0			
Curre	nt IP Gateway:	192.168.1.1			
	ddress:	00:03:07:a9:b4:0b			
MAC T	imestamp:	2013-10-22			
Active IP Address	ddress of the phone.				
Current Subnet Mask	The current Netmask address.				
MAC Address	The current MA	C address of the phone.			
Current IP Gateway		eway IP address.			
MAC Timestamp		of getting MAC address			
WAN Settings					
Obtain DNS Server Automa	tically: Enabled V				
Enable Vendor Identifier:	Disabled V				
Vendor Identifier:	DLINK DPH-40	OGE			
Static IP O	рнср 💿	РРРоЕ 🔘			
		Apply			
 DPH-400G/DPH-400 Static: If your ISI this mode, and the parameters of State DHCP: In this mode automatically; new parameters of State 	 Please select the proper network mode according to the network condition. DPH-400G/DPH-400GE provide three different network settings: Static: If your ISP server provides you the static IP address, please select this mode, and then finish Static Mode setting. If you don't know about parameters of Static Mode setting, please ask your ISP for them. DHCP: In this mode, you will get the information from the DHCP server automatically; need not to input this information artificially. PPPoE: In this mode, you must input your ADSL account and password. 				
Obtain DNS server		OHCP mode to get DNS address, if			
automatically	you don't select	it, you will use static DNS server. The			
	default is selecti	ng it.			
Enable Vendor	Enable/Disabled	Vendor Identifier			
Identifier					
Vendor Identifier	Custom vendor	dentification			
IP Add	ress:	192.168.1.179			
Subnet	t Mask:	255.255.255.0			
IP Gat	eway:	192.168.1.1			
DNS D	omain:				
Primar	y DNS:	202.96.134.133			
Second	dary DNS:	202.96.128.68			
		Apply			
If you use static mode, you need set it.					

IP Address	Input the IP address distributed to you.		
Subnet Mask	Input the Netmask distributed to you.		
IP Gateway	Input the Gateway address distributed to you.		
	Set DNS domain postfix. When the domain which		
DNS Domain	you input cannot be parsed, phone will automatically		
	add this domain to the end of the domain which you		
	input before and parse it again.		
Primary DNS	Input your primary DNS server address.		
Secondary DNS	Input your secondary DNS server address.		

Service Name:	ANY
User:	user123
Password:	•••••
	Apply

If you uses PPPoE mode, you need to make the above setting.

Service Name	It will be provided by ISP.
User	Input your ADSL account.
Password	Input your ADSL password.

Notice:

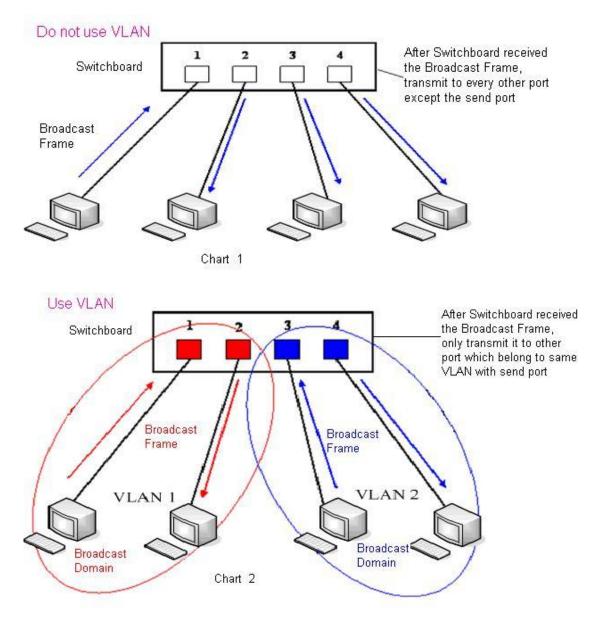
1) Click "Apply" button after finished your setting, IP Phone will save the setting automatically and new setting will take effect.

2) If you modify the IP address, the web will not response by the old IP address. Your need input new IP address in the address column to logon in the phone.

3) If networks ID which is DHCP server distributed is same as network ID which is used by LAN of system, system will use the DHCP IP to set WAN, and modify LAN's networks ID (for example, system will change LAN IP from 192.168.10.1 to 192.168.11.1) when system uses DHCP client to get IP in startup; If system uses DHCP client to get IP in running status and network ID is also same as LAN's, system will refuse to accept the IP to configure WAN. So WAN's active IP will be 0.0.0.

8.3.2.2 Qos&VLAN

The VOIP phone support 802.1Q/P protocol and DiffServ configuration. VLAN functionality can use different VLAN IDs by setting signal/voice VLAN and data VLAN. The VLAN application of this phone is very flexible.



In chart 1, there is a layer 2 that switches without setting VLAN. Any broadcast frame will be transmitted to the other ports except the send port. For example, a broadcast information is sent out from port 1 then transmitted to port 2,3and 4. In chart 2, red and blue indicate two different VLANs in the switch, and port 1 and port 2 belong to red VLAN, port 3 and port 4 belong to blue VLAN. If a broadcast frame is sent out from port 1, switch will transmit it to port 2, the other port in the red VLAN and not transmit it to port3 and port 4 in blue VLAN. By this means, VLAN divide the broadcast domain via restricting the range of broadcast frame transition.

Note: chart 2 use red and blue to identify the different VLAN, but in practice, VLAN uses different VLAN IDs to identify.

	1-2							
D-Lin	K							
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT	
WAN	Link Laver	Discovery Pro		Settings	-			
QOS&VLAN		nable LLDP:		Joctangs				
SERVICE PORT		nable Learning	Function:					
TIME&Date		acket Interval(60	second(s)			
	Quality of S	Service (Qos)	Settings					
		nable DSCP:						
	S	SIP DSCP:		0				
	А	udio RTP DSCP:		0	(0~63)			
	WAN Port \	N Port VLAN Settings						
	E	nable WAN Port	VLAN:					
	N	AN Port VLAN	ID:	0 (0~4095)			
	S	IP 802.1P Prior	ity:	0	(0~7)			
	A	udio 802.1P Pri	ority:	0	(0~7)			
	LAN Port V	LAN Settings						
	L	AN Port VLAN M	lode:	Follow W	AN 🗸			
	L	AN Port VLAN I	D:	0	(0~4095)			
				Apply				

BROADBAND

QoS &VLAN

LLDP Settings	
Enable LLDP	Enable LLDP by selecting it.
	After enabling LLDP Learn, telephone can
Enable Learning	automatically learn the data of DSCP, 802.1p, VLAN
Function	ID from the switch. If the data is different from the
	data of the LLDP server, telephone will change its
	own value as the value of the switch (Synchronous
	with VLAN in switch).
Package Interval	The time interval of sending LLDP Packet.
QoS Setting	
Enable DSCP	Enable Dscp by selecting it.
SIP DSCP	Specify the value of the SIP Dscp.
Audio RTP DSCP	Specify the value of the Audio RTP Dscp.
WAN Port VLAN	
Setting	
Enable WAN Port	Enable WAN Port VLAN by selecting it.
VLAN	
WAN Port VLAN	Specify the value of the WAN Port VLAN ID, the
ID	range of the value is 0-4095.

SIP 8021.p Priority	Specify the value of the signal 802.1p priority, the range of the value is 0-7.
Audio 802.1p	Specify the value of the voice 802.1p priority, the
Priority	range of the value is 0-7.
LAN Port VLAN	
Setting	
LAN Port VLAN	Follow WAN: Follow the WAN ID.
Mode	Disable: Disable Port VALN.
	Enable: Enable Port VLAN and specify the Port
	VLAN ID different from WAN ID.
LAN Port VLAN	Specify the value of the Port VLAN ID different from
ID	WAN ID, the range of the value is 0-4095.

8.3.2.3 Service Port

You can set the port of telnet/HTTP/RTP by this page.

D-Lin	K							
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT	
WAN	Service Po	rt Settinas						
QOS&VLAN		_	rver Type:	HTTP	• 👻			
SERVICE PORT		HTTP P	ort:	80		[
TIME&Date		HTTPS	Port:	443		[
		RTP Por	rt Range Start:	10000)			
		RTP Po	rt Quantity:	200				
	Apply Note: Please REBOOT the system if you modify the HTTP(S) port (the new port should be greater than 1024).							
BROADBAND								
	SERVICE PORT							
Field name		explanat	tion					
Service Por	rt							
Settings								
Web Server	Туре	Specify V	Web Serve	er Type wi	th HTTP o	r HTTPS.		
HTTP Port		Set web browser port, the default is 80 port, if you						
		want to enhance system safety, you'd better change it						
		into non-	80 standa	rd port;				
		Example	: The IP a	ddress is 1	192.168.1.7	0. and the	port	

	value is 8090, the accessing address is
	http://192.168.1.70:8090.
HTTPS Port	Before using the https, you must download https
	authentication certification into the phone, then
	set web browser port, the default is 443 port, if you
	want to enhance system safety, you'd better change it
	into non-443 standard port. You can access to the web
	in https after rebooting the phone.
Telnet Port	Set Telnet Port, the default is 23. You can change the
	value into others.
	Example: The IP address is 192.168.1.70. the telnet
	port value is 8023, the accessing address is telnet
	192.168.1.70 8023.
RTP Port Range	Set the RTP Start Port. It is dynamic allocation.
Start	
RTP Port Number	Set the maximum quantity of RTP Port, the default is
	200.
Notice:	
1) You need save the	configuration and reboot the phone after set this page.
2) Please REBOOT t	he system if you modify the HTTP or telnet port
number (the new num	nber should be greater than 1024.)
3) If you set 0 for the	HTTP port, it will disable HTTP service.

8.3.2.4 **TIME&DATE**

Setting time zone and SNTP (Simple Network Time Protocol) server according to your location, you can also manually adjust date and time in this web page.

D-Lin	k						
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
AAN AOS&VLAN SERVICE PORT TIME&Date	Simple Netv Enable SNTP Enable DHCF Primary Ser Secondary S Timezone: Resync Perio 12-Hour Clo Date Format	P Time: 20 ver: 20 verver: ((od: 60 ck: 2	9.81.9.7 GMT+08:00)Be	ijing,Chongqin	g,Hong Kong,Uru	mqi	V
	Daylight Sar Enable: Offset: Month: Week: Day: Hour: Minute:	5		;(s) Apply	October 5 💌 Sunday 2 0	>	
	Manual Tim Year: Month: Day: Hour: Minute:	e Settings		Apply			

TIME&DATE

Field name	explanation
Simple Network	
Time Protocol	
(SNTP) Settings	
Enable SNTP	Enable SNTP by selecting it.
Enable DHCP Time	Enable DHCP Time by selecting it, then the
	phone will automatically synchronize the standard
	time.
Primary Server	Set SNTP Primary Server IP address.
Secondary Server	Set SNTP Secondary Server IP address.
Time Zone	Select the Time zone according to your location.
Resync Period	Set the time out, the default is 60 seconds.
12 -Hours Clock	Switch the time mechanism between 12 hours and 24
	hours.

	Default is 24 hours mode.
Date format	Specify the date display format.
Daylight Saving	
Time Settings	
Enable	Enable daylight saving time.
Offset(minutes)	Setup the variety length.
Month	Setup start and end month.
Week	Setup start and end week.
Day	Setup start and end day.
Hour	Setup start and end hours.
Minute	Setup start and end minutes.
Manual Time Settin	gs
Manual Time Settings	
Year:	
Month:	
Day:	
Hour:	
Minute:	
,	Apply
Notice: You need spe	cify the above all items.

8.3.3 VOIP

8.3.3.1 **SIP**

Set your SIP server in the following interface.

D-Lin	K						
DPH-400GE	BASIC NETW	ØRK	<u>VOIP</u>	PHONE	MAINTENANCE	SECURITY	LOGOUT
<u>SIP</u>	SIP Line Selection	I					
STUN	SIP 1 💌			oad			
DIAL PEER	Basic Settings >>						
	Status:	Re	gistered	Dom	ain Realm:		
	Server Address:	19	92.168.1.2	Prox	y Server Address	:	
	Server Port:	50	060	Prox	y Server Port:		
	Authentication User:	: 20	041	Prox	y User:		
	Authentication Pass	word: 🗔	•••	Prox	y Password:		
	SIP User:	20	041	Back	up Server Addres	s:	
	Display Name:	20	041	Back	up Server Port:	5060	
	Enable Registration:	~]	Serv	ver Name:		

Disabled Codecs	Enabled Codecs
G. 711A G. 711U G. 722 G. 723.1 G. 726-32 G. 729AB →	

Advanced SIP Setting >	>>		
Forward Type:	Disabled ⊻	Enable Hotline:	
Forward Number:		Hotline Number:	
No Ans. Fwd Wait Time:	60	Warm Line Wait Time:	0
Transfer Timeout:	(0~120)second(s)	BLF Server:	(0~9)second(s)
)
SIP Encryption:		Enable Auto Answer:	
SIP Encryption Key:	_	Auto Answer Timeout:	60 second(s)
RTP Encryption:		Enable Session Timer:	
RTP Encryption Key:		Session Timeout:	0 second(s)
	,		,
Subscribe For MWI:		Conference Type:	Local 🗸
MWI Number:		Conference Number:	
Subscribe Period:	3600 second(s)	Registration Expires:	3600 second(s)
Enable Service Code:			
DND On Code:		DND Off Code:	
Always CFwd On Code:		Always CFwd Off Code:	
Busy CFwd On Code:		Busy CFwd Off Code:	
No Ans. CFwd On Code:		No Ans. CFwd Off Code:	
Anonymous On Code:		Anonymous Off Code:	
Keep Alive Type:	SIP Option 🔽	Keep Alive Interval:	60 second(s)
User Agent:		Server Type:	СОММОН 💌
DTMF Type:	AUTO 🔽	RFC Protocol Edition:	RFC3261 💌
DTMF SIP INFO Mode:	Send 10/11 💌	Local Port:	5060
Ring Type:	Default 💌	Anonymous Call Edition:	None 🔽
Enable Rport:		Keep Authentication:	
Enable PRACK:		Ans. With a Single Codec:	
Enable Long Contact:		Auto TCP:	
Convert URI:		Enable Strict Proxy:	
Dial Without Registered:		Enable GRUU:	
Ban Anonymous Call:		Enable Displayname Quote:	
Enable DNS SRV:		Enable user=phone:	
		Click To Talk	
Enable Missed Call Log:			
Enable Missed Call Log: BLF List Number:		Transport Protocol:	UDP V
_			
BLF List Number:		Transport Protocol:	

	SIP Global Settings >>			
	Strict Branch:		Enable Group:	
	Registration Failure Retry Time:	32	second(s)	
			Apply	
BROADBAND				

SIP Config		
Field name	explanation	
SIP Line	•	
Choose line to set info	about SIP, there are 5 lines to choose. You can switch	
by 【Load】 button.		
Basic Settings		
Status	Shows if the phone has been registered the SIP	
	server or not; or so, show Unapplied.	
Server Address	Input your SIP server address.	
Server Port	Set your SIP server port.	
Authentication User	Input your SIP register account name.	
Authentication	Input your SIP register password.	
Password		
SIP User	Input the phone number assigned by your VoIP	
	service provider. Phone will not register if there is	
	no phone number configured.	
Display Name	Set the display name.	
	Set proxy server IP address(Usually, Register SIP	
	Server configuration is the same as Proxy SIP	
Proxy Server Address	Server. But if your VoIP service provider give	
	different configurations between Register SIP Server	
	and Proxy SIP Server, you need make different	
	settings).	
Proxy Server Port	Set your Proxy SIP server port.	
Proxy User	Input your Proxy SIP server account.	
Proxy Password	Input your Proxy SIP server password.	
	Set the sip domain if needed, otherwise this VoIP	
Domain Realm	phone will use the Register server address as sip	
	domain automatically. (Usually it is same with	
	registered server and proxy server IP address).	
Backup Server	Input the Backup Server Address, if the primary	
Address	server is unavailable, then the phone will enable the	
	Backup Server Address	
Backup Server Port	Specify the Backup Server Port	

Server Name	Named the server
Enable Registration	Start to register or not by selecting it or not.
Codecs Settings	
Disable	Use the navigation keys to highlight the desired one
Codecs/Enable	in the Enable/Disable Codecs list, and press the
Codecs	desired to move to the other list.
Advanced SIP	
Setting	
	Select call forward mode, the default is Off
Forward Type	Off: Close down calling forward
	Busy: If the phone is busy, incoming calls will be
	forwarded to the appointed phone.
	No answer: If there is no answer, incoming calls
	will be forwarded to the appointed phone after a specific.
	Always: Incoming calls will be forwarded to the
	appoint phone immediately. The phone will prompt the incoming while doing forward.
Forward Number	Specify the number you want to forward.
No Answer Forward Wait Time	Specify the No Answer Forward Delay Time, if the
	Forward Type is No answer, incoming calls will be
	forwarded after the no answer forward wait time
Transfer Timeout	
Transfer Timeout	forwarded after the no answer forward wait timeFor the phone supports the transfer of certain specialfeatures server, set interval time between sending
Transfer Timeout	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a
	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call.
Enable Hot Line	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it
	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot
Enable Hot Line	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot line number automatically at hands-free mode or
Enable Hot Line Hot Line Number	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot line number automatically at hands-free mode or handset mode after warm line time
Enable Hot Line Hot Line Number Warm Line Wait	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot line number automatically at hands-free mode or
Enable Hot Line Hot Line Number Warm Line Wait Time	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot line number automatically at hands-free mode or handset mode after warm line time Specify the Warm Line Time
Enable Hot Line Hot Line Number Warm Line Wait	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot line number automatically at hands-free mode or handset mode after warm line time Specify the Warm Line Time Ordinary BLF application is that the phone send
Enable Hot Line Hot Line Number Warm Line Wait Time	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot line number automatically at hands-free mode or handset mode after warm line time Specify the Warm Line Time Ordinary BLF application is that the phone send subscription package to the registered server, if your
Enable Hot Line Hot Line Number Warm Line Wait Time	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot line number automatically at hands-free mode or handset mode after warm line time Specify the Warm Line Time Ordinary BLF application is that the phone send
Enable Hot Line Hot Line Number Warm Line Wait Time	forwarded after the no answer forward wait time For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call. Specify Hot Line by selecting it Specify Hot Line Number, the phone dial the hot line number automatically at hands-free mode or handset mode after warm line time Specify the Warm Line Time Ordinary BLF application is that the phone send subscription package to the registered server, if your server does not support subscription package, please

SIP Encryption Key	Set the key for sip encryption.
RTP Encryption	Enable/Disable RTP encryption.
RTP Encryption Key	Set the key for RTP encryption.
Enable Auto Answer	Enable Auto Answer by selecting it
Auto Answer	Specify Auto Answer Time, the phone auto answers
Timeout	the incoming call after Auto Answer Time
Enable Session Timer	Set Enable/Disable Session Timer, whether support
	RFC4028.It will refresh the SIP sessions.
Session Timeout	Set the session timeout
Subscribe for MWI	Enable the Subscribe for MWI by selecting it, the
	phone will send subscribe message for MWI to the
	SIP Server
MWI Number	Specify the MWI Number; Please contact your
	system administrator for the connecting code.
	Different systems have different codes.
Subscribe Period(s)	Overtime of resending subscribe packet. Suggest
	using the default configuration.
Conference Type	Specify the Conference Type, if you select the local,
	you needn't input the conference number
Conference Number	Specify the network conference number, please
	contact your system administrator for the network
	conference number
	Set expire time of SIP server register, default is 60
Registration Expire(s)	seconds. If the register time of the server requested
	is longer or shorter than the expired time set, the
	phone will change automatically the time into the
	time recommended by the server, and register again.
Enable Service Code	If you want to realize the following function by the
	server, please enter the On Code and Off Code
	option, then when you choose to enable/disable
	following function on your IP phone, it will send
	message to the server, and the server will turn on/off
	the function immediately.
DND On Code	Set the DND On Code, When you press the DND
	hot key, the phone will send a message to the server,
	and the server will turn on the DND function. Then
	any calls to the extension will be rejected by the
	server automatically. And the incoming call record
	will not be displayed in the Call History.
DND Off Code	Set the DND Off Code, When you press the DND
	hot key, the phone will send a message to the server,
	and the server will turn off the DND function.
Always CFwd On	Set the Always CFwd On Code, when you choose to
Code	enable the always forward function on your phone, it

Always CFwd Off Code	 will send message to the server, and the server will turn on the function immediately. When there are calls to the extension, the server will always forward it to the set number automatically. And the IP phone will not show the record in the call history anymore. Set the Always CFwd Off Code, when you choose to disable the always forward function on your phone, it will send message to the server, and the server will turn off the function immediately.
Busy CFwd On Code	Set the Busy CFwd On Code, when you choose to enable the busy forward function v on your phone, it will send message to the server, and the server will turn on the function immediately. When there are calls to the extension, the server will forward it to the set number automatically based the forward type. And the IP phone will not show the record in the call history anymore.
Busy CFwd Off Code	Set the Busy CFwd Off Code, when you choose to disable the busy forward function on your phone, it will send message to the server, and the server will turn off the function immediately.
No Answer CFwd On Code	Set the No Answer CFwd On Code, when you choose to enable the on answer forward function on your phone, it will send message to the server, and the server will turn on the function immediately. When there are calls to the extension, the server will forward it to the set number automatically based the forward type. And the IP phone will not show the record in the call history anymore.
No Answer CFwd Off Code	Set the No Answer CFwd Off Code, when you choose to disable the busy forward function on your phone, it will send message to the server, and the server will turn off the function immediately.
Ban Anonymous On Code	Set the Ban Anonymous On Code, When you choose to enable the ban anonymous call function on your IP phone, it will send information to the server, and the server will enable the ban anonymous call function for your IP phone automatically.
Ban Anonymous Off Code	Set the Ban Anonymous Off Code, When you choose to disable the ban anonymous call function on your IP phone, it will send information to the server, and the server will disable the ban anonymous call function for your IP phone

	automatically.
Keep Alive Type	Specify the keep alive type, if the type is option, the phone will send option sip message to server every NAT Keep Alive Period(s), then the server responses
	with 200 to keep alive. If the type is UDP, the phone will send UDP message to server to keep alive every
	NAT Keep Alive Period(s).
Keep Alive Interval	Set examining interval of the server, default is 60 seconds
User Agent	Set the user agent if have, the default is VoIP Phone 1.0
	Select DTMF sent mode, there are three modes:DTMF_In-band
DTMF Type	• DTMF_RFC2833
	• DTMF_SIP_INFO
	• DTMF_AUTO
	Different VoIP Service providers may provide
	different modes.
DTMF SIP INFO	There are two options: send 10/11 and send * / #
Mode	
Ring Type	Set ring type of each line
Enable Rport	Enable/Disable system to support RFC3581. Via
Enable PRACK	rport is special way to realize SIP NAT.
Ellable PRACK	Enable or disable SIP PRACK function, suggest use the default config.
Enable Long Contact	Set more parameters in contact field; connection
	with SEM server
Convert URI	Convert # to %23 when send the URI.
Dial Without	Set call out by proxy without registration;
Registered	bet can out by proxy without registration,
Ban Anonymous Call	Set to ban Anonymous incoming Call;
Enable DNS SRV	Support DNS looking up with _sip. udp mode
Enable Missed Call	Enable the missed call log by it, the phone will save
Log	the missed call log into the call history record and
	display the missed calls on the idle screen, or won't
	save the missed call log into the call history record
	and display the missed calls on the idle screen.
Enable BLF List	Enable BLF List by selecting it, BLF list is a
	function which can monitor the group status, it is not
	one to one monitoring, but the information
	feedback from the sever to decide which
	BLF list will monitor
BLF List Number	Specify the BLF List Number
Respond 182 when	when there is a call in call waiting, the phone will

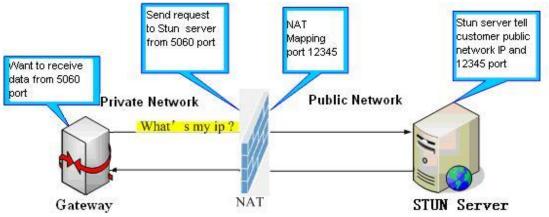
Call waiting	return 182 code
Server Type	Select the special type of server which is encrypted,
	or has some unique requirements or call flows.
	Select SIP protocol version to adapt for the SIP
RFC Protocol Edition	server which uses the same version as you select.
	For example, if the server is CISCO5300, you need
	to change to RFC2543; else phone may not cancel
	call normally. System uses RFC3261 as default.
Local Port	Set sip port of each line
RFC Protocol Edition	Set Anonymous call out safely; Support
	RFC3323and RFC3325;
Keep Authentication	Enable/Disable Keep Authentication System will
•	take the last authentication field which is passed the
	authentication by server to the request packet. It will
	decrease the server's repeat authorization work, if it
	is enable.
Answer With A	Enable/Disable the function when call is incoming,
Single Codec	phone replies SIP message with just one codec
	which phone supports.
Auto TCP	Set to use automatically TCP protocol to guarantee
	usability of transport as message is above 1300 byte
Enable Strict Proxy	Support the special SIP server-when phone receives
	the packets sent from server, phone will use the
	source IP address, not the address in via field.
Enable GRUU	Set to support GRUU
Enable Display name	Set to make quotation mark to display name as the
Quote	phone sends out signal, in order to be compatible
	with server.
Enable user=phone	Enable user=phone by selecting it, it is contained in
	the invite sip message, in order to be compatible
	with server
Click to talk	Set click to Talk (need practical software support).
Transport Protocol	Set transport protocols, TCP or UDP or TLS;
Use VPN	Phone use vpn ip to communicate
Enable DND	When the type of DND feature is line, enable the
	DND feature for a line
SIP Global Settings	
Strict Branch	Enable the Strict Branch, the value of the branch
	must be in the beginning of z9hG4k in via field of
	the invite sip message received, or the phone won't
	response to the invite sip message.
	Notice: the deployment will become effective in all
	sip lines

Enable Group	Enable Group by selecting it, then the phone enable	
	the sip group backup function	
	Notice: the deployment will become effective in a	
	sip lines	
Registration Failure	Specify the registration failure retry time, if the	
Retry Time	phone register failed, the phone will register again	
	after registration failure retry time.	
	Notice: the deployment will become effective in all	
	sip lines.	

8.3.3.2 STUN

In this web page, you can configure SIP STUN.

STUN: By STUN server, the phone in private network could know the type of NAT and the NAT mapping IP and port of SIP. The phone might register itself to SIP server with global IP and port to realize the device both calling and being called in private network.



1~						
BASIC	NETWORK	<u>VOIP</u>	PHONE	MAINTENANCE	SECURITY	LOGOUT
Simple Trav	ersal of UDP	through NA	Ts (STUN) S	ettinas		
-		_				
		TALSE				
Server Port:		3478				
Binding Perio	od:	50	sec	cond(s)		
SIP Waiting	Time:	800	mi	illisecond(s)		
			Apply			
SIP Line Usi	ing STUN					
SIP 1 🔽		Load				
Set Sip Line	Enable STUN	1				
Use STUN:			Apply			
L				-		
	Simple Trav STUN NAT Tr Server Addr: Server Port: Binding Perio SIP Waiting SIP Line Us SIP 1 V Set Sip Line	BASIC NETWORK Simple Traversal of UDP STUN NAT Traversal: Server Addr: Server Port: Binding Period: SIP Waiting Time: SIP Line Using STUN SIP 1 v Set Sip Line Enable STUN	BASIC NETWORK WOIP Simple Traversal of UDP through NA STUN NAT Traversal: FALSE Server Addr:	BASIC NETWORK VOIP PHONE Simple Traversal of UDP through NATs (STUN) S STUN NAT Traversal: FALSE Server Addr:	BASIC NETWORK VOIP PHONE MAINTENANCE Simple Traversal of UDP through NATs (STUN) Settings STUN NAT Traversal: FALSE Server Addr:	BASIC NETWORK WOIP PHONE MAINTENANCE SECURITY Simple Traversal of UDP through NATs (STUN) Settings Stun NAT traversal: FALSE Server Addr: Server Addr: Server Port: 3478 Server Port: 3478 Second(s) Second(s) SIP Waiting Time: 800 millisecond(s) Apply SIP Line Using STUN SIP 1 v Load Set Sip Line Enable STUN

BROADBAND

STUN					
Field name	explanation				
Simple Traversal of					
UDP through NATs					
(STUN) Settings					
STUN NAT Traversal	Shows STUN NAT Transverse estimation, true				
	means STUN can penetrate NAT, while False				
	means not.				
Server Address	Set your SIP STUN Server IP address.				
Server Port	Set your SIP STUN Server Port.				
	Set STUN blinding period(s). If NAT server finds				
Blinding Period	that a NAT mapping is idle after time out, it will				
	release the mapping and the system need send a				
	STUN packet to keep the mapping effective and				
	alive.				
SIP Waiting Time	Specify the sip wait stun time; you can input the				
	time depended on your network condition.				
Sip Line Using STUN					
SIP Line Using STUN					
SIP 1 💌	Load				
Set Sip Line Enable STUN					
Use STUN:	Apply				
Choose line to set info about SIP, There are 4 lines to choose. You can switch					
by [Load] button.					

Use STUN	Enable/Disable SIP STUN.			
Notice: SIP STUN is used	d to realize SIP penetration to NAT. If your phone			
configures STUN Server IP and Port (default is 3478), and enable SIP Stun,				
you can use the ordinary SIP Server to realize penetration to NAT.				

8.3.3.3 DIAL PEER

This functionality offers you more flexible dial rule, you can refer to the following content to know how to use this dial rule. When you want to dial an IP address, the entry of IP addresses is very cumbersome, but by this functionality, you can set number 156 to replace 192.168.1.119 here.

Dial Peer Table						
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
156	192.168.1.119	5060	SIP	no alias	no suffix	0

When you want to dial a long distance call to Beijing, you need dial an area code 010 before local phone number, but you can also dial number 1 instead of 010 after we make a setting according to this dial rule. For example, you want to dial 01062213123, but you need dial only 162213123 to realize your long distance call after you make this setting.

Dial Peer Table						
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
1T	0.0.0.0	5060	SIP	rep:010	no suffix	1

To save the memory and avoid abundant input of user, add the follow functions:

Dial Peer Table						
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
13******	0.0.0	5060	SIP	add:0	no suffix	0
13[5-9]*******	0.0.0	5060	SIP	add:0	no suffix	0

1.* Match any single digit that is dialed.

If user makes the above configuration, after user dials 11 digit numbers started with 13, the phone will send out 0 plus the dialed numbers automatically.

2. [] Specifies a range that will match digit. It may be a range, a list of ranges separated by commas, or a list of digits.

If user makes the above configuration, after user dials 11 digit numbers started with from 135 to 139, the phone will send out 0 plus the dialed numbers automatically.

Use this phone you can realize dialing out via different lines without switch in web interface.

D-Lin	k								
DPH-400GE	BASIC	NETWORK	VOIP		PHONE	MAINTE	ENANCE	SECURITY	LOGOUT
SIP	Dial Peer Ta	ble							
STUN	Number	Desti	nation	Port	Mode	Alias	Suffix	Deleted L	ength
DIAL PEER	156	192.1	58.1.119	5060	SIP	no alias	no suffix	0	
	1T	0.0.0.	0	5060	SIP	rep:010	no suffix	1	
	13********	* 0.0.0.	0	5060	SIP	add:0	no suffix	0	
	13[5-9]*****	* 0.0.0.	0	5060	SIP	add:0	no suffix	0	
	Add Dial Pee Phone Numbe Destination (Port(optional Alias(optional Call Mode: Suffix(option Deleted Leng Dial Peer Op 13[5-9]***	er: optional): (): al): th (optional): tion	SIP v	Dele	Apply te M) odify			
BROADBAND									

DIAL PEER

Field name	explanation
	There are two types of matching conditions: one is full
	matching, the other is prefix matching. In the Full
	matching, you need input your desired phone number
Phone number	in this blank, and then you need dial the phone number
	to realize calling to what the phone number is mapped.
	In the prefix matching, you need input your desired
	prefix number and T; then dial the prefix and a phone
	number to realize calling to what your prefix number
	is mapped. The prefix number supports at most 30
	digits.
	Set Destination address. This is optional config item.
Destination	If you want to set peer to peer call, please input
	destination IP address or domain name. If you want to
	use this dial rule on SIP2 line, you need input
	255.255.255.255 or 0.0.0.2 in it.SIP3 into 0.0.0.3.
Port	Set the Signal port, the default is 5060 for SIP.
Alias	Set alias. This is optional config item. If you don't set
	Alias, it will show no alias.
Note: There are four	types of aliases.

1) Add: xxx, it means that you need dial xxx in front of phone number, which will reduce dialing number length.

2) All: xxx, it means that xxx will replace some phone number.

3) Del: It means that phone will delete the number with length appointed.

4) Rep: It means that phone will replace the number with length and number appointed.

You can refer to the following examples of different alias application to know more how to use different aliases and this dial rule.

Call Mode	Select different signal protocol, SIP
Suffix	Set suffix, this is optional config item. It will show no
	suffix if you don't set it.
Delete Length	Set delete length. This is optional config item. For
	example: if the delete length is 3, the phone will delete
	the first 3 digits then send out the rest digits. You can
	refer to examples of different alias application to know
	how to set delete length.

Set by web		explanation	example
Phone Number: Destination (optional): Port(optional): Alias(optional): Call Mode: Suffix(optional): Deleted Length (optional):	9T 255.255.255 del SIP V 1 Apply	You need set phone number, Destination, Alias and Delete Length. Phone number is XXXT; Destination is 255.255.255.255 (0.0.0.2) and Alias is del. This means any phone No. that starts with your set phone number will be sent via SIP2 line after the first several digits of your dialed phone number are deleted according to delete length.	If you dial "93333", the SIP2 server will receive "3333"

Examples of different alias application

Phone Number: Destination (optional): Port(optional): Alias(optional): Call Mode: Suffix(optional): Deleted Length (optional):	2 all:33334444 SIP 💌 Apply	This setting will realize speed dial function, after you dialing the numeric key "2", the number after all will be sent out.	When you dial "2", the SIP1 server will receive 33334444
Phone Number: Destination (optional): Port(optional): Alias(optional): Call Mode: Suffix(optional): Deleted Length (optional):	8T add:0755 SIP ♥ Apply	The phone will automatically send out alias number adding your dialed number, if your dialed number starts with your set phone number.	When you dial "8309", the SIP1 server will receive "07558309"
Phone Number: Destination (optional): Port(optional): Alias(optional): Call Mode: Suffix(optional): Deleted Length (optional):	010T rep:0086 SIP V 3 Apply	You need set Phone Number, Alias and Delete Length. Phone number is XXXT and Alias is rep: xxx If your dialed phone number starts with your set phone number, the first digits same as your set phone number will be replaced by the alias number specified and New phone number will be send out.	When you dial "0106228", the SIP1 server will receive "86106228"
Phone Number: Destination (optional): Port(optional): Alias(optional): Call Mode: Suffix(optional): Deleted Length (optional):	147 SIP v 0011 Apply	If your dialed phone number starts with your set phone number. The phone will send out your dialed phone number adding suffix number.	When you dial "147", the SIP1 server will receive "1470011"

8.3.4 Phone

8.3.4.1 Audio

In this page, you can configure voice codec, input/output volume and so on.

D-Lin	k						
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY LOGOUT	
AUDIO	Audio Setti	กกร	· · ·				
FEATURE	First Codec:		G.711A 🗸	Second	Codec:	G.711U 🔽	
DIAL PLAN	Third Codec:		G.722 💌	Fourth	Codec:	G.729AB ⊻	
CONTACT	Fifth Codec:		AMR 🔽	Sixth Co	odec:	G.722 💌	
REMOTE CONTACT	Seventh Coo	dec:	ILBC 💌	Eighth (Codec:	AMR-WB 💌	
WEB DIAL	Ninth Codec		G.726-32 💌	Onhook	Time:	200 millisecond(s)	
FUNCTION KEY	Handset Vol	ume:	5 (1~9)) Default	Ring Type:	Type 1 💌	
EXT KEY	Speakerpho		5 (1~9)		t Ring Volume:	5 (1~9)	
SOFTKEY	Headset Vol		5 (1~9)		rphone Ring Volum		
MCAST TONE	ILBC Payloa AMR Payloa			-	iyload Length: B Payload Type:	20ms ▼ 109 (96~127)	
ACTION URL		u rype. Iyload Length:	20ms 🗸		avload Type:	101 (96~127)	
	G.723.1 Bit		6.3kb/s 🗸	Enable '	, ,,		
	Enable MWI	Tone:				_	
				Apply			
BROADBAND							
		DSI	P Configu	iratior	1		
Field name	,	DSI	U	iratior	1		
Field name First Codec		explana	tion		1		
		explana The first	tion preferentia	1 DSP		32.	
		explana The first codec:G.	tion preferentia	1 DSP 722,G.72	3.1, G.726-3	32,	
		explana The first codec:G. G.729AE	tion preferentia 711A/U,G.7 3,ILBC,AM	1 DSP 722,G.72 IR,AMR	3.1, G.726-3 -WB	32,	
First Codec		explanation The first codec:G. G.729AE The seco	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferen	l DSP 722,G.72 IR,AMR ntial DSI	3.1, G.726-3 -WB P codec:	32,	
First Codec		explanation The first codec:G. G.729AE The seco G.711A/	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferen U,G.722,G.7	1 DSP 722,G.72 IR,AMR Itial DSI 723.1, G.	3.1, G.726-3 -WB P codec: 726-32,		
First Codec	lec	explana The first codec:G. G.729AE The seco G.711A/ G.729AE	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferen U,G.722,G.7 3,ILBC,AM	l DSP 722,G.72 IR,AMR Itial DSI 723.1, G. IR,AMR	3.1, G.726-3 -WB P codec: 726-32, -WB,NONE		
First Codec	lec	explanation The first codec:G. G.729AE The seco G.711A/ G.729AE The third	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferen U,G.722,G.7 3,ILBC,AM 1 preferentia	1 DSP 722,G.72 IR,AMR Itial DSI 723.1, G. IR,AMR al DSP c	3.1, G.726-3 -WB P codec: 726-32, -WB,NONE odec:	2	
First Codec	lec	explanation The first codec:G. G.729AE The second G.711A/ G.729AE The third G.711A/	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferent U,G.722,G.7 3,ILBC,AM 1 preferentia U,G.722,G.7	1 DSP 722,G.72 IR,AMR Itial DSI 723.1, G. IR,AMR al DSP c 723.1, G.	3.1, G.726-3 -WB P codec: 726-32, -WB,NONE odec: 726-32 , G.7	2	
First Codec Second Cod Third Codec	lec c	explanation The first codec:G. G.729AE The secce G.711A/ G.729AE The third G.711A/ ILBC,AI	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferent U,G.722,G.7 3,ILBC,AM 1 preferentia U,G.722,G.7 MR,AMR-V	1 DSP 722,G.72 (R,AMR ntial DSH 723.1, G. (R,AMR al DSP c 723.1, G. WB,NOM	3.1, G.726-3 -WB P codec: 726-32, -WB,NONE odec: 726-32, G.7 NE	2	
First Codec	lec c	explanation The first codec:G. G.729AE The second G.711A/ G.729AE The third G.711A/ ILBC,AI The forth	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferent U,G.722,G.7 3,ILBC,AM 1 preferentia U,G.722,G.7 MR,AMR-V h preferentia	1 DSP 722,G.72 IR,AMR Itial DSI 723.1, G. IR,AMR al DSP c 723.1, G. WB,NON al DSP c	23.1, G.726-3 -WB P codec: 726-32, -WB,NONE odec: 726-32 , G.7 NE	2 29AB,	
First Codec Second Cod Third Codec	lec c	explana The first codec:G. G.729AE The secc G.711A/ G.729AE The third G.711A/ ILBC,AI The forth G.711A/	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferent U,G.722,G.7 4,ILBC,AM 1 preferentia U,G.722,G.7 MR,AMR-V h preferentia	l DSP 722,G.72 IR,AMR 1tial DSF 723.1, G. IR,AMR al DSP c 723.1, G. VB,NOP al DSP c 723.1, G.	23.1, G.726-3 -WB P codec: 726-32, -WB,NONE odec: 726-32, G.7 NE codec: 726-32, G.7	2 29AB,	
First Codec Second Cod Third Codec Fourth Code	lec c ec	explanat The first codec:G. G.729AE The secc G.711A/ G.729AE The third G.711A/ ILBC,AI ILBC,AI	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferent U,G.722,G.7 3,ILBC,AM 1 preferentia U,G.722,G.7 MR,AMR-V h preferentia U,G.722,G.7 MR,AMR-V	1 DSP 722,G.72 IR,AMR atial DSI 723.1, G. IR,AMR al DSP c 723.1, G. VB,NOP al DSP c 723.1, G.	23.1, G.726-3 -WB P codec: 726-32, -WB,NONE odec: 726-32, G.7 NE codec: 726-32, G.7 NE	2 29AB,	
First Codec Second Cod Third Codec	lec c ec	explanation The first codec:G. G.729AE The secce G.711A/ G.729AE The third G.711A/ ILBC,AI The fortI G.711A/ ILBC,AI The fifth	tion preferentia 711A/U,G.7 3,ILBC,AM ond preferent U,G.722,G.7 3,ILBC,AM d preferentia U,G.722,G.7 MR,AMR-V h preferentia U,G.722,G.7 MR,AMR-V h preferentia	1 DSP 722,G.72 IR,AMR ntial DSH 723.1, G. IR,AMR al DSP c 723.1, G. WB,NOM al DSP c 723.1, G. WB,NOM	23.1, G.726-3 -WB P codec: 726-32, -WB,NONE odec: 726-32, G.7 NE codec: 726-32, G.7 NE	2 29AB, 229AB,	

	ILBC,AMR,AMR-WB,NONE
Sixth codec	The sixth preferential DSP codec:
	G.711A/U,G.722,G.723.1,
	G.726-32,G.729AB,ILBC,AMR,AMR-WB,NONE
Seventh Codec	The seventh preferential DSP codec:
	G.711A/U,G.722,G.723.1, G.726-32,
	G.729AB,ILBC,AMR,AMR-WB,NONE
Eighth Codec	The eighth preferential DSP codec:
2181111 00000	G.711A/U,G.722,G.723.1, G.726-32, G.729AB,
	ILBC,AMR,AMR-WB,NONE
Ninth Codec	The ninth preferential DSP codec:
	G.711A/U,G.722,G.723.1, G.726-32, G.729AB,
	ILBC,AMR,AMR-WB,NONE
Onhook Time	Specify the least reflection time of Hand down, the
	default is 200ms.
Default Ring Type	Select Ring Type
Handset Volume	Specify Handset Volume grade.
Speakerphone	Specify Speakerphone Volume grade.
volume	
Headset Volume	Specify Headset Volume grade.
Headset Ring	Specify Headset Ring Volume grade
Volume	
Speakerphone Ring	Specify Speakerphone Ring Volume grade
Volume	
ILBC Payload Type	Set ILBC payload type
ILBC Payload	Set ILBC Payload Length
Length	
AMR Payload Type	Set AMR payload type
AMR-WB Payload	Set AMR-WB payload type
Туре	
G729AB Payload	Set G729 Payload Length
Length	
G723.1 Bit Rate	5.3kb/s or 6.3kb/s is available
DTMF Payload	Set DTMF Payload Type.
Туре	
EnableVAD	Select it or not to enable or disable VAD. If enable
	VAD, G729 Payload length could not be set over
	20ms.
Enable MWI Tone	the phone will play MWI tone when a new MWI
	comes

8.3.4.2 FEATURE

In this web page, you can configure Call Transfer, Call Waiting, 3 Ways Call, Black List, white list Limit List and so on.

D-Lin l	K						
0PH-400GE	BASIC NETWORK	VOIP	PHONE MA	AINTENANCI	E SECURITY	LOGOU	т
DI0	Feature Settings						
CATURE	DND (Do Not Disturb):	Disabled 🗸	Push XML Server:				
AL PLAN	Enable Call Transfer:		DND Return Code:	480	(Temporarily Not	Available)	•
NTACT	Semi-Attended Transfer:	V	Busy Return Code:	486	(Busy Here)		
MOTE CONTACT	Enable Call Waiting:		Reject Return Code:	603	(Decline)		
B DIAL	Enable 3-way Conference:	V	Active URI Limit IP:	Í		1	
NCTION KEY	Accept Any Call:		Hide DTMF:	Disa	bled 💌		
Т КЕҮ	Enable Auto Handdown:		Auto Handdown Time:	: 3	second(s)		
FTKEY	Ring From Headset:		Enable Auto Redial:				
AST	Enable Silent Mode:		Auto Redial Interval:	10	(1~180)sec	ond(s)	
INE	Ban Outgoing:		Auto Redial Times:	10	(1~100)		
TION URL	Enable Intercom:		P2P IP Prefix:			[
	Enable Intercom Mute:		Enable Password Dial	I: 🗌			
	Enable Intercom Tone:		Password Dial Prefix			[
	Enable Intercom Barge:		Password Length:	0		(0~31)	
	Turn Off Power Light:		Emergency Call Numb	ber: 110		[
	Enable Call Completion:		Enable Pre-Dial:	~			
	Enable Call Waiting Tone:		Auto Headset:	✓			
	Enable Call History:		Enable Multi Line:	~			
	Enable Default Line:		Enable Auto Switch Li	ine: 🔽			
	Allow IP Call		Play Dialing DTMF To	ne 🔽			
	Play Talking DTMF Tone						
			Apply				
	Block Out Settings						
	and the other othe		Block Out				
		Add			Del	ete	
	,		,				

BROADBAND

FEATURE				
Field name	explanation			
Do Not	There are there options:			
Disturb	Disabled: The phone accept any normal incoming call			
	Phone: The phone rejects any incoming call, the caller will			
	automatically prompt hang up, but outgoing calls will not be			
	affected			
	Line: A line enabled DND will reject it's any incoming call			
Ban	If you select Ban Outgoing to enable it, and you cannot dial out			
Outgoing	any number.			

Enchle Call	Enchle Cell Transfer by celesting it
Enable Call	Enable Call Transfer by selecting it.
Transfer	Englis Comi Attanded Transfer bar antart' 't
Semi-Attend	Enable Semi-Attended Transfer by selecting it
ed Transfer	The shape will have up and active to the idle costs west: 11 (
Enable Auto	The phone will hang up and return to the idle automatically at
Handdown	hands-free mode
Auto	Specify Auto Hand down Time, the phone will hang up and
Handdown	return to the idle automatically after Auto Hand down Time at
Time	hands-free mode, and play dial tone Auto Hand down Time at
F 11 A (handset mode
Enable Auto	Enable Auto Redial by selecting it, then the phone reminds
Redial	whether redial, when the callee is busy or rejects
Auto Redial	Specify the Auto Redial interval,
interval	
Auto Redial	Specify the Auto Redial interval
Times	
	Enable the function and put on the headset, when there has a
Auto	incoming call ,you can press the answer key or line key to
Headset	answer the call through the headset ,and it's the same if enable
	auto answer function
Enable	Enable Intercom Mode by selecting it
Intercom	
Enable	Enable mute mode during the intercom call
Intercom	
Mute	
Enable	If the incoming call is intercom call, the phone plays the
Intercom	intercom tone
Tone	
Enable	Enable Intercom Barge by selecting it, the phone auto answers
Intercom	the intercom call during a call. If the current call is intercom
Barge	call, the phone will reject the second intercom call
P2P IP Prefix	Set Prefix in peer to peer IP call. For example: what you want
	to dial is 192.168.1.119, If you define P2P IP Prefix as
	192.168.1., you dial only #119 to reach 192.168.1.119. Default
Trainin Off	is ".". If there is no "." Set, it means to disable dialing IP.
Turn Off	Enable Turn Off Power Light by selecting it
Power Light	Creatifie the Emergence O HNL 1 D is the L 1
Emergency	Specify the Emergency Call Number. Despite the keyboard is
Call Number	locked ,you can dial the emergency call number
	Enable Password Dial by selecting it, When number entered is
Englis	beginning with the password prefix, the following N numbers
Enable	after the password prefix will be hidden as *, N stand for the
Password	value which you enter in the Password Length field. For
Dial	example: you set the password prefix is 3, enter

	the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone
Password	Specify the prefix of the password call number
Dial Prefix	specify the prefix of the password can number
	Creatify the Decouverd langth
Password	Specify the Password length
Length	
	Enable Call Waiting by selecting it. then the phone reminds
Enable Call	whether redial, when the caller is busy or rejects . if it's ok and
Waiting	the phone finds out that the caller is idle by sip message, it will
	reminds whether redial
Enable	
3-way	Enable 3-way conference by selecting it
Conference	
Accept Any	If select it, the phone will accept the call even if the called
Call	number is IP.
Enable Call	Enable Call Completion by selecting it, If the callee is busy, the
Completion	sip server will inspect the callee status at intervals. If the callee
1	is idle, the server will send notify message to inform the caller
	whether redial.
Enable	Disable this feature, in standby interface next number, will
Pre-dial	realize the number rules "send out over the time";Enable the
i ie ului	feature ,then the number will not be send out over the time.
Enable Silent	Enable Silent Mode by selecting it, the phone light will red
Mode	· · · ·
Mode	blink to remind that there is a missed call instead of playing
	ring tone
Hide DTMF	Specify the hide DTMF mode
Ring From	Enable Ring From Handset by selecting it, the phone plays
Headset	ring tone from handset
DND Return	Specify DND Return code
Code	
Busy Return	Specify Busy Return Code
Code	
Reject	Specify Reject Return Code
Return Code	
Active URI	Specify the server IP that remote control phone for
Limit IP	corresponding operation
Push XML	Specify the Push XML Server, when phone receives request, it
Server	will determine whether to display corresponding content on the
	phone which sent by the specified server or not.
Enable Call	Turn off this feature, you will not hear issued a "beep" sound
Waiting Tone	with more calls
Enable Call	Version and the allowed 1111 (
History	You can see the phone call history
Enable Multi	Enable multi-line,10 road calls can be enabled, otherwise make

Line	at most two road calls
Enable Default Line	When enabled, a sip line becomes the default line; disabled, the phone will begin in accordance with the line from the SIP1 sequential search, select an available line for calls.
Enable Auto Switch Line	Prerequisite: Enable Default Line ON: If sip1 registration fails, it will automatically find the first available line down Off: If sip1 registration fails, does not automatically find the first available down the line, using the default line If default Line is disabled, automatic line switch function does not take effect
Allow IP Call	Enter the remote IP to make a call
Play Talking DTMF Tone	Press the number keys in a call, you can hear the sound of the end
Play Dialing tone	Press the number keys in dialing, you can hear the sound of the end
Block Out Settings	
Block out	Set Add/Delete Limit List. Please input the prefix of those phone numbers which you forbid the phone to dial out. For example, if you want to forbid those phones of 001 as prefix to be dialed out, you need input 001 in the blank of limit list, and then you cannot dial out any phone number whose prefix is 001. X and are wildcard x means matching any single digit. For example, 4xxx expresses any number with prefix 4 which length is 4 will be forbidden to dialed out means matching any arbitrary number digit. For example, 6 expresses any number with prefix 6 will be forbidden to dialed out.
Notice: Black	List and Limit List can record at most10 items respectively.

8.3.4.3 **DIAL PLAN**

This system supports 4 dial modes:

1) End with "#": dial your desired number, and then press #.

2) Fixed Length: the phone will intersect the number according to your specified length.

3) Time Out: After you stop dialing and waiting time out, system will send the number collected.

4) Press # to Do Blind Transfer: input the number you want to transfer to then press"#" you can transfer the current call to the number.

5) Blind Transfer on OnHook : input the number you want to transfer to then

hang up handle or press speaker, you can transfer the current call to the number.6) Attend Transfer on OnHook: hang up handle or press speaker you can realize the blind transfer function.

7) Press DSS Key to Do Blind Transfer: press dss-key, the phone will transfer the current call to the third party

8) User defined: you can customize digital map rules to make dialing more flexible. It is realized by defining the prefix of phone number and number length of dialing.

In order to keep some users' secondary dialing manner when dialing the external line with PBX, phone can be added a special rule to realize it. so user can dial a number as external line prefix and get the secondary dial tone to keep dial the external number. After finishing dialing, phone will send the prefix and external number totally to the server.

For example, there is a rule 9, xxxxxxx in the digital map table. After dialing 9, phone will send the secondary dial tone, user may keep going dialing. After finished, phone will call the number which starts with 9; actually the number sent out is 9-digit with 9.

	1_0						
D-Lin	K						
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
AUDIO	Basic Settir						
FEATURE	Dasic Setti	igs 🔽	Press "#" to	Send			
DIAL PLAN			Dial Fixed L		to	o Send	
CONTACT			Send after	,	second(s	s)(3~30)	
REMOTE CONTACT		~	Press # to E	o Blind Transf	er		
WEB DIAL			Blind Transf	er on Onhook			
FUNCTION KEY			Attended Tr	ansfer on Onho	ook		
EXT KEY			Press DSS k	ey to Do Blind	Transfer		
SOFTKEY				Apply			
MCAST	Dial Plan Ta	able					
TONE				Plans:			
ACTION URL			Add	~	Delet	te	
BROADBAND							

DIAL PLAN Configuration			
Field name explanation			
Basic Setting			
Press "#" to Send	Set Enable/Disable the phone ended with "#" dial.		
Dial Fixed Length	Specify the Fixed Length of phone ending with.		
Send after (3-30)	Set the timeout of the last dial digit. The call will be		
Senu aner (S-SU)	sent after timeout.		

seconds	
Press # to Do Blind	Enable Blind Transfer On Hook, when executing Blind
Transfer	Transfer End with #, press # after inputting the number
	that you want to transfer, the phone will transfer the
	current call to the third party
Blind Transfer on	Enable Blind Transfer on On Hook, when executing
OnHook	Blind Transfer, hang up after inputting the number that
	you want to transfer, the phone will transfer the current
	call to the third party
Attend Transfer on	Enable Attend Transfer on On Hook, when executing
OnHook	Attended Transfer, hang up after the third party
	answers, the phone will transfer the current call to the
	third party
Drage DSS Koy to	Enable press DSS Key to Do Blind Transfer, when
Press DSS Key to Do Blind Transfer	executing Blind Transfer, press dss-key, the phone
Do Diniu Transfer	will transfer the current call to the third party
Dial Plan Table	

Below is user-defined digital map rule:

[] Specifies a range that will match digit. May be a range, a list of ranges separated by commas, or a list of digits.

Plans:

~

Delete

* Match any single digit that is dialed.

. Match any arbitrary number of digits including none.

Add

Tn Indicates an additional time out period before digits are sent of n seconds in length. n is mandatory and can have a value of 0 to 9 seconds. Tn must be the last 2 characters of a dial plan. If Tn is not specified it is assumed to be T0 by default on all dial plans.

Plans: "[1-8]×××" "9xxxxxxx" "911" "99T4" "9911x.t4"

Cause extensions 1000-8999 to be dialed immediately

Cause 8 digit numbers started with 9 to be dialed immediately

Cause 911 to be dialed immediately after it is entered.

Cause 99 to be dialed after 4 seconds.

Cause any number started with 9911 to be dialed 4 seconds after dialing ceases.

Notice: Dial plan can realised at speaker, pick handle or headset mode. End with "#", Fixed Length, Time out and Digital Map Table can be used simultaneously, System will stop dialing and send number according

to your set rules.

8.3.4.4 CONTACT

You can input the name, phone number and select ring type for each name here.

D-Linl	K						
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
AUDIO	Phonebook	Table					
FEATURE	Group: All						<u>Hanqup</u>
DIAL PLAN	,	me Offic	e Number	Mobile Number	Other Number	Ring Type	Group 🗌
CONTACT	Page: 🔽 🚺	Pre Nex	t friend	Add 💟	Add to Blackli	st Delete	Delete All
REMOTE CONTACT	Add Contac	4					
WEB DIAL	Name:	,.		Ring	Гуре:	Default 🗸	
FUNCTION KEY	Office Numb	er:	,	Line:		Auto	*
EXT KEY	Mobile Numb	ber:		Line:		Auto	~
SOFTKEY MCAST	Other Numb	er:		Line:		Auto	~
TONE	Group Settin	ıg	Unselected			Selected	
ACTION URL			friend home	<u>^</u>			~
			work business		<-		
			classmate	~			V
			Add	Mod	lify	Clear	
	Import Con	ntact List					
	Select File:			Browse (*.xml	,*.vcf,*.csv) Up	date	
	Export Con	tact List					
		Export 2	KML (Export CSV	Export VCF		
	Group Optic						
	Group	friend	×				
	Name Ding Tung	friend Default					
	Ring Type	Add		Delete Delete	011		
		haa					
	Blacklist Se	ttings					
	Blacklist Ite	m 🔽			Delete Delet	e All	
			_				
	Type:	Number	*				
	Value:	Auto III	1		Add		
	Line:	Auto 🔽		Blacklist			
				Didekiist			
BROADBAND							
			CON	ТАСТ			
Field name		exp	lanation				

Phonebook Table	
Group: All 🛛 💌	Hangup
Index Name Office Nu	mber Mobile Number Other Number Ring Type Group
Name	Shows the name corresponding to the phone number
Number	Shows the phone number
Ring Type	Shows the ring type of the incoming call.
Group	Shows the group of the contact
Notice: the maximum ca	apability of the phonebook is 500 items, you can select
many or a contact to add	to group and add to blacklist, and delete many or a
contact, and delete all co	ontacts.
Add Contact List	
Name	Specify the name corresponding to the phone
Office Newsley	number
Office Number	Specify the office number
Mobile Number	Specify the mobile number
Other Number	Specify the other number
Ring Type	Specify the ring type for the phone number
Line	Specify the sip line for the each number
Group setting	Select the group from the unselected group to
	selected list for the contact; you can select many
	groups for the contact.
	or adding a new contact, the modify button for
	ntact, the clear all button for clear all input information
of the contact	
Group Option	
Group	Select the added groups, then modify or delete and so on
Name	Input the name of the group, then click the add
	button, you can add a new group.
Ring Type	Specify the ring type for the group as adding a new
	group
Import Contact List	
Select File	Click the browse button to select the phonebook file
	that you want to import, than click update button,
	the phonebook file selected will be added to the
	phone.
Export Contact File	
Export XML	Click export xml button to export phonebook file of xml model
Export CSV	Click export xml button to export phonebook file of
	csv model
Export VCF	Click export xml button to export phonebook file of

	vcf model
Blacklist Settings	
Туре	Select the blacklist type, you can select number or prefix of number
Value	Input number or prefix of number
Line	Select the sip line

Notice: the add button for adding a new blacklist, the delete button for deleting one item, the delete all button for deleting all items.

If user does not want to answer some phone calls, add these phone numbers to the Black List, and these calls will be rejected.x and are wildcard x means matching any single digit. for example, 4xxx expresses any number with

prefix 4 which length is 4 will be forbidden to be responded.

DOT (.) means matching any arbitrary number digit. for example, 6. expresses

any number with prefix 6 will be forbidden to be responded.

If user wants to allow a number or a series of number incoming, he may add the number(s) to the list as the white list rule. the configuration rule is -number, for example, -123456, or -1234xx

Blacklist

4149

Means any incoming number is forbidden except for 4119 Note: End with DOT (.) when set up the white list

8.3.4.5 **REMOTE CONTACT**

400GE	BAS	sic	NETWORK	VOIP	PHONE	MAINTE	NANCE	SECURITY	LOGOU
1	Demo	te Dhor	nebook Setti	nae		_			
RE			ebook Name	Server U		IP Line		Usen	Dec
PLAN	Index	Phone	DOOK Name	Server U				User	Pas
CT	1			ļ	AUT				
TE CONTACT	2			ļ	AUT				
IAL	3			ļ	AUT				
ION KEY	4			<u></u>	AUT	0 🔽			
EY	Í					-			
EY	i				Арр	ly .			
	LDAP	Settin	gs 🛛	DAP 1 🛛 🔽					ĺ
	Disnla	ay Title:				Version		Version	3 🗸
N URL		er Addre:	cc'	,		Server		389	J 💌
		nticatio		None	*	Line:	i ora	AUTO V	ī
	Usern					Passwo	urd:		
		h Base:		,		Enable	Calling		
				 		Search:			
	Telep			telephoneNumb	ier	Mobile:		mobile	
	Other	:		home		Display	Name:	cn	
					(Annalis	1			
					Apply	J			

You need to match a XML Phonebook address and you can directly access to the corresponding remote phonebook on the phone.

Remote Phonebook	
Setting	
Phonebook Name	Custom the phonebook name displayed on the phone
Server URL	Specify the server url of the remote phonebook
Sip Line	Specify the sip line for the remote phonebook
Authentication	Specify the authentication mode for remote
	phonebook
Username/password	Input the authentication username and password

(Note: remote book support the modes as HTTP, FTP, TFTP)

LDAP Settings	
Display Title	LDAP phonebook name
Version	LDAP version
Server Address	LDAP server address
Server port	LDAP server port

Authentication	There are four options: NONE, DIGEST-MD5,CRAM-MD5,Simple					
Line	contacts call using the selected line					
Username	Enter username					
Password	Enter password					
Search Base	query the root directory access to LDAP					
Enable Calling Search	the phone search LDAP server in the outgoing / incoming call . If a contact is searched, its name will be displayed on the screen					
Telephone	Contacts' telephone					
Mobile	Contacts' mobile phone					
Other	Contacts' other information					
Display Name	Contacts' displayname					

8.3.4.6 WEB DIAL

D-Link								
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT	
AUDIO	Web Dial Set	tinas						
FEATURE	Dial Number:			i i				
DIAL PLAN	Line Selection:	,			Dial	Hangup		
CONTACT		,						
REMOTE CONTACT								
WEB DIAL								
FUNCTION KEY								
EXT KEY								
SOFTKEY								
MCAST								
TONE								
ACTION URL								
BROADBAND								

You can make a call through the WEB DIAL, enter the Dial Num then press Dial, if you want to finish the talk, press Hang-up.

8.3.4.7 MCAST

D-Link								
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT	
AUDIO	MCAST Set	MCAST Settings						
FEATURE	Priority:	1	v					
DIAL PLAN	Enable Page							
CONTACT	Index/P		Name	Ho	st:port			
REMOTE CONTACT	1							
WEB DIAL	2							
FUNCTION KEY	3							
ЕХТ КЕҮ	4							
SOFTKEY	5							
MCAST	6							
TONE	7							
ACTION URL	8							
	9							
	10							
				Apply				
BROADBAND								

Use the multicast function to send notice to every member of the multicast is simple and easy. By setting the multicast key on your phone, you can send multicast RTP flow to the pre-configured multicast address. By listening multicast address is configured on the phone, listen and play the multicast address to send the RTP stream.

Send multicast setting

On the phone web page, function key-function key, set a function key, as shown

 DSS Key
 Multicast
 ✓
 239.1.1.1:1366
 AUTO
 G.711A
 ✓

Value format IP:Port, the IP address of multicast is range from 224.0.0.0 to

239.255.255.255,port is greater than 1024 If multicast codec is G722, the LCD screen will displays "HD", which means the phone is sending high-definition voice stream Operate steps:

1. When the phone is idle, press multicast key

Multicast RTP stream is sended to pre-configured multicast address (IP: Port). The phone which listens to multicast address in the local network can

receive the RTP stream. Multicast functionkey LED lights yellow. LCD screen displays the following:



- 2. Press the hold softkey to hold the current multicast session
- 3. Press the end softkey again or multicast functionkey, multicast session can be stopped

Notice: RTP stream is one side, that is from a sender to a receiver. when the phone initiates a multicast RTP session in a call, the current call is on hold.

Receive multicast setting

You can set up the phone monitoring 10 different multicast addresses to receive these multicast RTP stream.

You have two method to receive RTP stream of multicast that can be set up through the web page: Enable priorities of normal calls and Enable page Priority:

Enable priorities of normal call by select it, if the incoming RTP stream priority of multicast lower than the priority of current for normal calls, the phone will ignore the RTP stream of multicast. If the incoming RTP stream priority of multicast higher than the priority of current for normal calls, the phone will receive the RTP stream of multicast, and hold the current call. Disabled priorities of normal call by select disable, the phone will ignore all local network RTP stream of multicast.

Options as follows:

1-10:the priority defined for normal calls,1 the highest level,10 the lowest level Disabled: Ignore all RTP stream of multicast

Enable Page Priority

Page priority determines the phone how to handle the newly received multicast RTP stream when in a multicast session. Enabled page priority, the phone will automatically ignore the low priority multicast RTP stream and receive the high priority multicast RTP stream and hold the current multicast session; If not enabled, the phone will automatically ignore all incoming multicast RTP stream. Web page is set as follows:

MCAST Settings					
Priority:	1	~			
Enable Page Priority:					
Index/Priority	_	Name	Host:port		
1	SS		239.1.1.1:1366		
2	ee		239.1.1.1:1367		

Now multicast ss has higher priority than multicast ee, the highest priority is for normal calls

Notice: When a multicast session begins, multicast sender and receiver will beep

8.3.4.8 TONE

BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	L
Tone Settings		·		-		
Tone Standard:	1	China				
Dial Tone:	,	450/0				
Ring Back Tone:	4	450/1000,0/4000)			
T Busy Tone:	4	450/350,0/350				
Congestion Tone	:	450/700,0/700				
Call waiting Ton	e: 4	450/400,0/4000				
Holding Tone:	Ī					
Error Tone:	Ī					
Stutter Tone:						
Information Ton	e: -	450/400,0/40				
Dial Recall Tone:						
Measage Tone:						
Howler Tone:						
Number Unobtai Tone:	nable	450/100,0/100,4	50/100,0/100,4	50/100,0/100,450	1/400,0/400	
Warning Tone:						
Record Tone:						
Auto Answer Tor	ie:					

You can select the desired tone standard, also can customize the settings

8.3.4.9 Action URL

DPH-400GE	BASIC NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
AUDIO						
FEATURE	Action URL Settings					
DIAL PLAN	Setup Completed:					
CONTACT	Registration Success:					
REMOTE CONTACT	Registration Disabled:					
WEB DIAL	Registration Failed:					
FUNCTION KEY	Off Hook:					
EXT KEY	On Hook:					
SOFTKEY	Incoming Call					
	Outgoing Call:					
MCAST	Call Established:					
TONE	Call Terminated:					
ACTION URL	DND Enabled:					
	DND Disabled:					
	Always Forward Enabled:					
	Always Forward Disabled:					
	Busy Forward Enabled:					
	Busy Forward Disabled:					
	No Ans. Forward Enabled:					
	No Ans. Forward Disabled:					
	Transfer Call:					
	Blind Transfer Call:					
	Attended Transfer Call:					
	Hold:					
	Resume:					
	Mute:					
	Unmute:					
	Missed Call:					
	IP Changed:					
	Idle To Busy:					
	Busy To Idle:					
			Apply]		

Specify the Action URL that Record the operation of phone, send these corresponding information to server, url:http://InternalServer /FileName.xml?(Internal Server is server ip, FileName is name of xml that contains the action message)

8.3.5 Function Key

00GE	BASIC	NETWORK	VOIP	PHONE	MAINTEN	IANCE	SECU	RITY	LOGC
	Screen Co	onfiguration							
E	Contrast:	5	(1~9)	Ena	ble Backligh	t: 🔽			
LAN	Backlight				,				
T				Apply					
CONTACT									
AL	Function I	Key Settings							
ION KEY	Key	Туре	Value	Li	ne :	Subtype		Pickup N	Numb
Y	DSS Key 1	Line 💌		SIP1	L 🔽 None		~		
Y	DSS Key 2	Line 💌		SIP2	2 🔽 None		~		
	DSS Key 3	Line 💌		SIPS	8 🗸 None		\sim		
	DSS Key 4	Line 💌		SIP4	None None		\sim		
I URL	DSS Key 5	Line 💌		SIPS	5 🔽 None		\sim		
	DSS Key 6	Key Event 🛛 💌		AUT	o∨ MWI		*		
	DSS Key 7	Key Event 🛛 💌		AUT	0∨ Head	set	*		
	DSS Key 8	Key Event 🛛 💌		AUT	o ∨ Relea	se	*		
				Apply					
	Drogramn	nable Key Setti	nae						
	Key	Desktop		Dialer	C	alling	Г) Desktop Lo	na Pr
	Up		V Prev. L		Prev. Ca	-		Status	···
	Down		V Next Li		Next Cal			None	~
	Left	Pre Account		×	Volume I			None	~
	Right	Next Account	V None	~	Volume I	Jp 🗸		Speed Dial	_
	ОК		None	~	None	~		None	~
				Apply	ר, ר				

8.3.5.1 Function Key

Field name	explanation			
Contrast	Set contrast of screen			
Enable Backlight	Set enable/disable backlight			
Backlight Time	You don't operate the phone more than a backlight			
	timeout setting, the backlight will turn off			
	automatically			
Line Key Settings				
Line: select Auto, SIP1, SIP2, SIP3, SIP4, or IAX2 in function key type.				
After you set it, you pick up handset or hands-free, press this function				
key, and then you ca	in use the corresponding SIP line.			

key	Show the function keep	ey's serial numb	er			
Туре	Memory Key: settings can be stored in key storage					
• •	for each number, the standby or off-hook, select					
	the function keys o	on the keyboar	d can call this			
	number.	-				
	Line, set the dial m	ode (Auto, SII	P1, SIP2, SIP3,			
	SIP4, IAX2).Key K	Key Event fund	ctions, monitor			
	state.					
	DTMF: In the call,	send DTMF				
	URL: You can input	remote book ur	1			
Value	Set the type parameter values.					
Line	Choose which lines t	Choose which lines to use this feature.				
Subtype	Select the function p	Select the function parameters Key Event and				
	Memory Event.					
Pickup Number	The value of SubTy	pe is the numb	er to BLF or			
	Presence.					
NOTICE:						
	an he configured through	ah tha fallowing				
• memory keys c	can be configured through the configured					
 memory keys of Speed Dial function 	on, through the configur					
• memory keys of Speed Dial function the number of way	on, through the configures as shown below.	ation of the key	corresponding			
• memory keys of Speed Dial function the number of way DSS Key 1 Memory	on, through the configures as shown below.	sip1 v	corresponding Speed Dial			
• memory keys of Speed Dial function the number of way DSS Key 1 Memory	on, through the configures as shown below.	sip1 v	corresponding Speed Dial			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I 	 on, through the configures s as shown below. Key < 4111 F1 key to allocate this not shown belocate the shown below. 	stion of the key SIP1 V umber by line1	corresponding Speed Dial line.			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I 	 on, through the configures s as shown below. Key ♥ 4111 F1 key to allocate this n a, you can press this key 	stion of the key SIP1 V umber by line1	corresponding Speed Dial line.			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I Intercom function answer the call and 	on, through the configures s as shown below. ✓ Key ✓ 4111 F1 key to allocate this n n, you can press this key I make each other.	sip1 v SIP1 v umber by line1 in standby to a	v corresponding Speed Dial line. utomatically			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I Intercom function 	on, through the configures s as shown below. ✓ Key ✓ 4111 F1 key to allocate this n n, you can press this key I make each other.	stion of the key SIP1 V umber by line1	corresponding Speed Dial line.			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I Intercom function answer the call and DSS Key 1 Memory 	on, through the configures s as shown below. ✓ Key ✓ 4111 F1 key to allocate this n n, you can press this key I make each other.	sip1 v sip1 v umber by line1 in standby to a	Corresponding Speed Dial line. utomatically Intercom			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I Intercom function answer the call and DSS Key 1 Memory User can be config 	 on, through the configures s as shown below. Key < 4111 F1 key to allocate this not allocate this not allocate the second structures Key < 4111 	sipin of the key SIP1 v umber by line1 in standby to a SIP1 v push to talk fu	v corresponding Speed Dial line. utomatically Intercom nction the way:			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I Intercom function answer the call and DSS Key 1 Memory User can be config 	 on, through the configures s as shown below. Key < 4111 F1 key to allocate this not allocate this not allocate this key and a structures Key < 4111 Key < 4111 ured in accordance with number; Then press the structure of the structures 	sipin of the key SIP1 v umber by line1 in standby to a SIP1 v push to talk fu	v corresponding Speed Dial line. utomatically Intercom nction the way:			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I Intercom function answer the call and DSS Key 1 Memory User can be config 4116 was the other automatically answer 	 on, through the configures s as shown below. Key < 4111 F1 key to allocate this not allocate this not allocate this key and a structures Key < 4111 Key < 4111 ured in accordance with number; Then press the structure of the structures 	standby to a SIP1 v umber by line1 in standby to a SIP1 v push to talk fu e standby buttor	v corresponding Speed Dial line. utomatically Intercom nction the way:			
 memory keys of Speed Dial function the number of way DSS Key 1 Memory User can press the I Intercom function answer the call and DSS Key 1 Memory User can be config 4116 was the other automatically answer 	 on, through the configures s as shown below. Key ♥ 4111 F1 key to allocate this n a, you can press this key l make each other. Key ♥ 4111 ured in accordance with number; Then press the yer the call 4116. 	standby to a SIP1 v umber by line1 in standby to a SIP1 v push to talk fu e standby buttor	v corresponding Speed Dial line. utomatically Intercom nction the way:			

8.3.5.2 EXT KEY

PH-400GE	ASIC NETWORK	VOIP	<u>PHONE</u>	MAINTENANCE SE	CURITY LOGOUT
DIO	ansion Module Sele	otion	_	- · ·	·
ATTIRE	pansion Module Sele	cuon	Load	Not C	onnected
AL PLAN	punsion Ploquie I 💌		Load	Notes	Jimecteu
NTACT Key	/ Туре	Value	Line	Subtype	Pickup Number
MOTE CONTACT	None 💌		AUTO 🗸	None	
B DIAL F 2	None 💌		AUTO 🗸	None	
ICTION KEY F3	None 💌		AUTO 🗸	None	
F 4	None 💌		AUTO 🗸	None	2
TKEY F 5	None 💌		AUTO ⊻	None	
ST F 6	None 💌		AUTO ⊻	None	
E F 7	None 💌		AUTO 🔻	None	
F 8	None 💌		AUTO ⊻	None	
F 9	None 💌		AUTO 🗸	None	
F 10	None 💌		AUTO 🗸	None	
F 11	None 🔽		AUTO 🗸	None	
F 12	None 🔽		AUTO 🖂	None	
F 13	None 🔽		AUTO 🖂	None	
F 14	None 💌		AUTO ⊻	None	
F 15	None 🔽		AUTO ⊻	None	
F 16	None 🔽		AUTO ⊻	None	
F 17	None 💌		AUTO ⊻	None	
F 18	None 🔽		AUTO ⊻	None	
F 19	None 💌		AUTO ⊻	None	2
F 20	None 💌		AUTO 🗸	None	2
F 21	None 💌		AUTO 🔽	None	Þ
F 22	None 💌		AUTO 🗸	None	2
F 23	None 💌		AUTO 🗸	None	2
F 24	None 💌		AUTO \vee	None	
F 25	None 💌		AUTO ⊻	None	
F 26	None 💌		AUTO 🔽	None	
			Apply		

EXT KEY has the same usage with the Function key. "In" port connects the

phone, "Out" port connects the next one, if there is only, you don't need for power supply, if there are more than one, you need supply 5V power for the first one, and use RJ-45 direct connector.

8.3.5.3 SOFTKEY

D-Lin	k						
DPH-400GE	BASIC	NETWORK	WOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
AUDIO FEATURE DIAL PLAN CONTACT	Scr	tkey Mode: reen:		Aore Call Dialer	v		
REMOTE CONTACT WEB DIAL FUNCTION KEY EXT KEY SOFTKEY MCAST TONE ACTION URL	None Call B Clear History In Join Missed MWI Next L Out Pause Phoneb Pickup	cted Softkeys ack(CBack) 7 ine(Next) cook(Dir) Line(Prev.)	(Select Delet None Dial Exit ←	e	_	<u>h</u>
BROADBAND							

You can configure different functions in different screens for every softkey.

8.3.6 Maintenance

8.3.6.1 Auto Provision

D-Lin	k						
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
AUTOPROVISION	Auto Provision Settings						
SYSLOG	Cu	rrent Config Vei	rsion:	2.000	12		
CONFIG	Co	mmon Config Ve	ersion:	2.000	12		
UPDATE	CPE Serial Number:			0010	00100400XH02001000000010e597052		
ACCESS	Us	User:				T	
REBOOT	Password:				T		
	Config Encryption Key:				T		
	Co	mmon Config Er	cryption Key:			T	
	Save Autoprovision Information:						
	DHCP Optic	on Settings >:	>				
	DH	ICP Option Setti	ing:	DHC	P Option 66	~	
	Cu	stom DHCP Opt	ion:	66		(128~254)	

Plug and Play (PnP) Settings >>			
Enable PnP:	~		
PnP Server:	224.0.1.75		
PnP Port:	5060		
PnP Transport:	UDP 💌		
PnP Interval:	1	hour(s)	I
Phone Flash Settings >>			
Server Address:	0.0.0		
Config File Name:			
Protocol Type:	FTP 🔽		
Update Interval:	1	hour(s)	
Update Mode:	Disabled	~	
TR069 Settings >>			
Enable TR069:			
ACS Server Type:	Common 😒		
ACS Server URL:	0.0.0.0		
ACS User:	admin		
ACS Password:	•••••		
TRO69 Auto Login:			
"Inform" Sending Period:	3600	second(s)	
	Apply		
<u> </u>			

Fanvil endpoint supports PnP and DHCP and Phone Flash to obtain the parameters. The PnP and DHCP and Phone Flash are all deployed, endpoint will go by the following process to try to obtain the server address and other parameters, when it boots up:

DHCP option \rightarrow PnP server \rightarrow Phone Flash

Auto Provision				
Field name	explanation			
Auto Update				
Setting				
Current Config Version	Show the current config file's version. If the version of the configuration downloaded is higher than the version of the running configurations, the auto provision would upgrade, or stop here. If the endpoints confirm the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.			
Common Config	Show the common config file's version. If the			
Version	configuration downloaded and the running			

	configurations are the same, the auto provision would
	stop here. If the endpoints confirm the configuration
	by Digest method, the endpoints wouldn't upgrade
	configuration unless the configuration in the server is
	different with the running configuration.
CPE Serial Number	Show CPE Serial Number
User	Specify FTP/HTTP/HTTPS server Username. System
	will use anonymous if username keep blank.
Password	Specify FTP/HTTP/HTTPS server Password.
Config Encrypt Key	Input the Encrypt Key, if the configuration file is encrypted.
Common Config	• •
Common Config Encrypt Key	Input the Common Encrypt Key, if the Common Configuration file is encrypted
Save Autoprovision	Save the username and password authentication
Information	*
mormation	message of http/https/ftp and input ID message in the
	phone until the URL in the server changes
DHCP Option	
Setting	
DHCP Option	Specify DHCP Option. DHCP option supports DHCP
Setting	custom option and DHCP option 66 and DHCP option
	43 to obtain the parameters. You could choose one
	method among them, the default is DHCP option
	disable.
Custom DHCP	A valid Custom DHCP Option is from 128 to 254. The
Option	Custom DHCP Option must be in accordance with the
	one defined in the DHCP server.
Plug and Play	
Enable PnP	Enable PnP by selecting it, than the phone will send
	SIP SUBSCRIBE messages to a multicast address
	when it boots up. Any SIP server understanding that
	message will reply with a SIP NOTIFY message
	containing the Auto Provisioning Server URL where
Dr.D. Comment	the phones can request their configuration.
PnP Server	Specify the PnP Server
PnP Port	Specify the PnP Server
PnP Transport	Specify the PnP Transfer protocol
PnP Interval	Specify the Interval time, unit is hour
Phone Flash	
Server Address	Set FTP/TFTP/HTTP/HTTPS server IP address for
	auto update. The address can be IP address or Domain
	name with subdirectory.
Config File Name	Set configuration file's name which need to update.
	System will use MAC as config file name if config file

	name keep blank. For example, 000102030405
Protocol Type	Specify the Protocol type FTP、TFTP or HTTP.
Update Interval	Specify update interval time, unit is hour.
	Different update modes:
	1. Disable: means no update
Update Mode	2. Update after reboot: means update after reboot.
	3. Update at time interval: means periodic update.
TR069 Settings	
Enable TR069	Enable TR069 by selecting it
ACS Server Type	Specify the ACS Server Type
ACS Server URL	Specify the ACS Server URL
ACS User	Specify ACS User
ACS Password	Specify ACS Password
Periodix Interval	It will check every 6 minutes
TR069 Auto Login	Enable TR069 Auto Login by selecting it
"Inform" Sending	Specify the "inform" Sending Period, unit is second
Period	

8.3.6.2 Syslog Config

Syslog is a protocol which is used to record the log messages with client/server mechanism. Syslog server receives the messages from clients, and classifies them based on priority and type. Then these messages will be written into log by some rules which administrator can configure. This is a better way for log management.

8 levels in debug information:

Level 0---emergency: This is highest default debug info level. You system cannot work.

Level 1---alert: Your system has deadly problem.

Level 2---critical: Your system has serious problem.

Level 3---error: The error will affect your system working.

Level 4---warning: There are some potential dangers. But your system can work.

Level 5---notice: Your system works well in special condition, but you need to check its working environment and parameter.

Level 6---info: the daily debugging info.

Level 7---debug: the lowest debug info Professional debugging info from R&D person.

At present, the lowest level of debug information is info; debug level only can be displayed on telnet.

D-Lin	k								
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT		
AUTOPROVISION	Syslog Sett	inas							
SYSLOG	o joing o dee		Address:	0.0.0	.0				
CONFIG		Server	Port:	514		r i			
UPDATE		MGR L	og Level:	None	• 🗸				
ACCESS		SIP Log Level:			None 💌				
REBOOT		Enable	Syslog:						
	Watch Dog								
		Enable	Watch Dog:	✓					
				Apply					
	Web Captu	re							
	Start			Ste	op				
	Port Mirror	Setting							
		Port M	irror:						
				Apply					

BROADBAND

Syslog Configuration				
Field name	explanation			
Syslog Setting				
Server Address	Set Syslog server IP address.			
Server Port	Set Syslog server port.			
MGR Log Level	Set the level of MGR log.			
SIP Log Level	Set the level of SIP log.			
Enable Syslog	Select it or not to enable or disable syslog.			
Watch Dog				
Enable Watch Dog	Phone will automatically restart in case of failure			
Web Capture				
Start	Click the start button when you need capture the WAN			
	packet stream of the phone, then open or save the file			
	as the interface			
Stop	Click the end button to stop capturing the packet			
	stream			
Port mirror	When Port mirror Setting is enabled, device under the			
Setting	LAN port can obtain the data from WAN port			

8.3.6.3 Config

D-Link							
DPH-400GE BASIC	NETWORK VOIP PHONE MAINTENANCE SECURITY LOGOUT						
UTOPROVISION Save Co	onfiguration						
YSLOG	Click "Save" button to save the configuration files!						
ONFIG PDATE	Save						
	Configuration						
EBOOT	Save all Network and VoIP settings. Right Click here to Save as Config File(.txt)						
	Right Click here to Save as Config File(.xxl)						
Clear Cd	onfiguration						
	Click "Clear" button to clear the configuration files!						
	Clear						
BROADBAND							
	Config Setting						
Field name	explanation						
	You can save all changes of configurations. Click the						
Save Configuration	Save button, all changes of configuration will be						
	saved, and be effective immediately.						
-	saved, and be effective immediately.Right clicks on "Right click here" and select "Save						
Backup Configuration	saved, and be effective immediately.Right clicks on "Right click here" and select "Save Target As config File(.txt)" then you will save the						
•	saved, and be effective immediately.Right clicks on "Right click here" and select "SaveTarget As config File(.txt)" then you will save theconfig file in .txt format, or select "Save Target As						
•	saved, and be effective immediately.Right clicks on "Right click here" and select "SaveTarget As config File(.txt)" then you will save theconfig file in .txt format, or select "Save Target Asconfig File(.xml)" then you will save the config file						
•	saved, and be effective immediately.Right clicks on "Right click here" and select "SaveTarget As config File(.txt)" then you will save theconfig file in .txt format, or select "Save Target Asconfig File(.xml)" then you will save the config filein .xml format						
Configuration	saved, and be effective immediately.Right clicks on "Right click here" and select "SaveTarget As config File(.txt)" then you will save theconfig file in .txt format, or select "Save Target Asconfig File(.xml)" then you will save the config filein .xml formatUser can restore factory default configuration and						
-	saved, and be effective immediately.Right clicks on "Right click here" and select "Save Target As config File(.txt)" then you will save the config file in .txt format, or select "Save Target As config File(.xml)" then you will save the config file in .xml formatUser can restore factory default configuration and n reboot the phone.						
Configuration	saved, and be effective immediately.Right clicks on "Right click here" and select "Save Target As config File(.txt)" then you will save the config file in .txt format, or select "Save Target As config File(.xml)" then you will save the config file in .xml formatUser can restore factory default configuration and reboot the phone. If you login as Admin, the phone will reset all						
Configuration	saved, and be effective immediately.Right clicks on "Right click here" and select "Save Target As config File(.txt)" then you will save the config file in .txt format, or select "Save Target As config File(.xml)" then you will save the config file in .xml formatUser can restore factory default configuration and reboot the phone. If you login as Admin, the phone will reset all configurations and restore factory default; if you login						
	saved, and be effective immediately.Right clicks on "Right click here" and select "Save Target As config File(.txt)" then you will save the config file in .txt format, or select "Save Target As config File(.xml)" then you will save the config file in .xml formatUser can restore factory default configuration and reboot the phone. If you login as Admin, the phone will reset all						

8.3.6.4 Update

You can update your configuration with your config file in this web page.

ROVISION G G G G TE S T T Password: File Name: Type: Application Update Protocol: FTP / Update Logo File Select File: Browse Update Select File: Browse Update Logo File Select File: Delete Logo File Select File: Delete Logo File Select File:	ROVISION					MAINTENANCE	SECURITY	LOGOU
G TE Select File: Browse (*.2,*.txt,*.xml,*.vcf,*.csv,*.wav) Update TTP/FTP Update Server Address: User: Password: File Name: Type: Application Update ♥ Protocol: FTP ♥ Update Logo File Select File: Browse Update		Web Update	<u>;</u>					
TE S S T S T User: Password: File Name: Type: Application Update Protocol: FTP <		Sele	ct File:		Browse (*	.z,*.txt,*.xml,*.vcf,*	.csv,*.wav) Upd	ate
Server Address: T Server Address: User: Password: File Name: Type: Application Update Vocol: FTP ✓ Apply Update Logo File Select File: Browse Update Delete Logo File		TFTP/FTP U	pdate					
T User: Password: File Name: Type: Application Update v Protocol: FTP v Apply Update Logo File Select File: Browse Update Delete Logo File				Address:			[
Password: File Name: Type: Application Update Protocol: FTP ▼ Apply Update Logo File Select File: Browse Update Logo File			User:				[
Type: Application Update V Protocol: FTP V Apply Update Logo File Select File: Browse Update Delete Logo File	-		Passwo	rd:			T	
Protocol: FTP Apply Update Logo File Select File: Browse Update Delete Logo File			File Nar	ne:				
Apply Update Logo File Select File: Delete Logo File			Type:				v	
Update Logo File Select File: Delete Logo File			Protoco	l:		~		
Select File: Browse Update Delete Logo File					Apply	J		
Delete Logo File		Update Logo	o File					
		Sele	ct File:		Browse	Update		
		Delete Logo	File					
				×	Delete			
Logo File			,					

BROADBAND

Update			
Field name	explanation		
Web Update			
Web Update	Click the browse button, find out the config file saved before or provided by manufacturer, download it to the phone directly, press "Update" to save. You can also update downloaded update file, logo picture, ring, mmiset file by web.		
FTP Update			
Server Address	Set the FTP/TFTP server address for download/upload. The address can be IP address or Domain name with subdirectory.		
User	Set the FTP server Username for download/upload.		
Password	Set the FTP server password for download/upload.		
File name	Set the name of update file or config file. The default name is the MAC of the phone, such as		

	000102030405.					
Notice: You can mod	lify the exported config file. And you can also download					
config file which incl	config file which includes several modules that need to be imported. For					
example, you can dov	example, you can download a config file just keep with SIP module. After					
reboot, other modules	s of system still use previous setting and are not lost.					
	Action type that system want to execute:					
Туре	1. Application update: download system update file					
	2. Config file export: Upload the config file to					
	FTP/TFTP server, name and save it.					
	3. Config fie import: Download the config file to					
	phone from FTP/TFTP server. The configuration will					
	be effective after the phone is reset.					
	4. Phone book export (.vcf, .csv, .xml): Upload the					
	phonebook file to FTP/TFTP server, name and save it.					
	5. PhoneBook import (.vcf, .csv, .xml): Download the					
	phonebook file to phone from FTP/TFTP server.					
Protocol	Select FTP/TFTP server					
Update Logo File						
Select File	Specify the URL of the logo file					
Delete Logo File						
Select File	Select the logo that you want to delete					
Logo File						
Logo File	Show the logo file					

8.3.6.5 ACCESS

You can add or delete user account, and change the authority of each user account in this web page.

	- 1 -9						
D-Lit	IK						
PH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
JTOPROVISION	LCD Menu I	Password Set	ttings				
SLOG	Menu Passw		•••			Apply	,
DATE	 Keyboard L	.ock Settings					
CESS	PIN to Lock	_					
BOOT	Keyboard Pa		•••			Apply	,
	Enable Keyb	oard Lock:					
	User Settin	gs					
		User			r Level		
		admin guest		Root Gene			
	Add User	User:				l l	
		Passwo	ord:			l l	
		Confirm	1:			[
		User Le	evel:	Roo	ot 🔽		
				Apply			
	Account Op	otion					
	admin ⊻		l	Delete M	lodify		
BROADBAND							
			ss Conf	igurati	on		
				iguiau			
Field nam		explanat			.1		.1
Keyboard	Password	_			ng the setting	-	the
		1 2	the phor	ie's key b	oard. The pa	assword is	
		digit.					
User Settin	igs						
	User			User Leve	I		
	admin			Root			
	guest			General			
T1 · . 1 1	1 .1		• . •				
	shows the						
User	1		unt user n				
User Leve	l				s the right to	o modify	
_				neral can	only read.		
Password		Set the p					
Confirm			the passv				
			-	•	y the selecte	d account,	and
	Delete to de						
General us	ser only car	add the u	ser whos	e level is	General.		

8.3.6.6 **REBOOT**

D-Lin	k						
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
AUTOPROVISION	Reboot Pho	ne.					
SYSLOG	Reboor Pho		Click "Reb	oot" button to rest	tart the phone l		
CONFIG			OTOK NOD	Reboot	art the phone:		
UPDATE	Kebbüt						
ACCESS							
REBOOT	ĺ						
	<u>.</u>						
BROADBAND							

If you modified some configurations which need the phone's reboot to be effective, you need click the Reboot, then the phone will reboot immediately. **Notice**: Before reboot, you need confirm that you have saved all configurations.

8.3.7 Security

8.3.7.1 Web Filter

D-Lin	K						
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	<u>SECURITY</u>	LOGOUT
WEB FILTER FIREWALL	Web Filter Table						
VPN	Web Filter	Table Setting					
SECURE	Web Filter Table Settings Start IP Address: Add						
	Web Filter Setting Enable Web Filter: Apply						
BROADBAND							
WEB Filter							
User could	User could make some device own IP, which is pre-specified, access to the						
MMI of the	phone to	config and	l manage	the phone	-		
Field n	ame			explana	ation		
Web Filter	Table Sett	ings:					
Add or dele	te the IP a	address seg	gments that	at access t	o the phone	e.	

Set initial IP address in the Start IP column, Set end IP address in the End IPcolumn, and click Add to add this IP segment. You can also click Delete todelete the selected IP segment.Web Filter settingSelect it or not to enable or disable Web Filter. Click
Apply to make it effective.Notice: Do not set your visiting IP outside the Web filter range, otherwise,
you cannot logon through the web.

8.3.7.2 Firewall

D-Li	nk							
H-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECU	RITY L	.0GOUT
FILTER	Firewall Ty	ne			-			
EWALL	Enable Input	-		Enab Apply	le output Rules			
RE				whhia)			
		put Rule Tabl Permit Protoc	le col Src Address	Src Mask	Src Port Range	Dst Add	Dst Mask	Port
	Firewall Ou	itput Rule Tal	ble					
	Index Deny/	Permit Protoc	col Src Address	Src Mask	Src Port Range	Dst Addr	Dst Mask	Dst Port Range
	Firewall Set	tings						
	Input/Output:		rc ddress:		Dst Addr:			
	Deny/Permit	Deny/Permit:	Deny 🔽 Src M	ask:			Dst Mask:	
	Protocol:		rc Port ange:		Des Port Ra	inge:	-	
	Rule Delete	e Option	·					
	Input/Outpu	t: Input 💌	Ir	ndex To Be De	leted:		Delete	

Firewall Configuration

In this web interface, you can set up firewall to prevent unauthorized Internet users from accessing private networks connected to the Internet (input rule), or prevent unauthorized private network devices from accessing the Internet (output rule).

Firewall supports two types of rules: input access rule and output access rule. Each type supports at most 10 items.

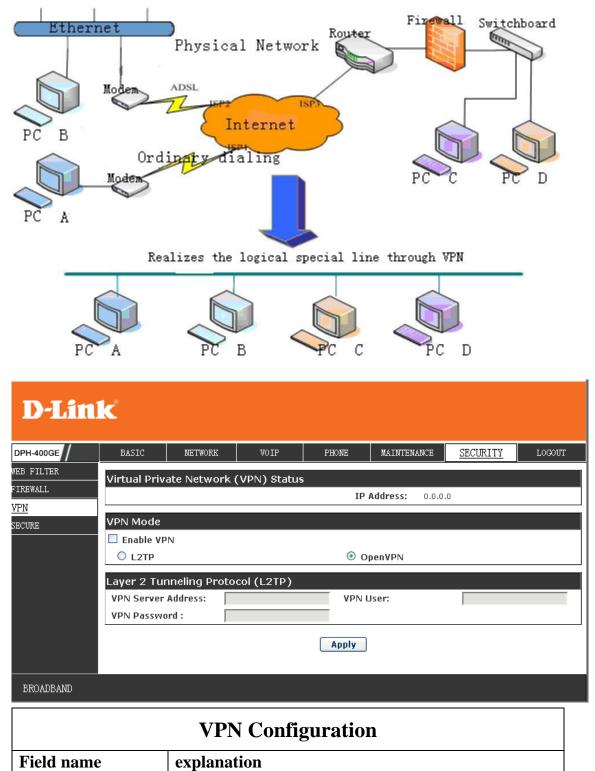
Through this web page, you could set up and enable/disable firewall with input/output rules. System could prevent unauthorized access, or access other networks set in rules for security. Firewall, is also called access list, is a simple implementation of a Cisco-like access list (firewall). It supports two

access lists: one for filtering input packets, and the other for filtering output packets. Each kind of list could be added 10 items. We will give you an instance for your reference.

We will give you an instance for your reference.					
Field name	explanation				
Enable Input Rules	Select it to Enable Input Rules				
Enable Output	Select it to Enable Output Rules				
Rules					
Input / Output	Specify current adding rule by selecting input rule or				
	output rule.				
Deny/Permit	Specify current adding rule by selecting Deny rule or				
	Permit rule.				
Protocol	Filter protocol type. You can select TCP, UDP, ICMP,				
	or IP.				
Port Range	Set the filter Port range				
Src Address	Set source address. It can be single IP address,				
	network address, complete address 0.0.0.0, or network				
	address similar to *.*.*.0				
Des Address	Set the destination address. It can be IP address,				
	network address, complete address 0.0.0.0, or network				
	address similar to *.*.*.*				
	Set the source address' mask. For example,				
Src Mask	255.255.255.255 means just point to one host;				
	255.255.255.0 means point to a network which				
	network ID is C type.				
	Set the destination address' mask. For example,				
Dest Mask	255.255.255.255 means just point to one host;				
	255.255.255.0 means point to a network which				
	network ID is C type.				
Click the Add button	if you want to add a new output rule.				
Then enable out acce	ss, and click the Apply button.				
So when devices exe	cute to ping 192.168.1.118, system will deny the request				
to send icmp request	to 192.168.1.118 for the out access rule. But if devices				
ping other devices wh	nich network ID is 192.168.1.0, it will be normal.				
Click the Delete butt	on to delete the selected rule.				
Click the Add button	if you want to add a new output rule.				
Then enable out acce	ss, and click the Apply button.				
	cute to ping 192.168.1.118, system will deny the request				
to send icmp request	to 192.168.1.118 for the out access rule. But if devices				
	hich network ID is 192.168.1.0, it will be normal.				
Click the Delete butt	on to delete the selected rule.				

8.3.7.3 VPN

This web page provides us a safe connect mode by which we can make remote access to enterprise inner network from public network. That is to say, you can set it to connect public networks in different areas into inner network via a special tunnel.



VPN IP	Shows the current VPN IP address			
Select L2TP. You can choose only one for current state. After you select it,				
you'd better save configuration and reboot your phone.				
Enable VPN	Select it or not to enable or disable VPN;			
VPN Server Addr	Set VPN L2TP Server IP address			
VPN User Name	Set User Name access to VPN L2TP Server			
VPN Password	Set Password access to VPN L2TP Server			

8.3.7.4 **Security**

D-Link							
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
WEB FILTER	Update Sec	urity File					
FIREWALL VPN	Select Security File:			В	rowse	Upda	te
SECURE	Delete Security File Select Security File:			×		Dele	te
	SIP TLS Fil						
	HTTPS Files						
	OpenVPN Files						

BROADBAND

Security						
Field name explanation						
Update Security						
File						
Select Security File	Select the security file you want to update, then click					
	Update button to update					
Delete Security File						
Select Security File	Select the security file you want to delete, then click					
	Delete button to update					
SIP TLS File	Show SIP TLS authentication certification file					
HTTPS File	Show HTTPS authentication certification file					

8.3.8 Logout

D-Link [®]							
DPH-400GE	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
Log Out	Click "Logout" button to logout the system!						
	Logout						

Click **Logout**, and you will exit web page. If you want to enter it next time, you need input user name and password again.

9 Appendix

9.1 Specification

9.1.1 Hardware

Item	Item DPH-400G/DPH-400GE					
Adapter		Input: 100-240V				
(Input / C	Output)	Output: 5V 1A				
port	WAN	10/100Base- T RJ-45 1 PORT				
	LAN	10/100Base- T RJ-45 1 PORT				
	EXT	RJ11 1 PORT				
Power		Idle: 2.5W/Active: 2.8W				
Consump	otion					
LCD Size	e	128x64				
		53.5 x 70mm				
Operation Temperature		0∼40°C				
Relative Humidity		10~65%				
CPU		Broadcom				
SDRAM		64MB				
Flash		128MB				
Dimension(L x W x H)		295×295×175mm				
Weight		1.5kg				

9.1.2 Voice features

- SIP supports 5 SIP servers
- Support SIP 2.0 (RFC3261) and correlative RFCs
- Codec: G.711A/u, G.722, G.723.1,G.726-32,G.729.AB,ILBC, AMR, AMR-WB
- Echo cancellation: G.168 Compliance in LEC, additional acoustic echo cancellation(AEC) can reach 96ms max filter length in hands-free mode
- Support Voice Gain Setting, VAD, CNG
- Support full duplex hands-free
- Support multi line/HD Voice

- SIP support SIP domain, SIP authentication(none basic, MD5), DNS name of server, Peer to Peer/ IP call
- Automatically select calling line, if one line can't be connected, the phone can automatically switch to other line to call.
- 9 kinds of ring types and 3 user-defined music rings
- DTMF Relay: support SIP info, DTMF Relay, RFC2833
- SIP application: SIP Call forward/transfer (blind/attended) /hold/waiting/3

way talking/SMS/pickup /join call /redial /unredial/multi line/intercom/BLF/presence/push to talk/auto redial/call return

- Call control features: Flexible dial map, hotline, empty calling No. reject service, black list for reject authenticated call, white list, limit call, no disturb, caller ID, CLIR(reject the anonymous call), CLIP(make a call with anonymous), Dial without register.
- Support phonebook 500 records, Incoming calls / outgoing calls / missed calls. Each supports 100 records.
- 6 line keys defined as multi line with screen display or used as SIP line keys
- 8 DSS keys
- Soft keys programmable, function keys programmable
- Code synchronization via IP PBX/IMS
- Support EXT DSS consoles with 5 max
- Support click to dial via web phone book
- Voice codec setting for each SIP line
- Support keypad lock, and emergency call during the keypad lock
- Customized lcd logo
- Ring play via headset or speaker setting
- Signal tone parameters customized
- Phonebook supports vcard standard
- 12/24 hours time display
- Support daylight saving time
- Support path, group
- Support SIP Privacy
- Support SMS
- Support WMI
- Support Speed dial
- Support XML

9.1.3 Network features

- WAN: support bridge model
- Support PPPoE for xDSL
- Support VLAN (optional: voice vlan/ data vlan)
- Support VPN (L2TP) function

- Wan Port supports main DNS and secondary DNS server, can select dynamically to get DNS in DHCP mode or statically set DNS address.
- Support DHCP client on WAN
- QoS with DiffServ
- Network tools in telnet server: including ping, telnet client
- Support Gigabit Ethernet

9.1.4 Maintenance and management

- Upgrade firmware through POST mode
- Web ,telnet and keypad management
- Management with different account right
- LCD and WEB configuration can be modified into requested language, and support multi-language dynamically shifted
- Upgrade firmware through HTTP,HTTPS FTP or TFTP Telnet remote management/ upload/download setting file
- Support Syslog
- Support Auto Provisioning (upgrade firmware or configuration file)

Keypad	l Character Keypad		Character	
1	1@	7PORS	7	
2 _{ABC}	2 A B C a b c	8 TUV	8 T U V t u v	
3DEF	3 D E F d e f	9 _{wxyz}	9 W X Y Z w x y z	
4 _{сні}	4 G H I g h i	*.	*/.	
5 _{JKL}	5 J K L j k l	0	0	
6 _{MNO}	6 M N O m n o	#send	#/=	