

**DPH-150S/DPH-150SE
VERSION 5.00**

QUICK INSTALLATION GUIDE

Руководство по
быстрой установке



D-Link®

VOIP



Safety Notices

1. Please use the specified power adapter. If you need to use the power adapter provided by other manufacturers under special circumstances, please make sure that the voltage and current provided is in accordance with the requirements of this product, meanwhile, please use the safety certificated products, otherwise may cause fire or get an electric shock.
2. When using this product, please do not damage the power cord either by forcefully twist it, stretch pull, banding or put it under heavy pressure or between items, otherwise it may cause damage to the power cord, lead to fire or get an electric shock.
3. Before using, please confirm that the temperature and environment is humidity suitable for the product to work. (Move the product from air conditioning room to natural temperature, which may cause this product surface or internal components produce condense water vapor, please open power use it after waiting for this product is natural drying).
4. Please do not let non-technical staff to remove or repair. Improper repair may cause electric shock, fire, malfunction, etc. It will lead to injury accident or cause damage to your product.
5. Do not use fingers, pins, wire, other metal objects or foreign body into the vents and gaps. It may cause current through the metal or foreign body, which may even cause electric shock or injury accident. If any foreign body or objection falls into the product please stop using.
6. Please do not discard the packing bags or store in places where children could reach, if children trap his head with it, may cause nose and mouth blocked, and even lead to suffocation.
7. Please use this product with normal usage and operating, in bad posture for a long time to use this product may affect your health.
8. Please read the above safety notices before installing or using this phone. They are crucial for the safe and reliable operation of the device.

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1. Introducing DPH-150S/DPH-150SE VoIP Phone

1.1 Thank you for your purchasing DPH-150S/DPH-150SE

Thank you for your purchasing DPH-150S/DPH-150SE. DPH-150S/DPH-150SE is a full-feature telephone that provides voice communication over the same data network that your computer uses. This phone's functions not only much like a traditional phone, allowing to place and receive calls, and enjoy other features that traditional phone has, but it also own many data services features which you could not expect from a traditional telephone.

This guide will help you easily use the various features and services available on your phone.

1.2 Delivery Content

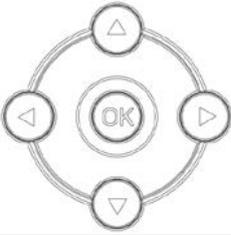
Please check whether the delivery contains the following parts:

Item	Description
IP Phone	DPH-150S/DPH-150SE Phone wit 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 Cable	Connected with the handset and the phone.
Quick Installation Guide	Quick install the DPH-150S/DPH-150SE guide.
CD	Containing manual and quick installation guide.
Warranty Safety Information	Warranty Safety Information for DPH-150S/DPH-150SE.

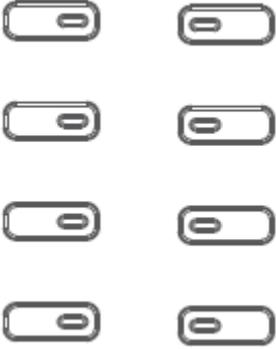
IP Phone are designed to look like conventional phones, the following photo shows a broad overview of the IP Phone.



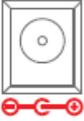
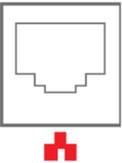
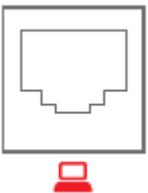
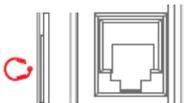
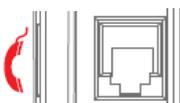
1.3 Keypad

Key	Key name	Function Description
	Navigation	Navigation key assist users for operating. In desktop, dialer, calling, desktop long pressed state they have special function. You can configure through the web page according to your patterns of use.
	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	Use the key to realize blind transfer or attended transfer.
	Conference	Use this key to realize the three party call.
	Digital keyboard	Inputting the phone number or DTMF.
	Mute	Press this key in calling mode, you can hear the other side, and the other side cannot hear you.
	Volume +/-	Turn down or turn up the volume by pressing these two keys.
	MWI	Use this key to look up the voice message.
	Headset	Use this key to realize the headset call.
	Redial	1. In the hook off /hands-free mode, use the key to dial the last call number; 2. In stand-by mode, it has a function to check the Outgoing Call.
	Hands-free	Make the phone into hands-free mode.

 Soft key 1/2/3/4	Keys combination, include functions such as History/Directory/DND/Menu/Del/Redial/Send/Quit/Answer/Divert/Reject/Hold/Transfer/Conf/Close
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		and so on.
	DSS keys	You can configure them in the web page.

1.4 Port for connecting

Port	Port name	Description
	Power switch	Input: 5V DC, 0.6A
	WAN	10/100M Connect it to Network
	LAN	10/100M Connect it to PC
	External console interface	Port type: RJ-11 direct connector
	Headset	Port type: RJ-9 connector
	Headset	Port type: RJ-9 connector

1.5 Icon introduction

Icon	Description
------	-------------

	Call out
	Call in
	Call hold
	Auto answer
	Call mute
	Contact
	DND (Do not Disturb)
	In hand-free mode
	In headset mode
	In headset mode
	SMS
	Missed call
	Call forward

1.6 LED introduction

Table 1 Programmable key LEDs for BLF

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	No subscribe.

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	No subscribe.

Table 3 Programmable key LEDs for line

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

Table 4 Programmable key LEDs for MWI

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

2. Initial Connecting and Settings

2.1 Connect the phone

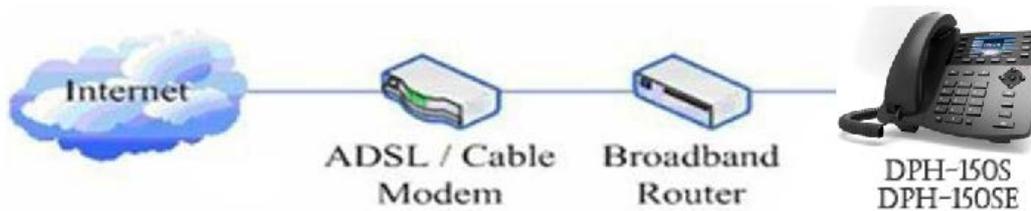
2.1.1 Connect to network

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.

Step 4: Then the phone's LCD screen displays "Dlink Logo". Later, a ready screen typically displays the date, time. 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-150S/DPH-150SE to start up.
3. There will be displayed blue line and "Dlink" Logo 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-150S/DPH-150SE 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-150S/DPH-150SE 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 Settings, then enter passwords, and choose network ->Network settings->Connection Mode, enter and choose PPPoE through navigation keys and press the Save key.
3. Press Back, 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 Back 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 Settings, then enter passwords, and choose network ->Network settings->Connection Mode, enter and choose Static through navigation keys and press the Save key.
2. Press Back, then choose Static Set, press Enter.
3. 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.
4. Press Back 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 Settings, then enter passwords, and choose network ->Network settings->Connection Mode, enter and choose DHCP through navigation keys and press the Save key.

2. Press back six times to return to the idle screen.
3. Check the status, the screen shows “DHCP”, if the screen shows the IP address and gateways 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,  icon will be showed in the idle screen.
2. Press the Speaker button,  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  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 R/SEND 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 Dial softkey to make the call if necessary.

3.2 Answering a call

Answering an incoming call

1. If you are not on another phone, lift the handset using, or press the Speaker button/ Answer softkey to answer using the speaker phone, or press the headset button to answer the headset.

2. If you are on another call, press the answer softkey.

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 DND softkey to active DND Mode. Further incoming calls will be rejected and the display shows:  icon. Press DND softkey twice to deactivate DND mode. You can find the incoming call record in the Call History.

3.4 Call Forward

This feature allows you to forward an incoming call to another phone number. The display showed  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 Forwarding->Enter.
2. There are 4 options: Disabled, Always, Busy, and No Answer.
3. If you choose one of them (except Disabled), enter the phone number you want to forward your call 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. Alert 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.

3.10 Multiple-way call

If user has 2 line calls and wants to invite the three 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 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.

4.2 Call back

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

4.3 Auto answer

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

4.4 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.

4.5 Application

4.5.1 SMS

- 1) Press Menu ->Applications->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 2aB 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 2aB 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.

4.5.2 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.

4.5.3 Voice Message

1) Press Menu->Application->Voice Message->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 2aB 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.

4.7 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.

4.8 Programmable Key Configuration

The phone has 7 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 Settings->Enter->Keyboard->DSS Key Settings, you have two options: Line Key Settings and Function Key Settings, 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 Intercom 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.

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

- Hold
- Transfer
- Phonebook
- Redial
- Pickup
- Join
- Call Forward
- History
- Flash
- Memo
- Headset
- Release: Pressing the key, you can end the call.
- Lock: Pressing the key, you can lock the keyboard.
- SMS
- Call Back
- Hide DTMF
- Intercom
- Prefix
- Hot Desking: Pressing the key, you can clear all sip information and register yourself sip information.
- Agent
- PriHold
- Disposition
- Escalate
- Trace

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 URL

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.

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 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.

5.4 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.

5.5 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.

5.6 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.

5.7 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.

5.8 Power Light

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

5.9 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.

5.10 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.

5.11 Action URL & Active URI

1. Action URL: The action that the phone carries out e.g. open dnd can produce 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.

5.12 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 Settings

6.1 Keyboard

1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Keyboard->Enter.
2. There are four items: DSS Key settings, Programmable Keys, Desktop Long Pressed, 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.
3. Press the key OK to save.

6.2 Screen Settings

1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Screen Settings->Enter.
2. You can set Contrast, Contrast Calibration and Backlight, press Enter and use the navigation keys to set, then press the key Save.

6.3 Ring Settings

1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Ring Settings->Enter.
2. You can set Ring Volume and Ring Type, press Enter and use the navigation keys to set, then press the key Save. In the Ring Type, the default system rings have nine and the custom ringtones have three 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, then press the key Save.

6.5 Time & Date

1. Press Menu ->Settings->Enter->Basic Settings-> 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 Words

1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Greeting Words->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

1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Language ->Enter.
2. DPH-150S/DPH-150SE support only one languages, you can't use the navigation keys to choose. The default one languages is English.

7 Advanced Settings

7.1 Accounts

Press Menu->Enter->Settings->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->Settings->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->Settings->Advanced settings, and then input the password to enter the interface. Then choose Security, you can configure Menu Password, Key lock Password, Key lock Status and whether to ban Outgoing.

7.4 Maintenance

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

7.5 Reset to Default

Press Menu->Enter->Settings->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-150S/DPH-150SE 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

Default user with root level:

Username: admin

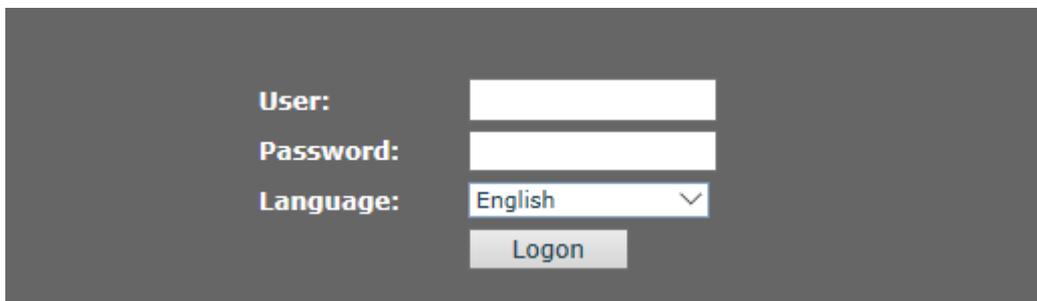
Password: admin

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.xxx/` or `http://xxx.xxx.xxx.xxx:xxxx/`).

If you do not know the IP address, you can look it up on the phone's display by pressing Status button. The login page is as below picture.



The image shows a login interface with the following elements:

- User:** A text input field.
- Password:** A text input field.
- Language:** A dropdown menu currently set to "English".
- Logon:** A button to submit the login information.

8.3 Configuration via WEB

8.3.1 System

8.3.1.1 Information

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Information	System Information						
Account	Model:		DPH-150SE				
Configurations	Hardware:		3.1				
Upgrade	Software:		2.0.2.2827				
Auto Provision	Uptime:		02 : 38 : 22				
Tools	Last uptime:		00:35:45				
	MEMInfo:		ROM: 0.8/8(M)		RAM: 1.8/16(M)		
	Network						
	Network mode:		DHCP				
	MAC:		00:a8:23:6a:6c:a0				
	IP:		192.168.1.109				
	Subnet mask:		255.255.255.0				
	Default gateway:		192.168.1.1				
	SIP Accounts						
	Line 1	8207					Inactive
	Line 2	N/A					Inactive
	Line 3	N/A					Inactive
	Line 4	N/A					Inactive

Information	
Field Name	Explanation
System Information	Display equipment model, hardware version, software version, uptime, Last uptime and MEMInfo.
Network	Shows the configuration information for WAN port, including connection mode of WAN port (Static, DHCP, PPPoE), MAC address, IP address of WAN port.

8.3.1.2 Account

Through this page, user can add or remove users depends on their needs and can modify existing user permission.

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Information	Change Web Authentication Password						
Account	Old Password:		<input type="text"/>				
Configurations	New Password:		<input type="text"/>				
Upgrade	Confirm Password:		<input type="text"/>				
Auto Provision			<input type="button" value="Apply"/>				
Tools	Add New User						
	Username		<input type="text"/>				
	Web Authentication Password		<input type="text"/>				
	Confirm Password		<input type="text"/>				
	Privilege		Administrators ▾				
			<input type="button" value="Add"/>				
	User Accounts						
	User		Privilege				
	admin		Administrators				<input type="button" value="Delete"/>

Account	
Field Name	Explanation
Change Web Authentication Password	
You Can modify the login password to the account	
Add New User	
You can add new user	
User Accounts	
Show the existing user information	

8.3.1.3 Configurations

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Information	Export Configurations						
Account			Right click here to SAVE configurations in 'txt' format.				
Configurations			Right click here to SAVE configurations in 'xml' format.				
Upgrade	Import Configurations						
Auto Provision	Configuration file:		<input type="text"/>			<input type="button" value="Select"/>	<input type="button" value="Import"/>
Tools	Reset to factory defaults						
			Click the [Reset] button to reset the phone to factory defaults.				
			ALL USER'S DATA WILL BE LOST AFTER RESET!				
			<input type="button" value="Reset"/>				

Configurations	
Field Name	Explanation
Export Configurations	Save the equipment configuration to a txt or xml file. Please note to Right click on the choice and then choose "Save Link As."
Import Configurations	Browse to the config file, and press Update to load it to the equipment.
Reset to factory defaults	This will restore factory default and remove all configuration information.

8.3.1.4 Upgrade

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Information	Software upgrade						
Account	Current Software Version: 2.0.2.2827						
Configurations	System Image File <input type="text"/> <input type="button" value="Select"/> <input type="button" value="Upgrade"/>						
Upgrade							
Auto Provision							
Tools							

Upgrade	
Field Name	Explanation
Software upgrade	
	Browse to the firmware, and press Update to load it to the equipment.

8.3.1.5 Auto Provision

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Information	Common Settings						
Account	Current Configuration Version						
Configurations	General Configuration Version						
Upgrade	CPE Serial Number	00100400FV020010000000a8236a6ca0					
Auto Provision	Authentication Name	<input type="text"/>					
Tools	Authentication Password	<input type="text"/>					
	Configuration File Encryption Key	<input type="text"/>					
	General Configuration File Encryption Key	<input type="text"/>					
	Save Auto Provision Information	<input type="checkbox"/>					
	DHCP Option >>						
	SIP Plug and Play (PnP) >>						
	Static Provisioning Server >>						
	TR069 >>						
	<input type="button" value="Apply"/>						

Auto Provision	
Field Name	Explanation
Common Settings	
Current Configuration Version	Show the current config file's version. If the version of configuration downloaded is higher than this, the configuration will be upgraded. If the endpoints confirm the configuration by the Digest method, the configuration will not be upgraded unless it differs from the current configuration
General Configuration Version	Show the common config file's version. If the configuration downloaded and this configuration is the same, the auto provision will stop. If the endpoints confirm the configuration by the Digest method, the configuration will not be upgraded unless it differs from the current configuration.
CPE Serial Number	Serial number of the equipment
Authentication Name	Username for configuration server. Used for FTP/HTTP/HTTPS. If this is blank the phone will use anonymous
Authentication Password	Password for configuration server. Used for FTP/HTTP/HTTPS.
Configuration File Encryption Key	Encryption key for the configuration file
General Configuration File Encryption Key	Encryption key for common configuration file

DHCP Option	
Option Value	The equipment supports configuration from Option 43, Option 66, or a Custom DHCP option. It may also be disabled.
Custom Option Value	Custom option number. Must be from 128 to 254.
SIP Plug and Play (PnP)	
Enable SIP PnP	If this is enabled, the equipment 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 the phones can request their configuration.
Server Address	PnP Server Address
Server Port	PnP Server Port
Transportation Protocol	PnP Transfer protocol – UDP or TCP
Update Interval	Interval time for querying PnP server. Default is 1 hour.
Static Provisioning Server	
Server Address	Set FTP/TFTP/HTTP server IP address for auto update. The address can be an IP address or Domain name with subdirectory.
Configuration File Name	Specify configuration file name. The equipment will use its MAC ID as the config file name if this is blank.
Protocol Type	Specify the Protocol type FTP, TFTP or HTTP.
Update Interval	Specify the update interval time. Default is 1 hour.
Update Mode	<ol style="list-style-type: none"> 1. Disable – no update 2. Update after reboot – update only after reboot. 3. Update at time interval – update at periodic update interval
TR069	
Enable TR069	Enable/Disable TR069 configuration
ACS Server Type	Select Common or CTC ACS Server Type.
ACS Server URL	ACS Server URL.
ACS User	User name for ACS.
ACS Password	ACS Password.
TR069 Auto Login	Enable/Disable TR069 Auto Login.
INFORM Sending Period	Time between transmissions of “Inform” Unit is seconds.

8.3.1.6 Tools

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Information	Syslog						
Account	Enable Syslog	<input type="checkbox"/>					
Configurations	Server Address	<input type="text" value="0.0.0.0"/>					
	Server Port	<input type="text" value="514"/>					
Upgrade	APP Log Level	<input type="text" value="None"/>					
Auto Provision	SIP Log Level	<input type="text" value="None"/>					
	<input type="button" value="Apply"/>						
Tools	Network Packets Capture						
	<input type="button" value="Start"/>						
	Screenshot						
	Main Screen	<input type="button" value="Save BMP"/>					
	Reboot Phone						
	Click [Reboot] button to restart the phone!						
	<input type="button" value="Reboot"/>						

Syslog is a protocol used to record log messages using a client/server mechanism. The Syslog server receives the messages from clients, and classifies them based on priority and type. Then these messages will be written into a log by rules which the administrator has configured.

There are 8 levels of debug information.

Level 0: emergency; System is unusable. This is the highest debug info level.

Level 1: alert; Action must be taken immediately.

Level 2: critical; System is probably working incorrectly.

Level 3: error; System may not work correctly.

Level 4: warning; System may work correctly but needs attention.

Level 5: notice; It is the normal but significant condition.

Level 6: Informational; It is the normal daily messages.

Level 7: debug; Debug messages normally used by system designer. This level can only be displayed via telnet.

Tools	
Field Name	Explanation
Syslog	
Enable Syslog	Enable or disable system log.
Server Address	System log server IP address.
Server Port	System log server port.
APP Log Level	Set the level of APP log.

SIP Log Level	Set the level of SIP log.
Network Packets Capture	
Capture a packet stream from the equipment. This is normally used to troubleshoot problems.	
Reboot Phone	
Some configuration modifications require a reboot to become effective. Clicking the Reboot button will lead to reboot immediately.	
Note: Be sure to save the configuration before rebooting.	

8.3.2 Network

8.3.2.1 Basic

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Basic	Network Status						
Advanced	IP:		192.168.1.109				
VPN	Subnet mask:		255.255.255.0				
	Default gateway:		192.168.1.1				
	MAC:		00:a8:23:6a:6c:a0				
	Settings						
	Static IP <input type="radio"/>		DHCP <input checked="" type="radio"/>		PPPoE <input type="radio"/>		
	DNS Server Configured by		DHCP <input type="text" value="v"/>				
	Primary DNS Server		<input type="text" value="10.198.1.1"/>				
	Secondary DNS Server		<input type="text" value="114.114.114.114"/>				
	<input type="button" value="Apply"/>						

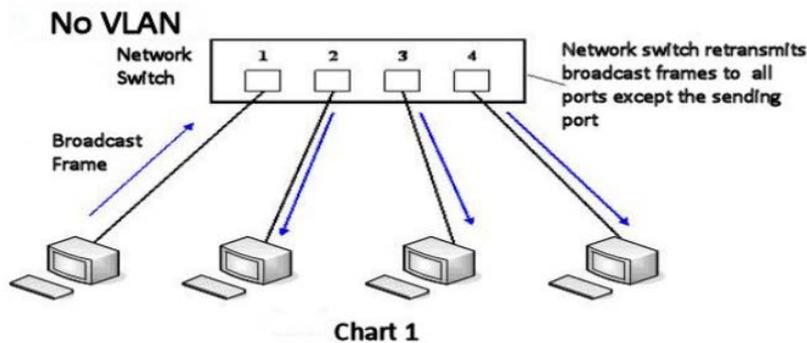
Field Name	Explanation
Network Status	
IP	The current IP address of the equipment
Subnet mask	The current Subnet Mask
Default gateway	The current Gateway IP address
MAC	The MAC address of the equipment
MAC Timestamp	Get the MAC address of time.
Settings	
Select the appropriate network mode. The equipment supports three network modes:	
Static IP	Network parameters must be entered manually and will not change. All parameters are provided by the ISP.
DHCP	Network parameters are provided automatically by a DHCP server.
PPPoE	Account and Password must be input manually. These are provided by your ISP.
If Static IP is chosen, the screen below will appear. Enter values provided by the ISP.	

DNS Server Configured by	Select the Configured mode of the DNS Server.
Primary DNS Server	Enter the server address of the Primary DNS.
Secondary DNS Server	Enter the server address of the Secondary DNS.
After entering the new settings, click the APPLY button. The equipment will save the new settings and apply them. If a new IP address was entered for the equipment, it must be used to login to the phone after clicking the APPLY button.	

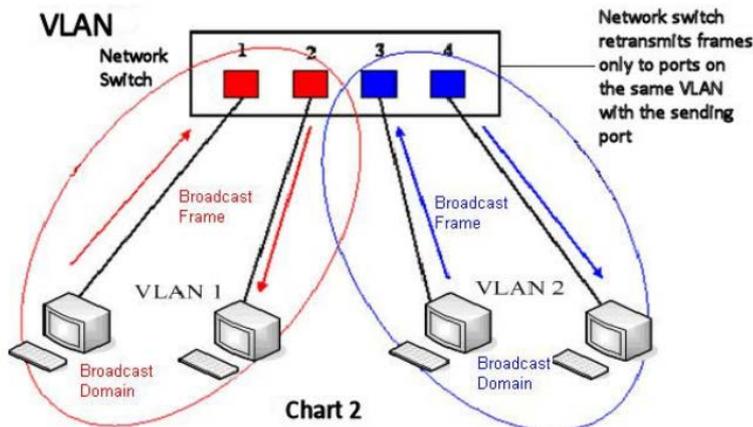
8.3.2.2 Advanced

The equipment supports 802.1Q/P protocol and DiffServ configuration. VLAN function can support the different VLAN ID mode of processing in the WAN port and LAN port.

- Chart 1 shows a network switch with no VLAN. Any broadcast frames will be transmitted to all other ports. For example, frames broadcast from Port 1 will be sent to Ports 2, 3, and 4.



- Chart 2 shows an example with two VLANs indicated by red and blue. In this example, frames broadcast from Port 1 will only go to Port 2 since Ports 3 and 4 are in a different VLAN. VLANs can be used to divide a network by restricting the transmission of broadcast frames.



Note: In practice, VLANs are distinguished by the use of VLAN IDs.

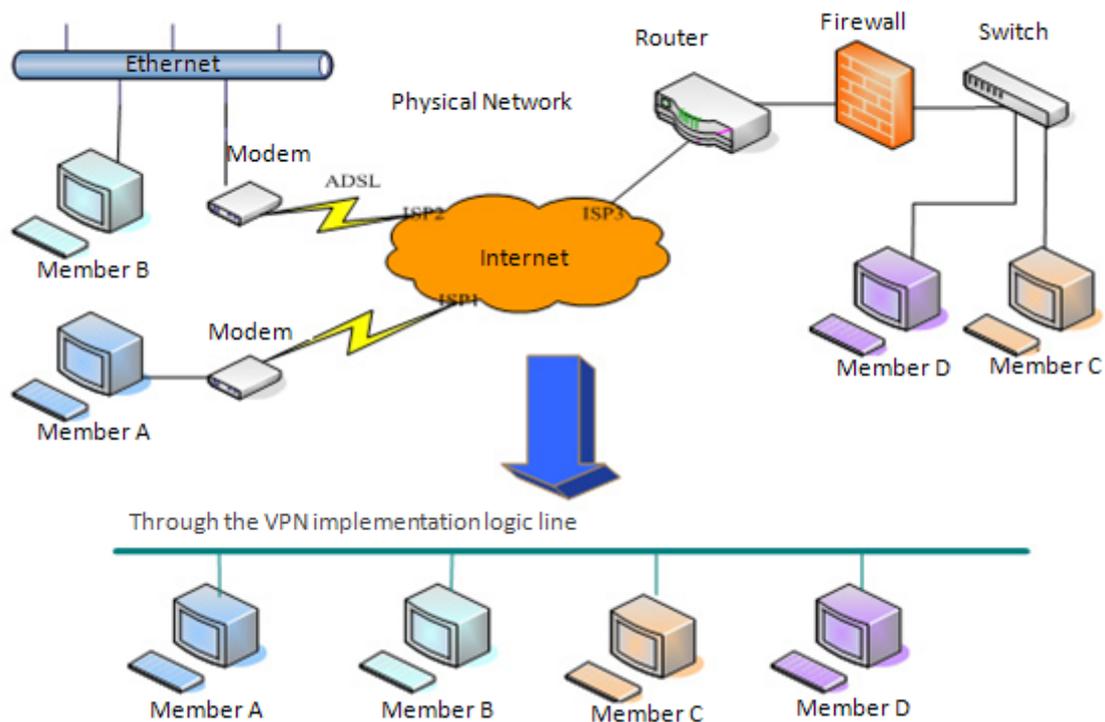
DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Basic	Link Layer Discovery Protocol (LLDP) Settings						
Advanced	Enable LLDP	<input checked="" type="checkbox"/>	Packet Interval	<input type="text" value="60"/>	(1~3600)Second		
VPN	Enable Learning Function	<input checked="" type="checkbox"/>					
VLAN Settings							
Enable VLAN	<input type="checkbox"/>	VLAN ID	<input type="text" value="256"/>	(0~4095)			
802.1p Signal Priority	<input type="text" value="0"/>	(0~7)	802.1p Media Priority	<input type="text" value="0"/>	(0~7)		
LAN Port VLAN Settings							
Mode	<input type="text" value="Disable"/>	VLAN ID	<input type="text" value="254"/>	(0~4095)			
Quality of Service (QoS) Settings							
Enable DSCP QoS	<input checked="" type="checkbox"/>	Signal QoS Priority	<input type="text" value="46"/>	(0~63)			
Media QoS Priority	<input type="text" value="46"/>	(0~63)					
802.1X Settings							
Enable 802.1X	<input type="checkbox"/>						
Username	<input type="text" value="admin"/>						
Password	<input type="password" value="••••"/>						
<input type="button" value="Apply"/>							

Advanced	
Field Name	Explanation
Link Layer Discovery Protocol (LLDP) Settings	
Enable LLDP	Enable or Disable Link Layer Discovery Protocol (LLDP)
Enable Learning Function	Enables the telephone to synchronize its VLAN data with the Network Switch. The telephone will automatically synchronize DSCP, 802.1p, and VLAN ID values even if these values differ from those provided by the LLDP server.
Packet Interval(1~3600)	The time interval for sending LLDP Packets
VLAN Settings	
Enable VLAN	Enable or Disable WAN Port VLAN
VLAN ID	Specify the value of the VLAN ID. Range is 0-4095
802.1p Signal Priority	Specify the value of the signal 802.1p priority. Range is 0-7
802.1p Media Priority	Specify the value of the voice 802.1p priority. Range is 0-7
Quality of Service (QoS) Settings	
Enable DSCP QoS	Enable or Disable Differentiated Services Code Point (DSCP)
Media QoS Priority	Specify the value of the Media DSCP in decimal
Signal QoS Priority	Specify the value of the Signal DSCP in decimal

802.1X Settings	
Enable 802.1X	Enable or Disable 802.1X
Username	802.1X user account
Password	802.1X password

8.3.2.3 VPN

The device supports remote connection via VPN. It supports both Layer 2 Tunneling Protocol (L2TP) and OpenVPN protocol. This allows users at remote locations on the public network to make secure connections to local networks.



DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Basic	Virtual Private Network (VPN) Status						
Advanced	VPN IP Address:		0.0.0.0				
VPN	VPN Mode						
Enable VPN <input type="checkbox"/>							
L2TP <input type="radio"/>			OpenVPN <input type="radio"/>				
Layer 2 Tunneling Protocol (L2TP)							
L2TP Server Address		<input type="text"/>					
Authentication Name		<input type="text"/>					
Authentication Password		<input type="text"/>					
<input type="button" value="Apply"/>							
OpenVPN Files							
OpenVPN Configuration file:	client.ovpn	N/A	<input type="button" value="Select"/>	<input type="button" value="Upload"/>	<input type="button" value="Delete"/>		
CA Root Certification:	ca.crt	N/A	<input type="button" value="Select"/>	<input type="button" value="Upload"/>	<input type="button" value="Delete"/>		
Client Certification:	client.crt	N/A	<input type="button" value="Select"/>	<input type="button" value="Upload"/>	<input type="button" value="Delete"/>		
Client Key:	client.key	N/A	<input type="button" value="Select"/>	<input type="button" value="Upload"/>	<input type="button" value="Delete"/>		

Field Name	Explanation
VPN IP Address	Shows the current VPN IP address.
VPN Mode	
Enable VPN	Enable/Disable VPN.
L2TP	Select Layer 2 Tunneling Protocol
OpenVPN	Select OpenVPN Protocol. (Only one protocol may be activated. After the selection is made, the configuration should be saved and the phone be rebooted.)
Layer 2 Tunneling Protocol (L2TP)	
L2TP Server Address	Set VPN L2TP Server IP address.
Authentication Name	Set User Name access to VPN L2TP Server.
Authentication Password	Set Password access to VPN L2TP Server.
Open VPN Files	
Upload or delete Open VPN Certification Files	

8.3.3 Line

8.3.3.1 SIP

Configure a SIP server on this page.

DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
SIP							
Dial Peer	Line <input type="text" value="SIP 1"/>						
Dial Plan	Basic Settings >>						
Basic Settings	Line Status	Inactive	SIP Proxy Server Address	<input type="text" value="172.18.1.88"/>			
	Username	<input type="text" value="8207"/>	SIP Proxy Server Port	<input type="text" value="5060"/>			
	Display name	<input type="text" value="8207"/>	Outbound proxy add.	<input type="text"/>			
	Authentication Name	<input type="text" value="8207"/>	Outbound proxy port	<input type="text"/>			
	Authentication Password	<input type="password" value="•••••"/>	Realm	<input type="text"/>			
	Activate	<input type="checkbox"/>					
	Codecs Settings >>						
Advanced Settings >>							
<input type="button" value="Apply"/>							

Codecs Settings >>	
Disabled Codecs	Enabled Codecs
<input type="text"/>	<input type="text" value="G.722"/> <input type="text" value="G.711U"/> <input type="text" value="G.711A"/> <input type="text" value="G.729AB"/>
<input type="button" value="→"/>	<input type="button" value="↑"/>
<input type="button" value="←"/>	<input type="button" value="↓"/>

Advanced Settings >>

Call Forward Unconditional	<input type="checkbox"/>	Enable Auto Answering	<input type="checkbox"/>
Call Forward Number for Unconditional	<input type="text"/>	Auto Answering Delay	<input type="text" value="5"/> Second
Call Forward on Busy	<input type="checkbox"/>	Subscribe For Voice Message	<input type="checkbox"/>
Call Forward Number for Busy	<input type="text"/>	Voice Message Number	<input type="text"/>
Call Forward on No Answer	<input type="checkbox"/>	Voice Message Subscribe Period	<input type="text" value="3600"/> Second
Call Forward Number for No Answer	<input type="text"/>	Enable Hotline	<input type="checkbox"/>
Call Forward Delay for No Answer	<input type="text" value="5"/> (0~120)Second	Hotline Number	<input type="text"/>
Hotline Delay	<input type="text" value="0"/> (0~9)Second		
Enable DND	<input type="checkbox"/>	Ring Type	<input type="text" value="Default"/> ▾
Blocking Anonymous Call	<input type="checkbox"/>	Conference Type	<input type="text" value="Local"/> ▾
Use 182 Response for Call waiting	<input type="checkbox"/>	Server Conference Number	<input type="text"/>
Anonymous Call Standard	<input type="text" value="None"/> ▾	Transfer Timeout	<input type="text" value="0"/> Second
Dial Without Registered	<input type="checkbox"/>	Enable Long Contact	<input type="checkbox"/>
Click To Talk	<input type="checkbox"/>	Enable Use Inactive Hold	<input type="checkbox"/>
User Agent	<input type="text"/>	Enable Missed Call Log	<input checked="" type="checkbox"/>
Use Quote in Display Name	<input type="checkbox"/>	Response Single Codec	<input type="checkbox"/>

Use Feature Code	<input type="checkbox"/>		
Enable DND	<input type="text"/>	DND Disabled	<input type="text"/>
Enable Call Forward Unconditional	<input type="text"/>	Disable Call Forward Unconditional	<input type="text"/>
Enable Call Forward on Busy	<input type="text"/>	Disable Call Forward on Busy	<input type="text"/>
Enable Call Forward on No Answer	<input type="text"/>	Disable Call Forward on No Answer	<input type="text"/>
Enable Blocking Anonymous Call	<input type="text"/>	Disable Blocking Anonymous Call	<input type="text"/>
Enable Send Anonymous	<input type="text"/>	Disable Send Anonymous	<input type="text"/>
Enable Call Waiting	<input type="text"/>	Disable Call Waiting	<input type="text"/>
Specific Server Type	COMM <input type="text"/>	Enable DNS SRV	<input type="checkbox"/>
Registration Expiration	3600 <input type="text"/> Second	Keep Alive Type	UDP <input type="text"/>
Use VPN	<input checked="" type="checkbox"/>	Keep Alive Interval	30 <input type="text"/> Second
Use STUN	<input type="checkbox"/>	Sync Clock Time	<input type="checkbox"/>
Convert URI	<input checked="" type="checkbox"/>	Enable Session Timer	<input type="checkbox"/>
DTMF Type	AUTO <input type="text"/>	Session Timeout	0 <input type="text"/> Second
DTMF SIP INFO Mode	Send 1 <input type="text"/>	Enable Rport	<input checked="" type="checkbox"/>
Transportation Protocol	UDP <input type="text"/>	Enable PRACK	<input checked="" type="checkbox"/>
SIP Version	RFC32 <input type="text"/>	Keep Authentication	<input type="checkbox"/>
Caller ID Header	PAI-RF <input type="text"/>	Auto TCP	<input type="checkbox"/>
Enable Strict Proxy	<input type="checkbox"/>	Enable Feature Sync	<input type="checkbox"/>
Enable user=phone	<input checked="" type="checkbox"/>	Enable GRUU	<input type="checkbox"/>
Enable SCA	<input type="checkbox"/>	BLF Server	<input type="text"/>
Enable BLF List	<input type="checkbox"/>	BLF List Number	<input type="text"/>
SIP Encryption	<input type="checkbox"/>	RTP Encryption	<input type="checkbox"/>
SIP Encryption Key	<input type="text"/>	RTP Encryption Key	<input type="text"/>

SIP	
Field Name	Explanation
Basic Settings (Choose the SIP line to configured)	
Line Status	Display the current line status at page loading. To get the up to date line status, user has to refresh the page manually.
Username	Enter the username of the service account.
Display name	Enter the display name to be sent in a call request.
Authentication Name	Enter the authentication name of the service account
Authentication Password	Enter the authentication password of the service account

Activate	Whether the service of the line should be activated
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server
SIP Proxy Server Port	Enter the SIP proxy server port, default is 5060
Outbound proxy address	Enter the IP or FQDN address of outbound proxy server provided by the service provider
Outbound proxy port	Enter the outbound proxy port, default is 5060
Realm	Enter the SIP domain if requested by the service provider
Codecs Settings	
Set the priority and availability of the codecs by adding or remove them from the list.	
Advanced Settings	
Call Forward Unconditional	Enable unconditional call forward, all incoming calls will be forwarded to the number specified in the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any incoming call will be forwarded to the number specified in the next field
Call Forward Number for Busy	Set the number of call forward on busy
Call Forward on No Answer	Enable call forward on no answer, when an incoming call is not answered within the configured delay time, the call will be forwarded to the number specified in the next field
Call Forward Number for No Answer	Set the number of call forward on no answer
Call Forward Delay for No Answer	Set the delay time of not answered call before being forwarded
Hotline Delay	Set the delay for hotline before the system automatically dialed it
Enable Auto Answering	Enable auto-answering, the incoming calls will be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification subscription

Enable Hotline	Enable hotline configuration, the device will dial to the specific number immediately at audio channel opened by off-hook handset or turn on hands-free speaker or headphone
Hotline Number	Set the hotline dialing number
Enable DND	Enable Do-not-disturb, any incoming call to this line will be rejected automatically
Blocking Anonymous Call	Reject any incoming call without presenting caller ID
Use 182 Response for Call waiting	Set the device to use 182 response code at call waiting response
Anonymous Call Standard	Set the standard to be used for anonymous
Dial Without Registered	Set call out by proxy without registration
Click To Talk	Set Click To Talk
User Agent	Set the user agent, the default is Model with Software Version.
Use Quote in Display Name	Whether to add quote in display name
Ring Type	Set the ring tone type for the line
Conference Type	Set the type of call conference, Local=set up call conference by the device itself, maximum supports two remote parties, Server=set up call conference by dialing to a conference room on the server
Server Conference Number	Set the conference room number when conference type is set to be Server
Transfer Timeout	Set the timeout of call transfer process
Enable Long Contact	Allow more parameters in contact field per RFC 3840
Enable Missed Call Log	If enabled, the phone will save missed calls into the call history record.
Response Single Codec	If setting enabled, the device will use single codec in response to an incoming call request
Use Feature Code	When this setting is enabled, the features in this section will not be handled by the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field.
Specific Server Type	Set the line to collaborate with specific server type
Registration Expiration	Set the SIP expiration interval
Use VPN	Set the line to use VPN restrict route

Use STUN	Set the line to use STUN for NAT traversal
Convert URI	Convert not digit and alphabet characters to %hh hex code
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Transportation Protocol	Set the line to use TCP or UDP for SIP transmission
SIP Version	Set the SIP version
Caller ID Header	Set the Caller ID Header
Enable Strict Proxy	Enables the use of strict routing. When the phone receives packets from the server, it will use the source IP address, not the address in via field.
Enable user=phone	Sets user=phone in SIP messages.
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
Enable BLF List	Enable/Disable BLF List
Enable DNS SRV	Set the line to use DNS SRV which will resolve the FQDN in proxy server into a service list
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION packet to keep NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Enable Session Timer	Set the line to enable call ending by session timer refreshment. The call session will be ended if there is not new session timer event update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
Keep Authentication	Keep the authentication parameters from previous authentication
Auto TCP	Using TCP protocol to guarantee usability of transport for SIP messages above 1500 bytes
Enable Feature Sync	Feature Syncn with server
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
BLF Server	The registered server will receive the subscription package from ordinary application of BLF phone. Please enter the BLF server, if the sever does not support subscription package, the registered server and subscription server will be separated.
BLF List Number	BLF List allows one BLF key to monitor the status of a group. Multiple BLF lists are supported.
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted
SIP Encryption Key	Set the pass phrase for SIP encryption

RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
RTP Encryption Key	Set the pass phrase for RTP encryption

8.3.3.2 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 (Optional)	Port (Optional)	Call Mode	Alias(Optional)	Suffix (Optional)	Deleted Length (Optional)
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 (Optional)	Port (Optional)	Call Mode	Alias(Optional)	Suffix (Optional)	Deleted Length (Optional)
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 (Optional)	Port (Optional)	Call Mode	Alias(Optional)	Suffix (Optional)	Deleted Length (Optional)
135xxxxxxxxx	0.0.0.0	5060	SIP	no alias	no suffix	0
13(5-9)xxxxxxxx	0.0.0.0	5060	SIP	no alias	no suffix	0

- * 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.
- [] 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.

DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key	
SIP	Add Dial Peer							
Dial Peer	Number	<input type="text"/>						
Dial Plan	Destination(Optional)	<input type="text"/>						
Basic Settings	Port(Optional)	<input type="text"/>						
	Alias(Optional)	<input type="text"/>						
	Call Mode	SIP <input type="text"/>						
	Suffix(Optional)	<input type="text"/>						
	Deleted Length(Optional)	<input type="text"/>						
	<input type="button" value="Apply"/>							
	Dial Peer Option							
	<input type="text" value="156"/>	<input type="button" value="Delete"/>					<input type="button" value="Modify"/>	
	Dial Peer Table							
	Number	Destination (Optional)	Port (Optional)	Call Mode	Alias(Optional)	Suffix (Optional)	Deleted Length (Optional)	
	156	192.168.1.119	5060	SIP	no alias	no suffix	0	
	135xxxxxxxx	0.0.0.0	5060	SIP	no alias	no suffix	0	
	13(5-9)xxxxxxxx	0.0.0.0	5060	SIP	no alias	no suffix	0	
	1T	0.0.0.0	5060	SIP	no alias	no suffix	0	

Dial Peer	
Field Name	Explanation
Number	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 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.
Destination	Set Destination address. This is optional config item. 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.
<p>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.</p>	

Call Mode	Select different signal protocol, SIP
Suffix	Characters to be added at the end of the phone number. It is an optional item.
Delete Length	Set the number of characters to be deleted. For example, if this is set to 3, the phone will delete the first 3 digits of the phone number. It is an optional item.

Examples of different alias application

Set by web	Explanation	Example
Number <input type="text" value="9T"/> Destination(Optional) <input type="text" value="255.255.255.255"/> Port(Optional) <input type="text"/> Alias(Optional) <input type="text" value="del"/> Call Mode <input style="border: none; border-bottom: 1px solid black; padding: 2px 5px;" type="text" value="SIP"/> Suffix(Optional) <input type="text"/> Deleted Length(Optional) <input type="text" value="1"/>	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”.
Number <input type="text" value="2"/> Destination(Optional) <input type="text"/> Port(Optional) <input type="text"/> Alias(Optional) <input type="text" value="all:33334444"/> Call Mode <input style="border: none; border-bottom: 1px solid black; padding: 2px 5px;" type="text" value="SIP"/> Suffix(Optional) <input type="text"/> Deleted Length(Optional) <input type="text"/>	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.
Number <input type="text" value="8T"/> Destination(Optional) <input type="text"/> Port(Optional) <input type="text"/> Alias(Optional) <input type="text" value="add:0755"/> Call Mode <input style="border: none; border-bottom: 1px solid black; padding: 2px 5px;" type="text" value="SIP"/> Suffix(Optional) <input type="text"/> Deleted Length(Optional) <input type="text"/>	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”.
Number <input type="text" value="010T"/> Destination(Optional) <input type="text"/> Port(Optional) <input type="text"/> Alias(Optional) <input type="text" value="red:0086"/> Call Mode <input style="border: none; border-bottom: 1px solid black; padding: 2px 5px;" type="text" value="SIP"/> Suffix(Optional) <input type="text"/> Deleted Length(Optional) <input type="text" value="3"/>	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”.

Number <input type="text" value="147"/> Destination(Optional) <input type="text"/> Port(Optional) <input type="text"/> Alias(Optional) <input type="text" value="red:0086"/> Call Mode <input type="text" value="SIP"/> <input type="button" value="v"/> Suffix(Optional) <input type="text" value="0011"/> Deleted Length(Optional) <input type="text"/>	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”.
---	---	--

8.3.3.3 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) 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, xxxxxxxx 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.

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
SIP	Basic Settings						
Dial Peer	<input checked="" type="checkbox"/> Press # to invoke dialing <input type="checkbox"/> Dial Fixed Length <input type="text" value="11"/> to Send <input checked="" type="checkbox"/> Send after <input type="text" value="5"/> Second(3~30) <input checked="" type="checkbox"/> Press # to Do Blind Transfer <input type="checkbox"/> Blind Transfer on Onhook <input checked="" type="checkbox"/> Attended Transfer on Onhook <input type="checkbox"/> Attended Transfer on Conference Onhook <input type="checkbox"/> Press DSS Key to Do Blind Transfer <input type="button" value="Apply"/>						
Dial Plan	Dial Plan Table						
Basic Settings	<input type="text"/> <input type="button" value="Add"/> <input type="text"/> <input type="button" value="Delete"/> Plans:						

Dial Plan	
Field Name	Explanation
Basic Setting	
Press # invoke dialing	Set Enable/Disable the phone ended with “#” dial.
Dial Fixed Length	Specify the Fixed Length of phone ending with.

Send after (3-30)seconds	Set the timeout of the last dial digit. The call will be sent after timeout.
Press # to Do Blind Transfer	Enable Blind Transfer On Hook, when executing Blind 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 OnHook	Enable Blind Transfer on On Hook, when executing 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 OnHook	Enable Attend Transfer on On Hook, when executing Attended Transfer, hang up after the third party answers, the phone will transfer the current call to the third party.
Attended Transfer on Conference Onhook	Attended Transfer on Conference Onhook - Hang up during a 3-way conference call, the other two ways will make a call.
Press DSS Key to Do Blind Transfer	Press DSS Key to Do Blind Transfer – When user is in the ‘XFER’ screen, user can fulfill Blind Transfer by pressing DSS Key.

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.

* Match any single digit that is dialed.

. Match any arbitrary number of digits including none.

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.

```

"RULE"
"[1-8]XXX"
"9XXXXXXXX"
"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.

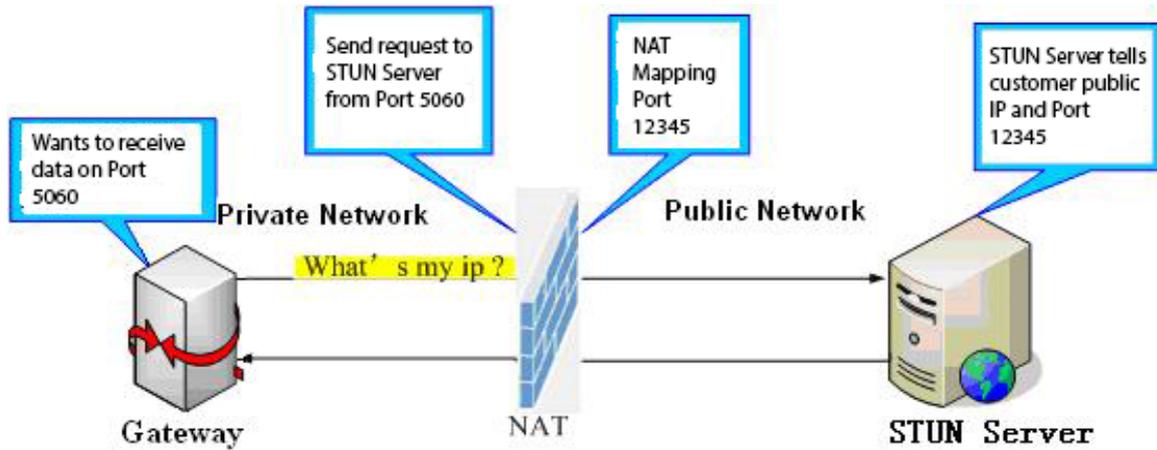
Cause 99 to be dialed after 4 seconds.

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

Notice: End with “#”, Fixed Length, Time out and Digital Map Table can be

8.3.3.4 Basic Settings

STUN – Simple Traversal of UDP through NAT –A STUN server allows a phone in a private network to know its public IP and port as well as the type of NAT being used. The equipment can then use this information to register itself to a SIP server so that it can make and receive calls while in a private network.



DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
SIP	SIP Settings						
Dial Peer	Local SIP Port			5060			
Dial Plan	Registration Failure Retry Interval			32	Second		
	SIP Invite Restrict			<input checked="" type="checkbox"/>			
Basic Settings	STUN Settings						
	STUN NAT Traversal			FALSE			
	Server Address			<input type="text"/>			
	Server Port			3478			
	Binding Period			50	Second		
	SIP Waiting Time			800	millisecond		
	<input type="button" value="Apply"/>						
	TLS Certification File:	sips.pem	N/A	<input type="button" value="Select"/>	<input type="button" value="Upload"/>	<input type="button" value="Delete"/>	

Basic Settings

Field Name	Explanation
SIP Settings	
Local SIP Port	Set the local SIP port used to send/receive SIP messages.
Registration Failure Retry Interval	Set the retry interval of SIP REGISTRATION when registration failed.
STUN Settings	
Server Address	STUN Server IP address
Server Port	STUN Server Port – Default is 3478.

Binding Period	STUN blinding period – STUN packets are sent at this interval to keep the NAT mapping active.
SIP Waiting Time	Waiting time for SIP. This will vary depending on the network.
SIP Line Using STUN(SIP1 or SIP2)	
Use STUN	Enable/Disable STUN on the selected line.
TLS Certification File	
Upload or delete the TLS certification file used for encrypted SIP transmission.	
Note: the SIP STUN is used to achieve the SIP penetration of NAT, is the realization of a service, when the equipment configuration of the STUN server IP and port (usually the default is 3478), and select the Use Stun SIP server, the use of NAT equipment to achieve penetration.	

8.3.4 Phone Setting

8.3.4.1 Features

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

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Features	Common Settings >>						
Audio	DND Mode	<input type="text" value="Phone"/>		Ban Outgoing	<input type="checkbox"/>		
MCAST	Enable Call Waiting	<input checked="" type="checkbox"/>		Enable Call Waiting Tone	<input checked="" type="checkbox"/>		
Time/Date	Auto HangUp Delay	<input type="text" value="3"/> Second		Enable Call Completion	<input type="checkbox"/>		
Advanced	Hide DTMF	<input type="text" value="Disabled"/>		Enable Pre-Dial	<input checked="" type="checkbox"/>		
Trusted Certificates	Enable Silent Mode	<input type="checkbox"/>		Disable Mute for Ring	<input type="checkbox"/>		
	Enable Intercom	<input checked="" type="checkbox"/>		Enable Intercom Mute	<input type="checkbox"/>		
	Enable Intercom Tone	<input checked="" type="checkbox"/>		Enable Intercom Barge	<input checked="" type="checkbox"/>		
	P2P IP Prefix	<input type="text" value="."/>		Ring From Headset	<input type="checkbox"/>		
	Auto Answer By Headset	<input type="checkbox"/>		DND Response Code	<input type="text" value="480(Temporarily Not Available)"/>		
	Emergency Call Number	<input type="text" value="110"/>		Busy Response Code	<input type="text" value="486(Busy Here)"/>		
	Enable Password Dial	<input type="checkbox"/>		Reject Response Code	<input type="text" value="603(Decline)"/>		
	Password Dial Prefix	<input type="text"/>		Encryption Number Length	<input type="text" value="0"/> (0~31)		
	Enable Phone DND	<input type="checkbox"/>		Push XML Server	<input type="text"/>		
	Restrict Active URI Source IP	<input type="text"/>		Enable Multi Line	<input checked="" type="checkbox"/>		
	Allow IP Call	<input checked="" type="checkbox"/>		Enable Default Line	<input type="checkbox"/>		
	Play Dialing DTMF Tone	<input checked="" type="checkbox"/>		Enable Auto Switch Line	<input checked="" type="checkbox"/>		
	Play Talking DTMF Tone	<input checked="" type="checkbox"/>					
	Caller ID Display Priority	<input type="text" value="Phonebook(Contact name)"/>					
	Hotline Number	<input type="text"/>		Hotline Delay	<input type="text" value="0"/> Second(0~9)		
		<input type="button" value="Apply"/>					

Common Settings	
Field Name	Explanation
DND Mode	DND might be disabled phone for all SIP lines, or line for SIP individually. But the outgoing calls will not be affected
Ban Outgoing	If enabled, no outgoing calls can be made.
Enable Call Waiting	Enable this setting to allow user to take second incoming call during an established call. Default enabled.
Enable Call Waiting Tone	Turn off this feature, and you will not hear a 'beep' sound in talking mode when there is another incoming call
Auto HangUp Delay	Set the Auto HangUp Delay time.
Enable Call Completion	Enable Call Completion by selecting it.
Hide DTMF	Specify the hide DTMF mode.
Enable Pre-Dial	Enable Pre-Dial by selecting it
Enable Silent Mode	Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.
Disable Mute for Ring	Disable Mute for Ring
Enable Intercom	Enable Intercom by selecting it
Enable Intercom Mute	If enabled, mutes incoming calls during an intercom call.
Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone.
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom 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 is ".". If there is no "." Set, it means to disable dialing IP.
Auto Answer By Headset	When this item is checked, the device will auto-answer phone calls by headset if the auto-answer or intercom is enabled.
Ring From Headset	Enable Ring From Handset by selecting it, the phone plays ring tone from handset.
Emergency Call Number	Specify the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number.
DND Response	Specify DND Return code.

Code	
Enable Password Dial	Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers After the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For 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.
Busy Response Code	Specify Busy Return Code.
Password Dial Prefix	Specify the prefix of the password call number.
Reject Response Code	Specify Reject Return Code.
Enable Phone DND	Enable Phone DND
Encryption Number Length	Set the Encryption Number Length.
Restrict Active URI Source IP	Specify the server IP that remote control phone for corresponding operation.
Push XML Server	Specify the Push XML Server, when phone receives request, it will determine whether to display corresponding content on the phone which sent by the specified server or not.
Allow IP Call	Set the Enable or Disable IP Call.
Enable Multi Line	Set the Enable or Disable Multi Line.
Play Dialing DTMF Tone	Set the Enable or Disable Play Dialing DTMF Tone.
Enable Default Line	Set the Enable or Disable Default Line.
Play Talking DTMF Tone	Set the Enable or Disable Play Talking DTMF Tone.
Enable Auto Switch Line	Set the Enable or Disable Auto Switch Line.
Caller ID Display Priority	Set the Caller ID Display Priority
Hotline Number	Set the Hot line Number
Hotline Delay	Set the Hot line Delay time.
Action URL Event Settings	
Specify the Action URL that Record the operation of phone; send this corresponding information to server, url: http://InternalServer /FileName.xml ? (Internal Server is server IP. Filename is name of xml that contains the action message).	

8.3.4.2 Audio

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

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Features	Audio Settings						
Audio	First Codec	<input type="text" value="G.722"/>		Second Codec	<input type="text" value="G.711"/>		
MCAST	Third Codec	<input type="text" value="G.711"/>		Fourth Codec	<input type="text" value="G.729"/>		
Time/Date	Fifth Codec	<input type="text" value="None"/>		Sixth Codec	<input type="text" value="None"/>		
Advanced	Onhook Time	<input type="text" value="200"/>	millisecond	Tone Standard	<input type="text" value="United"/>		
Trusted Certificates	Handset Volume	<input type="text" value="5"/>	(1~9)	Default Ring Type	<input type="text" value="Type 1"/>		
	Speakerphone Volume	<input type="text" value="5"/>	(1~9)	Headset Ring Volume	<input type="text" value="5"/>	(0~9)	
	Headset Volume	<input type="text" value="5"/>	(1~9)	Speakerphone Ring Volume	<input type="text" value="5"/>	(0~9)	
	Headset Volume Offset	<input type="text" value="6"/>	(dB)	Headset Mic Offset	<input type="text" value="-6"/>	(dB)	
	G.729AB Payload Length	<input type="text" value="20ms"/>		G.723.1 Bit Rate	<input type="text" value="6.3kb"/>		
	G.722 Timestamps	<input type="text" value="160/2"/>		DTMF Payload Type	<input type="text" value="101"/>	(96~127)	
	Enable VAD	<input type="checkbox"/>		Enable MWI Tone	<input checked="" type="checkbox"/>		
	EHS Type	<input type="text" value="None"/>					
	<input type="button" value="Apply"/>						
	Alert Info Ring Settings						

Audio Setting	
Field Name	Explanation
First Codec	The first codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB
Second Codec	The second codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB, None
Third Codec	The third codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB, None
Fourth Codec	The forth codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB, None
Fifth Codec	The third codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB, None
Sixth Codec	The forth codec choice: G.711A/U, G.722, G.723.1, G.726-32, G.729AB, None
Onhook Time	Specify the least reflection time of Hand down, the default is 200ms.
Tone Standard	Configure tone standard area.
Handset Volume	Set the Headset calls the volume level.
Default Ring Type	Ring Sound – There are 9 standard types and 3 User types.
Speakerphone Volume	Set the speaker calls the volume level.
Headset Ring	Set the Headset ring the volume grade.

Volume	
Headset Volume	Set the headset calls the volume level.
Speakerphone Ring Volume	Set the speaker ring the volume grade.
Headset Volume Offset	Set the headset the Volume the Offset.
Headset Mic Offset	Set the headset MIC the Offset.
G.729AB Payload Length	G.729AB Payload Length – Adjusts from 10 – 60 mSec.
G.723.1 Bit Rate	Choices are 5.3kb/s or 6.3kb/s.
G.722 Timestamps	Choices are 160/20ms or 320/20ms.
DTMF Payload Type	Choices are 160/20ms or 320/20ms.
Enable VAD	Enable or disable Voice Activity Detection (VAD). If VAD is enabled, G729 Payload length cannot be set greater than 20 mSec.
Enable MWI Tone	Enable MWI Tone by selecting it
EHS Type	Enable EHS Type by selecting it

8.3.4.3 MCAST

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Features	MCAST Settings						
Audio	Priority	1					
MCAST	Enable Page Priority	<input type="checkbox"/>					
Time/Date	Index/Priority	Name	Host:port				
Advanced	1	<input type="text"/>	<input type="text"/>				
Trusted Certificates	2	<input type="text"/>	<input type="text"/>				
	3	<input type="text"/>	<input type="text"/>				
	4	<input type="text"/>	<input type="text"/>				
	5	<input type="text"/>	<input type="text"/>				
	6	<input type="text"/>	<input type="text"/>				
	7	<input type="text"/>	<input type="text"/>				
	8	<input type="text"/>	<input type="text"/>				
	9	<input type="text"/>	<input type="text"/>				
	10	<input type="text"/>	<input type="text"/>				
	Apply						

It is easy and convenient to use multicast function to send notice to each member of the multicast via setting the multicast key on the device and sending multicast RTP stream to pre-configured multicast address. By configuring monitoring multicast address on the

device, monitor and play the RTP stream which sent by the multicast address.

MCAST Settings

Equipment can be set up to monitor up to 10 different multicast addresses, used to receive the multicast RTP stream sent by the multicast address.

Here are the ways to change equipment receiving multicast RTP stream processing mode in the Web interface: set the ordinary priority and enable page priority.

- Priority:

In the drop-down box to choose priority of ordinary calls the priority, if the priority of the incoming flows of multicast RTP, lower precedence than the current common calls, device will automatically ignore the group RTP stream. If the priority of the incoming flow of multicast RTP is higher than the current common calls priority, device will automatically receive the group RTP stream, and keep the current common calls in state. You can also choose to disable in the receiving threshold drop-down box, the device will automatically ignore all local network multicast RTP stream.

- The options are as follows:

- ✧ 1-10: To definite the priority of the common calls, 1 is the top level while 10 is the lowest
- ✧ Disable: ignore all incoming multicast RTP stream
- ✧ Enable the page priority:

Page priority determines the device how to deal with the new receiving multicast RTP stream when it is in multicast session currently. When Page priority switch is enabled, the device will automatically ignore the low priority multicast RTP stream but receive top-level priority multicast RTP stream, and keep the current multicast session in state; If it is not enabled, the device will automatically ignore all receiving multicast RTP stream.

- Web Settings:

Index/Priority	Name	Host:port
1	ss	239.1.1.1:1366
2	ee	239.1.1.1:1367

The multicast SS priority is higher than that of EE, which is the highest priority.

Note: when pressing the multicast key for multicast session, both multicast sender and receiver will beep.

Index/Priority	Name	Host:port
1	group 1	224.0.0.2:2366
2	group 2	224.0.0.2:1366
3	group 3	224.0.0.6:3366
4		
5		
6		
7		
8		
9		
10		

- **Blue part (name)**

"Group 1", "Group 2" and "Group 3" are your setting monitoring multicast name. The group name will be displayed on the screen when you answer the multicast. If you have not set, the screen will display the IP: port directly.

- **Purple part (host: port)**

It is a set of addresses and ports to listen, separated by a colon.

- **Pink part (index / priority)**

Multicast is a sign of listening, but also the monitoring multicast priority. The smaller number refers to higher priority.

- **Red part (priority)**

It is the general call, non multicast call priority. The smaller number refers to high priority. The followings will explain how to use this option:

- ✧ The purpose of setting monitoring multicast "Group 1" or "Group 2" or "Group 3" launched a multicast call.
- ✧ All equipment has one or more common non multicast communication.
- ✧ When you set the Priority for the disable, multicast any level will not answer, multicast call is rejected.
- ✧ when you set the Priority to a value, only higher than the priority of multicast can come in, if you set the Priority is 3, group 2 and group 3 for priority level equal to 3 and less than 3 were rejected, 1 priority is 2 higher than ordinary call priority device can answer the multicast message at the same time, keep the hold the other call.

- **Green part (Enable Page priority)**

Set whether to open more priority is the priority of multicast, multicast is pink part number. Explain how to use:

- ✧ The purpose of setting monitoring multicast "group 1" or "3" set up listening "group of 1" or "3" multicast address multicast call.
- ✧ All equipment has been a path or multi-path multicast phone, such as listening to "multicast information group 2".
- ✧ If multicast is a new "group of 1", because "the priority group 1" is 2, higher than the

current call "priority group 2" 3, so multicast call will can come in.

- ✧ If multicast is a new "group of 3", because "the priority group 3" is 4, lower than the current call "priority group 2" 3, "1" will listen to the equipment and maintain the "group of 2".

Multicast service

- **Send:** when configured ok, our key press shell on the corresponding equipment, equipment directly into the Talking interface, the premise is to ensure no current multicast call and 3-way of the case, the multicast can be established.
- **Lmonitor:** IP port and priority configuration monitoring device, when the call is initiated and incoming multicast, directly into the Talking interface equipment.

8.3.4.4 Time/Date

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Features	Network Time Server Settings						
Audio	Time Synchronized via SNTP	<input checked="" type="checkbox"/>					
MCAST	Time Synchronized via DHCP	<input type="checkbox"/>					
Time/Date	Primary Time Server	<input type="text" value="time.nist.gov"/>					
	Secondary Time Server	<input type="text" value="pool.ntp.org"/>					
Advanced	Time zone	<input type="text" value="(UTC+8) China,Singapore,Australi"/>					
Trusted Certificates	Resync Period	<input type="text" value="60"/>	Second(s)				
	Date Format						
	12-hour clock	<input type="checkbox"/>					
	Date Format	<input type="text" value="1 JAN MON"/>					
<input type="button" value="Apply"/>							
	Daylight Saving Time Settings						
	Location	<input type="text" value="China(Beijing)"/>					
	DST Set Type	<input type="text" value="Automatic"/>					
	Fixed Type	<input type="text" value="Disabled"/>					
	Offset	<input type="text" value="0"/>	Minute				
		Start	End				
	Month	<input type="text" value="January"/>	<input type="text" value="January"/>				
	Week	<input type="text" value="1"/>	<input type="text" value="1"/>				
	Weekday	<input type="text" value="Sunday"/>	<input type="text" value="Sunday"/>				
	Hour	<input type="text" value="0"/>	<input type="text" value="0"/>				
<input type="button" value="Apply"/>							
	Manual Time Settings						
	<input type="text" value="2016-10-17"/>	<input type="text" value="9"/>	<input type="text" value="47"/>	<input type="button" value="Apply"/>			

Time/Date	
Field Name	Explanation
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Primary Time Server	Set primary time server address
Secondary Time Server	Set secondary time server address, when primary server is not reachable, the device will try to connect to secondary time server to get time synchronization.
Time zone	Select the time zone
Resync Period	Time of re-synchronization with time server
Date Format	
12-hour clock	Set the time display in 12-hour mode
Date Format	Select the time/date display format
Daylight Saving Time Settings	
Location	Select the user's time zone specific area
DST Set Type	Select automatic DST according to the preset rules of DST, or the manually input rules
Offset	The DST offset time
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour
Manual Time Settings	
The time set by hand, need to disable SNTP service first.	

8.3.4.5 Advanced

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key	
Features	Screen Configuration							
Audio	Enable Energysaving	<input checked="" type="checkbox"/>						
MCAST	Backlight Time	<input type="text" value="30"/>	(0~3600)Second					
Time/Date	<input type="button" value="Apply"/>							
Advanced	LCD Menu Password Settings							
Trusted Certificates	Menu Password	<input type="text" value="●●●"/>					<input type="button" value="Apply"/>	
	Keyboard Lock Settings							
	PIN to Lock	<input type="text"/>					<input type="button" value="Apply"/>	
	Keyboard Password	<input type="text" value="●●●"/>					<input type="button" value="Apply"/>	
	Enable Keyboard Lock	<input type="checkbox"/>					<input type="button" value="Apply"/>	
	Greeting Words							
	Greeting Words	<input type="text" value="VOIP PHONE"/>	(0~12 character(s))					<input type="button" value="Apply"/>

Advanced	
Field Name	Explanation
Screen Configuration	
Enable Energysaving	Enable Energysaving by selecting it.
Backlight Time	Set the Backlight Time.
LCD Menu Password Settings	
Menu Password	Set the password for entering the Advanced setting menu of the phone. The password is digit. The password is 123 by default.
Keyboard Lock Settings	
PIN to Lock	Set the PIN to Lock.
Keyboard Password	Set the password for entering the setting menu of the phone by the phone's key board. The password is digit.
Enable Keyboard Lock	Enable Keyboard Lock by selecting it.
Greeting Words	
The greeting message will display on the top left corner of the LCD when the device is idle, which is limited to 16 characters. The default chars are 'VOIP PHONE'.	

8.3.4.6 Trusted Certificates

User may Update or Delete Certificates File in this webpage.

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Features	Update Trusted Certificates File						
Audio	Load Trusted Certificates File <input type="text"/> <input type="button" value="Select"/> <input type="button" value="Upgrade"/>						
MCAST	Delete Trusted Certificates File						
Time/Date	Select Trusted Certificates File <input type="text"/> <input type="button" value="Delete"/>						
Advanced	Trusted Certificates File						
Trusted Certificates	Trusted Certificates Settings						
	CA Certificates <input type="text" value="Disabled"/> <input type="button" value="Apply"/>						

8.3.5 Phonebook

8.3.5.1 Contacts

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Contacts	Contact List						
Cloud phonebook	<input type="button" value="Add new contact"/> <input type="button" value="Delete"/> <input type="button" value="Delete All"/>						
Blacklist	Group: <input type="text" value="All"/> <input type="button" value="Previous"/> Page: <input type="text"/> <input type="button" value="Next"/>						
Advanced	<input type="checkbox"/> Index <input type="checkbox"/> Name ▲ <input type="checkbox"/> Phone <input type="checkbox"/> Phone2 <input type="checkbox"/> Phone3 <input type="checkbox"/> Ring <input type="checkbox"/> Group <input type="checkbox"/> Edit						
	<input type="text" value="10"/> Entries per page <input type="button" value="Add to Group"/> <input type="button" value="Sort by phone3"/>						

User can add, delete, or edit contacts in the phonebook in this page. User can browse the phonebook and sorting it by name, phones, or filter them out by group.

To add a new contact, user should enter contact’s information and press “Add” button to add it.

To edit a contact, click on the checkbox in front of the contact, the contact information will be copied to the contact edit boxes, press “Modify” button after finished editing.

To delete one or multiple contacts, check on the checkbox in front of the contacts wished to be deleted and click the “Delete” button, or click the “Clear” button with selecting any contacts to clear the phonebook.

User can also add multiple contacts into a group by selecting the group in the dropdown options in front of “Add to Group” button at the bottom of the contact list, selecting contacts with checkbox and click “Add to Group” to add selected contacts into the group.

Similarly, user can select multiple users and add them into blacklist by click “Add to Blacklist” button.

8.3.5.2 Cloud phonebook

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Contacts	Manage Cloud Phonebooks						
Cloud phonebook	Index	Cloud phonebook name	Cloud phonebook URL	Line	Authentication Name	Authentication Password	
Blacklist	1	<input type="text"/>	<input type="text"/>	Default ▾	<input type="text"/>	<input type="text"/>	
Advanced	2	<input type="text"/>	<input type="text"/>	Default ▾	<input type="text"/>	<input type="text"/>	
	3	<input type="text"/>	<input type="text"/>	Default ▾	<input type="text"/>	<input type="text"/>	
	4	<input type="text"/>	<input type="text"/>	Default ▾	<input type="text"/>	<input type="text"/>	
	5	<input type="text"/>	<input type="text"/>	Default ▾	<input type="text"/>	<input type="text"/>	
	6	<input type="text"/>	<input type="text"/>	Default ▾	<input type="text"/>	<input type="text"/>	
	7	<input type="text"/>	<input type="text"/>	Default ▾	<input type="text"/>	<input type="text"/>	
	8	<input type="text"/>	<input type="text"/>	Default ▾	<input type="text"/>	<input type="text"/>	
	<input type="button" value="Apply"/>						
	LDAP Settings >>						
	Call logsSettings >>						
	Broadsoft DirectorySettings >>						

Cloud phonebook	
Field Name	Explanation
Manage Cloud Phonebooks	
<p>User may configure up to 8 cloud phonebooks. Each cloud phonebook must be configured with an URL where an XML phonebook is stored. The URL may be based on HTTP/HTTPs or FTP protocol with or without authentication. If authentication is required, user must configure the username and password.</p> <p>To configure a cloud phonebook, the following information should be entered,</p> <ul style="list-style-type: none"> ➤ Phonebook name (must) ➤ Phonebook URL (must) ➤ Access username (optional) ➤ Access password (optional) 	
LDAP Settings	
<p>The cloud phonebook allows user to retrieve contact list from a LDAP Server through LDAP protocols.</p> <p>User must configure the LDAP Server information and Search Base to be able to use it on the device. If the LDAP server requests an authentication, user should also provide username and password.</p> <p>To configure a LDAP phonebook, the following information should be entered,</p> <ul style="list-style-type: none"> ➤ Display Title (must) ➤ LDAP Server Address (must) ➤ LDAP Server Port (must) 	

- Search Base (must)
- Access username (optional)
- Access password (optional)

8.3.5.3 Blacklist

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key	
Contacts	Restricted Incoming Calls							
Cloud phonebook						Add	Delete	Delete All
Blacklist	<input type="checkbox"/>	Caller ID		Block on Line		Type		
Advanced	Restricted Outgoing Calls							
						Add	Delete	Delete All
	<input type="checkbox"/>	Caller ID		Type				

By adding a number into the blacklist, user will no longer receive phone call from that number and it will be rejected automatically by the device until user delete it from the blacklist.

User can add specific number to be blocked, or a prefix where any numbers matched the prefix will all be blocked.

8.3.5.4 Advanced

DPH-150SE //	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key	
Contacts	Import Contact List							
Cloud phonebook	Select File:				Select	(*.xml,*.vcf,*.csv) Upload		
Blacklist	Export Contact List							
Advanced	Export XML		Export CSV		Export VCF			
	Group List							
						Add contact group	Delete	Delete All
	<input type="checkbox"/>	Group Name						

Advanced

Field Name	Explanation
Import Contact List	
	User can also import contacts into phonebook from an xml, csv, or vcf file.
Export Contact List	
	User may export current phonebook in xml, csv, or vcf format file and save it locally on a computer.
Group List	
	User can add new group in this page or delete an existing one. Deleting a contact group will not delete the contacts in that group.

8.3.6 Call logs

DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Call Information							
Call Type: All				Previous		Page: 1	Next
<input type="checkbox"/>	Index	Time	Call Type	Caller ID	Contact Name	Duration	Line Add to phonebook
10 Entries per page				Delete		Delete All Add to Blacklist	

User can browse complete call logs in this page, order the call logs by time, caller ID, contact name, duration, or line, and can also filter the call logs by the call log types, in, out, missed, or all.

User can save a call log into his/her phonebook or add it to the blacklist.

User can also make web call by click on the number of a call log.

8.3.7 Function Key

8.3.7.1 Function Key

The device provides 14 user-define DSS Keys at most. User may configure/customize each DSS key in this webpage.

DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Function Key Settings							
Reset BLF Transfer Type				Make a New Call		Apply	
DSS LCD Page Settings				Add New Page		Delete Page2	
Key	Type	Name	Value	Line	Subtype	PickUp Number	
DSS Key 1-1	Line			SIP1	None		
DSS Key 1-2	Line			SIP2	None		
DSS Key 1-3	Key Event			Auto	MWI		
DSS Key 1-4	Key Event			Auto	Headset		
DSS Key 1-5	None			Auto	None		
DSS Key 1-6	None			Auto	None		
DSS Key 1-7	None			Auto	None		
DSS Key 2-1	None			Auto	None		
DSS Key 2-2	None			Auto	None		
DSS Key 2-3	None			Auto	None		
DSS Key 2-4	None			Auto	None		
DSS Key 2-5	None			Auto	None		
DSS Key 2-6	None			Auto	None		
DSS Key 2-7	None			Auto	None		
Apply							

Programmable Key Settings				
Key	Desktop	Dialer	Calling	Desktop Long Pressed
Up	Call logs	Prev Line(Prev.)	Prev. Call	Status
Down	Status	Next Line(Next)	Next Call	None
Left	Pre Account	None	Volume Down	None
Right	Next Account	None	Volume Up	Speed Dial
OK	Main Menu	None	None	None
Apply				

Function Key	
Field Name	Explanation
Function Key Settings	
Memory Key	<p>BLF(NEW CALL/BXFE /AXFER): It is used to prompt user the state of the subscribe extension, and it can also pick up the subscribed number, which help user monitor the state of subscribe extension (idle, ringing, a call). There are 3 types for one-touch BLF transfer method.</p> <p>p.s. User should enter the pick-up number for specific BLF key to fulfill the pick-up operation.</p> <p>Presence: Compared to BLF, the Presence is also able to view whether the user is online.</p> <p>Note: You cannot subscribe the same number for BLF and Presence at the same time</p> <p>Speed Dial: You can call the number directly which you set. This feature is convenient for you to dial the number which you frequently dialed.</p> <p>Intercom: This feature allows the operator or the secretary to connect the phone quickly; it is widely used in office environments.</p>
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Key Event	User can select a key event as a shortcut to trigger. For example: MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
Multicast	Configure the multicast address and audio codec. User presses the key to initiate the multicast.

8.3.7.2 EXT Key

The device support 3 Extension module. User may configure/customize each DSS key in this webpage.

DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Function Key	Expansion Module Selection						
EXT Key	Expansion Module 1					Load	Not Connected
Softkey	Key	Type	Value	Line	Subtype	PickUp Number	
	F 1	None		Auto	None		
	F 2	None		Auto	None		
	F 3	None		Auto	None		
	F 4	None		Auto	None		
	F 5	None		Auto	None		
	F 6	None		Auto	None		
	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		

8.3.7.3 Softkey

User can configure different functions in different screens for each softkey.

DPH-150SE	System	Network	Line	Phone settings	Phonebook	Call logs	Function Key
Function Key	SoftKey Settings						
EXT Key	Softkey Mode	More					
Softkey	Screen	Call Dialer					
	Unselected Softkeys			Selected Softkeys			
	None Call Back Clear In Join Missed MWI Next Line(Next) Dialed Pause Phonebook(Dir) Pickup Prev Line(Prev.) Redial Remote XML(R-XML)			Delete History Dial Exit			
				<input type="button" value="→"/> <input type="button" value="←"/>		<input type="button" value="↑"/> <input type="button" value="↓"/>	
	<input type="button" value="Apply"/>						

9 Appendix

9.1 Specification

9.1.1 Hardware

Item	DPH-150S/DPH-150SE	
Adapter (Input / Output)	Input: 100-240V Output: 5V 0.6A DC	
Port	WAN	10/100Base-T RJ45 1 PORT
	LAN	10/100Base-T RJ45 1 PORT
	EXY	RJ-11 PORT
	Headset	RJ-9 PORT
Power Consumption	Typical: 1.3 Watt (Standby) Max.: 4.3 Watt (Talking)	
LCD size	320x240,TFT color LCD, 2.8"	
Operation Temperature	0~40 °C	
Relative Humidity	10~65%	
CPU	Broadcom VoIP chipset	
SDRAM	16MB	
Flash	8MB	
Dimension(L x W x H)	26 x 25x 6.2cm	
Weight	1.01Kg	

9.1.2 Voice features

- SIP supports 4 SIP servers
- Support SIP 2.0 (RFC3261) and correlative RFCs
- Codec: G.711A/u, G.723.1 high/low, G.729a/b, G.722, G.726
- 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.
- 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 300 records.
- 7x4 DSS keys
- Soft keys programmable, function keys programmable
- Code synchronization via IP PBX/IMS
- Support click to dial via web phone book/Group listening
- 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 MWI
- Support Speed dial
- Support XML

9.1.3 Network features

- WAN/LAN: support bridge model
- Support PPPoE for xDSL
- Support basic NAT and NAPT
- Support VLAN (optional: voice vlan/ data vlan)
- NAT Penetrate, Stun Penetrate
- Support DMZ

- Support VPN (L2TP/OPEN VPN) 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
- Support DHCP server on LAN
- QoS with DiffServ
- Network tools in telnet server: including ping, trace route, telnet client

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, FTP or TFTP Telnet remote management/upload/download setting file
- Support Syslog
- Support Auto Provisioning (upgrade firmware or configuration file)

9.2 Digit-character map table

Keypad	Character	Keypad	Character
			7 P Q R S p q r s
	2 A B C a b c		8 T U V t u v
	3 D E F d e f		9 W X Y Z w x
	4 G H J g h i		* .
	5 J K L j k l		0
	6 M N O m n o		#