



NRP2000/W IP Phone User Manual

Version: 2.0

2017-08

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1 Overview of NRP2000/W



NRP2000/W

1.1 Interface

Power Input	DC 5V-1000mA or PoE
LAN Port	RJ45
PC Port	RJ45
Headset Jack	RJ9
Handset Jack	RJ9

1.2 Hardware

LCD	132*52
CPU	400MHz Dual-Core
LED Indicator	1 Status Light

1.3 Software

- SIP 2.0 (RFC3261) and other related SIP RFCs
- 1 SIP account registered
- STUN
- Jitter Buffer, VAD,CNG
- G711A, G711U, G722, G726-16, G726-24, G726-32, G726-40, G729, L16, iLBC_13_3, iLBC_15_2
- Echo Cancellation
- SIP Domain name, Authentication and Backup SIP Server
- DTMF (RFC2833, In-band, SIP INFO)
- Call transfer, Call forward, 3-way conference, Call hold, Call back
- DND(Do Not Disturb), Auto answer, Blacklists, Block Call-ID, Block Anonymous call, Dial plan, IP-to-IP call
- Phone book with 400 contacts and 200 blacklists
- Call History with 400 records including answered calls, missed calls, dialed calls and forwarded calls
- Auto update via HTTP, HTTPS, FTP, TFTP, DHCP, RPS and PNP
- Syslog
- SNTP,NTP
- Customized Ringtone
- Daylight Saving time
- VLAN, OpenVPN, Span to PC port, QoS
- 802.1X, LLDP
- Enterprise Wi-Fi
- Web access with different login level
- Soft button: soft button *3
- Redundant SIP server
- Multi-language: English, French, Hebrew, Russian, Spanish, Chinese, Persian, Polish, Portuguese, Turkish, German, Italian

1.4 Network

- LAN/PC: Support Bridge mode
- Support VLAN
- Support OpenVPN
- Support DHCP, STATIC IP address
- Primary/Secondary DNS Server
- Support QoS
- Support LLDP
- Support 802.1X
- Support Span PC port
- Support Enterprise Wi-Fi
- Web access via HTTP&HTTPS

1.5 Management and Maintenance

- Support firmware updating under safe mode
- Support different level user management
- Configuration via Web and keyboard
- Support multi-language
- Firmware and configuration file auto provisioning
- Support system log

1.6 Protocol

- IEEE 802.3/802.3u 10Base-T/100Base-TX
- DHCP: Dynamic Host Configuration Protocol
- SIP RFC3261, RFC3262, RFC3263, RFC3264, RFC3265, RFC2543, RFC3489, RFC3842, RFC3515, RFC2976, RFC3428, RFC2327, RFC2782, RFC1889
- TCP/IP: Transfer Control Protocol/Internet Protocol
- RTP: Real-time Transport Protocol
- RTCP: RTP Control Protocol
- DNS: Domain Name Server
- TFTP: Trivial File Transfer Protocol
- HTTP: Hypertext Transfer Protocol
- FTP: File Transfer Protocol

1.7 Compliant and Certified Standard

- CE: AGC01180140201E2, AGC01180140202E2
- Comply with RoHS in EU
- Comply with RoHS in China



- Operation temperature: lower than 60°C
- Storage temperature: lower than 60°C
- Humidity: 10% to 90% no dew

1.8 Packing list

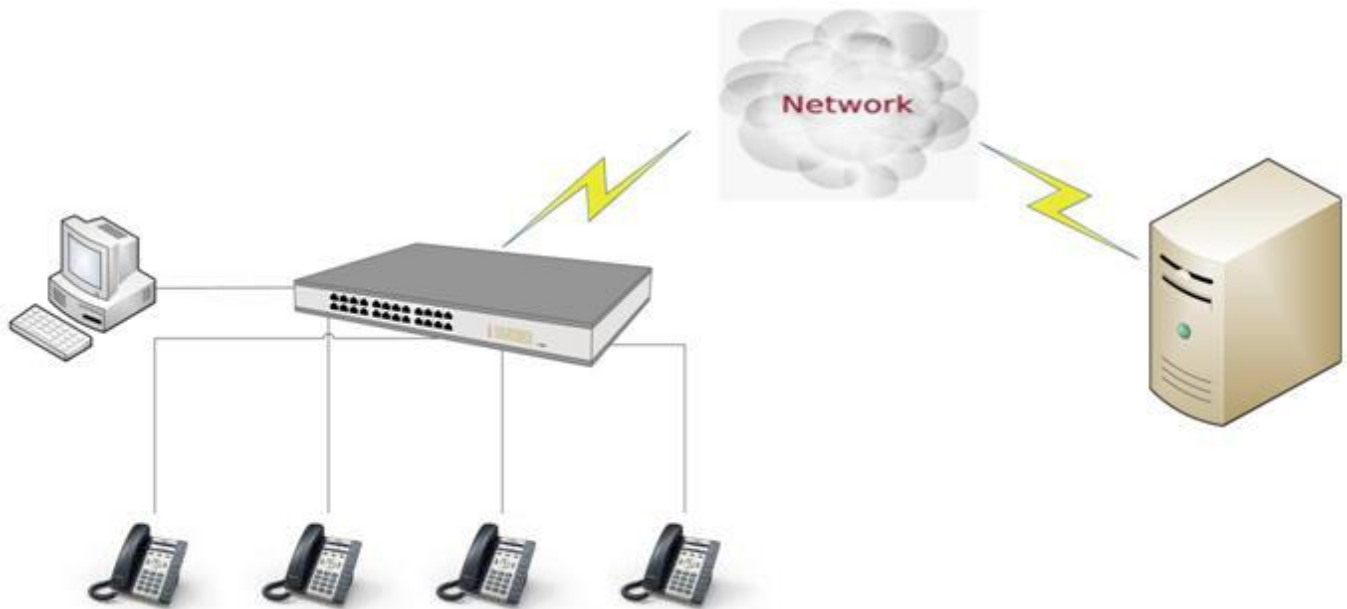
Model	NRP2000/W
Telephone	1 Unit
Handset	1 Unit
Handset cable	1 Unit
Stand bracket	1 Unit
Wall bracket	1 Unit

Power adapter	1 Unit
Network Cable	1 Unit, 1.5 meters
Quick Start Guide	1 Unit
Headset	Optional

1.9 Installation

Connecting Network Cable

NRP2000/W connects with network via LAN port. Under the Bridge mode, other devices (Laptop, IP phone) may access network via connecting to the PC port of NRP2000/W.

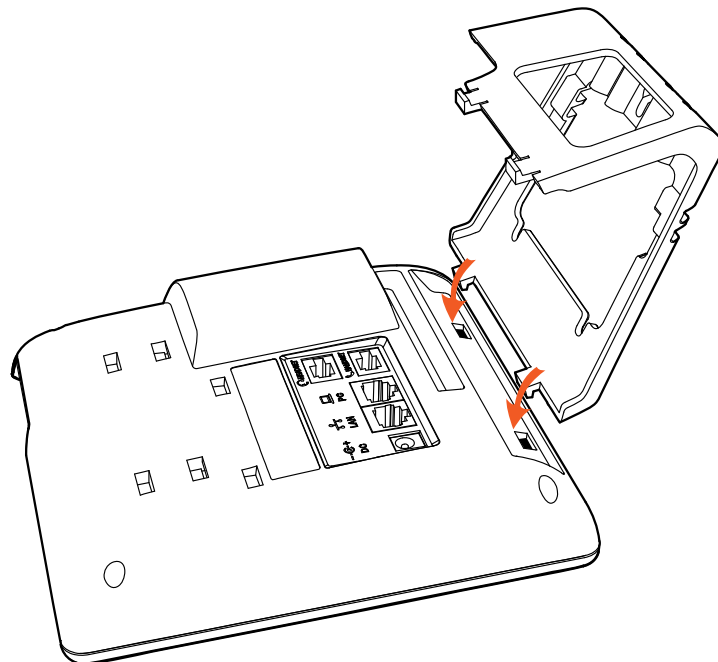


Connect Wi-Fi

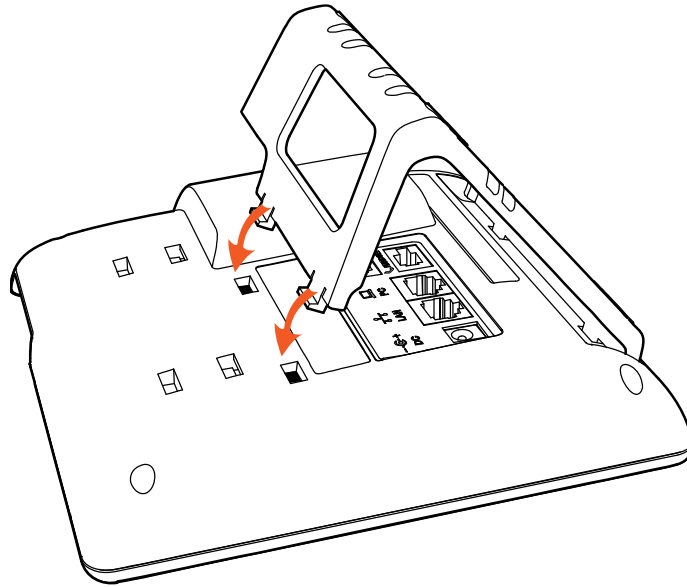


1. Stand Bracket Installation Instruction

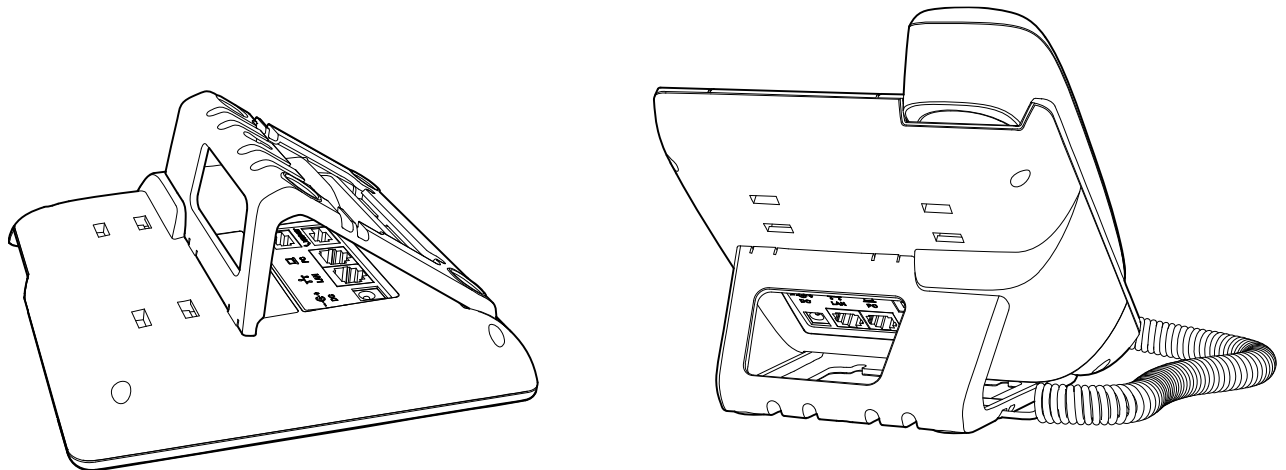
A. Put the bottom side of the IP phone upside and press one-side joints of stand bracket into the slot, please refer the picture as below:



B. Press the other side joints into the slot:

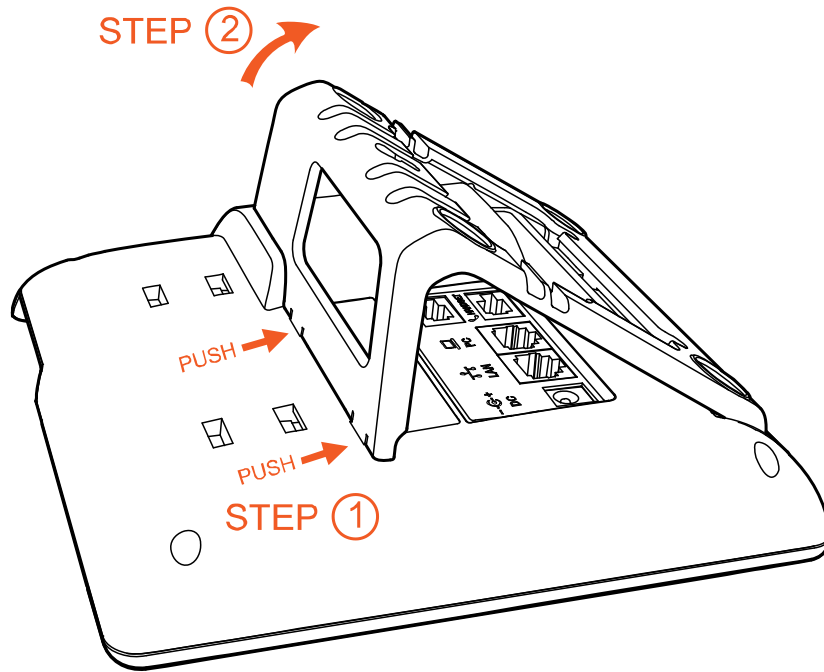


C. It is the picture after fixing the stand bracket below:



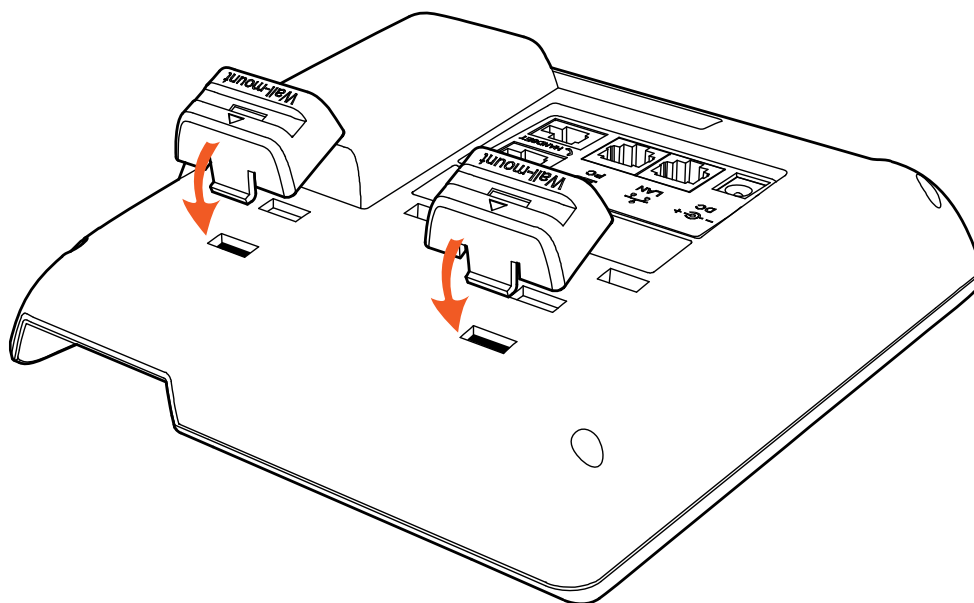
D. Disassemble the stand bracket:

Push the spring joint of stand and pull the stand. When the joints are pulled out of the slot, you can take off the stand bracket.

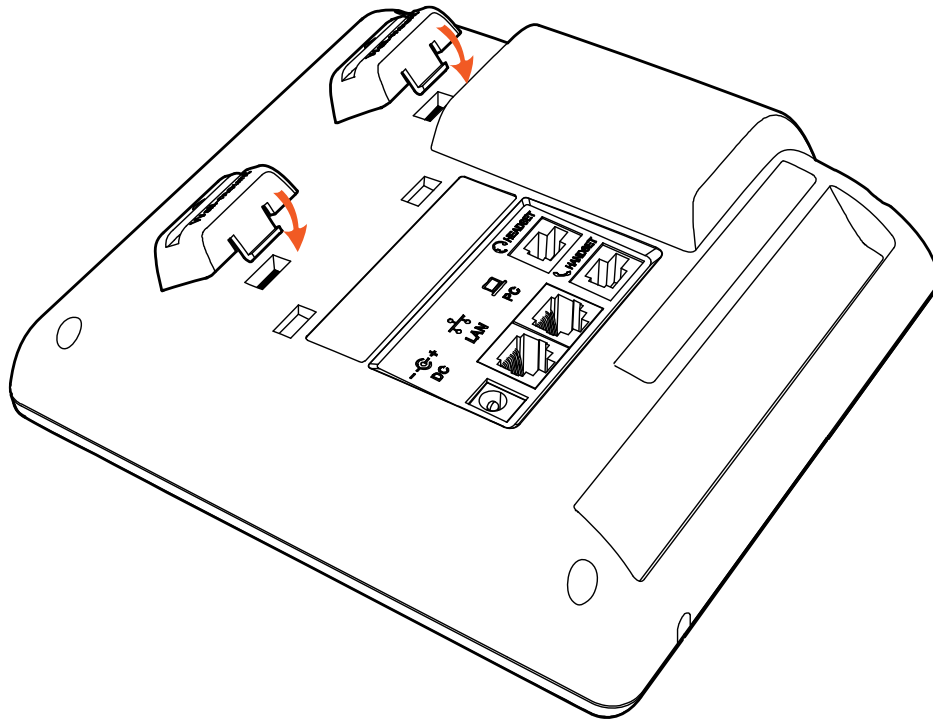


2. Wall-hung Installation

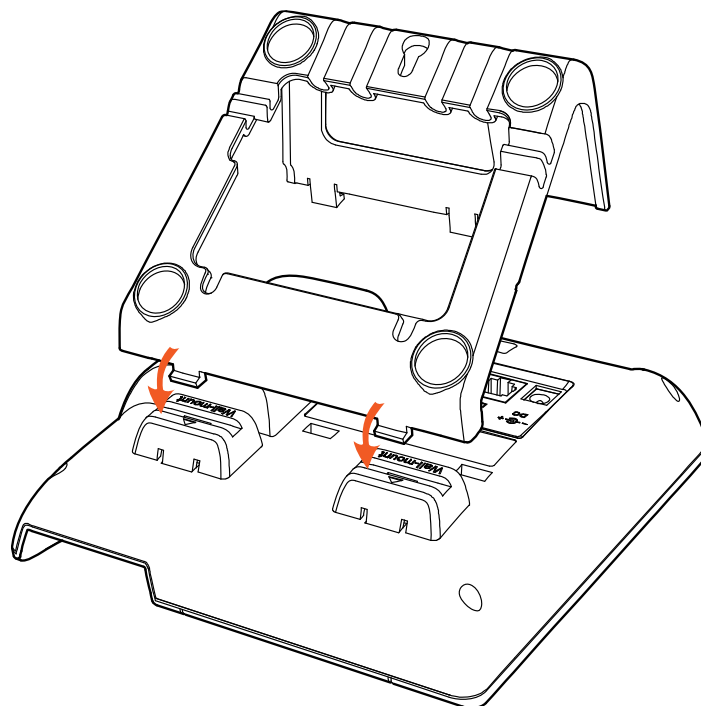
A. Put the bottom side of the IP phone upside and press one-side joints of wall-hung stand bracket into the slot, please refer the picture as below:



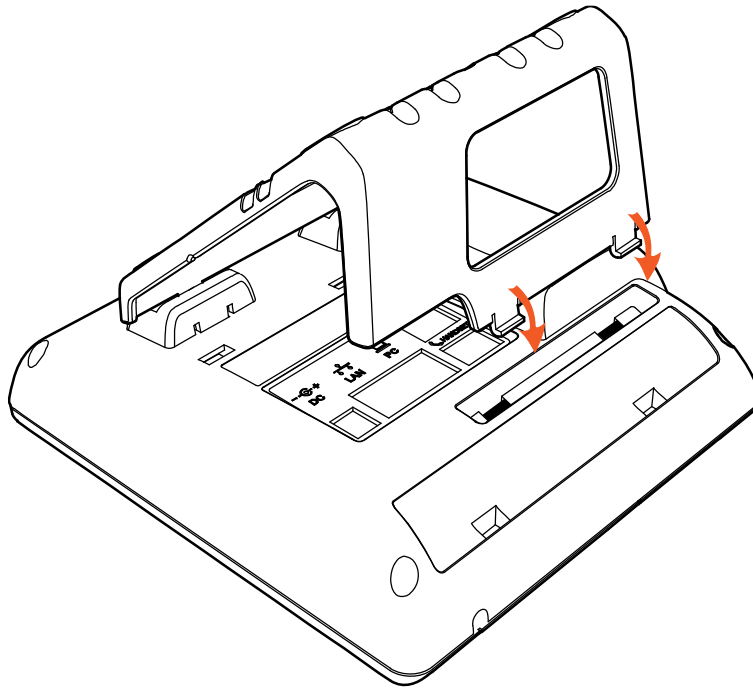
B. Press the other side joints into the slot



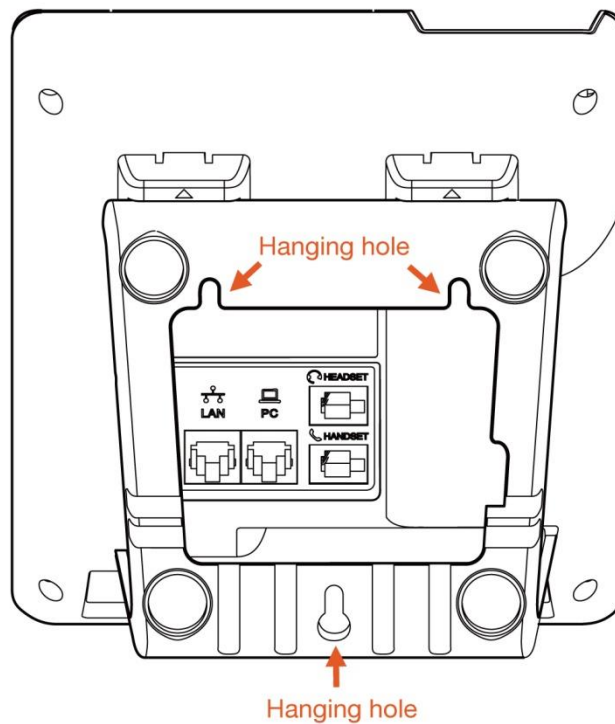
C. After install the wall-hung stand bracket, press one-side joints of stand bracket into the slot, please refer to the picture as below:



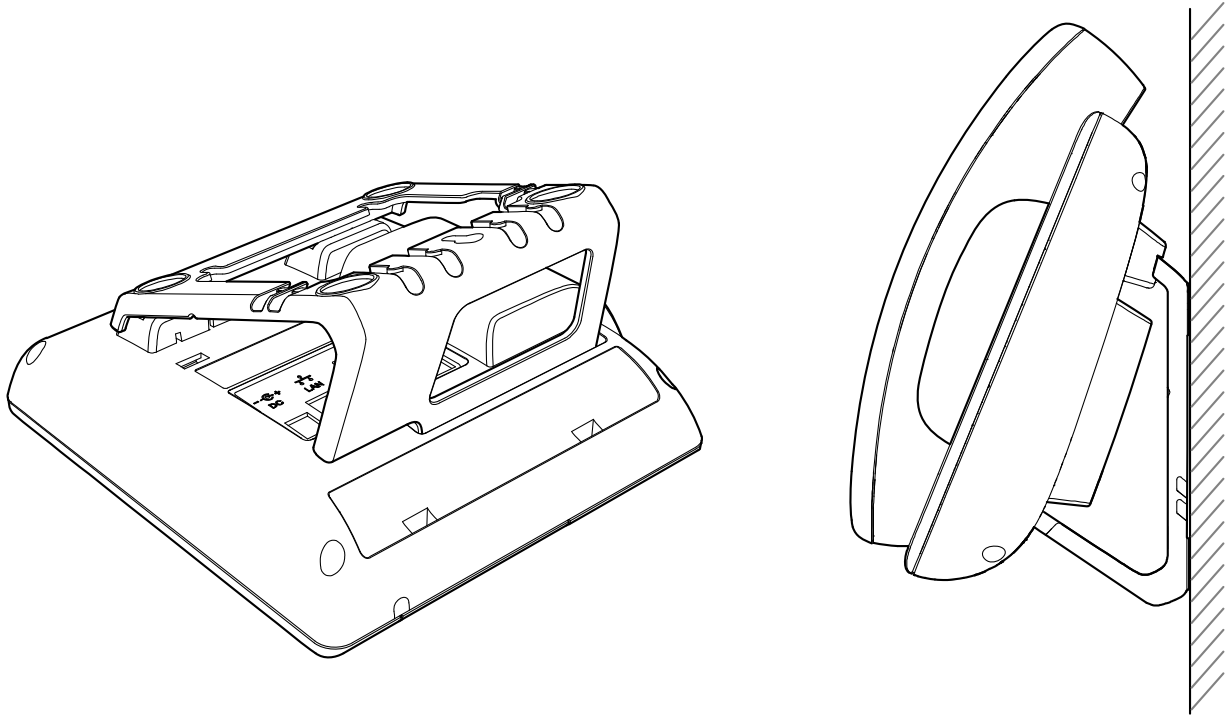
D. Press the other side joints into the slot



E. Knock in nails or screws on the wall according to the proportion of the distance between the hanging holes as below:

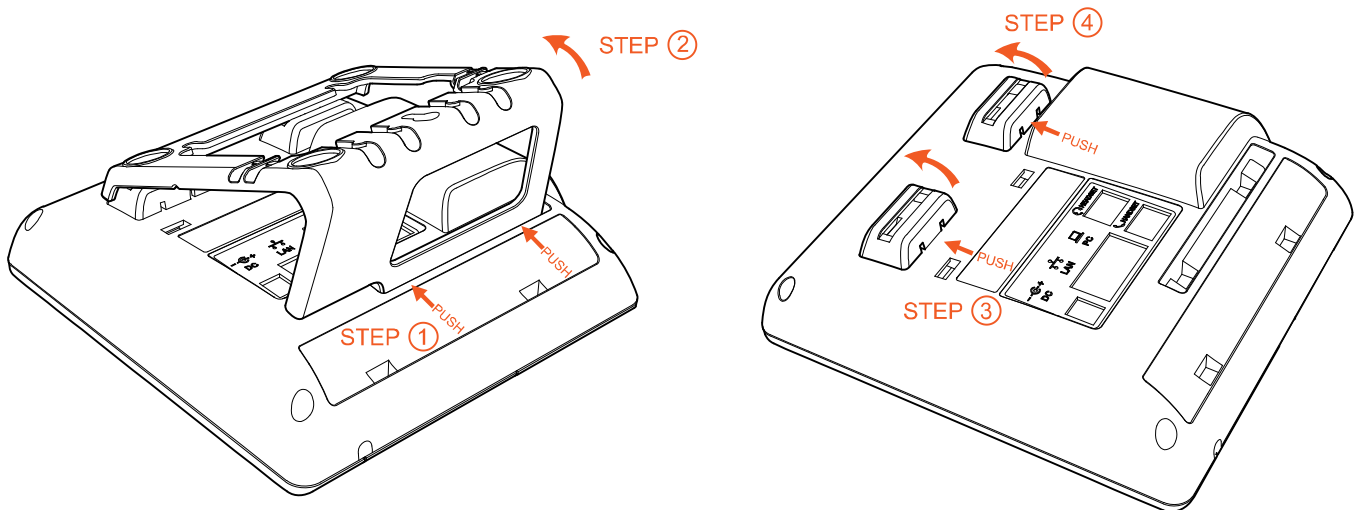


F. It is the picture after fixing the stand bracket below:



G. Disassemble the stand bracket:

Push the spring joint of stand and pull the stand.



2 Play-and-Plug (Working Together with OM Series IP PBX)


When the NRP2000/w acts as an extension of New Rock OM series IP PBX, it supports Plug-and-Play function, which allows the NRP2000/w to automatically discover the OM and download the configuration files and make registration.

Here are step for activating the phone after installation:

1. Power up the phone.
2. Select a language.
3. Input the PIN (obtained from your administrator).
4. Press the “Enter” soft key to complete registration.



Note:


- If you don't want to register, press the  button on the phone to quit the PIN-entering interface and return to the home page.
- To disable the Plug-and-Play function, log into the Web GUI of the IP phone, choose **Off** for **PnP Active**.


3 Call Function

3.1 Answer the Calls




When the phone is ringing, there are 3 ways to answer the call:

A. Answer by handset




Pick up the handset and talk with the caller. If you want to hang up, just put back the handset. When you are talking with the handset and want to switch to speaker or headset mode, please press  key or

 key, and then put down the handset.

B. Answer by speaker

Press  key and talk with callers by built-in Micro-phone and Speaker. If you want to hang up, please press  key again. Switch calling or talking into handset mode by lifting the handset under speaker mode. Press  key will switch calling or talking into headset mode.

C. Answer by headset


Keep your microphone connected with the RJ9 headset jack, when there is an incoming call, press  and talk with the caller. If you want to hang up, please press  again. Pressing  can change calling or talking into speaker mode, and lifting the handset switches to handset mode.

3.2 Make Calls


A Use the handset

Pick up the handset, the LCD will show the current lines (user is able to switch from line1 to line 6 by pressing the line key beside the LCD). Press soft key "**Send**" to dial the number. When you hear the tones of "du~~du~~" and the phone number your dialed is being displayed on the LCD, the remote phone should be ringing. If the called party answers this calling, the call is established and the calling timer is started immediately.

B. Use the speaker



Press  key, the LCD will show the current lines (user is able to switch from line1 to line6 by pressing the line key beside the LCD). Input the phone number and press soft key "**Send**" to dial the number. When you hear the tone of "du~~du~~" and the phone number your dialed is displayed on the LCD, it indicates that the called party is ringing. If the called party answers this call, the call is established and the calling timer is started immediately.

C. Use the headset

Press  key, the LCD will show the current lines (you can switch from line 1 to line 6 by pressing the line key beside the LCD). Input the phone number and press the soft key "**Send**" to dial the number. When you hear the tones of "du~~du~~" and the phone number your dialed is being displayed on the LCD, it indicates that the called party is ringing. If the called party answers this call, the call is established and the calling timer is started immediately.



D. Dial from phone book



1. Press  key to enter the menu and choose "**Contact**" option. Press "**Enter**" soft key and then find the contact person by navigation keys. When the selected contact person is highlighted, press "**Dial**" or just pick up the handset to call this number.
2. Pick up the handset, press "**Contact**" soft key, then select a contact person and press "**Dial**" soft key.
3. Pick up the handset, press  and enter "**Contact**", then select a contact person and press "**Dial**" soft key.

E. Dial from call history



1. Press  key to enter the menu and choose "**History**" option, then select one of call history entry, and press "**Dial**" soft key or pick up the handset to call this number.
2. Pick up the handset, press "**History**" soft key, then select one call history entry, and press "**Dial**" soft key to call this number.
3. Pick up the handset, press  and enter "**Call History**", then select one call history entry, and press "**Dial**" soft key to call this number.

3.3 Pre-Dial

It's a method to dial a phone number immediacy at standby mode.

The method is as below:



A. Dial-up the phone number at standby mode

- B. Press soft key "**Dial**" or pick up the handset or press  or  to send out the number.

3.4 Multiple Line Dial-Up

NRP2000/W supports up to 8 concurrent calls. If there is a new incoming call when you're talking on NRP2000/W, the new incoming call will be displayed on LCD and status indicator LED will be fast blinking. You can press the soft key "Hold" then press "Answer" to receive the new incoming call.

3.5 Call Hold

The current calling will be hold by pressing soft key **"Hold"** or , and the held call will be resumed after pressing soft key **"Resume"** or  or the corresponding line key. Even on 3-way conference calling, the conference will be held after pressing **"Hold"** key, and be resumed to 3-way conference after pressing **"Hold"** Key again. Remember the conversation is still on hold without being ended even if hung up under the status of hold.

3.6 Call Transfer

1. Attended call transfer

The attended transfer allows user to call a third-party before transferring the calling.

While calling, press the **"Transfer"** soft key to hold the current call and dial the target number you want to transfer to on the activated line and press **"Send"** soft key to call that number. After the target party answers the call, press **"Transfer"** soft key again to complete the transfer.

If the target number has been setup in the current BLF list, and you have already finished the necessary setup on Webpage of NRP2000/W, there is an easier way to complete the attend transfer. While calling, press the corresponding BLF key of the target number and then press the **"Transfer"** soft key, the attend transfer will be achieved.



2. Blind call transfer

The blind transfer allows user to transfer a call without speaking to the third party. On the user side, the call will be ended as soon as the target phone number is dialed.

Operating steps: Press **"More"** soft key to get more option, then press **"Bxfer"** soft key, input the transfer target number and press **"Send"** soft key.

If the target number has been setup in the current BLF list, and you have already finished the necessary setup on Webpage of NRP2000/W, there is an easier way to complete the Blind transfer. While calling, press the corresponding BLF key of the target number, the blind transfer will be achieved.

3.7 Mute Calls

The input audio will be not transmitted to peer phone after pressing  key, and the phone will be muted even switched among different modes of speaker, handset and headset. To un-mute, just press  key again.

3.8 3-Way Conference

1. While on calling, press the soft key **"Conf"**, input the third party's phone number and then press the softkey **"Dial"** or press the soft key **"Conf"** and press the corresponding BLF key to invite the third party to join a conference call.
2. After the third party answers the call, pressing **"Conf"** key again to establish the 3-way conference
3. The initiator of 3-way conference can press the soft key **"Hold"** to hold the conversation with other two parties, and press **"Resume"** to back to 3-way conference.
4. If the initiator hangs up the call or press the soft key **"End Conf"**, the conference will be ended and the calling between the other two parties will be hung up as well.
5. The initiator of 3-way conference can press the soft key **"Split"** to separate the conference call, and the calling between initiator and the other two parties are still active but under the status of Call hold.
6. After split the 3-way conference, press the soft key **"More"** and then press the softkey **"Join"** to resume the 3-way conference or press the softkey **"Conf"** to setup a new 3-way conference call.

3.9 Hang up the Phone

1. Softkey hang up

While on calling, press the softkey **"End Call"** to hang up.

2. Handset hang up

Put back the handset at handset mode, the current calling will be hung up.

3. Speaker hang up

Press  key at speaker model, the current calling will be hung up.



4. Headset Hang up

Press  key at headset model, the current calling will be hung up.

5. Hang up one line call

Press the hook to hang up the current calling when 2 calls happened simultaneously.

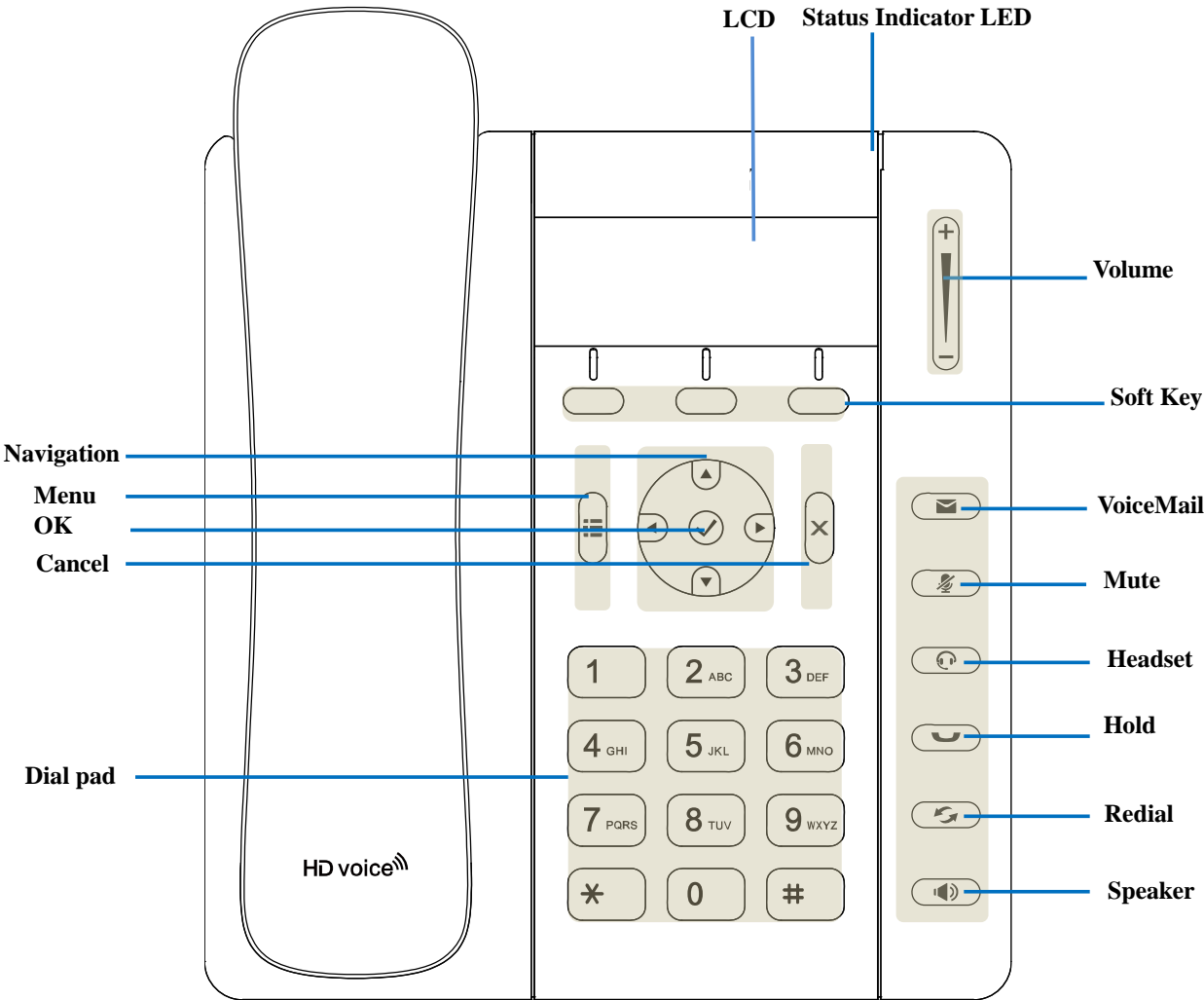
3.10 Voicemail

NRP2000/W has a  key for entering voicemail box and indicating new voicemail. Press  key to enter the menu to configure voicemail number if you have never configured it previously. Otherwise, the voicemail number will be called after pressing it.













4 Keypad and GUI

4.1 Keypad

Description of the keys and Screen



Soft Keys	Press to select a function which displayed at the softkey zone of screen Display all optional functions at the last line of LCD screen.
Status Indicator LED	Indicates the phone's status, <ul style="list-style-type: none"> ➤ If the phone is being started ,the LED is on ➤ If the phone is standby, the LED is off ➤ If there is income calling, the LED will blink at 120ms on, 120ms off. ➤ If there is a new message, the LED will blink at 600ms on, 600ms off.
LCD Screen	All information such as date, time, phone number, incoming caller's ID (if available), line/call status, extension numbers and the soft key features are displayed on it.

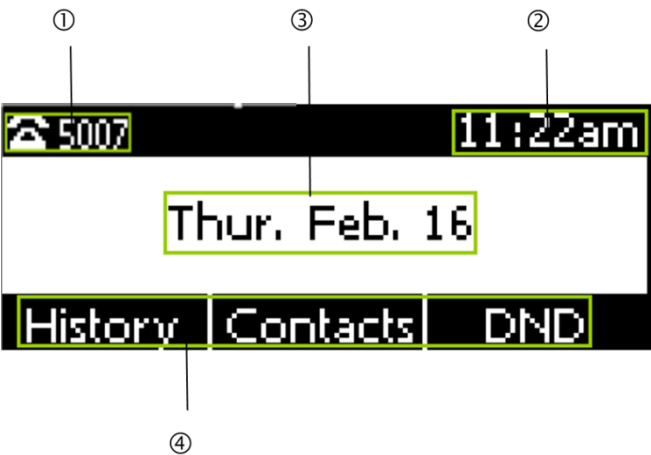
Dial pad	Entering numbers or characters.
Navigation keys	Allows users to navigate (left, right, up, down). Press  can enter "Directory". Press  can enter "History".
	Adjust the volume (speaker/handset/headset/ring). Volume level will be displayed on LCD when pressing volume key.
	Confirm users' operation and show status when NRP2000/W is idle.
	Cancel users' operation.
	Enter menu settings.
	Pick up and hung up under the speaker mode.
	Mute the mic in a conversation by pressing the Mute button; this prevents the person on the active call from hearing what you or someone else in the room is saying. To un-mute, press the Mute button again.
	Pick up and hung up under headset mode.
	Check the Voicemail status.
	Hold the current call.
	Redial the last dialed number

4.2 Starting

When start on the phone, it turns to standby status in about 50 seconds.













4.3 Standby



Area Item	Description
1	Status: to indicate the call status
2	Time
3	Softkey: “History”, “Contacts”, “DND”
4	Date

Icon on Standby UI

Icon	Description
	The account is registered successfully.
	The account is not registered successfully.
	The line is being occupied for dialing.
	New incoming call

	Call hold.
	Unavailable Network.
	Calling via handset
	Calling via Speaker.
	Calling via headset.
	Wi-Fi Signal indicator
	Call Forward is activated.
	New Voicemail.
	Auto-Answer is activated.
	DND is activated

4.4 Configuration



Press the key to enter the Main Menu:

Main menu		
1. Status		
2. WiFi Setting		
Enter		Back

Move the navigation key and press the softkey **“Enter”** or input the corresponding Number key Select the item of Main Menu:

Number Key “1”	Enter “Status”
Number Key “2”	Enter “Wi-Fi Setting”
Number Key “3”	Enter “Feature”
Number Key “4”	Enter “Directory”

Number Key “5”	Enter “History”
Number Key “6”	Enter “Message”
Number Key “7”	Enter “Settings”
Number Key “8”	Enter “Display”

4.4.1 Status Info

It's able to check the status info via LCD Display or Web.


And the basic status and details status will be optional displayed on LCD display

1. Basic Status——IP address.MAC address. Firmware version.
2. Details Status——Network info. Production info and Account info in details.

Basic Status

You can check the basic status in both ways as below:

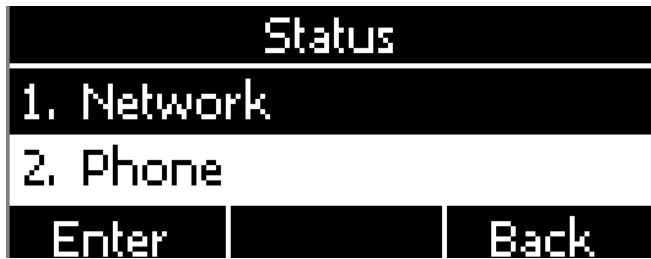
1. Press the key  on standby.

2. Press the key  and select the “**Status**” of Main Menu.
3. Move the navigation key, the status display the Model, IP, MAC, Firmware, More



Details Status

Select “**More**” and then press the softkey “**Enter**” to check details info, and move the navigation key to check more.



Press the softkey “**Enter**” to check status info, and “**Back**” to return the Basis Status page.

Check the Status info via Web

1. Check the IP address of IP phone;
2. Type the IP address on a web browser;
3. Input the username and password, the default user and password for Administrator is (admin, admin), for general user is (user, user), and then press “**Enter**”.
4. By default, the Status info will be displayed.

4.4.2 Call Features


In this part, we will introduce the following content:

- [Call Forward](#)
- [Call Waiting](#)
- [Auto Answer](#)
- [DSS Keys](#)
- [Key as send](#)
- [Hotline](#)
- [Anonymous Call](#)

1. Call Forward

“Call Forward” includes “Always Forward”, “Busy Forward”, “No Answer Forward”.

“Always Forward” has the highest priority, and “Busy Forward” has the same priority as “No Answer Forward”, that means once the function of “Always Forward” is activated, other call forward features will be unavailable.

Any type of Call forward feature is activated, the Icon  will be indicated on the LCD Display.



Always Forward

All incoming calls will be forwarded to target phone number once the “**Always Forward**” activated, setup this feature as follow and please move the navigation to check more:

Always Forward

1. Always Enable

Save
Switch
Back

Item	Operation	Description
Always	Press the key   or the soft key “ Switch ” to setup	Switch on or Switch off the feature. “ Enable ” means this feature is enabled, “ Disable ” means this feature is disabled.
Forward to	The Number key, “*”key, and “#”are permitted to be input.	Setup the target phone number which all incoming calls transferred to
On Code	The Number key, “*” key, and “#”are permitted to be input.	The feature code to enable all incoming calls forward, the phone will send the feature code directly to open all incoming calls forward
Off Code	The Number key, “*” key, and “#”are permitted to be input.	The feature code to disable all incoming calls forward, the phone will send the feature code to close all incoming calls forward directly

Busy Forward



It means the phone is busy once the phone is not at standby mode. Setup this feature as below:

Busy Forward

1. Busy Forward Enable

Save
Switch
Back

Item	Operation	Description
------	-----------	-------------





Busy	Press the key   or softkey "Switch" to setup	Switch on or Switch off the feature. "Enable" means this feature is enabled, "Disable" means this feature is disabled.
Forward to	The Number key, "*" key, and "#" are permitted to be input.	Setup the target phone number which all incoming calls transferred to
On Code	The Number key, "*" key, and "#" are permitted to be input.	The feature code to enable busy calls forward, the phone will send the feature code directly to open busy call forward
Off Code	The Number key, "*" key, and "#" are permitted to be input.	The feature code to disable busy calls forward, the phone will send the feature code directly to close busy call forward

No Answer Forward

All incoming calls will be forwarded after time out, once the feature of "No Answer Forward" is activated.

Setup this feature as below, and please move the navigation key to check more:

No Answer Forward		
1. No Answer Enable		
Save	Switch	Back

Item	Operation	Description
No Answer	Press the key   or softkey "Switch" to setup	Switch on or Switch off the feature. "On" means this feature is activated, "Off" means this feature is inactivated.
Forward to	The Number key, "*" key, and "#" are permitted to be input.	Setup the target phone number which all incoming calls transferred to
After Ring Time	Press the key   or softkey "Switch" to setup	Setup timer for no answer status. All incoming calls will be forwarded after time out once Call forward when no answer activated.
On Code	The Number key, "*" key, and "#" are permitted to be input.	The feature code to enable no answer call forward, the phone will send the feature code directly to open all incoming calls forward
Off Code	The Number key, "*" key, and "#" are permitted to be input.	The feature code to disable all incoming calls forward, the phone will send the feature code directly to close all incoming calls forward

Setup Call Forward Via Web

Set Call Forward via web: **Phone > Forward&DND.**





New Rock Technologies		Basic	Account	Network	DSS Keys	Phone	Contacts
<div>Forward&DND</div> <div> <div>Preferences</div> <div>Features</div> <div>Upgrade</div> <div>Auto Provision</div> <div>Configuration</div> <div>Remote Control</div> <div>Action URL</div> <div>Tones</div> <div>Dial Plan</div> <div>Voice</div> <div>Phone Lock</div> <div>TR069</div> <div>Security</div> </div>							
<div>Call Forward</div> <div> <div>Emergency</div> <div>Enabled</div> </div> <div> <div>Authorized Numbers</div> <div></div> </div> <div> <div>Mode</div> <div> <input checked="" type="radio"/> Phone <input type="radio"/> Custom </div> </div> <div> <div>Account</div> <div></div> </div> <div> <div>Always</div> <div>Off</div> </div> <div> <div>Target</div> <div></div> <div>i</div> </div> <div> <div>On Code</div> <div></div> <div>i</div> </div> <div> <div>Off Code</div> <div></div> <div>i</div> </div> <div> <div>When Busy</div> <div>Off</div> </div> <div> <div>Target</div> <div></div> <div>i</div> </div> <div> <div>On Code</div> <div></div> <div>i</div> </div> <div> <div>Off Code</div> <div></div> <div>i</div> </div> <div> <div>When No Answer</div> <div>Off</div> </div> <div> <div>After Ring Time (s)</div> <div>12</div> <div>i</div> </div> <div> <div>Target</div> <div></div> <div>i</div> </div> <div> <div>On Code</div> <div></div> <div>i</div> </div> <div> <div>Off Code</div> <div></div> <div>i</div> </div>							

2. Call Waiting

The feature of “Call Waiting” is available by default. If switch off this feature, whatever multiple SIP accounts had been registered successfully, only one single active calling is permitted (for example Dialing, Ringing, Calling, and Holding).

Call Waiting		
1. Call Waiting Disable		
Save	Switch	Back

Item	Operation	Description
------	-----------	-------------

Call Waiting	Press the key   or softkey "Switch" to setup	Switch on or Switch off the feature. "Enable" means this feature is enabled, "Disable" means this feature is disabled.
Call Waiting Tone	Press the key   or softkey "Switch" to setup	Switch on or Switch off the prompt playing. "Enable" means this feature is enabled, "Disable" means this feature is disabled.

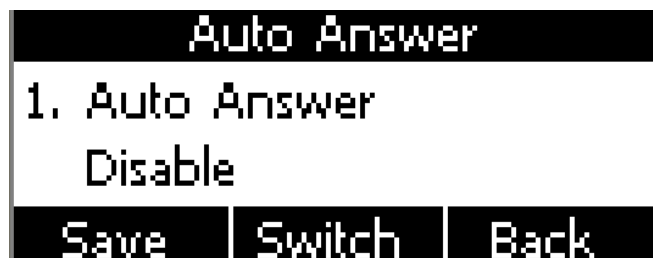
Setup call waiting via web: **"Phone"** > **"Feature"** > **"General information"** > **"Call Waiting"**.


Setup call waiting Tone via web: **"Phone"** > **"Feature"** > **"Audio Settings"** > **"Call Waiting Tone"**.

3. Auto Answer

The feature of "Auto Answer" is switched off by default. All incoming calls will be answered automatically when the phone is standby once "Auto Answer" is activated. "Auto Answer" when the phone is under "on Calling" status.

Please move the navigation key to check more:



The Icon  will be indicated once "Auto Answer" is available.

Setup "Auto Answer" via Web: **"Phone"** > **"Feature"** > **"General information"** > **"Auto Answer"**

4. DSS Keys

The programmable keys include Programmable feature keys and Soft key on Standby UI.

N/A


N/A means this key is not permitted to be set as a programmable key and use the default feature.

Conference

The 3-way conference will be setup by pressing the key "Conf" while on calling. For more info, please refer to 3.8 3-Way Conference.

The configuration item **Label** is a name to identify the key on LED, can be set as “conference”.

Hold

The same feature as the key . For more info, please refer to [Chapter 2.5](#).


The configuration item **Label** is a name to identify the key on LED, can be set as “hold”.

DND

Press this key will switch on or switch off the feature of “DND”.

The configuration item **Label** is a name to identify the key on LED, can be set as “DND”.

Redial

The same feature as the key .

The configuration item **Label** is a name to identify the key on LED, can be set as “redial”.

Call return

Automatically dial the latest phone number in history.

The configuration item **Label** is a name to identify the key on LED, can be set as “return”.

Call Pickup

Press this key to pick up if new incoming call to the monitored phone number.

Item	Description
Value	The phone number monitored for pickup
Label	The contents displayed on the screen, used to identify the key, such as "pickup"

Reminding: This code must be set for pickup, and this code can be set via Web only.

Set the Pickup code as follow:

Set the pickup code for one single Account: **Account > Advanced > Select an account to be configured > Directed Call Pickup Code.**

Set the pickup code for all Accounts: **Phone > Features > Call Pickup > Direct Call Pickup. Direct Call Pickup Code (Direct Call Pickup should be set as Enable).**

Call Park

Press this key while on calling, the phone will dial the specified phone number, user will receive a code on the phone prompt, and then press the soft key “Transfer”, the current calling will be parked successfully. At this moment, user is able to continue the parked calling with any other phones which registered on the same SIP server by dialing the code which user have received.

DTMF

Press this key while on calling, the phone will send the configured “**Value**” automatically.

Directory

Press this key to access Directory.


Speed Dial

Press this key while standby state, the specified target phone number will be dial from the specified account.

Intercom

Press this key when the phone is idle, the phone will dial the specified “Value”, and there mote end will answer the call automatically.

Note: This feature is supported by specified servers only.



Basic
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Programmable Keys

Key	Type	Value	Label	Account
Mute	N/A			Auto
HOLD	Direct Pickup			Account 1
Redial	Redial			Auto
Up	History			Auto
Down	Directory			Auto
Left	N/A			Auto
Right	N/A			Auto
Cancel	N/A			Auto
Ok	Status			Auto
SoftKey1	History			Auto
SoftKey2	Directory			Auto
SoftKey3	Do Not Disturb (DI			Auto

Confirm
Cancel

5. Key as Send

The key “Key as Send” has the same function as the soft key “Dial”.

Reminding: This key is not available while pre-dial. It's the only way to press the soft key "Dial" or pick up the handset to finish pre-dial.

The default value is "#", and it could be set as "**". If set the value as "disable", it means the function "Key as Send" is forbidden.

Set "Key as Send" via web : **Phone > Features > General Information > Key As Send.**

6. Hotline

Once "Hotline" has been set, the phone will automatically dial the hotline via the 1st available line if the phone stay in the standby status exceed the specified waiting time and there is no input (or input something and then all deleted).

Hotline		
1. Hotline 10000		
Save	123	Delete

Item	Description
Hotline	Set up the hotline number, the value is null by default.
Hotline timeout	Set up the timeout for hotline activation, 4 seconds by default.

Set hotline via web: **Phone > Features > General Information > Hotline.**

Set Hotline Timeout (secs) via web: **Phone > Features > General Information > Hotline Timeout(secs).**

7. Anonymous Call

This function includes making anonymous calls and blocking all anonymous calls.

If switch on the feature "Anonymous call", all outgoing calls will be displayed as anonymous call in the remote end.

If switch on the feature "Rejection", all incoming anonymous calls will be blocked automatically.

Please move the navigation key to check more:







Anonymous Call

1. Anonymous Call Enable

Save

Switch

Back

Item	Operation	Description
Accounts	Press the soft key " Switch " or  to modify,  to modify,	Select the Account for anonymous call.
Anonymous Call	Press the soft key " Switch " or  to modify,  to modify,	Switch on/off the feature of making anonymous calls.
Call On Code	The Number key, "*"key, and "#"are permitted to be input.	Set the feature code to turning on anonymous call, the phone enables anonymous call by sending the feature code to the server
Call Off Code	The Number key, "*"key, and "#"are permitted to be input.	Set the feature code to turning off anonymous call, the phone disables anonymous call by sending the feature code to the server
Rejection	Press the soft key " Switch " or  to modify,  to modify	Switch on/off the feature of blocking anonymous calls.
Reject On Code	The Number key, "*"key, and "#"are permitted to be input.	Set the feature code to turning on anonymous call rejection, the phone enables anonymous call rejection by sending the feature code to the server
Reject Off Code	The Number key, "*"key, and "#"are permitted to be input.	Set the feature code to turning off anonymous call rejection, the phone disables anonymous call rejection by sending the feature code to the server

Set Anonymous Call via web: **Account > Basic > Select the Account > Anonymous Call.**


Set Anonymous Call Rejection via web: **Account > Basic > Select the Account > Anonymous Call Rejection.**

4.4.3 Contacts

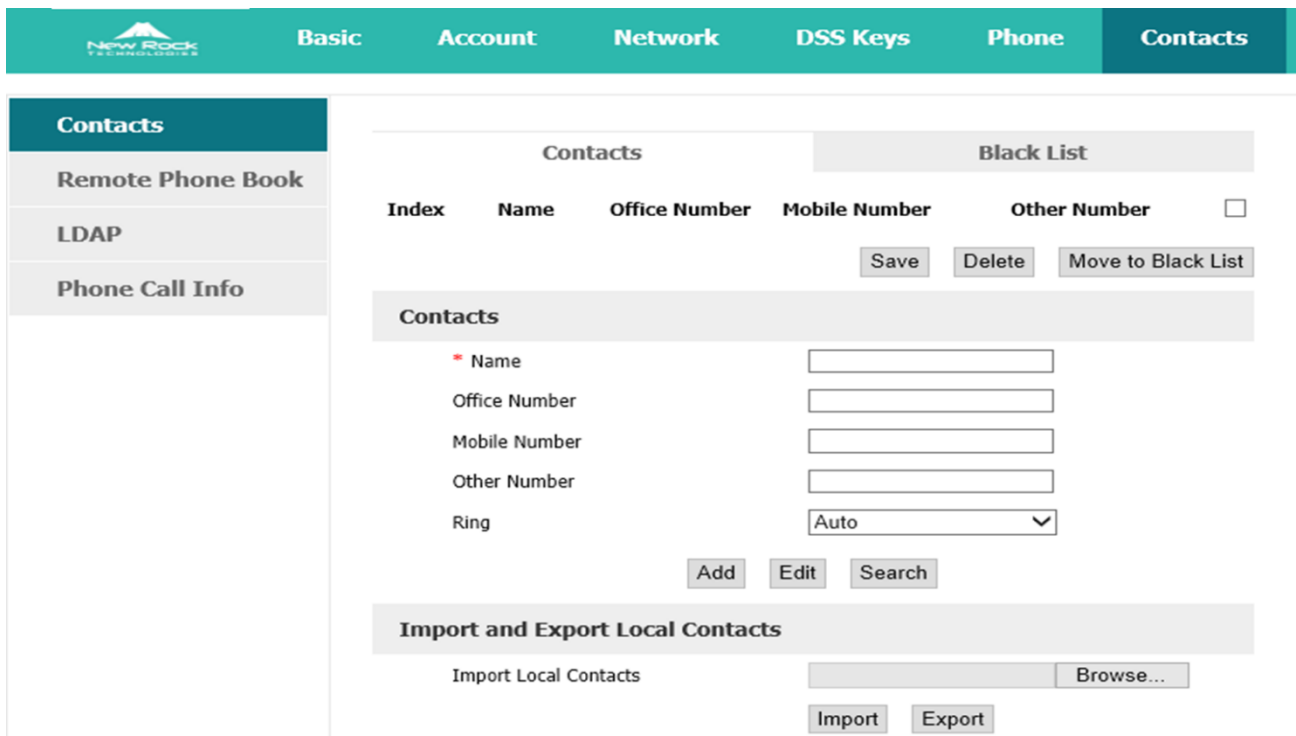
The content of Directory includes local phonebook and blacklist. Enter Directory as follow,

1. Press the soft key “Contacts” when the phone is standby

2. Press the navigation key 

3. Press the menu key , and then select “Contacts”

Configure the “Contacts” via Web:



All operations on Directory via Web will be not active until click “Save”. When too much item existed in the Directory, it will be an easy way to search by keyword about name, Office Number, Mobile Number or other Number. The exactly matched item will be listed, otherwise you will be prompted “Not find the specified contact”.

Local Contacts



Name and phone number are permitted to be saved into the local phonebook, and up to 400 items. It's able to add new group, new contact, edit or delete exist contact or dial, also move the item to blacklist.

Make Calls From Directory




Path to set on the phone:  > **Contacts** > **Local Contacts** > **All contact-> Select the record** > **Dial**.

If only one phone number saved with the selected contact person, the phone number will be dialed while calling the contact person.



If multiple phone numbers saved with the selected contact person, user must select one of the phone numbers for dialing while calling the contact person.

Add New Contact



Path to add new contact on the phone: **Press**  > **Contacts** > **Local Contacts** > **All contact** > **Add**.



Item	Operation	Description
Name	Input by number keys, "*" or "#"key, change the input-method via pressing the soft key "abc"	It's used to identify different phone numbers. Any reduplicated names are not permitted in the contacts.
Office	Input by number keys, "*" or "#"key, change the input-method via pressing the soft key "abc"	You can save three numbers at most. While calling a contact person in contacts, the phone will redirect to the page that to select one number to dial when multiple numbers are saved for one contact record
Mobile		
Other		
Ring	Press the key   or the soft key "Switch" to modify the account ID.	It's used to bundle each item with the corresponding ringtone, and the optional value is "Auto" or "Ringtone 1"to "Ringtone 10". "Auto" means the default ringtone will be played if new


		incoming call happened, otherwise the selected ringtone will be played.
--	--	---

Add new contact via web: **Contacts > Contacts > Input messages > Add > Save.**

Edit the Contact

User must re-edit the contact item while updating one item of local phonebook.



Path to edit the contact on the phone: **Press**  **> Contacts > Local Contacts > All contacts > Select the item to edit > Option > Edit > OK.**

Option		
1. Edit		
2. Delete		
OK		Cancel

Edit the contact item via Web: **Contacts > Contacts > click on the item to edit > modify messages > Click “Edit” > Click “Save”.**

Delete the Contact



Path to delete the contact on the phone: **Press**  **> Contacts > Local Contacts > All contacts > Select the item to delete > Option > Delete > OK > OK.**


Press the soft key **“Cancel”** at the Warning UI to stop deleting.

Delete the contact item via web: **Contacts > Contacts > Select the item to delete > Click on “Delete” > Click on “Save”.**

Move to Blacklist

Option		
3. Move to Blacklist		
4. Search		
OK		Cancel



Path to move to blacklist on the phone: Press  > **Contacts** > **Local Contacts** > **All contacts** > **Select the item to move** > **Option** > **Move to Blacklist** > **OK** > **OK**.

Press the soft key “**Cancel**” at the Warning UI to stop this operation.



Move the contact item to blacklist via web: **Contacts** > **Contacts** > **Select the item to move to blacklist** > **Click on “Move to black List”** > **Click on “Save”**.

Blacklist

The purpose of blacklist’s feature is to block the phone number inside blacklist to call the host phone number, but it’s available for the hosted phone number to call any phone number in the black list.















The most operation of blacklist is the same as local phonebook except for the feature “Move to Contacts”, it means moving an item of blacklist to local phonebook to resume the phone number to dial the host phone number normally.

Remote phonebook

New Rock Technologies		
Basic Account Network DSS Keys Phone Contacts		
<div> <div>Contacts</div> <div>Remote Phonebook</div> <div>LDAP</div> <div>Phone Call Info</div> </div>		
Index	Remote URL	Display Name
1	<input type="text"/>	<input type="text"/>
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"/>
Search Settings		
Search Remote Phonebook 		<input type="text" value="Enable"/>
Search Flash Time (sec) 		<input type="text" value="120"/>
<input type="button" value="Confirm"/> <input type="button" value="Cancel"/>		

1. Remote URL: Set a remote phonebook download path. Support the TFTP, FTP, HTTP and HTTPs server.
2. Display name: Set a display name on the phone.
3. Search Remote Phonebook name: Select “Yes” or “No” to enable or disable search remote phonebook name.
4. Search Flash Time: Set the search flash time. Default is 120.

LDAP

LDAP 		
Enable LDAP	<input type="text" value="Disable"/>	
LDAP Name Filter	<input type="text"/>	
LDAP Number Filter	<input type="text"/>	
Server Address	<input type="text"/>	Port <input type="text" value="389"/> 
Base	<input type="text"/>	
Username	<input type="text"/>	
Password	<input type="text"/>	
Max Hits	<input type="text" value="50"/>	 (1~32000)
LDAP Name Attributes	<input type="text"/>	
LDAP Number Attributes	<input type="text"/>	
LDAP Display Name	<input type="text"/>	
Protocol	<input type="text" value="Version 3"/>	
LDAP Sorting Results	<input type="text" value="Disable"/>	
LDAP Lookup For Incoming Call	<input type="text" value="Disable"/>	
LDAP Lookup For dialing	<input type="text" value="Disable"/>	



1. Enable LDAP: Select “Yes” or “No” to enable or disable LDAP.
2. LDAP Name Filter: Set the name of the LDAP search attributes.
3. LDAP Number Filter: Set the number of the LDAP search attributes.
4. Server Address: Set the LDAP server domain name or IP address.
5. Port: Set the LDAP server port number. Default to 389.

6. Base: Set the LDAP search base.
7. Username: Set the LDAP server username.
8. Password: Set the LDAP server password.
9. Max Hits (1~32000): Set the maximum number of search results from the LDAP server.
10. LDAP Name Attributes: Set the name of the attributes returned from the server.
11. LDAP Number Attributes: Set the number of the attributes returned from the server.
12. LDAP Display Name: The contact record the name of the displayed on the LCD.
13. Protocol: Set the phone to support LDAP protocol version. Defaults to version 3.
14. LDAP Sorting Results: Set the phone to sort the search results.
15. LDAP Lookup For Incoming Call: Set the phone for LDAP search when incoming call.
16. LDAP Lookup For dialing: Set the phone for LDAP search when dialing,

4.4.4 History


It includes the dialed, answered, missed and transferred items, maximum 400 items.

User is able to review or delete any item of the history on the phone. And enter “History” in below ways:

1. Press the key 
2. Press the key , then select “History”
3. Press the soft key “History” while phone is under standby status

When any operations above is done, details info of all recent history will be listed on LCD display, include the type of each item, the name of contact person, date and time.

Also, user is able to check the detail info of call history via Web, but only review operation is allowed while accessing via web.



Basic

Account

Network

DSS Keys

Phone

Contacts

Contacts

Remote Phonebook

LDAP

Phone Call Info

Dialled		Missed		Received		Forwarded	
Index	Date/Time	Duration	Local ID	Name	Phone no.		
1	2017/7/25 14:18	00:00:02	333@192.168.1.7:5060	200	200@192.168.1.7		

Make Calls From History

Path to make calls from history on the phone: **Enter history UI > Select the item to dial > Dial.**



Delete One Item From History

Path to delete one item from history on the phone: **Enter history UI > Select the item to delete > Delete.**

Check the Details of History

Path to check the details of history on the phone: **Enter history UI > Select the item to check > Option >**

Detail > Press  **or “OK”.**



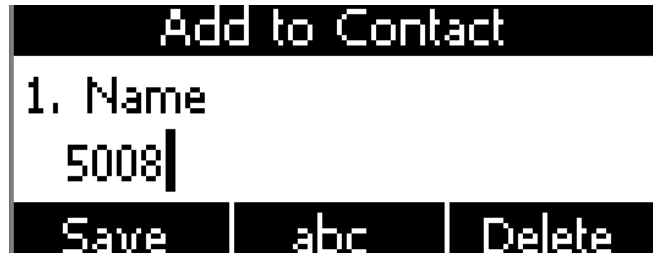
Add to Contact

1. Enter “Call History” > Select the target item > Option > add to Contact > Press the key  or soft

key “Confirm”.

At this moment an “edit” page will be popped up.

Please move the navigation key to check more



The item of “Office”, “Mobile” and “Other” are able to be switched over between “Old Number” and current number. If the being operated item had been saved already in the contacts, “Old Number” will be the previous value, otherwise “Old Number” will be null. The UI page of “Add to Blacklist” is the same as above.

2. **Modify the contact name, phone number and ringtone.**

3. **Press the key  or soft key “Saved” to save the modification, press the key  or soft key “Cancel” to cancel the modification.**

Add to Blacklist

For more info about this operation, please refer to [Add to Contact](#).

Delete All History’s records

Path to delete all history’s records on the phone: **Enter History UI > Option > Delete all > Press  or “OK”.**

4.4.5 Message

User will benefit from the feature of voicemail when they’re not available to answer an incoming call or missed some incoming calls. However this feature must be supported by Server. Voicemail must be set up before using it.

Set the voicemail via Web: **Account > Basic > Select an account to configure > Voice Mail.**




Sometimes the voicemail push can’t be reached in time, because the configuration problem with Server, you must configure some related parameter via Web to make the phone automatically send its request to Server for getting voicemail info.

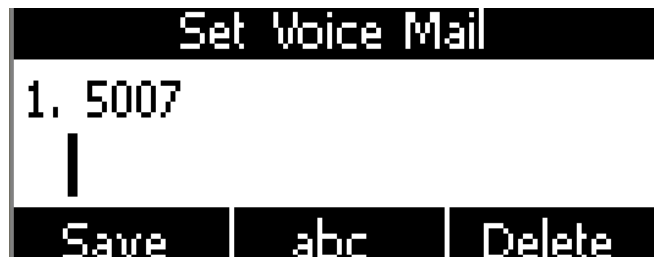
Set “Subscribe for MWI” via web: **Account > Advanced > Subscribe for MWI.**

Set “MWI Subscription Period(secs)” via web: **Account > Advanced > MWI Subscription Period(secs).**

Set Voice Mail



There are 3 different methods to set up the voicemail,

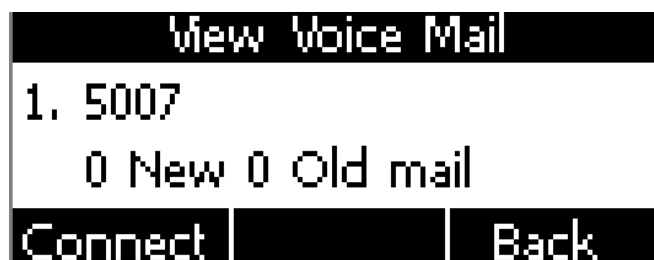
1. Press the key  after factory set
2. Press the key  for a while
3. Press the key  > Select "Message" > Setup Voicemail



View Voice Mail

User is able to check voicemail in below ways:

1. Setup voicemail number > Press the key 
2. Press the key  > Select "Message" > "View Voicemail"



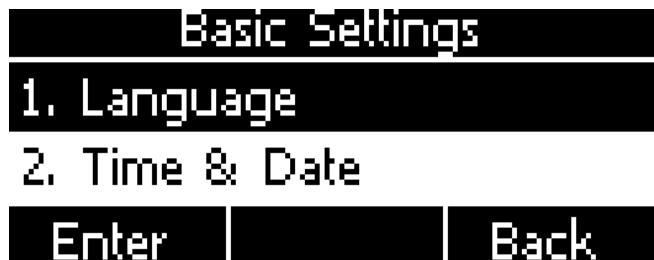
Select the account with "N new N old mail", and press the soft key "Connect", the corresponding voicemail will be connected.

Select the account with "Unregistered", and press the soft key "Connect", the setting page of Voicemail will be popped up.


4.4.6 Settings

Basic settings and Advanced settings will be introduces in this part,

Basic Settings

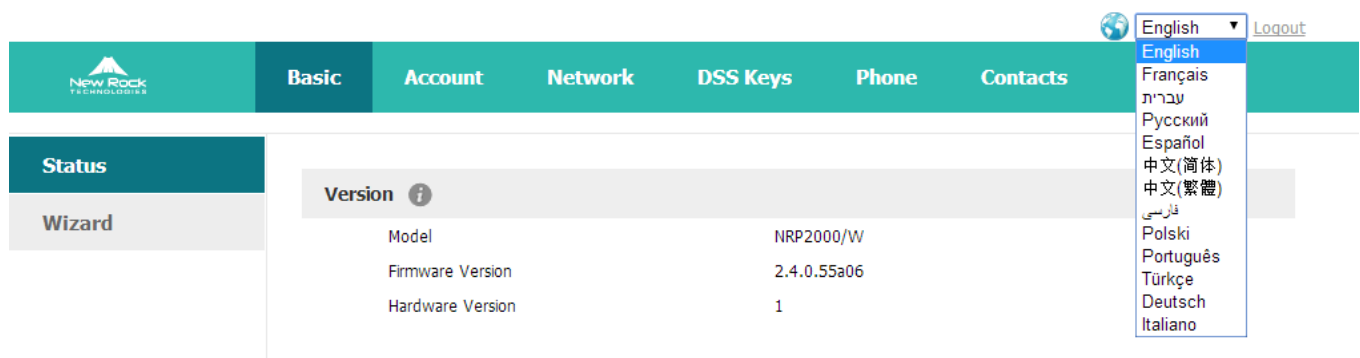


1. Language

NRP2000/W supports multiple language, to modify the language, please press the key  > **Setting** > **Basic setting** > **Language** > **Select the target language and press the soft key “Save”**.



Set language via web: There is a drop-down box at the top left corner of webpage, choice one kind of language and click, the language will take effect immediately.



2. Time & Date

Time & Date will be displayed at the standby page of NRP2000/W, and these info will be related with all process of IP phone. “Time & Date” can be gained by NTP Server automatically or set manually.

NTP Setting

Path to set on the phone: Press  > **Settings** > **Basic Settings** > **Time & Date** > **NTP Settings**.





Please move the navigation key to check more:

NTP Settings




1. Time Zone

+8China(Beijing)

SaveSwitchBack

Item	Operation	Description
Time Zone	Press the key   or soft key "Switch" to modify it.	Select the correct Time Zone for the IP phone.
NTP Server	Key in the IP address of domain name by the number keys, "*", "#"	Specify the NTP Server
Secondary NTP Server	Key in the IP address of domain name by the number keys, "*", "#"	Specify the standby NTP Server
Daylight-Saving Time	Press the key   or soft key "Switch" to modify it.	Optional: "Off", "Auto" or "Manual". And "Manual" mean user must set this via web.

Set NTP via Web: Phone > Preference.

Time Zone	+8 China(Beijing) ▼	
Primary NTP Server	pool.ntp.org	
Secondary NTP Server	time.windows.com	
Update Interval(secs)	1000	
daylight	Disable ▼	
Fixed Type	<input checked="" type="radio"/> By Date <input type="radio"/> By Week	
Start Month	January ▼	
Start Date	1	
Start Hour of Day	0	
Start Day of Week	Sunday ▼	
Start Week of Month	First In Month ▼	
Stop Month	January ▼	
Stop Date	1	
Stop Hour of Day	0	
Stop Day of Week	Sunday ▼	
Stop Week of Month	First In Month ▼	
Offset(minutes)	0	

Item	Operation	Description
Time Zone	Click drop-down box to select	Set a time zone matches condition
Primary NTP Server	Manual input	The primary NTP server that provide time and date
Secondary NTP Server	Manual input	The secondary NTP server that provide time and date
Update Interval(secs)	Manual input	The interval that the phone gains time and date from NTP server
Daylight	Click drop-down box to select	A switch to control the status that whether to enable the daylight or not
Fixed Type	Radio content	Daylight fixed type, only the specified items are configurable

Start Month	Click drop-down box to select	The month that the daylight rule begins taking effect
Start Date	Manual input	The day that the daylight rule begins taking effect
Start Hour of Day	Manual input	The hour of day that the daylight rule begins taking effect
Start Day of Week	Click drop-down box to select	The day of week that the daylight rule begins taking effect
Start Week of Month	Click drop-down box to select	The week of month that the daylight rule begins taking effect
Stop Month	Click drop-down box to select	The month that the daylight rule stops taking effect
Stop Date	Manual input	The day that the daylight rule stops taking effect
Stop Hour of Day	Manual input	The hour of day that the daylight rule stops taking effect
Stop Day of Week	Click drop-down box to select	The day of week that the daylight rule stops taking effect
Stop Week of Month	Click drop-down box to select	The week of month that the daylight rule stops taking effect
Offset(minutes)	Manual input	The offset time that daylight rule takes effect

Manual Settings



Path to set on the phone: **Press**  **> Settings > Basic Settings > Time & Date > Manual Settings.**

Please move the navigation key to check more:

Manual Settings		
1. Year		
2017		
Save	123	Delete

Item	Operation	Description
Year	Key in “Year” with the number key, “*” and “#”	Date info
Month	Key in “Month” with the number key, “*” and “#”	
Day	Key in “Day” with the number key, “*” and “#”	
Hour	Key in “Hour” with the number key, “*” and “#”	Time info
Minute	Key in “Minute” with the number key, “*” and “#”	
Second	Key in “Second” with the number key, “*” and “#”	

Set the Time & Date manually via web: **Phone > Preference.**

Manual Time

Disable



Date

Generated Date

Time

Generated Time

Item	Operation	Description
Manual Time	Click the drop-down box to select	A switch to control the status whether to enable the manual time or not
Date	Manual input, click “Generated Date” to gains date from the computer	Set date manually
Time	Manual input, click “Generated Time” to gains time from the computer	Set time manually

3. Time&Date Format



Path to set on the phone: **Press**  **> Settings > Basic Settings > Time & Date Format.**

Please move the navigation key to check more:

Time & Date Format

1. Clock

12 Hour

SaveSwitchBack

Item	Optional	Example of result
Clock	12 hour	03:30pm
	24 hour	15:30
Date	WWW MMM DD	TuesdayOct.16
	DD-MMM-YY	16-Oct.-16
	YYYY-MM-DD	2016-10-16
	DD/MM/YYYY	16/10/2016
	MM/DD/YY	10/16/16
	DD MMM YYYY	16,Oct.,2016
	WWW DD MMM	Tuesday,17,Oct.

Set the Time &Date Format via Web: **Phone > Preference**

4. Ringtones

10 different ringtones have been provided by NRP2000/W for selection. Path to set on the phone: **Press the**



 key > **Settings > Basic Settings > Ringtones.**

Ring Tones

☒ Ring1

☐ Ring2

SaveBack

For the selected ringtone, there is a dot inside the circle. Press the key   to select other ringtone for playing.

Set ringtones via Web: **Account > Basic > Ring tones.**

5. Headset Memory Mode

Headset memory mode can be used to control the default device to make or answer calls. This function is disabled by default, which means the phone will communicate with others by hand-free when pre-dial or making calls from history or contacts, and so is the situation that pressing “Answer” soft key to accept an incoming call. Once this function is enabled, the phone will make or answer calls by headset. Long press



can change the status of the “Headset Memory Mode”.



This function can be configured on the phone only: **Press > Settings > Basic Settings > Headset Memory Mode.**



6. Phone Unlock PIN

Phone Unlock PIN: Unlock the phone locked conditions.

Please move the navigation key to check more and press the cancel key to back the function,



Item	Operation	Description
Current PIN	Manual input	Input the phone current PIN

New PIN	Manual input	Set the new PIN
Confirm PIN	Manual input	Confirm the new PIN

Advanced Settings

Password will be requested while accessing the page of “Advanced Settings”. This password is the same as the user’s (“admin”) to access.

1. Account



Path to set the account info on phone: **Press** > **Settings** > **Advanced Settings** > **Input password** > **Accounts**.

Account 1		
1. Activation		
Enable		
Save	Switch	Back

Item	Description
Activation	The status of account, the default is “Enable”, if set this as “Disable”, the account will be forbidden.
Label	It will show on the phone, can skip this item
Display Name	Parameter that in the SIP, if the SIP Server is supportable, this name will show on the phone of called
Register Name	The register ID, supplied by SIP Server, can skip this item
User Name	Account ID
Password	Password for account
SIP Server	The address that accounts needed to register from
Outbound Status	The status of Outbound Server, “off” by default
Outbound Proxy	IP address of Outbound Agency

Stun Status	The status of Stun Server, “off” by default
Stun Server	IP address of Stun Server

Configure account via web: **Account > Basic**

2. Set Password

The password for Advanced Settings also is used for Web access as the role “admin”. Path to set password

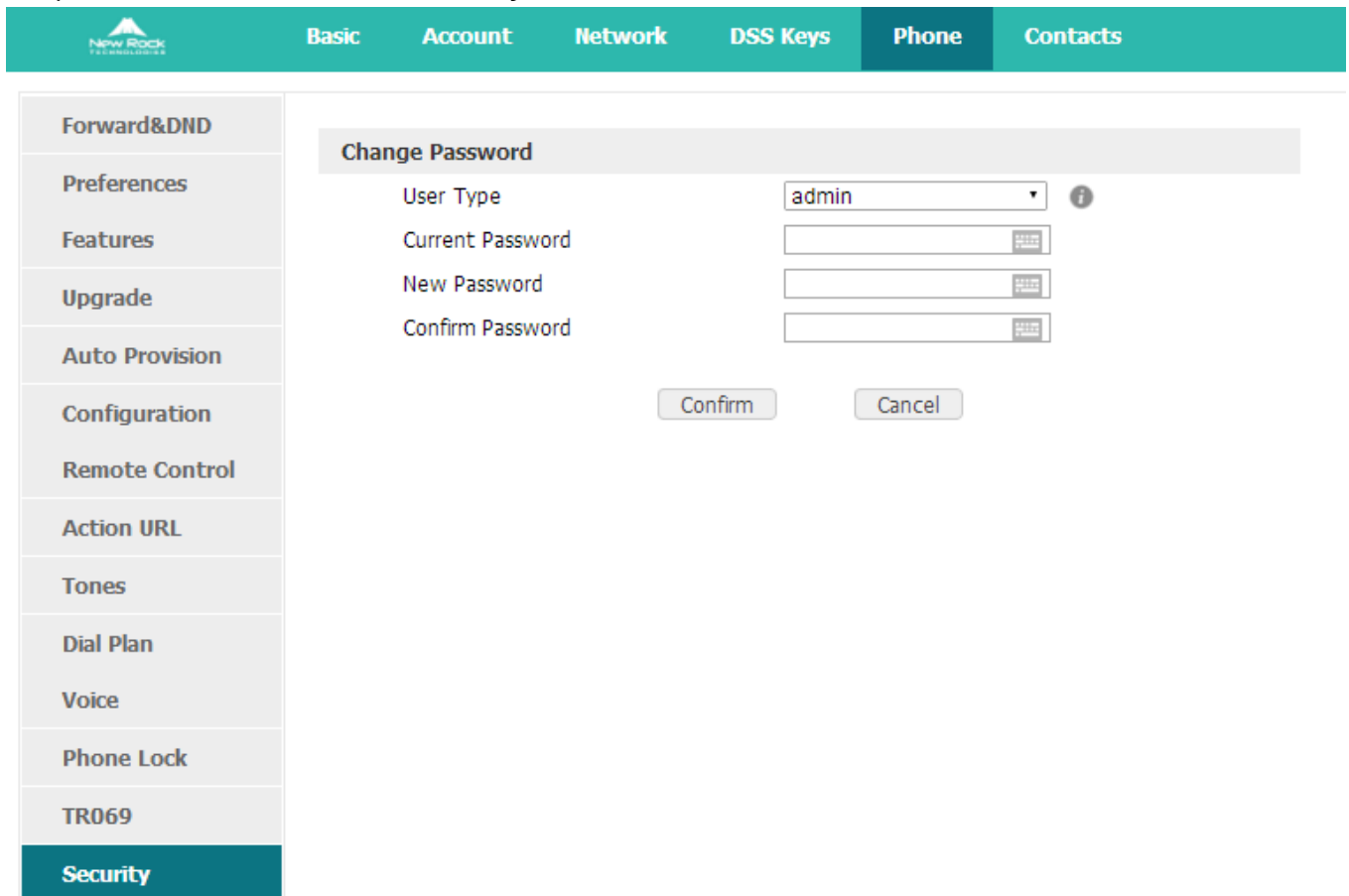


on phone: Press **> Settings > Advanced Settings > Input password > Set Password.**

Item	Description
------	-------------

Current PWD	The current password for web access as the role of “admin”, it’s “admin” by default.
New PWD	To set the new password, blank is acceptable.
Confirm PWD	Input the new password again, to confirm the new password.

Set password via Web: **Phone > Security.**



The screenshot shows the New Rock Technologies web interface. The top navigation bar includes 'Basic', 'Account', 'Network', 'DSS Keys', 'Phone', and 'Contacts'. The 'Phone' tab is selected. On the left, a sidebar menu lists various settings: Forward&DND, Preferences, Features, Upgrade, Auto Provision, Configuration, Remote Control, Action URL, Tones, Dial Plan, Voice, Phone Lock, TR069, and Security (which is highlighted). The main content area is titled 'Change Password' and contains the following fields:

- User Type: A dropdown menu with 'admin' selected.
- Current Password: A text input field with a password icon on the right.
- New Password: A text input field with a password icon on the right.
- Confirm Password: A text input field with a password icon on the right.

At the bottom of the form are two buttons: 'Confirm' and 'Cancel'.

3. Network



Path to set network parameters on phone: **Press**  **> Settings > Advanced Settings > Input the password > Network.**

Please move the navigation key to check more:

Network		
1. LAN Port		
2. PC Port		
Enter		Back

➤ LAN Port

Connect the phone with local network via LAN port, there are three modes to choose: IPV4, IPV6, IPV4&IPV6

Set the LAN port via Web: **Network > Basic**.

IPv4

The phone gains network via IPv4 by default;

And gains IP address via DHCP and Static IP two modes.

LAN port		
1. Mode IPv4		
Save	Switch	Back

IPv6

The phone supports IPV6 network mode, it needs the IPV6 Switch support.

And gains IP address via DHCP and Static IP two modes.

LAN port		
1. Mode IPv6		
Save	Switch	Back

IPv4&IPv6

The phone also supports IPV4&IPV6 network mode.

LAN port		
1. Mode IPv4		
Save	Switch	Back

➤ PC Port

Only bridge mode support by PC port.

➤ VLAN

The feature of VLAN must be supported by network switch, and by default this feature it's not activated.

Set the VLAN via Web: **Network > Advanced > VLAN**.

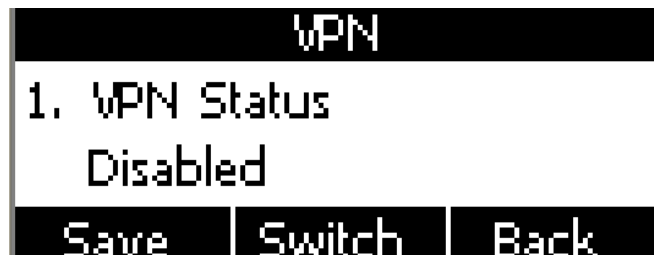
➤ Webserver Type

Webserver type include HTTP and HTTPS, different access port will be required by different access type, user is able to confirm the port info at the webpage, HTTP & HTTPS are both permitted by default.

Set Webserver type via Web: **Network > Advanced > Web Server > Type.**

➤ **VPN**

NRP2000/W support the feature of Open VPN, and this feature must be supported by VPN Server.



The screenshot shows a terminal-style interface with a black header bar containing the text "VPN" in white. Below the header, the text "1. VPN Status" is displayed, followed by "Disabled" in a larger font. At the bottom, there are three buttons: "Save", "Switch", and "Back", each enclosed in a black box with white text.

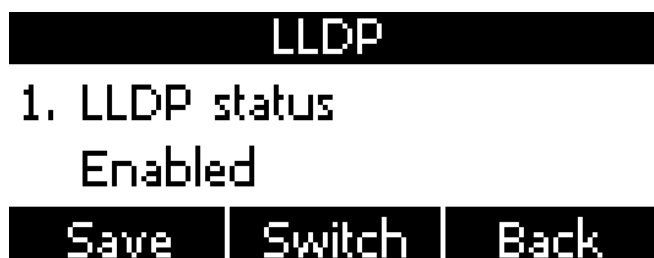
Set the VPN via Web: **Network > Advanced > VPN.**



The screenshot shows a web browser interface for the VPN configuration page. At the top, there is a header bar with the text "VPN" and an information icon. Below the header, there is a section labeled "Active" with a dropdown menu set to "Disable". Underneath, there is a section labeled "Upload OpenVPN Config" with a text input field and a "Browse..." button. At the bottom, there is an "Import" button.


➤ **LLDP**

NRP2000/W supports LLDP, and enable in default. If the phone is connected to a switch and using LLDP, the switch would notifies IP phone of VLAN information.



The screenshot shows a terminal-style interface with a black header bar containing the text "LLDP" in white. Below the header, the text "1. LLDP status" is displayed, followed by "Enabled" in a larger font. At the bottom, there are three buttons: "Save", "Switch", and "Back", each enclosed in a black box with white text.

Set the LLDP via Web: **Network > Advanced > LLDP**

**New Rock
TECHNOLOGIES**

Basic

Account

Network

DSS Keys

Phone

Contacts

Basic

Wi-Fi

Advanced

LLDP

Active

Enabled

Packet Interval (1-3600 s)

60

CDP

Active

Enabled

Packet Interval (1-3600 s)

60

➤ **802.1X**

IEEE 802.1X authentication is an IEEE standard for Port-based Network Access Control (PNAC), part of the IEEE 802.1 group of networking protocols. It offers an authentication mechanism for devices to connect to a LAN or WLAN.

It supports protocol EAP-MD5, EAP-TLS, EAP-PEAP/MSCHAPv2, EAP-TTLS/EAP-MSCHAPv2, EAP-PEAP/GTC and EAP-TTLS/EAP-GTC for 802.1X authentication.

Set the 802.1X via the webpage: **Network > Advanced > 802.1X**

802.1X ⓘ

Mode	<div>Disable ▼</div>
Anonymous Identity	<div></div>
Identity	<div></div>
Md5 Password	<div></div>
CA Certificates	<div><div></div><div>Browse...</div></div>
	<div>Import</div>
Device Certificates	<div><div></div><div>Browse...</div></div>
	<div>Import</div>

4. Keypad Lock

It support enable or disable the keypad lock feature, if enable, **the default password is 123:**

Please move the navigation key to check more

Keypad Lock

1. Lock enable Disabled

Save

Switch

Back

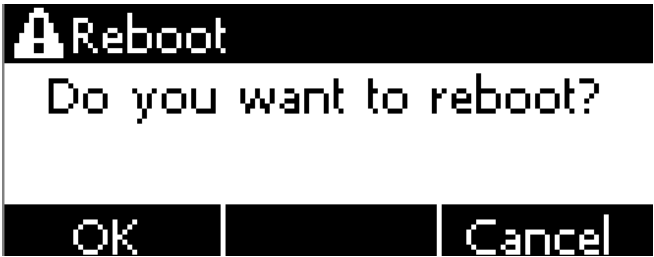
Keypad lock via webpage: **phone** > **Phone lock**

The screenshot displays the 'Phone Lock' configuration page in the NRP2000/W IP Phone web interface. The top navigation bar is teal with white text for 'Basic', 'Account', 'Network', 'DSS Keys', 'Phone', and 'Contacts'. The left sidebar is light gray with a list of settings categories: 'Forward&DND', 'Preferences', 'Features', 'Upgrade', 'Auto Provision', 'Configuration', 'Remote Control', 'Action URL', 'Tones', 'Dial Plan', 'Voice', and 'Phone Lock' (which is highlighted in teal). The main content area has a light gray header 'Phone Lock' and contains five configuration fields with corresponding input controls: 'Keypad Lock Status' (dropdown menu showing 'Disabled'), 'Keypad Lock Type' (dropdown menu showing 'Menu Keys'), 'Phone Unlock PIN (0~15 digits)' (text input with '***' and a password icon), 'Phone Lock Timeout (0~3600 sec)' (text input with '10'), and 'Emergency Numbers' (text input with '110,120,119,911' and an information icon). At the bottom right of the form are 'Confirm' and 'Cancel' buttons.

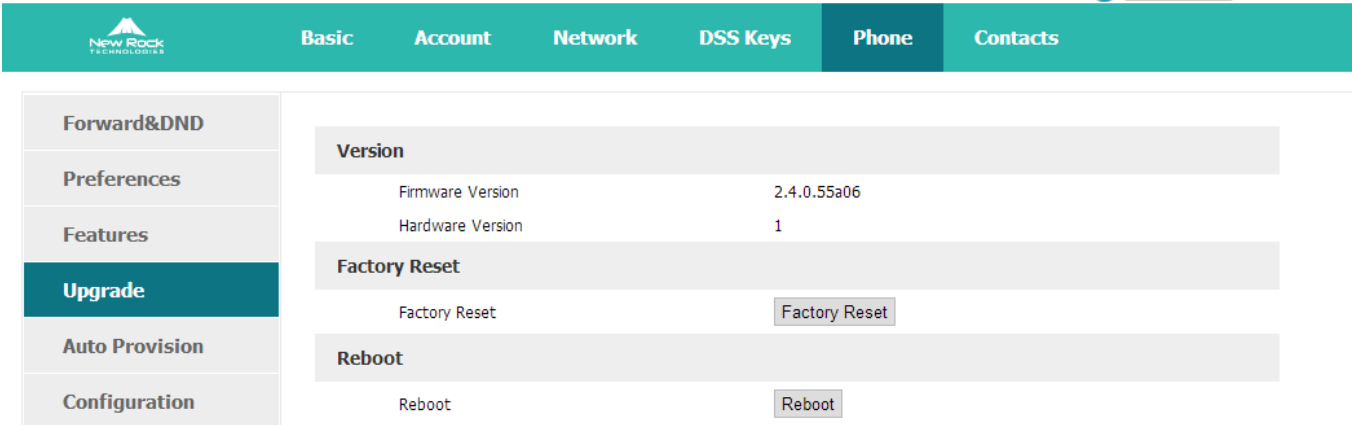
1. Keypad Lock Enable: select “Yes” or “No” to enable or disable keypad lock
2. Keypad Lock Type: Menu key/Function keys/All keys/Answer call only.
3. Phone Unlock PIN (0~15 Digit): set the phone unlock PIN. Range: 0~15 digit.
4. Phone Lock Time Out (0~3600s): set the phone lock time out. Range: 0~3600s
5. Emergency: set emergency number. Default to 110.120.119 and 911.

5. Reboot

After the restart, the phone will back to standby interface.

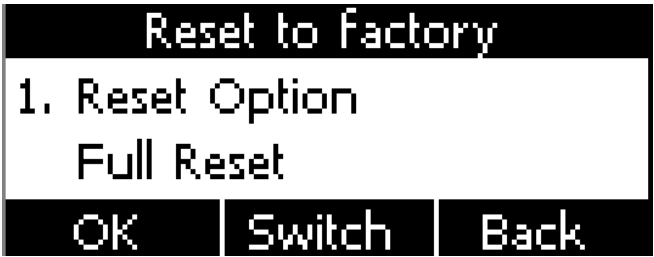


Reboot via webpage: **Phone > Upgrade > Reboot**



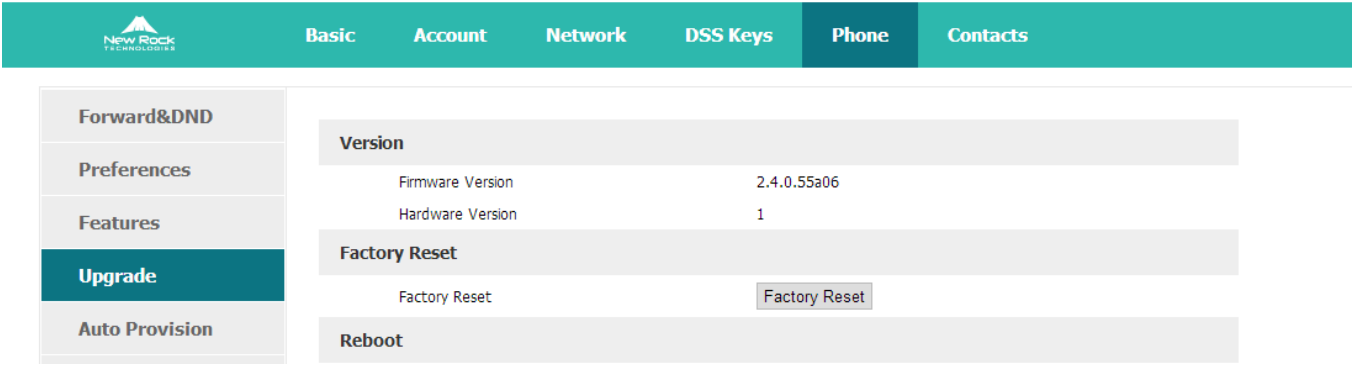
6. Reset to Factory

Once reset to factory, all parameter settings will back to the factory default value, and all configure will be cleared, users must be careful on this.



Reset Option: **Full Reset**, **Config Reset** and **UserData Reset**.

Reset to factory via Web: **Phone > Upgrade > Reset to Factory**.





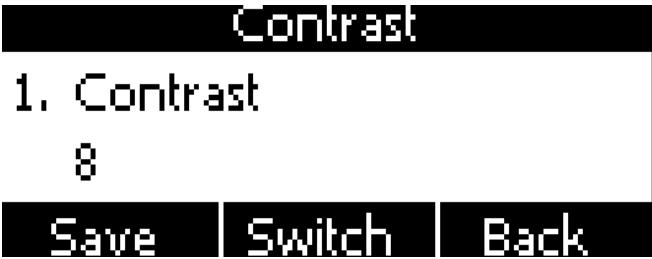
4.4.7 Display

For more convenient, users are able to adjust the contrast grade and backlight of the main LCD display.



1. Slave Contrast

There are 9 different contrast grades for options, press the soft key **“Switch”** or the key   for modification, 8 is the default value.



2. Backlight


Backlight is the brightness of LCD, also it has been defined as 9 different grades. The number “9” means the lightest.


Backlight		
1. Main Backlight		
9		
Save	Switch	Back



5 Advanced Feature

5.1 Codecs

NRP2000/W support multiple codecs, users can select the codes via Web.

 means to enable the item of “Disabled Codes”;

 means to disable the item of “Enabled Codes”;

Click the button  or  to sort all enabled codes, the top item has the highest priority.

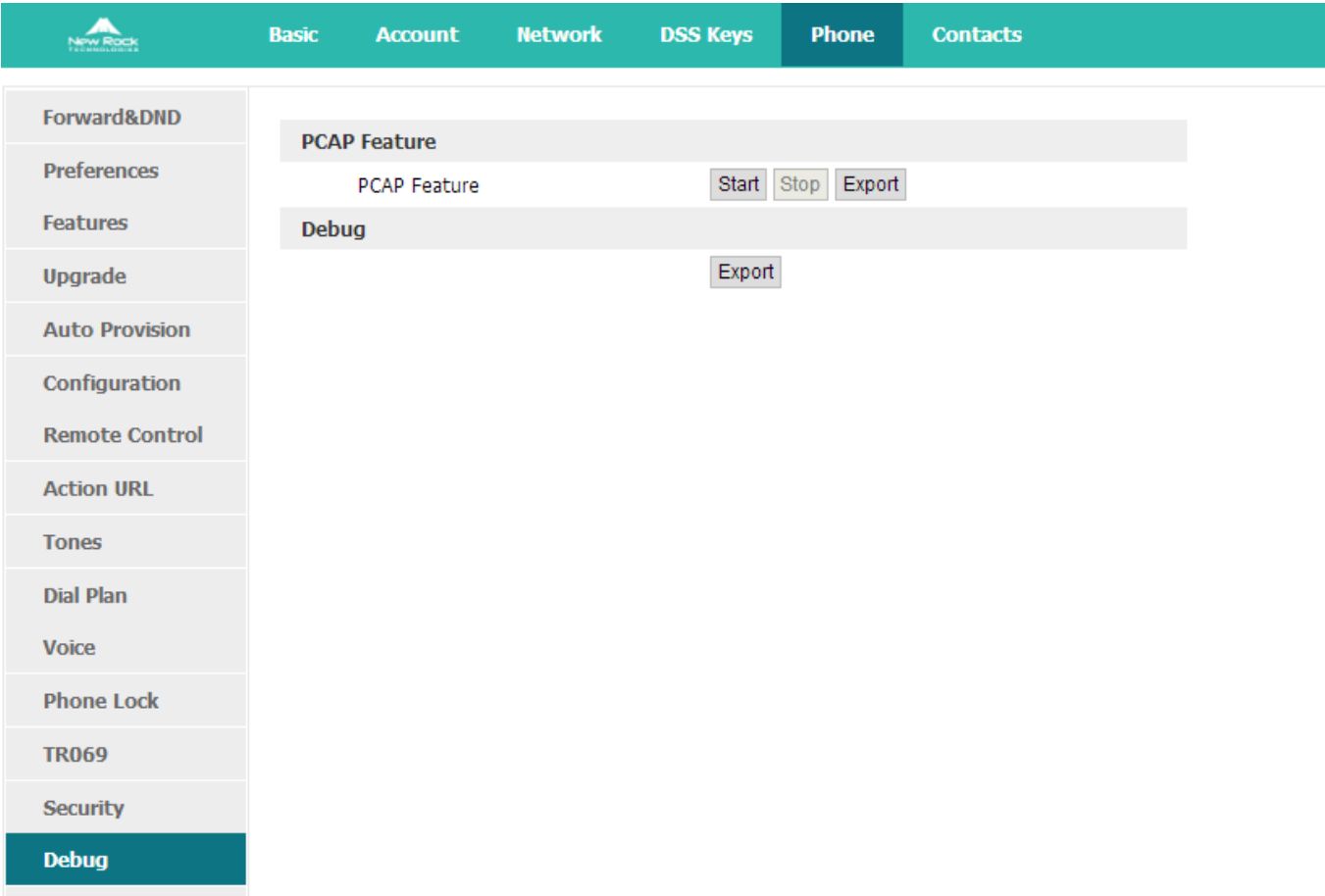
Note: Multiple different items of G726, iLBC should not activated simultaneously.

5.2 Capture and Upgrading

Capture package:

It would record the phone current info.

Via webpage: **phone > Debug > PCAP Feature**



Click the button “Start” to start the capture and click the button “Stop” to end the capture. Then click the button “export” to download the capture file.

Upgrade firmware:

Via webpage: **phone > Upgrade > Upgrade Firmware**

The screenshot displays the New Rock Technologies web interface. At the top, there is a navigation bar with the company logo and several menu items: Basic, Account, Network, DSS Keys, Phone, and Contacts. The 'Phone' menu item is currently selected. On the left side, there is a vertical sidebar with various configuration options: Preferences, Features, Upgrade (which is highlighted), Auto Provision, Configuration, Dial Plan, Voice, Phone Lock, Security, Debug, Trusted Certificates, and Server Certificates. The main content area on the right is titled 'Upgrade Firmware' and contains three sections: 'Version', 'Factory Reset', and 'Reboot'. The 'Version' section shows the current 'Firmware Version' as 2.2.0.48be2 and the 'Hardware Version' as 12. The 'Factory Reset' section has a 'Factory Reset' button. The 'Reboot' section has a 'Reboot' button. The 'Upgrade Firmware' section, which is the active area, includes an information icon, a 'Select Firmware' label, a text input field, a 'Browse...' button, and an 'Upgrade' button.

Version	
Firmware Version	2.2.0.48be2
Hardware Version	12

Factory Reset	
Factory Reset	<button>Factory Reset</button>


Reboot	
Reboot	<button>Reboot</button>

Upgrade Firmware <i>i</i>	
Select Firmware	<input type="text"/> <button>Browse...</button>
	<button>Upgrade</button>

Before upgrading the firmware of phone, users are suggested to check the version of current firmware. Click the button “Choose file” to select the target local file and click “Upgrade” to process upgrading, this will cost a couple of minutes. And after reboot, the phone will be upgraded successfully.

5.3 Auto Provision

User is able to configure the phone to upgrade automatically.



Basic

Account

Network

DSS Keys

Phone

Contacts

Forward&DND

Preferences

Features

Upgrade

Auto Provision

Configuration

Remote Control

Action URL

Tones

Dial Plan

Voice

Phone Lock

TR069

Security

Debug

Auto Provision

PnP Active

☒ On
☐ Off

DHCP Active

☒ On
☐ Off

Provisioning Server

User Name

Password

Common AES Key

MAC-Oriented AES Key

Check New Config

☒ On
☐ Off

Repeatedly

☐ On
☒ Off

Interval (min)

Weekly

☐ On
☒ Off

Time

: -- :

Day of week

☒ Sunday
☒ Monday
☐ Tuesday
☐ Wednesday
☐ Thursday
☐ Friday
☒ Saturday

Confirm

Cancel

Item	Description
PnP Active	Select "On" or "Off" to enable or disable PnP automatic updates
DHCP Active	Select "On" or "Off" to enable or disable DHCP option automatic updates
Provisioning Server	The address to save control file for auto upgrading, it can be http, https, tftp and ftp server, for example, tftp://192.168.1.111
User Name	The username to access the file server
Password	The password to access the file server
Common AES Key	Configures the plaintext AES key for decrypting the Common CFG file
MAC-oriented AES KEY	Configures the plaintext AES key for decrypting the MAC-oriented CFG file
Check New Config	If set this parameter as "On", the phone will do some check for upgrading, and it will upgrade automatically once the conditions are met

Repeatedly	If set this parameter as “On”, the phone will do some check for upgrading after “Interval(minutes)”, and it will upgrade automatically once the conditions are met
Interval(minutes)	This parameter is configurable once the Repeatedly is “On”
Weekly	If set this parameter as “On”, the phone will do the check for upgrading at a certain time in every week
Time	The time range that the phone do the check for upgrading every week, and it's configurable once the Repeatedly is “On”
Day of week	The day of week that the phone do the check for upgrading every week, and it's configurable once the Repeatedly is “On”

5.4 Export & Import Configuration File

If user wants to set the same configuration on multiple phones, there is an easy way that export the configuration file from one phone and then import this file into other phones. This operation can be completed via Web only.



5.4.1 Export Configuration File

There is two ways to export the configuration files,









- Don't check the “Export User Data” and click “Export” directly, it will export the template of the configuration file;

- Check the “Export User Data” and then click “Export”, it will export a configuration file that carries with user’s configured data.

To modify the exported configuration file, you should to decompress it until you get a file names as configuration.

Name	Date modified	Size
 configuration	2014/10/10 11:14	
 config.tar.gz	2014/10/10 11:14	9 KB

The content of configuration file listed as below,

Name	Date modified	Type	Size
 Calllist	2014/10/10 11:14	File folder	
 Contacts	2014/10/10 11:14	File folder	
 DialRule	2014/10/10 11:14	File folder	
 Features	2014/10/10 11:14	File folder	
 Network	2014/10/10 11:14	File folder	
 Phone	2014/10/10 11:14	File folder	
 Setting	2014/10/10 11:14	File folder	
 voip	2014/10/10 11:14	File folder	

5.4.2 Import Configuration File

Click the button “Choose file” to select the target file for importing, and then click the button “Import”. The phone will be rebooted a couple of minutes later, and import successfully.

Note: If some part of the configuration file has been modified manually, it must be re-compressed as the format of “tar.gz” in Linux

5.5 Export & Import CFG file

The phone download CFG files includes the provision configure file Common.cfg and MAC.cfg file.

Import/Export CFG File ⓘ

Import/Export CFG File
Browse... No file selected.

Import Export

Import CFG file:

It supports import the phone provision configure file, no need server support.

Export CFG file:

It downloads the phone configuration CFG file.

5.6 Export System Log

When the phone doesn't working well, System log is the best assistant tools for troubleshooting, all operation details has been recorded. This operation is available via Web only.

Export System Log

Log Location

Server Name

Log Level

☐ Local
☒ Server

Info ▼

Export

Item	Description
Log Location	You can import the system log to local PC or remote Server.
Server Name	User must fill the address of server if you choose to export the system log to remote server.
Log Level	It defines the detail of system log as 5 different levels, Fatal, Error, Warning, Info, and Debug. The Debug level is the most detailed.

5.7 Dial Plan

The customized Dial Plan are available, for example, the rule of replacement, Instant Calling, Area code, Restriction of Outbound.

Before customizing the dial plan, user must learn the basic grammar as below,

.	Represent a character or multiple ones, e.g., "6." can match "66","678","6plus" and so on
x	Represent one character, e.g., "6x" can match "61","62", "6s" and so on
[]	Represent a character in one range, e.g., " 83[0-5]18618"can matche"83018618","83488618" and so on
()	Represent the combination of characters, e.g., "([1-9])([2-7])3" can match "923","153","773" and so on
\$	Add a number after the character "\$" to define the location of the characters, e.g., use the prefix " 8([1-3])(.)" to replace "7\$2", the phone will call "7837" after dialing out "82837"

Note: Any operations (add, modify or delete) on the current dial plan will be not effective until click "Save".

5.7.1 Replace Rule

Dial plan “Replace Rule” means to replace a batch of complicated character string by some simple characters, to make a speed dial.

Item	Description	Sample
Number	The string works as replacer, not null	Set Number as “6”, Set Replace as “6032”, Set Account as “1”. It means when dial 6, the phone will dial 6032.
Replace	The string that to be replaced, not null	
Account	The account to apply this dial plan, blank or 1 is valid.	
Add	Multiply replace rules can be configured in one phone, after one replace dial plan configured, click this button to add a new one	
Edit	The existed replace dial plans are editable. The specified dial plan should be selected until it is covered with orange and the input fields “Number” and “Replace” shows the details correctly. After modifying, click button “Edit” to make it to be effect	
Delete	Delete one added or saved replace dial plan or multiple ones, click the frame after the specified replace dial plan before delete it, and then click button “Delete”	

Save	Any alteration won't take effect until the button "Save" is clicked.	
-------------	--	--

5.7.2 Dial-Now

Dial plan "Dial-now" permits the corresponding phone to be dialed instantly without pressing the soft key "Dial", once the input has been matched. It works like a hotline.

The screenshot shows the configuration interface for the NRP2000/W IP Phone. The top navigation bar includes tabs for Basic, Account, Network, DSS Keys, Phone, and Contacts. The left sidebar lists various configuration options: Forward&DND, Preferences, Features, Upgrade, Auto Provision, Configuration, Remote Control, Action URL, Tones, and Dial Plan (which is currently selected). The main content area is titled 'Dial Now' and contains a table with columns: Index, Dial Now Rule, Account, and a checkbox. Below the table, there are input fields for 'Dial Now Rule' and 'Account', and buttons for 'Add', 'Edit', 'Delete', and 'Save'.


Item	Description	Sample
Dial-now Rule	The string to be dialed out automatically by the phone	Set "Dial-now Rule" as 6xxx, keep "Account" as null
Account	The account to apply this dial plan, blank or 1 is valid.	It means the phone will use the 1st available account to call 6033 after "Dial-now Time-out" seconds when inputting four figures begin with 6
Add	Multiply dial-now rules can be configured in one phone, after one dial-now dial plan configured, click this button to add a new one	
Edit	The existed dial-now dial plans are editable. The specified dial plan should be selected until it is covered with orange and the input fields "Number" and "Dial-now" shows the details correctly. After modifying, click button "Edit" to make it to be effect	Note: Dial-now rule is different with hotline. The Dial-now rule will take effect when input numbers match the dial plan, and hotline takes
Delete	Delete one added or saved dial-now dial plan or multiple ones, click the frame after the specified	

	dial-now dial plan before delete it, and then click button "Delete"	effect in situation that the phone is in dialing state
Save	Any alteration won't take effect until the button "Save" is clicked.	

Set "Dial-now Time-out" via web: **Phone > Features > General Information > Dial-now Time-out (secs)**.

5.7.3 Area Code

Dial plan "Area Code" has been defined to identify each different area. To call a phone number of other areas, user must add the area code to be in front of the phone number. For convenience, area code has been recommended to be configured while frequently dialing to that type of phone number.


Basic
Account
Network
DSS Keys
Phone
Contacts

Forward&DND
Preferences
Features
Upgrade
Auto Provision
Configuration
Remote Control
Action URL
Tones
Dial Plan


Replace Rule	Dial Now	Area Code	Block Out
Code	<input type="text"/>		
Minimum length	<input type="text" value="8"/>	(1~15)	
Maximum length	<input type="text" value="15"/>	(1~15)	
Account	<input type="text"/>		
<div> <input type="button" value="Confirm"/> <input type="button" value="Cancel"/> </div>			

Item	Description	Sample
Code	The area code dialed before the number	Set "Code" as "0086577", Set "Minimum length" as "5". It means when dialing 83018618 with the 5 th account, the phone will dial 0086577 before it. Note: If the length of the number input in the dial UI is not between minimum length and the maximum length, area code will not take effect
Minimum length	The minimum length of the number input to active the area code dial plan	
Maximum length	The maximum length of the number input to active the area code dial plan	
Account	The account to apply this dial plan, blank or 1 is valid.	
Confirm	Apply this dial plan	
	Recover all input fields to the state that saved at latest time	

Cancel		
---------------	--	--

5.7.4 Block Out

Dial plan “Block out” is used to prohibit the phone number outgoing call from some accounts.



Basic
Account
Network
DSS Keys
Phone
Contacts

Forward&DND
Preferences
Features
Upgrade
Auto Provision
Configuration
Remote Control
Action URL
Tones
Dial Plan

Replace Rule	Dial Now	Area Code	Block Out
Block Out Number1	<input type="text"/>	Account	<input type="text"/>
Block Out Number2	<input type="text"/>	Account	<input type="text"/>
Block Out Number3	<input type="text"/>	Account	<input type="text"/>
Block Out Number4	<input type="text"/>	Account	<input type="text"/>
Block Out Number5	<input type="text"/>	Account	<input type="text"/>
Block Out Number6	<input type="text"/>	Account	<input type="text"/>
Block Out Number7	<input type="text"/>	Account	<input type="text"/>
Block Out Number8	<input type="text"/>	Account	<input type="text"/>
Block Out Number9	<input type="text"/>	Account	<input type="text"/>
Block Out Number10	<input type="text"/>	Account	<input type="text"/>


Confirm
Cancel

Item	Description	Sample
Block Out Number	The number that prohibited	Set “Block Out Number 1”as”10086” It means the phone will enter the “Call End” UI when dial “10086”
Account	The account to apply this dial plan, blank or 1	
Confirm	Apply this dial plan	
Cancel	Recover all input fields to the state that saved at latest time	

5.8 TR069

The TR069 feature is used to remotely manage the devices such as gateways and routers in the general user network from the network side. It mainly includes two types of logical devices: managed user equipment and management server (ACS).

TR069 can remotely configure the phone, upgrade firmware and so on.



[Basic](#)
[Account](#)
[Network](#)
[DSS Keys](#)
[Phone](#)
[Contacts](#)

Forward&DND

Preferences

Features

Upgrade

Auto Provision

Configuration

Remote Control

Action URL

Tones

Dial Plan

Voice

Phone Lock

TR069

TR069

Enable TR069

ACS URL

ACS Username

ACS Password

Enable Periodic Inform

Periodic Inform Interval (sec)

Connection Request Username

Connection Request Password

Disabled

JaN-80828703E31E

.....

Enabled

3600

Confirm

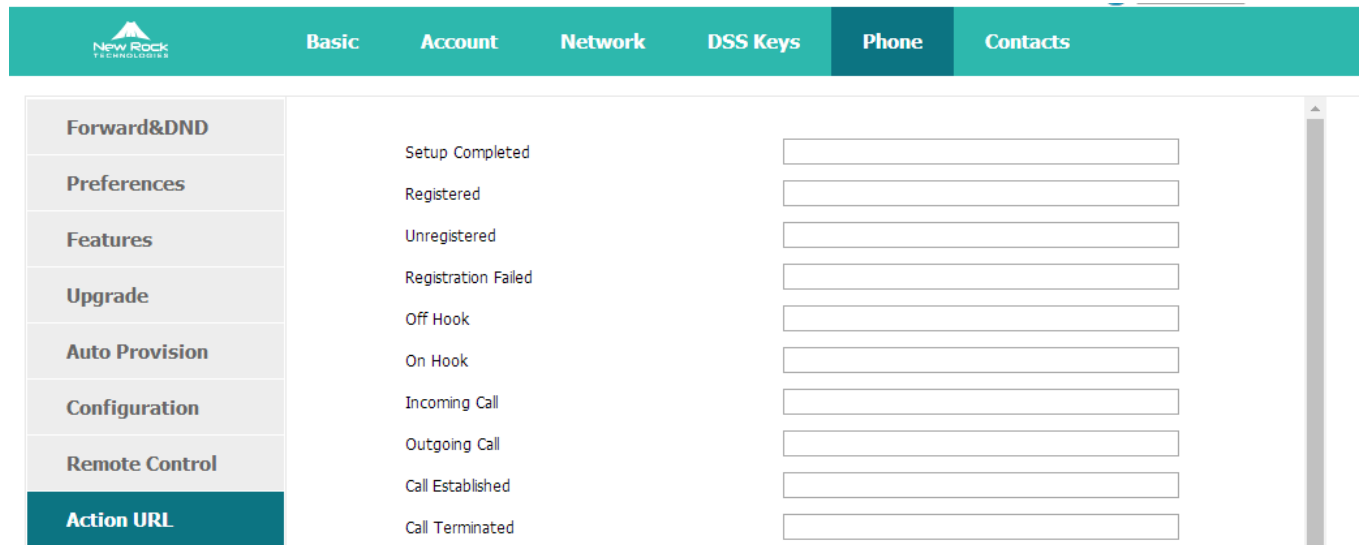
Cancel

Item	Description
Enable TR069	It enables or disables the TR069 feature
ACS URL	It configures the access URL of the ACS(Auto Configuration Servers)
ACS Username	It configures the user name for the phone to authenticate with the ACS
ACS Password	It configures the password for the phone to authenticate with the ACS
Enable Periodic Inform	It enables or disables the phone to periodically report its configuration information to the ACS
Periodic Inform Interval(seconds)	the interval 5~4294967295
Connecting Request Username	It configures the user name for the IP phone to authenticate the incoming connection requests
Connecting Request Password	It configures the password for the IP phone to authenticate the incoming connection requests

5.9 Action URL

Action URL allows IP phones to interact with web server applications by sending an http or https GET request.

Mainly used in CTI (Computer Telephony Integration) scene, such as: call center.

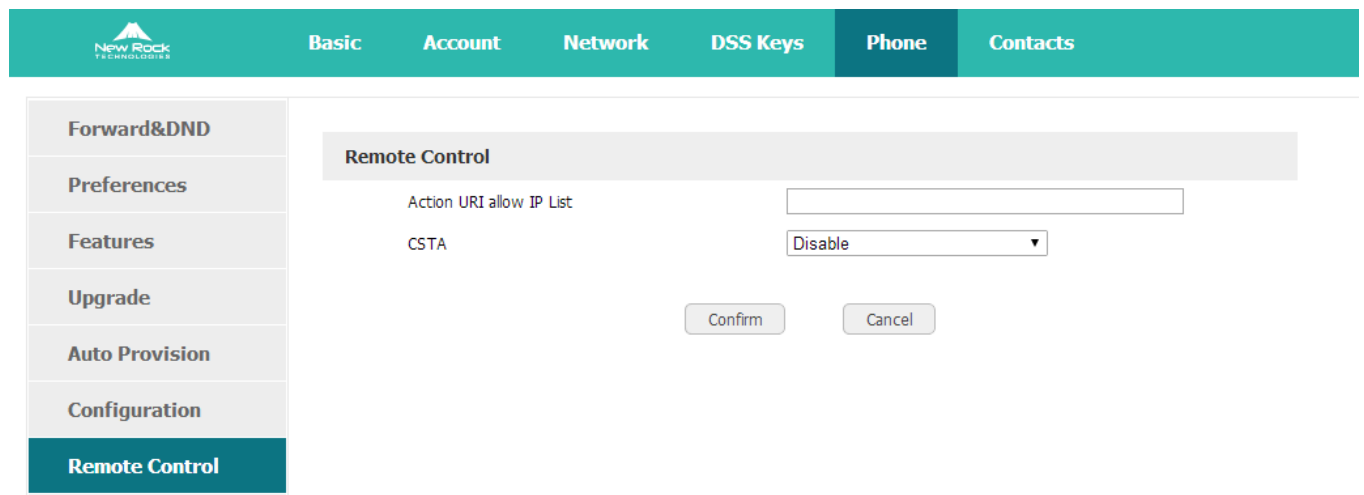


Menu Item	Call State	Input Field
Forward&DND	Setup Completed	<input type="text"/>
	Registered	<input type="text"/>
	Unregistered	<input type="text"/>
	Registration Failed	<input type="text"/>
	Off Hook	<input type="text"/>
	On Hook	<input type="text"/>
	Incoming Call	<input type="text"/>
	Outgoing Call	<input type="text"/>
	Call Established	<input type="text"/>
	Call Terminated	<input type="text"/>

5.10 Remote Control

Remote control (Active URL) refers to the remote control of the phone for a variety of operations, mainly used in CTI (Computer Telephony Integration) scene,

Such as: call center, the operator on the computer to operate the phone, then make the call, answer the call and other function.



Remote Control

Action URI allow IP List:

CSTA:

Item	Description
Action URI allow IP list	Input an IP address control phone, such as 172.16.0.235

	Input multiple IP address control phone, use ',' separated, for example: 172.16.0.235,172.16.0.23,172.16.0.15
	Input any, any PC can control the phone, for example: any
CSTA	Will open or close DND & Forward request to the server (needs server support)

6 Wi-Fi

6.1 Configure the Wi-Fi on the Phone

1. Press **"Menu"** > **"Wi-Fi Settings"** > **"Switch"**, open the Wi-Fi connection mode.
2. Please move the navigation key to check the Wi-Fi you want to connect, Press **"Connect"**, then input the correct Wi-Fi password.
3. Return to the standby interface, and phone successful connected to the Wi-Fi.
4. The last option is Manual setting, press 'Enter', then input the SSID and password.



6.2 Configure the Wi-Fi on the Web

NRP2000/W connects to network via Wi-Fi acquiescently, click **"Search Wi-Fi"** button to search the available Wi-Fi.

The screenshot displays the web interface for configuring the NRP2000/W IP phone. The top navigation bar is teal with white text for 'Basic', 'Account', 'Network' (highlighted), 'DSS Keys', 'Phone', and 'Contacts'. The left sidebar is white with a teal header 'Wi-Fi' and buttons for 'Basic', 'Wi-Fi' (highlighted), and 'Advanced'. The main content area has a light gray background. At the top of this area is a warning: 'Wi-Fi Setting (When wifi is on, please disconnect the network cable!)'. Below this, there's a 'Wi-Fi' label followed by a radio button interface with 'Off' and 'On' options, where 'On' is selected. A 'Search Wi-Fi' button is positioned below the toggle. Further down are two input fields: 'Current SSID' and 'Secret Key'. At the bottom of the form are two buttons: 'Confirm' and 'Cancel'.

After all available Wi-Fi hotspots are list out, click the round behind the available Wi-Fi which you want to connect.

Wi-Fi Listing			
Index	SSID	Signal	Select
1	cisco	211	<input type="radio"/>
2	360	207	<input type="radio"/>
3	re	207	<input type="radio"/>
4	amoji	205	<input type="radio"/>
5	CHINA TELECOM	205	<input type="radio"/>
6	360_WiFi-C9	197	<input type="radio"/>
7		197	<input type="radio"/>
8		190	<input type="radio"/>
9	inWatch3	189	<input type="radio"/>
10	ChinaNet-7A6t	188	<input type="radio"/>
11	360_WiFi-9F	185	<input type="radio"/>
12	iTV-7A6t	185	<input type="radio"/>
13	inWatch2	185	<input type="radio"/>
14	Royale International China	184	<input type="radio"/>

Input the right “**Secret Key**” and then click the “**Confirm**” button, the phone will reboot, after rebooting, the Wi-Fi icon will display on the home screen, it means connect failed when the icon come with , then you should check the configuration. If the icon come with , it means connect successfully.

6.3 Enterprise Wi-Fi

It supports WPA/WPA2 Enterprise Wi-Fi, it is based on Radius sever and configuration the Enterprise Wi-Fi in the router.

Configure the Enterprise Wi-Fi:

1. Upload the Certificates

Via the webpage: “**Phone**” > “**Trusted Certificates**”

Index	Issued To	Issued By	Expiration	Delete
0				<input type="checkbox"/>

Import Trusted Certificates

Load trusted certificates file

2. Input the Wi-Fi account info

Via the webpage: “**Phone**” > “**Network**” > “**Wi-Fi**”

Press the “Search Wi-Fi”, and select the SSID, then input the radius ID and password.

Via the phone:

Press “**Menu**” > “Wi-Fi **Settings**”, and select the SSID, then input the radius ID and password.

7 FAQ

7.1 How to Reset to Factory

There are 3 methods for factory reset:

1. Factory reset via phone:



- a) Press the key
- b) Select “Settings”, then press the soft key “Enter”
- c) Select “Advanced Settings”, then press the soft key “Enter”
- d) Input the access password, then press the soft key “Enter”
- e) Select “Reset to factory”, then press the soft key “Enter”
- f) Press the soft key “OK”, then the phone will be reboot and resumed to factory default settings

2. Factory reset via Web:

- a) Key in the IP address of phone with a browser,
- b) Access the webpage of phone as the role of “admin”, username/password is admin/admin.
- c) Select “Phone”
- d) Select “Upgrade”
- e) Click the button “Reset to Factory”
- f) Click the button “OK”

3. Factory reset during starting:

- a) Hold the key “*” and “#” while power on for 5 seconds

- b) The phone will be reboot and resumed to factory default setting

7.2 Upgrade the Firmware on Safe Mode

If the phone can't be started successfully, user is able to upgrade the firmware on post mode,

- a) Setup a TFTP Server and set the PC's IP address as "192.168.1.200"
- b) Copy the kernel file we supplied to the root menu of TFTP Server
- c) Ensure the TFTP Server and phone are connected to the same network switch and both reachable
- d) Long Press the key "*" and "1" to upgrade the kernel file, and then plug in power until upgrading information displayed on LCD
- e) The phone will start downloading file from TFTP server
- f) After downloading completed, the phone will be automatically upgraded
- g) After upgrading completed, the phone will be started with the factory default settings

7.3 How to Make a IP-to-IP Call

1. Press it in dialing status
2. To make a IP peer to peer call

Using press "*" to choose "." that in the IP address. For example, to dial "192.168.1.100", just need input "192", "*", "168", "*", "1", "*", "100".

3. Disable the IP-to-IP call feature

Via webpage modify the make IP call feature:

Phone > Feature > Accept SIP Trust Server Only, press **"Enable"**.

	Basic	Account	Network	DSS Keys	Phone	Contacts
Forward&DND						
Preferences						
Features						
Upgrade						
Auto Provision						
Configuration						
Remote Control						
Action URL						
Tones						
Dial Plan						
Voice						
Phone Lock						
TR069						
Security						
Debug						

General Information

Interdigit Timeout (sec)

8

(1~14)

Auto Answer

Disabled

Call Waiting

Enabled

Hotline

Hotline Timeout (0~180 sec)

4

Key As Send

#

Dial-now Timeout (sec)

1

Busy Tone Timer (sec)

0

Return Code When Refuse

486 (Busy here)

Return Code When DND

480 (Temporarily not ava

RFC 2543 Hold

Enabled

Use Outbound Proxy in Dialog

Disabled

Login Timeout (1~1000 min)

10

Hide DTMF

Disabled

Watch Dog

Enabled

Accept SIP Trust Server Only

Disabled

Record User ID

8 Trouble shooting

8.1 The Phone Failed to Register to SIP Server

1. First of all, check the IP address. If the LAN port is DHCP, please ensure the DHCP server has been enabled.
2. Check the network gateway
3. Check the DNS
4. Make sure the input account matched the one provided by Service Provider
5. Make sure SIP Server has been enabled already
6. Make sure the Port of SIP Server, it's 5060 by default

8.2 The Phone Failed to Gain IP Address

1. Make sure the network cable has been plugged into the LAN port
2. Make sure the network cable or port of network switch are working fine,
3. Make sure the DHCP server has been enabled, and there are available IP address
4. Try to set the LAN port as Statics IP

8.3 Only one Party can Hear From Another on Calling

1. Try to make a IP peer to peer call, to make sure the mic and speaker are working fine
2. Enable STUN via Web
3. Set the address of STUN Server, for example stun.sipgate.com
4. Present this operation above and the phone will be reboot
5. Try to make a normal call again

9 Abbreviation

DND: Do Not Disturb

CFWD: Call Forward

Bxfer: Blind Transfer

Conf: Conference

Num: Number

SIP: Session Initiate Protocol

RTP: Real-time Transport Protocol

SDP: Session Description Protocol

VPN: Virtual Private Network

VLAN: Virtual Local Area Network

QoS: Quality of Service

Syslog: System log

UDP: User Data Protocol

TCP: Transmission Control Protocol

TLS: Transport Layer Security Protocol

BLF: Busy Lamp Field

DNS: Domain Name System

SRTP: Secure Real-time Transport Protocol

NTP: Network Time Protocol

VAD: Voice Activity Detection

CNG: Comfort Noise Generator

10 FCC Caution

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

The device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) The device may not cause harmful interference, (2) the device must accept any interference received, including interference that may cause undesired operation.

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

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.