

# VoIP Industrial Phone

## SP Series User Manual



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# Safety Notices

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

- Please use the external power supply that is included in the package. Other power supplies may cause damage to the phone, affect the behavior or induce noise.
- Before using the external power supply in the package, please check with the power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it, it may cause fire or electric shock.
- The plug-socket combination must be accessible at all times because it serves as the main disconnecting device.
- You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

## 1. Introduction

Thank you for your purchasing our SIP phone, it is a rugged telephone that provides voice communication over the same data network that your computer uses.

This phone is designed for use in harsh, dusty, wet and noisy conditions such as mining, subway, tunnel, marine, off-shore, industrial and outdoor sites

This guide will help you easily use the phone.

The phone has two Network ports: The LAN port . Before you connect the power source, please carefully read Safety Notices below

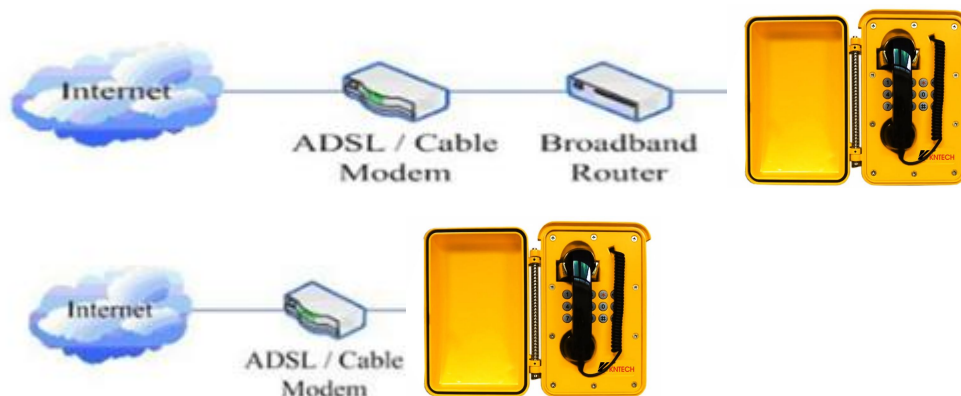
## 2. Initial connecting and Setting

### 2.1. Connect the phone

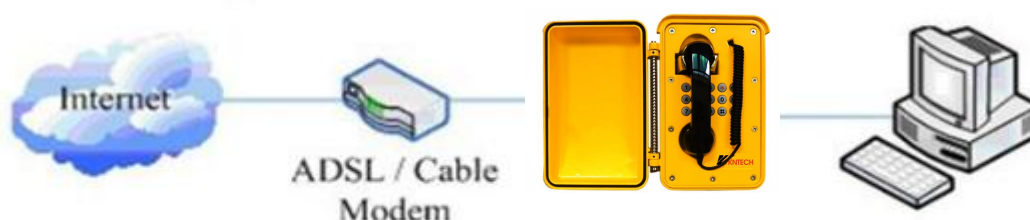
Step 1: Connect the IP Phone to the corporate IP telephony network. Before you connect the phone to the network, please check if your network can work normally.

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 LAN port on the back of your phone to the Ethernet port in your workspace. 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 LAN 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.



## 3. Basic Functions

### 3.1. Accepting a call

- Picking up handset to accept incoming calls.

### 3.2. Making a call

#### 3.2.1 Free dial

- Picking up handset and then press the number, it will dial out.

#### 3.2.2 Hot-line dial

- Picking up handset, it will dial out directly. Set hot-line in advance.

### 3.3. Ending a call

- Hang back the handset to end calls

	Model No.			
Item	KNSP-01/KNSP-09 KNSP-08/KNSP-08L	KNSP-11/KNSP-08 KNSP-18 KNSP-18LCD	KNSP-16 KNSP-22	KNSP-18T/KNSP-10 KNSP-03/KNSP-26
Free dial	√	√	√	×
Hotline	×	×	×	√
Handset	√	√	√	√

- Dial 9 \* 9 \* 200, the phone will broadcast IP address.
- Dial 9 \* 9 \* 100, it will restore the factory setting.

## 4. Operation

### 4.1 Setting via Web Browse

Set the computer and telephone in same LAN network;

When this phone and your PC are connected to network, open the Internet Explorer and then enter the IP address of the LAN port in this phone (e.g. <http://xxx.xxx.xxx.xxx>). (If the log port is not standard port 80, you should input <http://xxx.xxx.xxx.xxx:xxxx/>) See the following web interface.

**User: admin**

**Password: admin**

The screenshot shows a web interface titled "Device Configuration". It has a light blue header. Below the header, there are three input fields: "User:" with the text "admin" entered, "Password:" with five black dots, and "Language:" with a dropdown menu showing "English". Below these fields is a "Login" button.

※If you didn't save the setting, the system would the configuration last time when powered on next time. After changing the parameter, click **【MANINTENANCE】** → **【CONFIG】** → **【SAVE】**, the configuration will be saved and take effect soon.

Before the below steps, please register the phone on your server. The solution **【SIP CONFIG】** → INPUT THE SERVER INFORMATION

## 4.2 WEB Configuration

### 4.2.1 Status

STATUS	
Field Name	Explanation
System	Shows the model number, and current time, status and IP address
Network	Shows the status of connection and other information
Accounts	Shows the status of registration

System
Network
Accounts

Status  
 Config  
 Sip Config  
 Maintenance  
 Logout

Phone Model:  
 Current Time:  
 Network Status:  
 IP Address:

KN-PB2  
 Thu Jan 1 12:37:55 1970  
**Usable**  
 192.168.0.66

### 4.2.2 SIP config

Get your SIP account from your server

Fill the IP address, port, account name, password and number as below.

Status  
 Config  
 Sip Config  
 Maintenance  
 Logout

SIP 1
SIP 2
SIP 3
SIP 4
SIP 5
SIP 6

Sip Enable: Enable ▼  
 Register Switch: ON ▼  
 Unregister Switch: ON ▼  
 Register Expire:  (30~3600)  
 Display Name:   
 Account Name:   
 Auth ID:   
 Password:   
 Register Server:   
 Register Port:   
 Domain:   
 User Agent:   
 sip Heart Beat: ON ▼  (1~60)

Dialing Rules>>

SIP Config	
Field Name	Explanation
Sip Enable	If the phone registered on your server successfully the status is Enable, or

	it shows Unabble															
Register Switch	ON															
Unegister Switch	OFF															
Display Name	Set the display name.This can be English name or telephone number															
Account Name	Set the server name.															
Auth ID	Input your SIP server ID															
Password	Set your SIP server password															
Register Server	Config SIP server's IP address															
Register Port	Config SIP server's port															
Domain	Config SIP server's IP address															
SIP Heart Beat	The interval time for detecting with server															
Dialing Rules	<div>1: Add "00" in the corresponding location Eg: (a:00) 2: Delete the digit in the corresponding location (d) 3: Modify the numbers to "89" Eg: (m:89) You can config the server IP and port. This setting go into effect after rebooting</div> <div><div>Dialing Rules&gt;&gt;</div><div><div>AddDelete</div><table><tr><td>Operate</td><td>Match Rule</td><td>Convert Rule</td><td>Server IP</td><td>Server Port</td></tr><tr><td><input type="checkbox"/></td><td>*</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td></td><td></td><td></td><td></td></tr></table><div>save</div></div></div>	Operate	Match Rule	Convert Rule	Server IP	Server Port	<input type="checkbox"/>	*				<input type="checkbox"/>				
Operate	Match Rule	Convert Rule	Server IP	Server Port												
<input type="checkbox"/>	*															
<input type="checkbox"/>																

### 4.2.3 Config

Network

Phone

Speed Dialing

Security

Time

Language

Status

Config

Sip Config

Security

Maintenance

Logout

**Connection Type:** Static Mode (fixed IP) ▼

Static Ip

Static Netmask

Static Gateway

Primary DNS Server

Secondary DNS Server

---

**auto-negotiation**

Link 0  ▼ speed  ▼ duplex  ▼

Link 1  ▼ speed  ▼ duplex  ▼

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**Network Port**

SIP Local Port

### 4.2.3.1 Network

You can set the connection type, auto-negotiation and network port.

Field Name	Explanation
Network	<p>Displays the configuration information on LAN port, including the connect mode of LAN port (Static, DHCP), MAC address, the IP address of LAN port, ON or OFF of DHCP mode of LAN port.</p> <p>Please select the proper network mode according to the network condition. Three different network settings:</p> <ul style="list-style-type: none"> <li>● Static: If your ISP server provides you the static IP address, please select this mode, then finish Static Mode setting. If you don't know about parameters of Static Mode setting, please ask your ISP for them.</li> <li>● DHCP: In this mode, you will get the information from the DHCP server automatically; need not to input this information artificially.</li> </ul>

### 4.2.3.2 Phone

You can set auto-answer, hookOn wait time, ringer tone, volume settings and codecs settings.

Field Name	Explanation
Phone	<p>Shows the time of auto-answer and automatic a on-hook, volume of ringing tone, mic, speaker, voice codec and etc.</p> <p><b>Notes: Codecs Setting</b></p> <p><b>Preference 1</b> G.711A/u,G.729,G726</p> <p><b>Preference 2</b></p>



	G.711A/u,G.729,G726, Nonuse <b>Preference 3</b> G.711A/u,G.729,G726, Nonuse <b>Preference 4</b> G.711A/u,G.729,G726, Nonuse <b>Preference 5</b> G.711A/u,G.729,G726, Nonuse
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### Setting hot-line:

Status: ON

Phone: inputting the telephone number

Line: SIP1

Network	Phone	Speed Dialing	Security	Time
<b>Auto Answer</b> <input type="checkbox"/> ON <input type="text" value="5"/> (1~30)				
<b>HookOn Wait Time</b> <input type="text" value="1"/> (1~30)				
<b>Set Ringer Tone</b> Ring Style <input type="text" value="0"/> Ring Volume <input type="text" value="7"/> (0~9)				
<b>Volume Settings</b> Mic Input Volume <input type="text" value="6"/> (1~9) Speak Output Volume <input type="text" value="1"/> (0~9)				
<b>Hot Line Settings</b> <input type="checkbox"/> ON Phone <input type="text" value="201"/> <input type="text" value="SIP1"/>				
<b>Codecs Settings</b> Preference 1: <input type="text" value="G.729"/> <input type="text" value="G.711 MU"/> <input type="text" value="G.711 A"/> <input type="text" value="G.723"/> <input type="text" value="G.726"/>				
<input type="button" value="Save"/>				

### 4.2.3.3Security

Supports 2 output setting

Supports modification on Output Level, Output Trigger Mode (Ring, on hook, talking, DTMF)



Field Name	Explanation
Security	Supports 2 output setting Supports modification on Output Level, Output Trigger Mode (Ring, on hook, talking, DTMF)

KOON Phone

Network

Phone

Speed Dialing

Security

Time

Language

Status

Config

Sip Config

Security

Maintenance

Logout

Sealing Condition: Unusable

Output Settings

Output 1: Null

Output Level Low Level

Output Trigger Mode Ring

Output Level Low Level

Ring Hook

Output Duration Custom Seconds

Hook Talking

Output Duration 5

Max Talk Duration 120 (20-600 seconds)

Output 2: Null

Output Level Low Level

Output Trigger Mode Ring

Output Level Low Level

Ring Hook

Output Duration Custom Seconds

Hook Talking

Output Duration 5

Max Talk Duration 120 (20-600 seconds)

Save

#### 4.2.3.4 Time

NTP Enable: Yes means synchronizing the time automatically via DHCP mode.

Field Name	Explanation
Time	<ol style="list-style-type: none"> <li>1. Configure primary NTP Server Address and server port</li> <li>2. Configure secondary NTP Server Address and server port</li> <li>3. Configure Time Zone</li> <li>4. Interval time for synchronizing with server. Default is 60 seconds.</li> </ol>

KOON Phone

Network

Phone

Speed Dialing

Security

Time

Language

Status

Config

Sip Config

Security

Maintenance

Logout

Time Settings

Manually Enter The Time

---

:

Year/Month/Day---Hour:Minute:Second

NTP Enable

☒ Yes
☐ No

Primary NTP Server Address

202.120.2.101

Primary NTP Server Port

123

Secondary NTP Server Address

us.pool.ntp.org

Secondary NTP Server Port

123

Check Interval

3600

s

Time Zone

GMT+8:00 (Beijing, Singapore, Taipei, Hong Kong)

Save

### 4.2.3.5 Language

Change the system language in Chinese or English

KOON Phone

Network

Phone

Speed Dialing

Security

Time

Language

Status

Config

Sip Config

Security

Maintenance

Logout

Language

Language Selection

English

Save

### 4.2.4 Maintenance

If the configuration finished, click “the reboot” on the phone to restart the phone.

Field Name	Explanation
Reboot	<p>If you save the above setting, click 'Reboot' button to restart the phone.</p> <div> <div>Reboot Phone</div> <div>Click 'Reboot' button to restart the phone!!</div> <div>Reboot</div> </div>
Config	<ol style="list-style-type: none"> <li>1.Click save, and then will save your config file. File format is <b>.txt</b> or <b>.xml</b></li> <li>2. Upload the config file: click view to find the config files and download it</li> <li>3.Click clear and then will clear your configuration information. Or you can press 9*9*100# on the keyboard. The default IP address is 192.168.100.155.</li> </ol>

	<div> <div> <b>Save Configuration</b> <p>Click save, and then will save your config file!</p> <div>保存</div> </div> <div> <b>Upload config file</b> <div> <div>浏览...</div> <div>(*.txt)</div> </div> <div>Upload</div> </div> <div> <b>Clear configuration information</b> <p>Click clear, and then will clear your configuration information!</p> <div>Clear</div> </div> </div>
Upgrades	<div> <p>Select a file to update the system(You can get the file from original factory)</p> <div> <b>Firmware:</b> <div> Select a file <div>浏览...</div> <div>(*.tar)</div> <div>Update</div> </div> </div> </div>
User setting	<div> <p>Resetting the user name and password</p> <div> <div>Old Username</div> <div>Old Password</div> <div>New Username</div> <div>New Password</div> <div>Confirm Password</div> <div>Save</div> </div> </div>
Network Capture	<div> <ol style="list-style-type: none"> <li>Click "Start" to capture and click confirm;</li> <li>Click 'Stop' button to stop capture;</li> <li>Click 'Download' button to download the package file.</li> </ol> <div> <b>Network Capture</b> <div> <div> Max Package Count <div>10000</div> </div> <div> Source IP <div></div> </div> <div> Custom Command <div></div> </div> <div>Start</div> </div> <div> <div> Protocol <div>udp</div> </div> <div> Source Port <div></div> </div> </div> </div> <div> <b>Download Data</b> <p>Click 'Download' button to download the package file!</p> <div>Download</div> </div> </div>
Debug	<div> <p>Please enter command. This is for engineer to detect.</p> </div>

	<div> <div>Debug Command</div> <div>Please enter command</div> <div>Save</div> <div></div> </div>
Logout	Click 'Logout' button to logout the system. You need to input the username and password next time.

Reboot

Config

Upgrades

User Settings

Network Capture

Debug

Status

Config

Sip Config

Security

Maintenance

Reboot Phone

Click 'Reboot' button to restart the phone!!

Reboot

## 4.2.5 No sip server point to point configuration:

1.IP phones that need to do point-to-point communication, set the IP address of the network port to a fixed IP. The setting method is the same as the 4.2.3 Config chapter of the manual.

Make sure there are no duplications and conflicts with each IP address.

Connection Type: Static Mode (fixed IP) ▼

Static Ip

Static Netmask

Static Gateway

Primary DNS Server

Secondary DNS Server

192.168.1.199

255.255.255.0

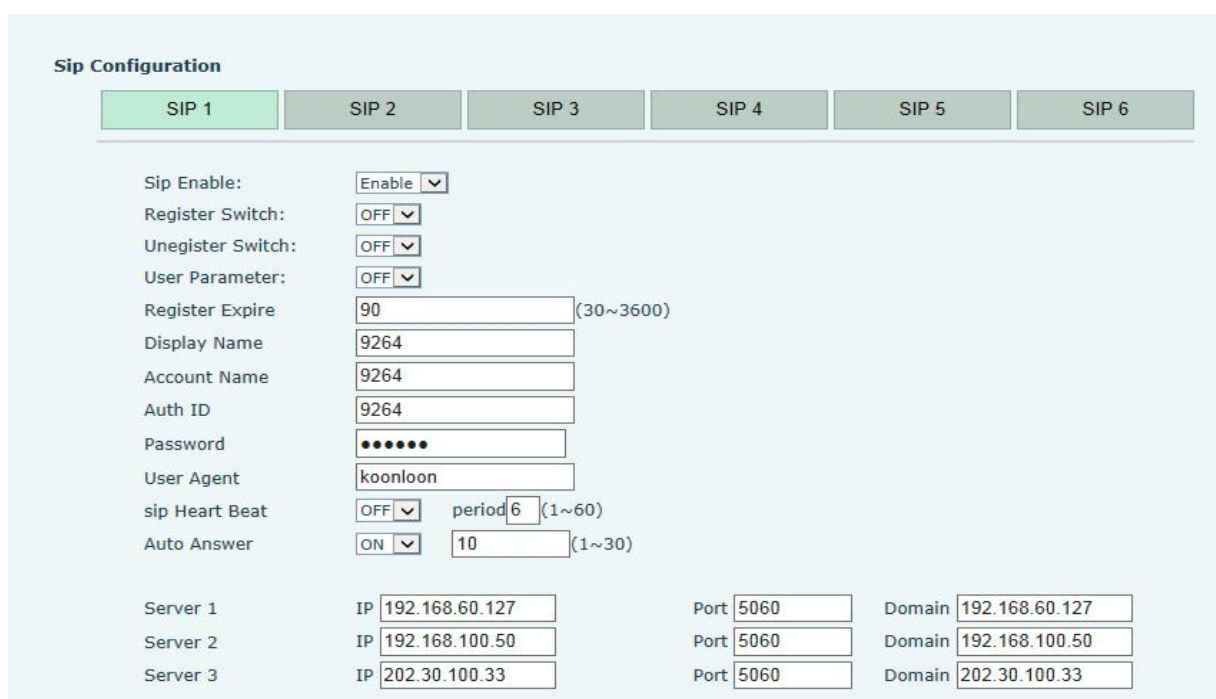
192.168.1.1

8.8.8.8

9.9.9.9

Log in to the IP phone configuration page, select the mode as Static mode in the Setting->Network option, and fill in the IP address, subnet mask, and exit gateway information into the information you need. The IP address set in this example is 192.168.1.199, subnet mask 255.255.255.0, gateway 192.168.1.1.

2. Enter the SIP config settings page to fill in the phone number of this IP phone, as shown below.



**Sip Configuration**

SIP 1	SIP 2	SIP 3	SIP 4	SIP 5	SIP 6
-------	-------	-------	-------	-------	-------

Sip Enable: ☒ Enable

Register Switch: ☐ OFF

Unregister Switch: ☐ OFF

User Parameter: ☐ OFF

Register Expire:  (30~3600)

Display Name:

Account Name:

Auth ID:

Password:

User Agent:

sip Heart Beat: ☐ OFF period  (1~60)

Auto Answer: ☒ ON  (1~30)

Server	IP	Port	Domain
Server 1	<input type="text" value="192.168.60.127"/>	<input type="text" value="5060"/>	<input type="text" value="192.168.60.127"/>
Server 2	<input type="text" value="192.168.100.50"/>	<input type="text" value="5060"/>	<input type="text" value="192.168.100.50"/>
Server 3	<input type="text" value="202.30.100.33"/>	<input type="text" value="5060"/>	<input type="text" value="202.30.100.33"/>

In the SIP config settings -> SIP 1 settings, configure the phone number of this IP phone. The IP phone supports 2 phone numbers. Under normal circumstances, just fill one number is enough, and fill like the above picture, fill in the phone number at the Display Name and Account Name. The phone number in this test case is 9264. **Note that OFF is selected at the Register Switch.**

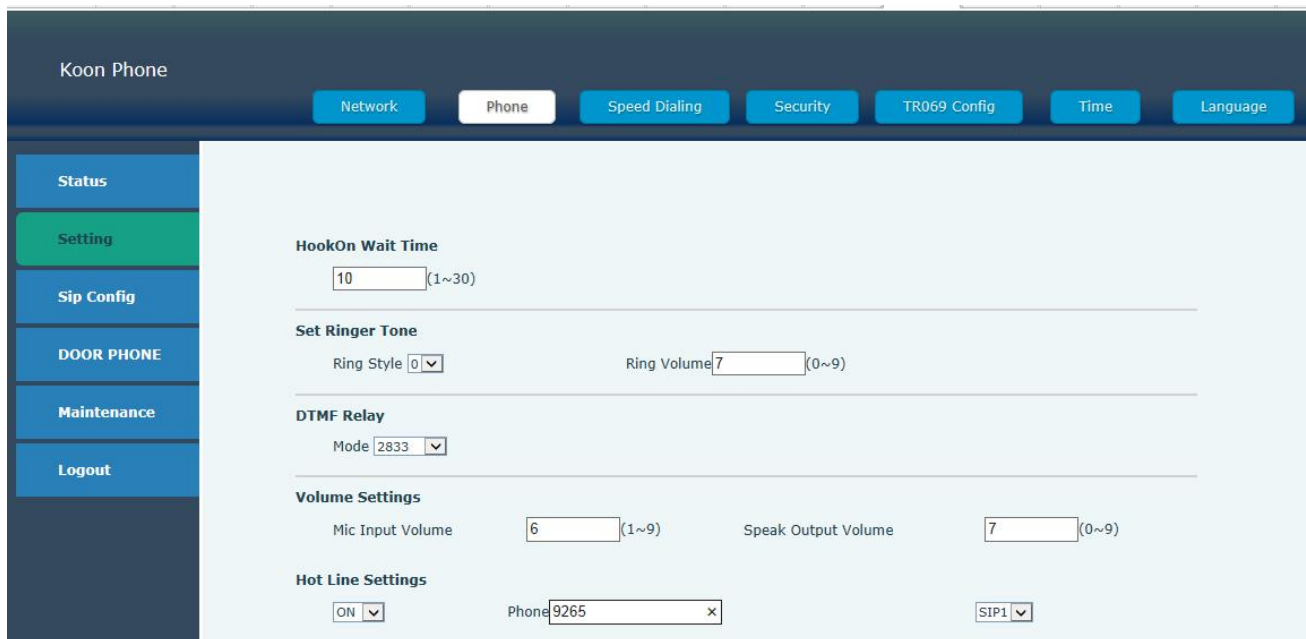
3. In the SIP config settings -> SIP 1 settings, add a call path, we assume that the IP address of the other IP phone is 192.168.1.11, the phone number is 9265, then we add a corresponding rule in the Dialing Rules so that the IP phone can call the 9265 IP phone when dialing the 9265 number, just fill in the default port 5060 at the Server Port.

(Note: The configuration method of the IP phone of 9265 is the same from setting up the network, adding the phone number, and doing the call routing method. The only difference is that the content of 9265 Dialing Rules is the phone number of 9264 and the 9264 IP phone's IP address)

**Dialing Rules>>**

Operate	Match Rule	Convert Rule	Server IP	Server Port
<input type="checkbox"/>	.			
<input type="checkbox"/>	9265		192.168.1.11	x 5060
<input type="checkbox"/>				

4. Add hotline function to achieve auto dialing. As shown below:



Koon Phone

Network Phone Speed Dialing Security TR069 Config Time Language

Status

Setting

Sip Config

DOOR PHONE

Maintenance

Logout

HookOn Wait Time

10 (1~30)

Set Ringer Tone

Ring Style 0 Ring Volume 7 (0~9)

DTMF Relay

Mode 2833

Volume Settings

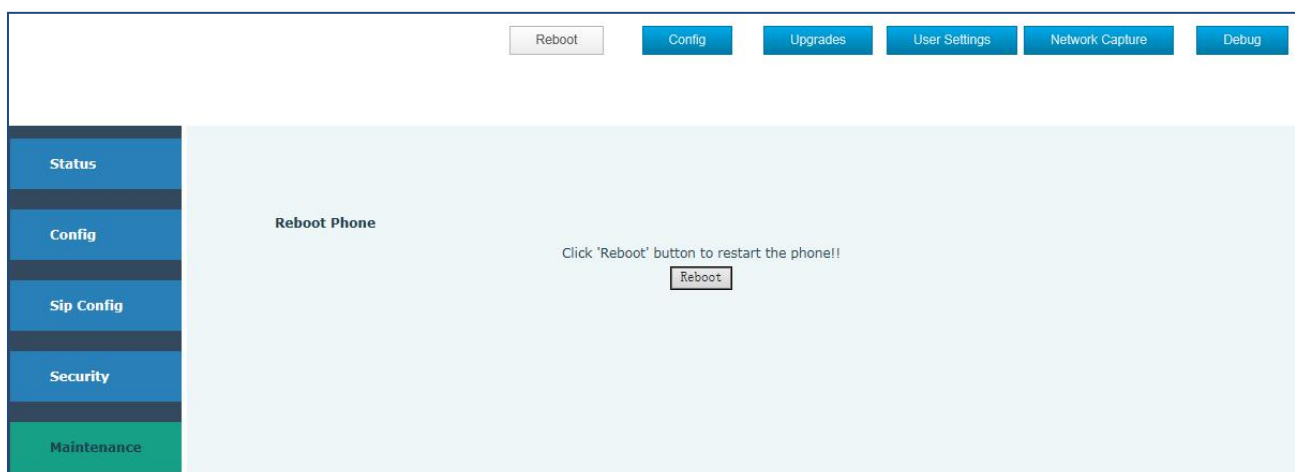
Mic Input Volume 6 (1~9) Speak Output Volume 7 (0~9)

Hot Line Settings

ON Phone 9265 SIP1

Go to the Setting->Phone setting, select ON in the Hot Line option, and configure the phone number of the other IP phone to apply it.

5. After setting it, save it and restart the device to use it normally.



Reboot Config Upgrades User Settings Network Capture Debug

Status

Config

Sip Config

Security

Maintenance

Reboot Phone

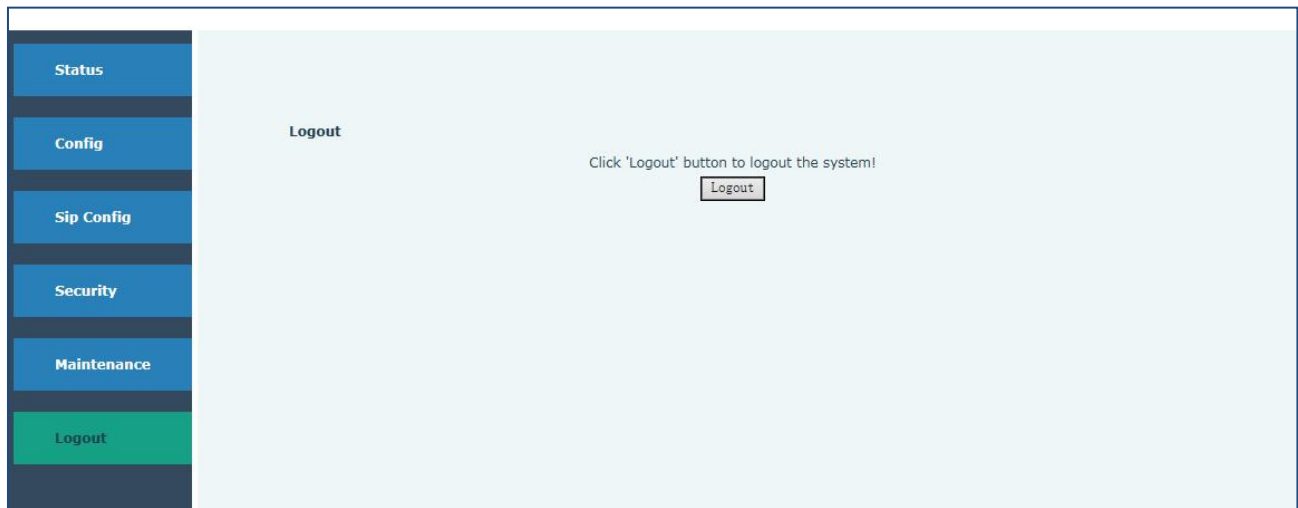
Click 'Reboot' button to restart the phone!!

Reboot



## 4.2.6 Logout

Click the Log out button to leave the web operation



## 6.Installation

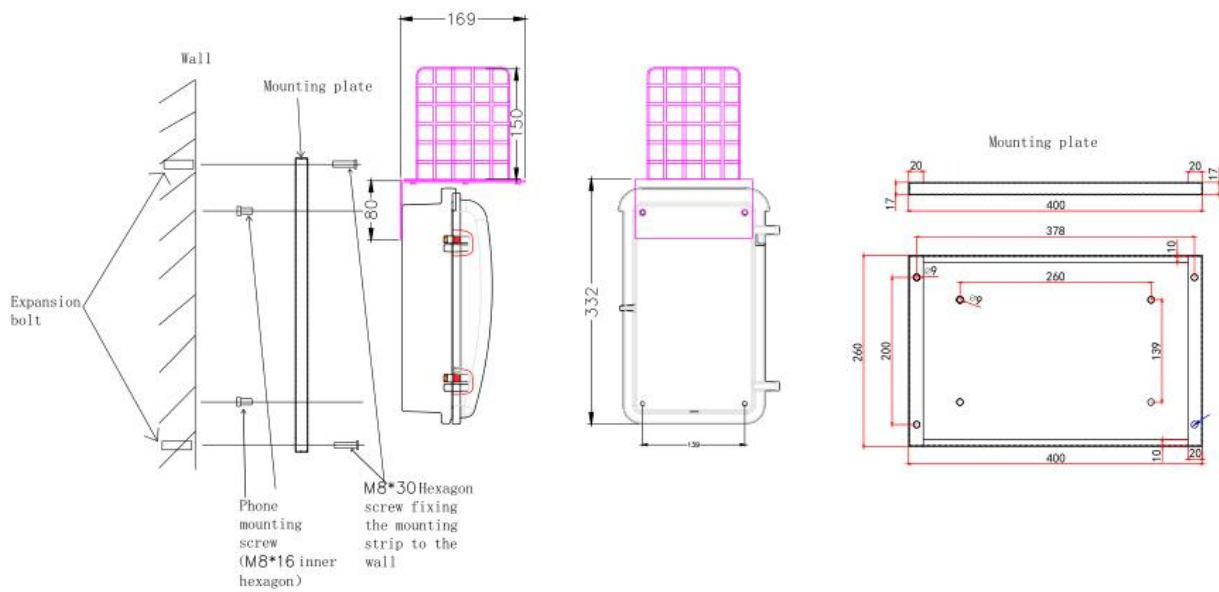
KNSP-01/KNSP-03/KNSP-08/KNSP-08L/KNSP-09/KNSP-10/KNSP-11/KNSP-16

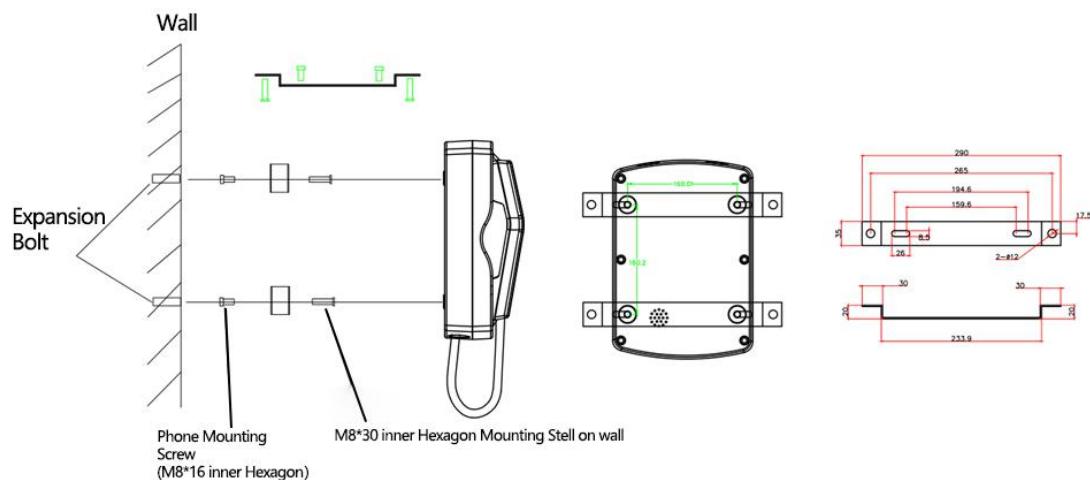


KNSP-18/KNSP-18T/KNSP-18LCD



KNSP-08L





## 7. Packaging Information

	Packaging Information			
Model	One unit	Two units	Three units	Four units
KNSP-01	43*28*20cm 6kg			
KNSP-03		45*31*43 12.7kg		57*46*45 25.6kg
KNSP-08L		45*31*43 14.9kg		
KNSP-09	45*31*23 5.7kg	45*31*44 9.95kg		

## 8. After-service

- (1) Avoid the water insert into the telephone in raining days.
- (2) Check the power supply and wire cables regularly.
- (3) Keep the handset dry and clean.
- (4) Do not disassembled the telephone under the condition of no engineer.
- (5) Please operate following this user manual
- (6) Coat the anti-rust oil when appears rusty parts.



## Thank you for using Koontech brand products !

**Our philosophy is:** focus on quality, service, continuous innovation, and customer friendliness.

**Our team:** camel's team, with goals, discipline, perseverance, endurance and resilience.

**Our staff:** honest, sincere, careful and meticulous.

**Our vision:** to create a world brand and build a century old store. Become a respected enterprise!

## Our business

Shenzhen Xijun Technology Co., Ltd. is a communication infrastructure integrating R & D, production and sales all kinds of special emergency communication system providers are the world's leading integrated communication solution providers. We are committed to the R & D and production of industrial telephone and emergency communication system.

- We provide no host call system for petroleum, chemical, metallurgy, steel, tunnel and other industries and projects;
- We provide SOS emergency call system for scenic spots, resorts, country parks and municipal squares;
- We research, develop and produce world-class offshore drilling platforms, LNG liquefiers, petrochemicals and coalintrinsically safe explosion-proof telephone for other industries;
- Passenger call system and SOS emergency call for subway, expressway, integrated management corridor, airport, wharf telephone, as well as the special interphone for the disabled and the hearing impaired;
- Clean room telephones for pharmaceutical factories, dust-free workshops, hospitals, banking customer service telephones, disabled people special window intercom for hearing impaired;
- The sound power counter, outdoor weather proof telephone station, noise elimination booth and public telephone booth used in military special industry.



## **HONGKONG KOON TECHNOLOGY CO.,LTD**

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