

VoIP Industrial Phone

ZD 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

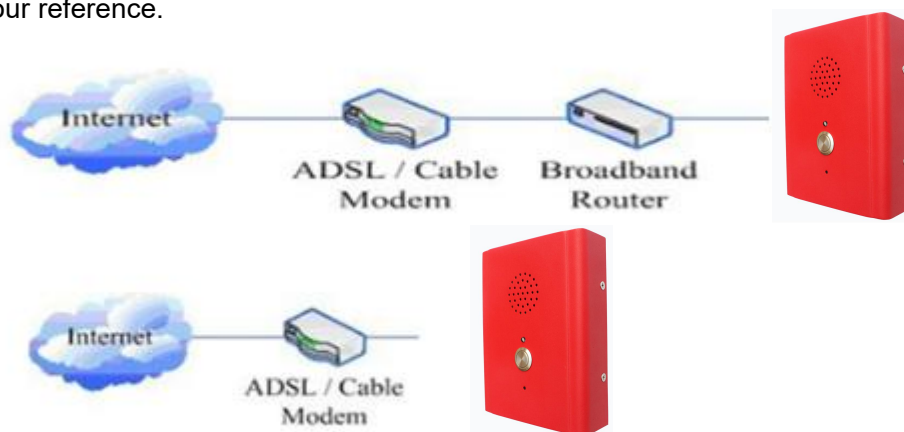
2. Initial connecting and Setting

2.1. Connect the phone

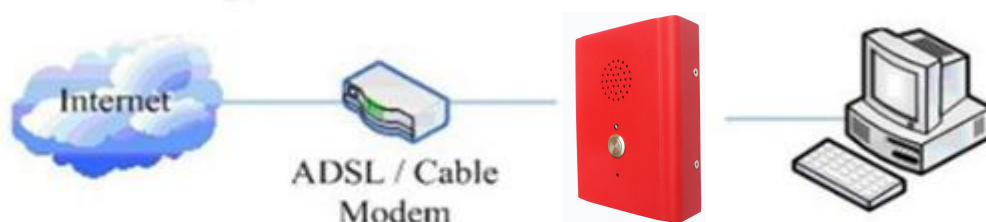
Step 1: Connect the IP Phone to the corporate IP telephony network. Before you connect the phone to the network, please check if your network can work normally.

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 or press the button to accept incoming calls. If only on/off button, you can set auto-answer.

3.2. Making a call

3.2.1 Free dial

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

3.2.2 Hot-line dial

- Picking up handset or press the hot-line button, 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	KNZD-05 KNZD-07A KNZD-07B KNZD-10 KNZD-27 KNZD-31	KNZD-03 KNZD-06 KNZD-15 KNZD-29 KNZD-63	KNZD-09 KNZD-11 KNZD-13 KNZD-17 KNZD-39 KNZD-36 KNZD-45A KNZD-45 KNZD-63A KNZD-43	KNZD-14 KNZD-28
Free dial	√	√	×	×
Hotline	×	×	√	√
Handset	√	×	×	√
Keypad	√	√	×	×
ON/OFF button	×	√	√	×

- 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

Device Configuration

User:

Password:

Language: ▼

※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.

	SIP 1	SIP 2	SIP 3	SIP 4	SIP 5	SIP 6
Status						
Config						
Sip Config	<p> Sip Enable: <input type="button" value="Enable"/> <input type="button" value="Disable"/> Register Switch: <input type="button" value="ON"/> <input type="button" value="OFF"/> Unregister Switch: <input type="button" value="ON"/> <input type="button" value="OFF"/> Register Expire: <input type="text" value="90"/> (30~3600) Display Name: <input type="text" value="633"/> Account Name: <input type="text" value="633"/> Auth ID: <input type="text" value="633"/> Password: <input type="text" value="633"/> Register Server: <input type="text" value="192.168.0.128"/> Register Port: <input type="text" value="5060"/> Domain: <input type="text" value="192.168.0.128"/> User Agent: <input type="text" value="koonloon"/> sip Heart Beat: <input type="button" value="ON"/> <input type="button" value="OFF"/> <input type="text" value="6"/> (1~60) </p> <p>Dialing Rules>></p>					
Maintenance						
Logout						

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><div>1: Add "00" in the corresponding location Eg: (a:00)</div><div>2: Delete the digit in the corresponding location (d)</div><div>3: Modify the numbers to "89" Eg: (m:89)</div><div>You can config the server IP and port. This setting go into effect after rebooting</div></div> <div><div>Dialing Rules>></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

NetworkPhoneSpeed DialingSecurityTimeLanguage

StatusConfigSip ConfigSecurityMaintenanceLogout

Connection Type: Static Mode (fixed IP)

Static Ip192.168.0.103

Static Netmask255.255.255.0

Static Gateway192.168.0.1

Primary DNS Server8.8.8.8

Secondary DNS Server9.9.9.9

auto-negotiation

Link 0Disable

Link 1Disable

speed10M

speed10M

duplexHalf

duplexHalf

Network Port

SIP Local Port5060

Save

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">● 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.● DHCP: In this mode, you will get the information from the DHCP server automatically; need not to input this information artificially.

7

Network
Phone
Speed Dialing
Security
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Language

Status

 Config

 Sip Config

 Maintenance

 Logout

Connection Type: Static Mode (fixed IP) ▼

Static Ip	<input type="text" value="192.168.0.66"/>
Static Netmask	<input type="text" value="255.255.255.0"/>
Static Gateway	<input type="text" value="192.168.0.1"/>
Primary DNS Server	<input type="text" value="8.8.8.8"/>
Secondary DNS Server	<input type="text" value="9.9.9.9"/>

auto-negotiation

Link 0	<input type="text" value="Disable"/> ▼	speed	<input type="text" value="10M"/> ▼	duplex	<input type="text" value="Half"/> ▼
Link 1	<input type="text" value="Disable"/> ▼	speed	<input type="text" value="10M"/> ▼	duplex	<input type="text" value="Half"/> ▼

Network Port

SIP Local Port

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>Notes: Codecs Setting</p> <p>Preference 1 G.711A/u,G.729,G726</p> <p>Preference 2 G.711A/u,G.729,G726, Nonuse</p> <p>Preference 3 G.711A/u,G.729,G726, Nonuse</p> <p>Preference 4 G.711A/u,G.729,G726, Nonuse</p> <p>Preference 5 G.711A/u,G.729,G726, Nonuse</p>

Setting hot-line:

Status: ON

Phone: inputting the telephone number

Line: SIP1

Network

Phone

Speed Dialing

Security

Time

Auto Answer

ON

5

(1~30)

HookOn Wait Time

1

(1~30)

Set Ringer Tone

Ring Style

0

Ring Volume

7

(0~9)

Volume Settings

Mic Input Volume

6

(1~9)

Speak Output Volume

1

(0~9)

Hot Line Settings

ON

Phone

201

SIP1

Codecs Settings

Preference 1:

G.729

Preference 2:

G.711 MU

Preference 3:

G.711 A

Preference 4:

G.723

Preference 5:

G.726

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
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Config
Sip Config
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Logout

Sealing Condition: Unusable

Output Settings

Output 1: Null

Output Level Low Level

Output Trigger Mode Ring

Output Duration Custom Seconds 0

Hook Talking

Output Level Low Level

Ring Hook

Output Duration 5

Max Talk Duration 120 (20-600 seconds)

Output 2: Null

Output Level Low Level

Output Trigger Mode Ring

Output Duration Custom Seconds 0

Hook Talking

Output Level Low Level

Ring Hook

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"> 1. Configure primary NTP Server Address and server port 2. Configure secondary NTP Server Address and server port 3. Configure Time Zone 4. Interval time for synchronizing with server. Default is 60 seconds.

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

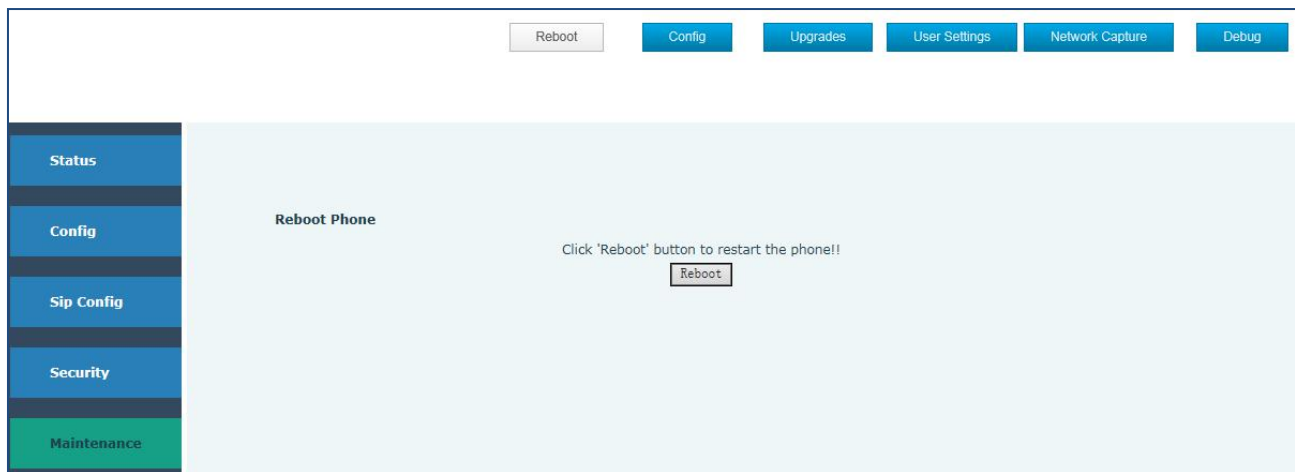
Save

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> <p>Reboot Phone</p> <p>Click 'Reboot' button to restart the phone!!</p> <p>Reboot</p>
Config	<p>1.Click save, and then will save your config file. File format is .txt or .xml</p> <p>2. Upload the config file: click view to find the config files and download it</p> <p>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.</p> <p>Save Configuration</p> <p>Click save, and then will save your config file!</p> <p>保存</p> <p>Upload config file</p> <p>浏览... (*.txt)</p> <p>Upload</p> <p>Clear configuration information</p> <p>Click clear, and then will clear your configuration information!</p> <p>Clear</p>
Upgrades	Select a file to update the system(You can get the file from original factory)

	<div> Firmware: <div> Select a file <input type="text"/> 浏览... (*.tar) Update </div> </div>
User setting	Resetting the user name and password <div> <div> Old Username Old Password New Username New Password Confirm Password </div> <div> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="button" value="Save"/> </div> </div>
Network Capture	<ol style="list-style-type: none"> Click "Start" to capture and click confirm; Click 'Stop' button to stop capture; Click 'Download' button to download the package file. <div> <div> Network Capture Max Package Count <input type="text" value="10000"/> Source IP <input type="text"/> Custom Command <input type="text"/> <input type="button" value="Start"/> </div> <div> Protocol <input type="text" value="udp"/> Source Port <input type="text"/> </div> </div> <hr/> <div> Download Data Click 'Download' button to download the package file! <input type="button" value="Download"/> </div>
Debug	Please enter command. This is for engineer to detect. <div> Debug Command Please enter command <input type="button" value="Save"/> <input type="text"/> </div>
Logout	Click 'Logout' button to logout the system. You need to input the username and password next time.



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	192.168.1.199
Static Netmask	255.255.255.0
Static Gateway	192.168.1.1
Primary DNS Server	8.8.8.8
Secondary DNS Server	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:

Register Switch:

Unregister Switch:

User Parameter:

Register Expire: (30~3600)

Display Name:

Account Name:

Auth ID:

Password:

User Agent:

sip Heart Beat: period (1~60)

Auto Answer: (1~30)

Server	IP	Port	Domain
Server 1	192.168.60.127	5060	192.168.60.127
Server 2	192.168.100.50	5060	192.168.100.50
Server 3	202.30.100.33	5060	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)

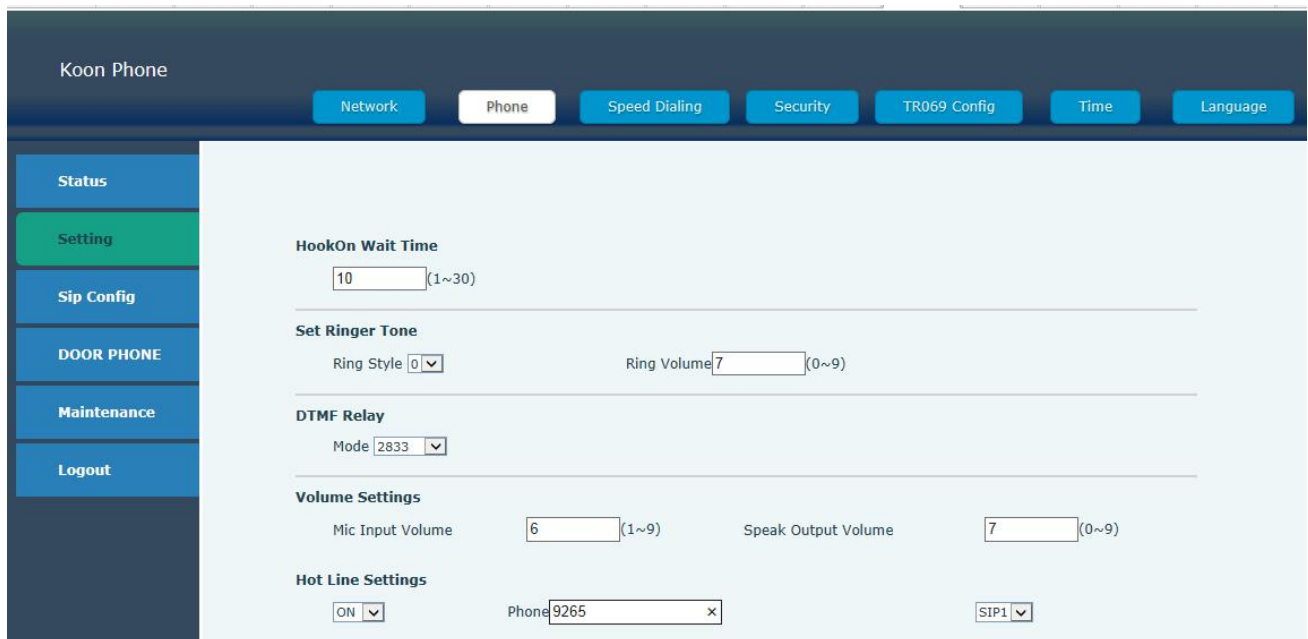
Dialing Rules>>

AddDelete

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

save

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

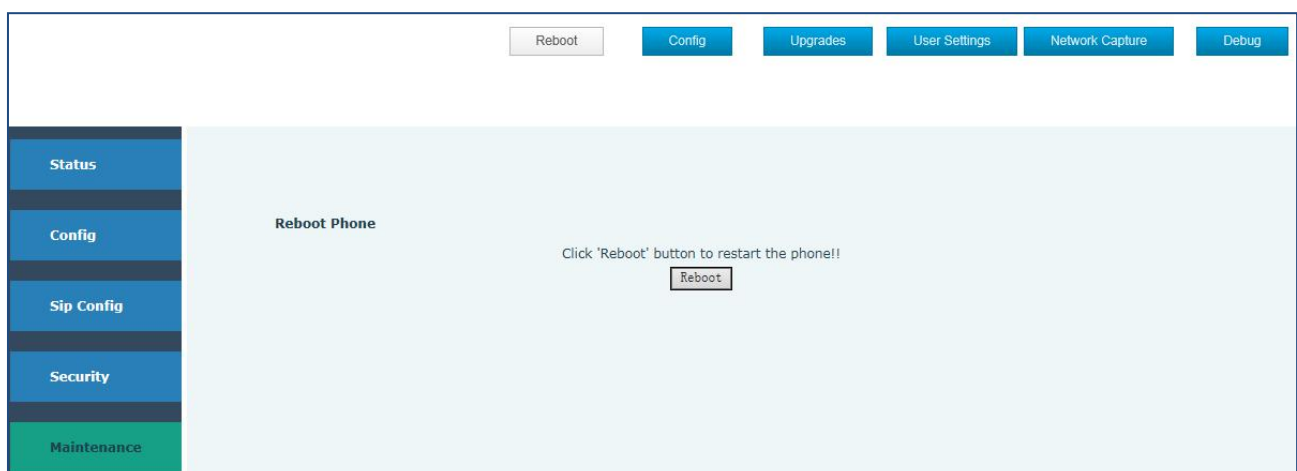
Mic Input Volume 6 (1~9) Speak Output Volume 7 (0~9)

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

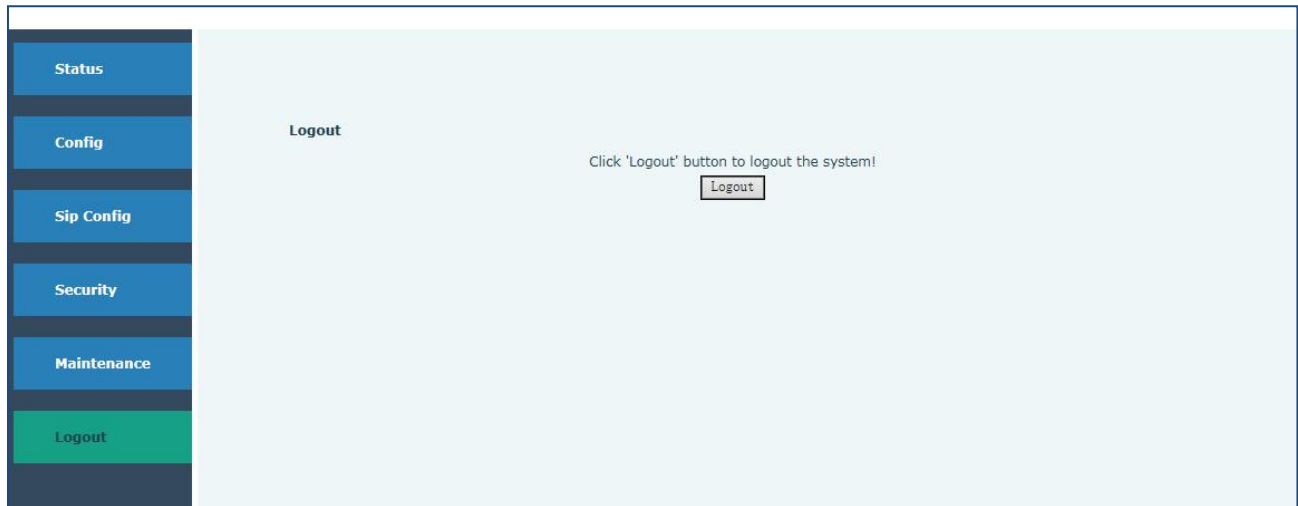
Reboot Phone

Click 'Reboot' button to restart the phone!!

Reboot

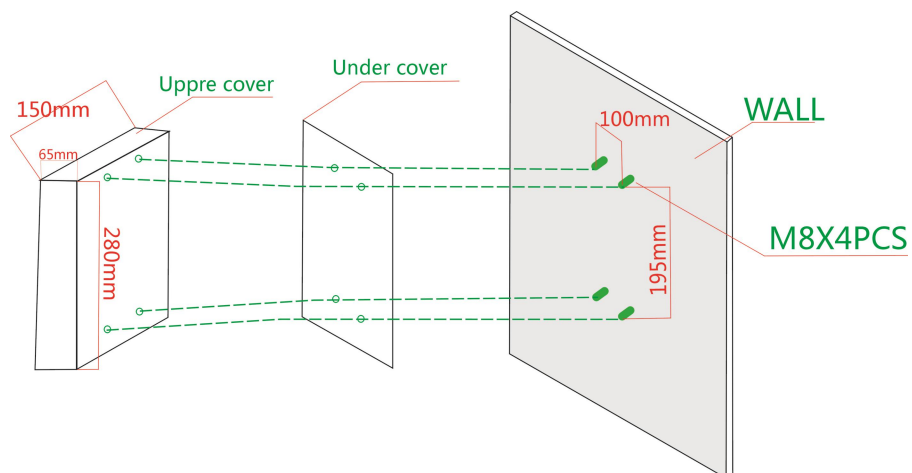
4.2.6 Logout

Click the Log out button to leave the web operation

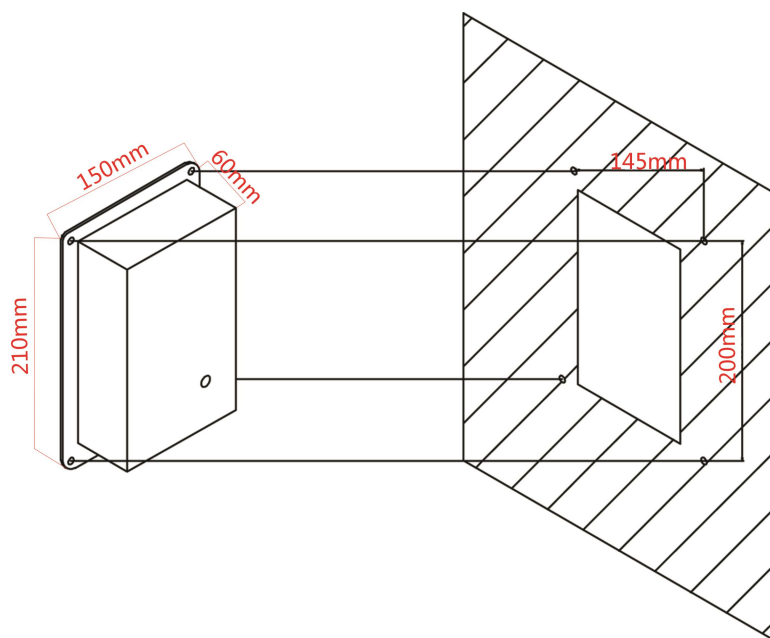


6.Installation

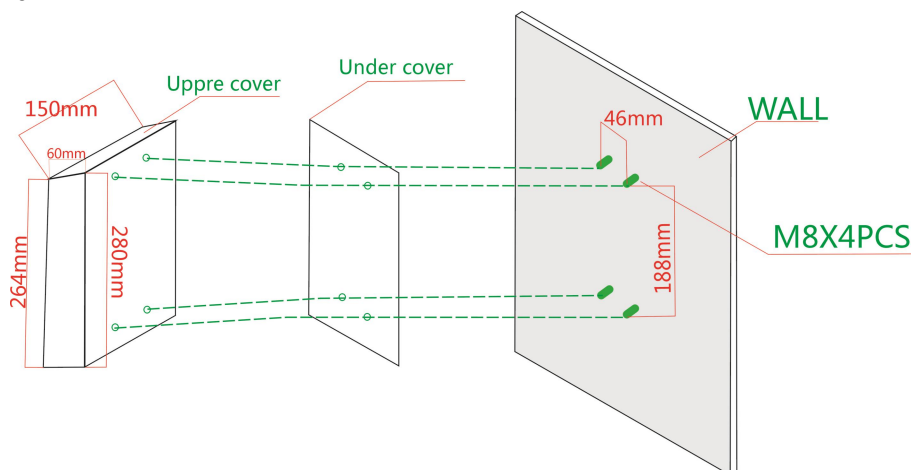
KNZD-05



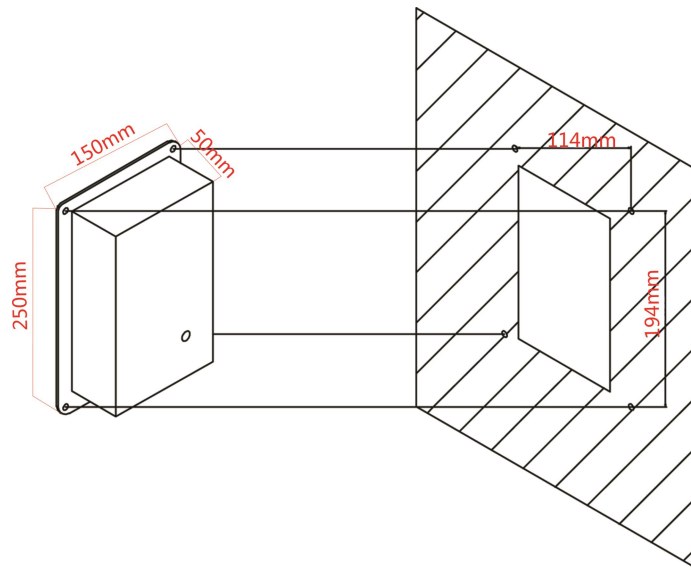
KNZD-06



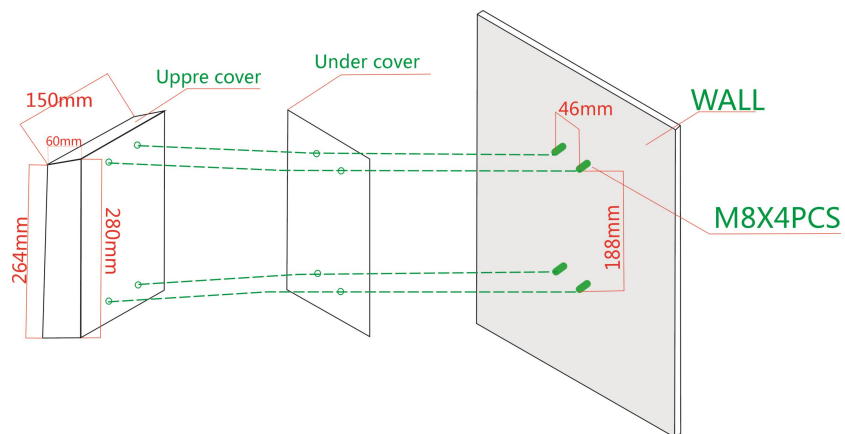
KNZD-07A/KNZD-07B



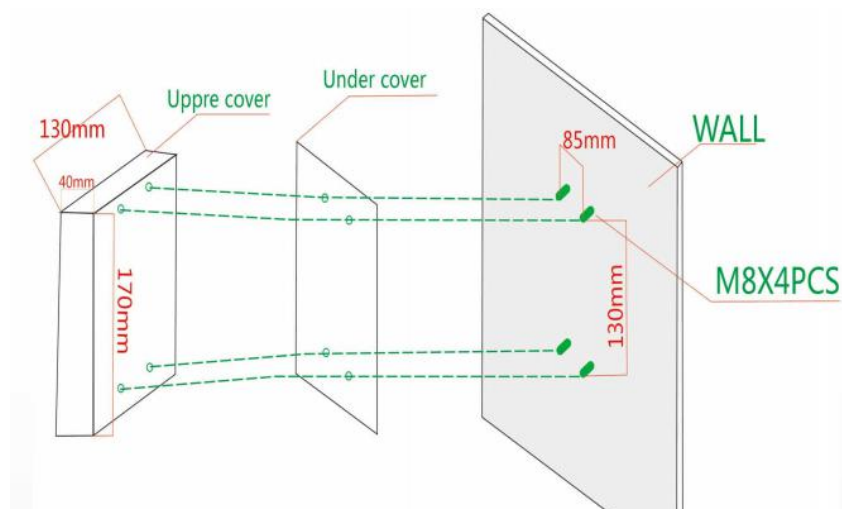
KNZD-09/KNZD-11



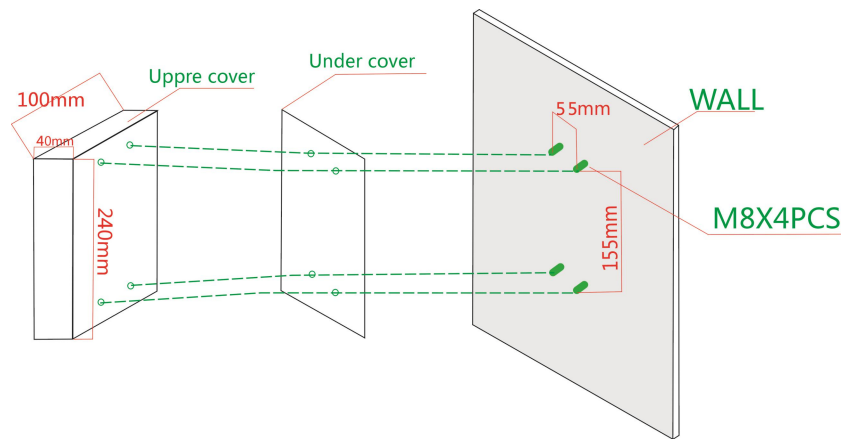
KNZD-10/KNZD-15



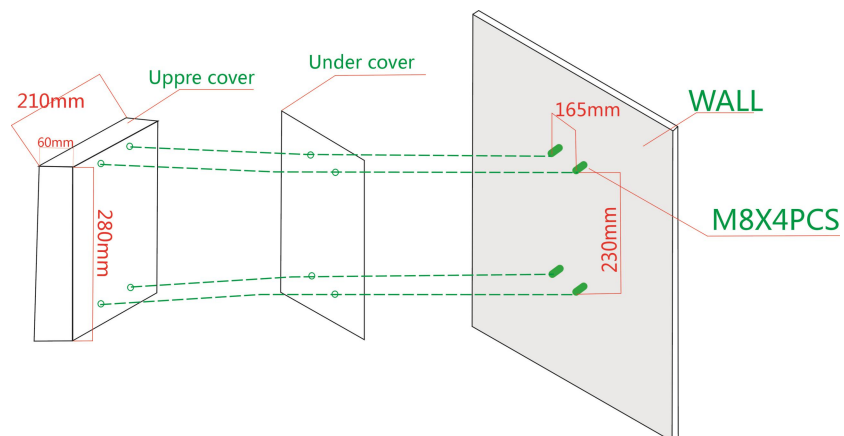
KNZD-13



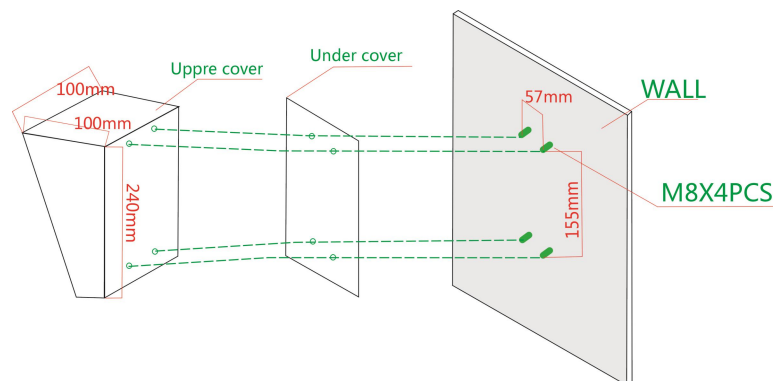
KNZD-14



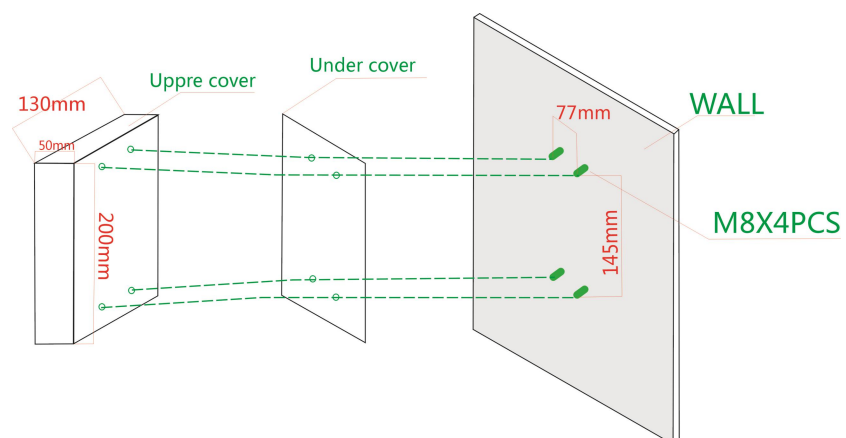
KNZD-27



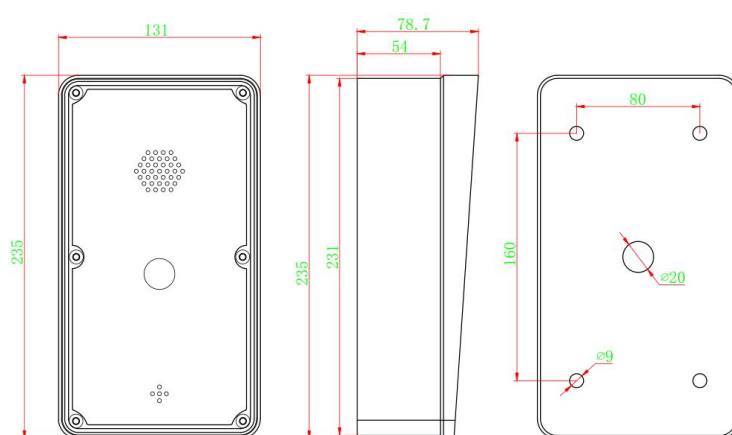
KNZD-28



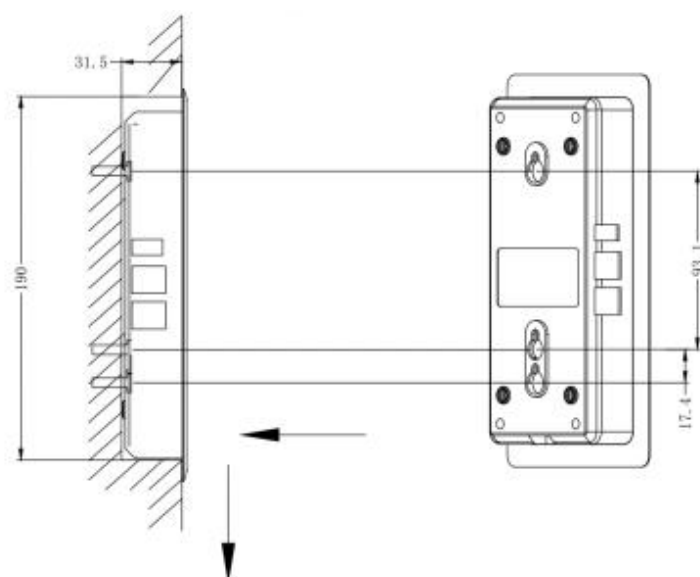
KNZD-36



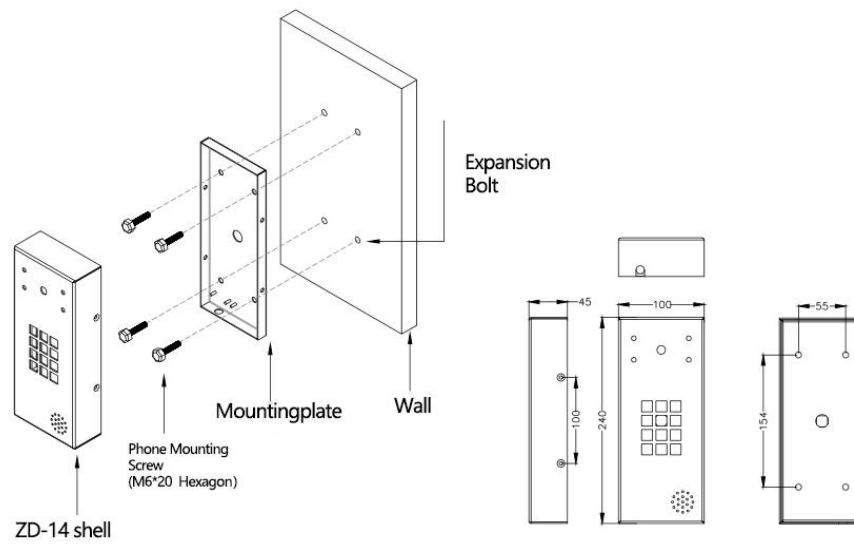
KNZD-45/KNZD-45A/KNZD-43/KNZD-43A



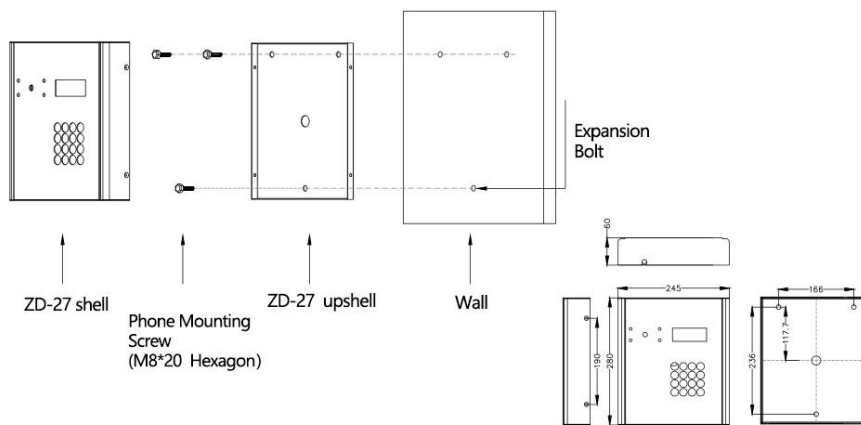
KNZD-63/KNZD-63A



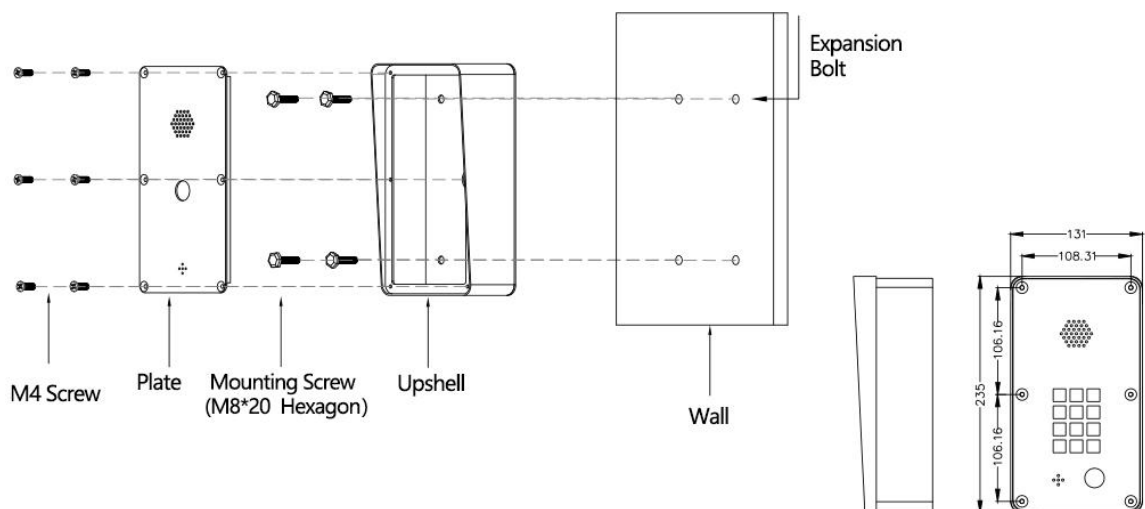
KNZD-14



KNZD-027



KNZD-043



7. Packaging Information

	Packaging Information			
Model	One Unit	Two Units	Three Units	Four Units
KNZD-04			50*43*40 13.9kg	
KNZD-05L CD-IP	34*21*21 3.23kg	34*19*37 6.1kg		
KNZD-09	31*18*12 2.1kg			
KNZD-09 A		45*31*43 10.3kg		
KNZD-10	33*18*18 2.7kg	34*21*39 6.83kg		
KNZD-11	21*15*11 1.1kg	31*20*11 1.97kg		
KNZD-13		23*19*14 2kg		
KNZD-15	31*17*11 1.5kg			
KNZD-41	82.5*56.5*38 20.4kg			
KNZD-45	32*17*12 1.97kg		37*32*18 6.4kg	37*35*27 8.7kg
KNZD-60	61*36*18 7.05kg			
KNZD-63	31*12*6 0.4kg		32*23*16 1.3kg	

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
- (5) Coat the anti-rust oil when appears rusty parts.

Thanks a lot for purchasing this product! Please share your valuable comments! Your support and suggestion helps us to build an century-old factory.



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