VR-3X00-SBU(S)

VR-3100-SBU(S), VR-3200-SBU(S)

User Guide

V 1.1

1. Overview

This phone is a full-feature telephone that provides voice communication. Read this user guide carefully to learn how to operate this product and take advantage of its features.

Package Contents

When unpacking the phone, ensure all the following items are present and undamaged. If anything appears to be missing or broken, contact your dealer for a replacement.

1. **VR-3100-SBU(S) or VR-3200-SBU(S) Wi-Fi Handset phone**
2. **Charging Stand**
3. **Battery**
4. **AC/DC Adaptor**
5. **User Guide (This document)**

2. Product Description

The following contains important information to help you familiarize with the functions of the phone.

Front View

3-1～3-4

3-5～3-8
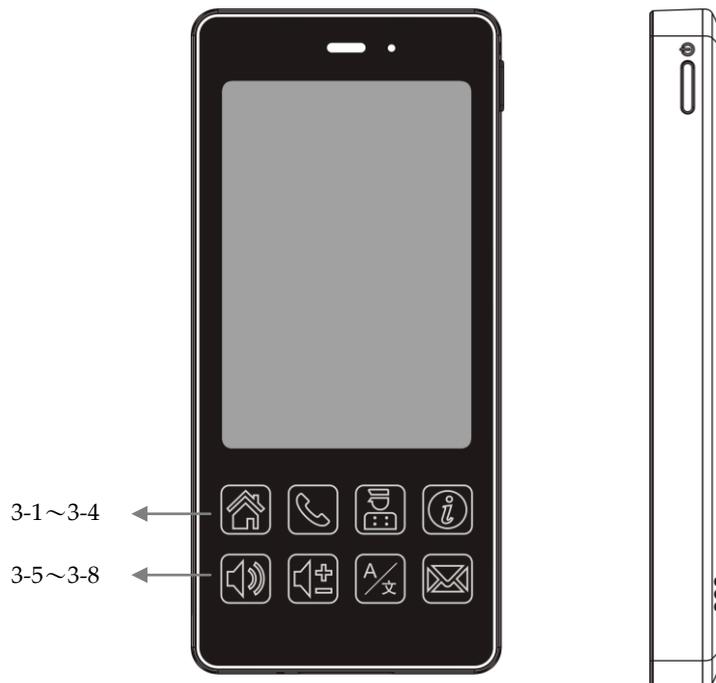
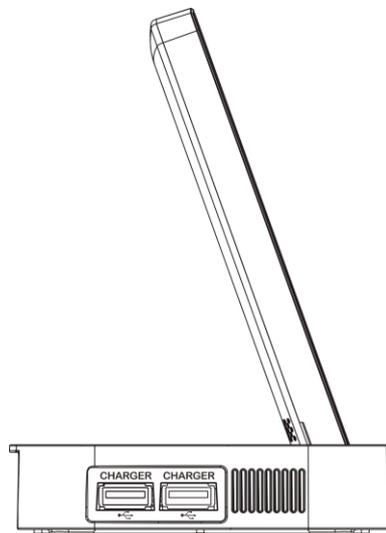| item	Name	Description
1	Display screen	Capacitive touch display
2	Power key	Press to power on/off
3	Function key	
3-1	Home key	Press to return to idle page
3-2	Dial key	Press these keys to enter phone numbers
3-3	Service key	Press to enter service page
3-4	Dialing Instruction key	Press to enter Dialing Instructions page. Red LED turns on when handset is charging, Red LED turns off when handset is fully charged,
3-5	Speaker key	Press to activate the speakerphone for hands free conversation
3-6	Volume + -	Press to increase or decrease the volume of the ringer tone, handset, or speakerphone

item	Name	Description
3-7	Language key	Press to select display language
3-8	Message key	Press to listen to voice messages Red LED turns on when there is an unheard voice message

Rear view
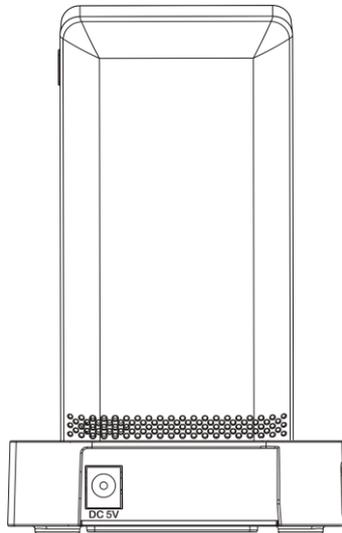
Name	Description
DC jack	Connects to AC/DC power adapter

Side view

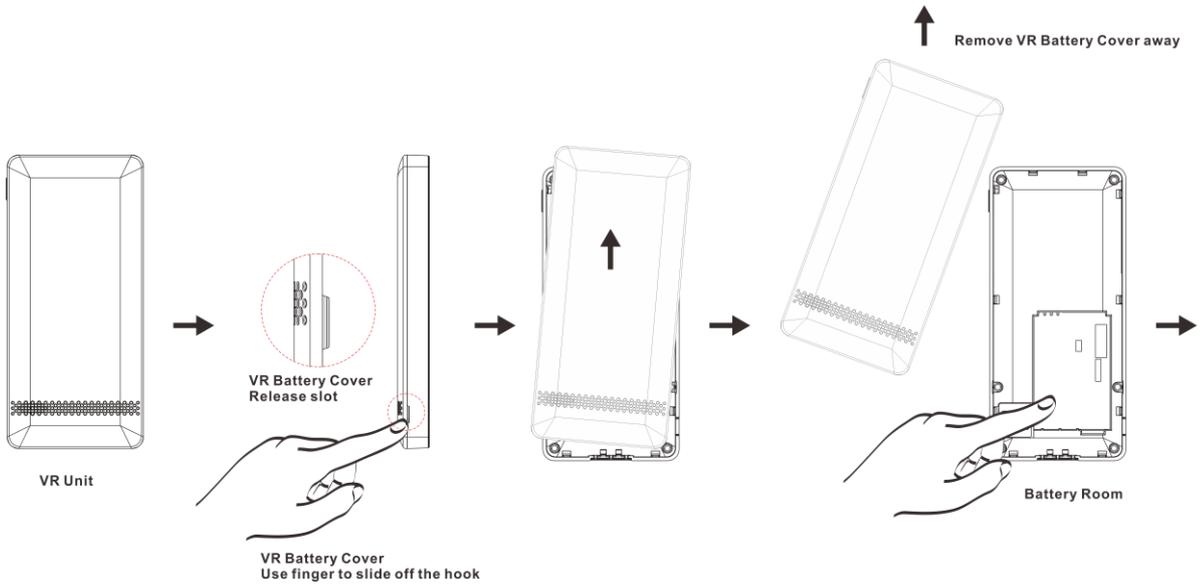| Name	Description
USB Charger ports	Connects to charging cable of mobile device.

Battery Installation

The following illustration shows how to install the handset and battery.

Remove VR Battery Cover away

VR Unit

VR Battery Cover
Release slot

VR Battery Cover
Use finger to slide off the hook

Battery Room

Nokia BL-5C

Battery

Installed the Battery

VR Battery Cover
Hook inwards
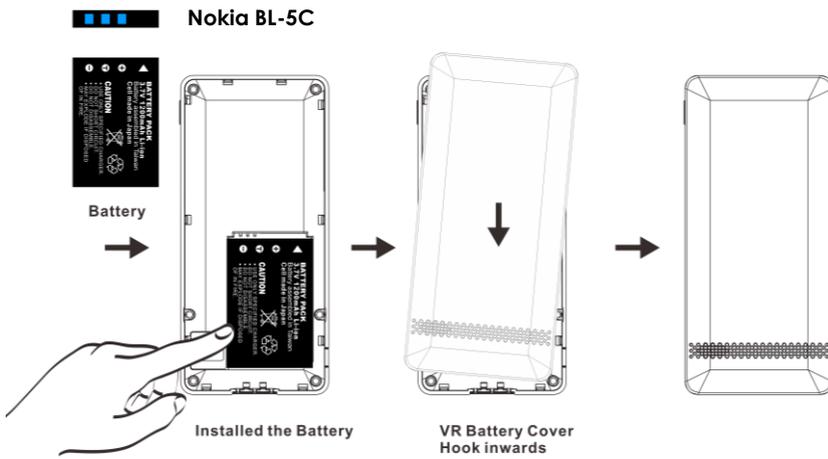
3. Web Configuration

Web Login

To setup the VR-3x00 handset from web configuration manually, boot the handset to the AP mode. Please remove the phone battery, press and hold the power button, and then install the battery. The VR-3x00 handset will startup and display its AP mode SSID, password and AP IP address. Please use your laptop to connect the VR-3x00 in AP mode. Connect the phone at http://192.168.4.1:8000 via a web browser by using username/password as admin/1234.
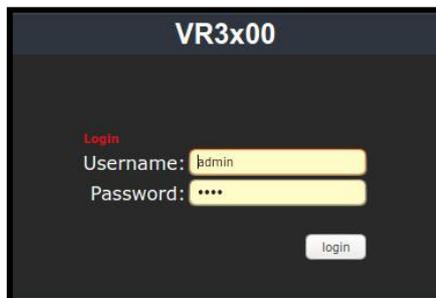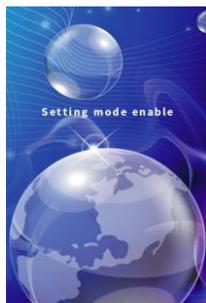
After logging in, the system information shows as below.

WIFI

Setup the Wi-Fi SSID, Password and the IP type.

WIFI SSID:

The WIFI SSID

WIFI PASSWORD:

The WIFI Password

WIFI IP Type:

Default is DHCP.

VoIP

Setup the SIP account

VoIP Setup		
Status	Switch :	Enable ⌄
WIFI	Display name :	1361
VoIP	User name :	1361
Speed Dial	Authentication Name :	1361
System	Password :	1361
	Register Domain :	192.168.168.249
	Register IP :	192.168.168.249:5060
	Register Backup Domain :	
	Register Backup IP :	
	First Codec :	G.711 U ⌄
	Second Codec :	G.711 A ⌄
	Frame Size :	20 ms ⌄
	2833 PayLoad :	101
	SIP Local Port :	5060
	RTP Port :	42000
	Expire :	300 ⌄
	MWI :	Disable ⌄
	DNS SRV :	Disable ⌄
	Keep Alive :	Disable ⌄
	DTMF Type :	RFC 2833 ⌄
	Caller ID :	Disable ⌄
	Submit	

Switch:

Check "Enable" to enable SIP registration or "Disable" to disable the SIP account temporarily.

Display Name:

Display Name is the name of the phone or the location of the phone on the remote party.

User name:

User name of the SIP account, also known as user ID or extension number.

Authentication Name:

Authentication Name is for SIP authentication.

Password:

Password of the SIP account

Register Domain:

FQDN, SIP domain name or IP address of the SIP server

For example, voip.aeicommunications.com or 172.8.12.11

Register IP:

IP address of the SIP Server

If the listening port of the SIP Server is different from 5060, please add the port to at end of address. For example, 172.8.12.11:5061

Register Backup Domain:

IP address of the secondary SIP server

For example, 172.8.12.12

Register Backup IP:

IP address of the secondary SIP Server

For example, 172.8.12.12

Codec Priority:

Select the 2 codec priority.

Frame Size:

Frame size for G711u and G711a.

G711 ranges from 20ms and 40ms.

2833 Payload: (Default, 101)

DTMF RFC2833 Payload Type, ranging from 96 ~ 127

SIP Local Port: (Default, 5060)

SIP Local port

RTP Port Base: (Default, 42000)

The port of RTP starts

Expire: (Default, 600)

SIP registration expire time (seconds); select from 60, 120, 300 and 600

MWI: (Default, Disable)

Enable to subscribe message waiting information.

DNSSRV: (Default, Disable)

Enable DNSSRV query

Keep Alive: (Default, Disable)

Send keep alive package to keep the SIP registration from being blocked

DTMF Type: (Default, RFC 2833)

DTMF for transmitting digits, * and #; select from RFC2833, SIP Info and In Band

Caller ID: (Default, Disable)

Display the caller id of an incoming call

Speed Dial

SPEED DIAL 1 ~ 9: 9 touch screen service keys.

SPEED DIAL 10: Message key

System

Server:

The IP address information of the server, for example, 192.168.1.54. The phone will retrieve the .cfg file.

Provision File:

The name(room number) of the provision file in the root folder of the server.

For example,1234: 1234.cfg

Empty MAC.cfg

Upgrade Protocol: (Default, TFTP)

4. Phone setup

At dialing page 📞 , press [**6862* 📞] to enter system setup menu.

1. Network status

    Display network relative information: MAC address, access point SSID, IP address, and Wi-Fi status.

2. VoIP status

    Display SIP registration status and extension number.

3. Upgrade APP

    Update system firmware (fixed by Auto Provision setting).

4. Upgrade DATA

    Update system partition (fixed by Auto Provision setting).

5. Wi-Fi AP Scan

    Scan nearby APs, select desired AP and enter password to connect.

    * Press [?123] or [ABC]to switch between number and alphabet.

6. Factory Reset

    Reset phone to factory default.

7. Exit

    Exit system setup menu.

5. Provisioning

1. Provision config file (*.cfg)

   Sample provision config file:

```
[INFO]
MODEL=VR3100

[SIP_ACCOUNT]
SWITCH=1
USER_NAME=1234
DISPLAY_NAME=1234
AUTH_NAME=1234
PASSWORD=1234
REGIST_SERVER=192.168.168.253:5070
REALM=192.168.168.253:5070
MWI=0
EXPIRE_TIME=600
DTMF_TYPE=RFC2833
SEND_ALIVE=0
DNSSRV=0

[SPEED_DIAL]
0=1000
1=1001
2=1002
3=1003
4=1004
5=1005
```

```
6=1006
7=1007
8=1008
9=999


[AUTO_UPGRADE]
PROTOCOL=TFTP
SERVER_IP=192.168.168.253
PORT=69
FIRMWARE=vr3100
PARTITION=vr3100


[SIP_GLOBAL]
LISTEN_PORT=5060
RTP_PORT=10000
PRIMARY_CODEC=G.711 uLaw
SECONDARY_CODEC=G.711 aLaw
RFC2833_TYPE=101
LOG_SERVER=192.168.168.253
CALLER_ID=0
```

After editing, save the config file name as [MAC Address] or [Room number].

MAC Address 00:11:22:33:44:55, config file name: 001122334455.cfg

Or

Room number 1234, config file name: 1234.cfg

2. Provision Server IP setting

At dialing page 📞 , press [**6861*(Server IP)# 📞].

Provision server supports TFTP and HTTP (port 6122).

For example: press [**6861*192*168*168*253# 📞] to set provision server IP: 192.168.168.253

*TFTP is default protocol.

**Provision files must be under TFTP / HTTP Server root directory.

3. Provision file type setting

The phone supports two file types: MAC address or Room number.

At dialing page 📞 , press [**6862*# 📞] to use MAC address type config files.

At dialing page 📞 , press [*6862*(room number)# 📞] to use Room number type config files

4. Wi-Fi Phone provisioning

After connecting to internet and setting up provision server/config file type, press [**6868* 📞] at dialing page 📞

Wi-Fi phone will restart and execute provisioning to complete phone settings.

6. Summary of system commands

At dialing page 📞 , press following and 📞 to execute commands.

**6862*	Enter system setup menu
**6863*	Input WIFI SSID and Password
**6865*	Display firmware version
**6866*	Display MAC address
**6867*	Init Sync sync the phone settings (WIFI SSID, WIFI password, provision server) from other configured phones Step1: Configure the 1st phone from web interface: WIFI setting, provision server and make sure the 1st phone is able to connect to the WIFI AP and download configuration file. Step2: Remove the battery of 1st phone, press and hold the power button , and then reinstall the battery. The 1st phone will boot to AP mode Step3: Press **6867*# and select OK on the 2nd phone. The 2nd phone will auto connect to the 1st phone and sync the WIFI SSID, WIFI password, provision server from the 1st phone , once phone got WIFI connection , phone will show status on screen . Step4: Reboot the 2nd phone. The 2nd phone with connect to the WIFI AP and download provision file.
**6868*	Restart phone set
**6861*192*168*168*253#	Set provision server IP to 192.168.168.253
**6862*888#	Auto provision use 888 room number config file type
**6862*#	Auto provision use 888 room MAC config file type

7. Operations

Answering a Call

An incoming call is indicated by a ringing tone. You can answer the call by doing one of the followings:

* Press the dial key 📞 on the handset to answer the call.

Making a Call

Press dial key for numerical keypad.

* Press to enter the telephone number with green dial key 📞 to make a call..

Using the service function

To use the pre-assigned service function for the most commonly dialed numbers. Use the function to dial a number quickly, instead of keying in a complete number.

* Press service key 🔲
* Tap the icon to call desired service.

Using the Speaker Phone

* While talking on the phone, press the speaker key 🔊 on the phone for hands free conversation.

Charging the Handset Battery

You would need to charge the handset battery before using the handset.

* Install the battery into the handset.
* Place the handset onto the base unit and base unit will start to charge the handset automatically.
* This icon 🔋 will show charging progress.

8. Support

For technological support, please email to support@aeicommunication.com.tw

Record of Revision

Date	Ver.	Description
2019/11/25	1.0	First issue
2022/9/16	1.1	Update for firmware v2.02