CIGNUS

Radio • Antenna • Power Supply • Accessories

NX-200UV

User Manual

PREFACE

Thank you for purchasing our two way radio. This easy-to-use radio will deliver you secure, instant and reliable communications at peak efficiency. Please read this manual carefully before use. The information presented herein will help you to derive maximum performance from your radio.

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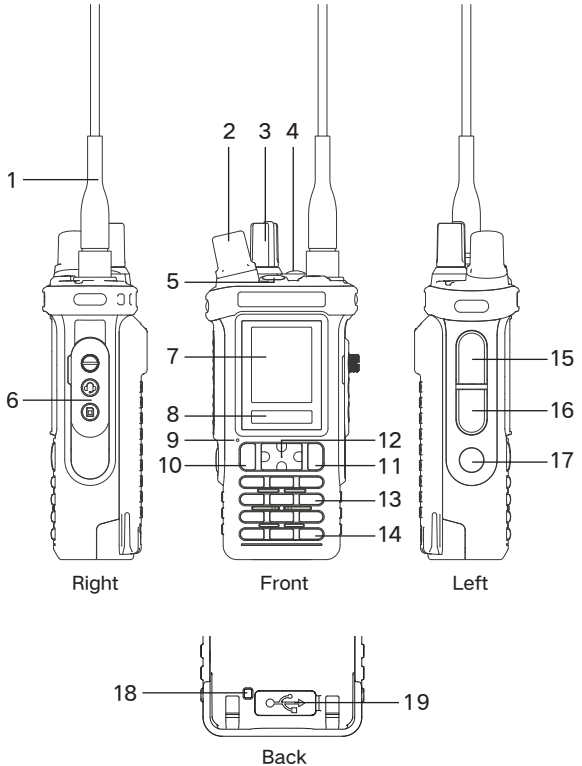
Supplied Accessories

Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any item is missed or has been damaged during shipment, please notify your dealer.

Item	Quantity
Antenna	1
Li-polymer Battery	1
Charger	1
Adaptor	1
Belt Clip	1
Hand Strap	1
User Manual	1

Product Overview



Product Overview

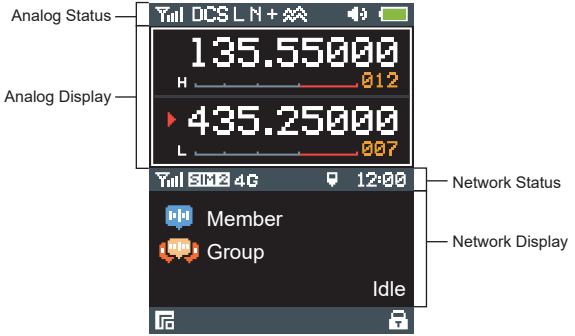
No.	Part Name	Function
1	Analog Antenna	Receiving analog signals
2	4G LTE Antenna	Receiving network signal
3	Power On/Off / Volume Knob	Rotate to turn on/off, adjust the volume
4	Top Button	Short press to customize functions, long press to activate SOS.
5	Status Indicator	Transmit: Red light is always on. Receive: Green light is always on.
6	Accessories Jack	Earphone/Microphone/Date cable/SIM card slot.
7	Lcd Display	Display the current working status of the radio.
8	Flashlight/ Sos Light	When the flashlight/SOS function is turned on, the light will turn on.
9	Microphone	When transmitting, please speak to the microphone at a distance of 5-10cm.
10	Menu/enter Key	Short press to enter the menu, long press to switch the channel/frequency mode.
11	Exit Key	In standby mode, short press to switch the main frequency. In the menu interface, short press to return to the previous menu.
12	Select Key	In standy mode, switch frequency or channel mode. In the menu interface, it is used to select the corresponding function.
13	Numeric Keyboard/ Function Shortcut Key	In frequency mode, input the frequency manually. In channel mode, input the channel number to switch channels. It can be used as a shortcut key to quickly enter the corresponding menu.

Product Overview

No.	Part Name	Function
14	Function Key/ Keypad Lock	Combined with the number keys to quickly enter the corresponding menu. In standby mode, long press to lock the keyboard, long press again to unlock.
15	PTT-1	Analog transmission
16	PTT-2	Network transmission
17	Side Key	You can customize the corresponding functions of long press/short press.
18	Charging Indicator Light	Red light: Charging Green light: Charging completed
19	Battery Charging Port	The battery can be charged using the Type-C charging cable.

Status Indicator

LCD Display



Icon	Description	Icon	Description
	Received signal strength	N	Narrow Band
SIM1	Currently using SIM card 1	W	Wide Band
SIM2	Currently using SIM card 2	+ −	Frequency difference direction
	GPS function is turned on		Dual standby is enabled
	Battery Indicator		Keyboard is locked
L	Transmit power is low power		Main frequency indication
H	Transmit power is high power		Receive/transmit
DCS	DCS Code		Bluetooth is enabled
CTCSS	CTCSS Code		

Shortcut Key Operation

In standby mode, short press the function key , after the letter F is displayed on the top of the display, short press the number key to quickly enter the corresponding function menu marked on the key. For function introduction, please see "Common Menu Function Introduction" in this manual.
If you press the function key by mistake and please do not enter the menu, just short press the function key again. After the letter F disappears on the top of the screen, you can operate other functions normally.

F + 1	>>>>	Analog/Network Dual Standby Swtiching
F + 2 TXP	>>>>	Transmit Power
F + 3 SAVE	>>>>	Battery Saver
F + 4 VOX	>>>>	Vox Function
F + 5 WN	>>>>	Wide/Narrow Band
F + 6 ABR	>>>>	Backlight Setting
F + 7 TDR	>>>>	Dual Frequency Standby
F + 8 BEEP	>>>>	Beep Tone
F + 9 TOT	>>>>	TOT Timer
F + 0 SQL	>>>>	Squelch Level

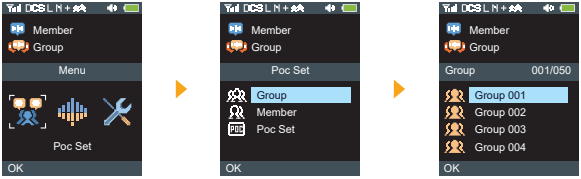
Menu Operations

Note

This machine provides an open menu, and the following functions can be set in the menu.

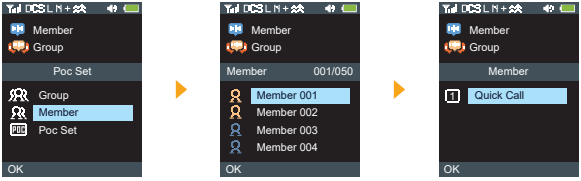
POC Settings

Group Selection(Group Call)



Operation: Menu--Poc set --Group
After entering the group selection menu, it will display all the groups you are in. Select the desired group and press the confirm green key to enter the group. Press PTT to call current group.

Member Selection(Member Call)

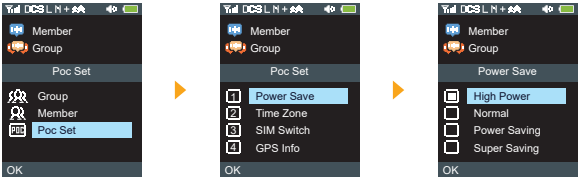


Operation: Menu--Poc set--Member
After entering the Member selection menu, it will display all the members in the group. Select the desired member and pressPTT to make a private call.

Menu Operations

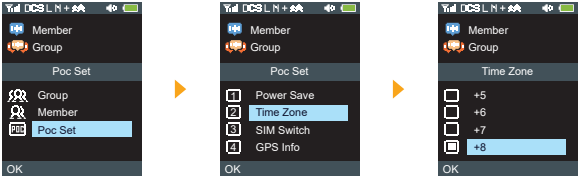
POC Set

Power Saver



The power save feature enables a reduction in the consumption of the battery when the radio is on standby.
You have 5 selections available: High Power / Normal / Power Saving / Super Saving.

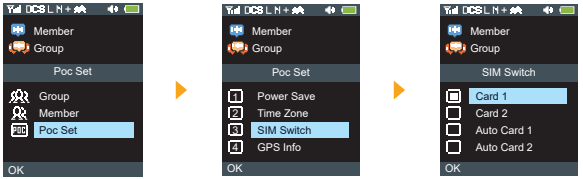
Time Zone



The radio can have the time displayed on the LCD adjusted to match local time zone.

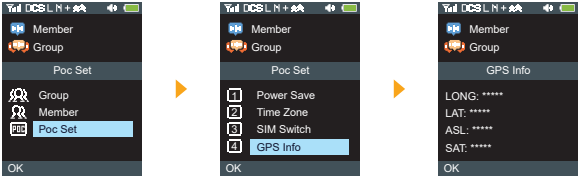
Menu Operations

SIM Switch

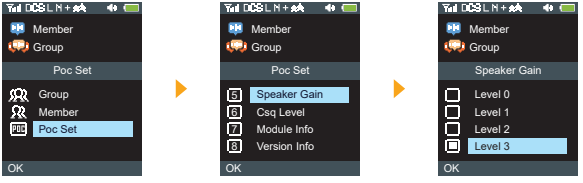


With dual SIM slots equipped, it allows to insert a secondary SIM card to achieve redundant links between two service providers.It allows your radio to automatically switch between the two SIM cards, depending on when one has “better availability for calls and internet.

GPS Information



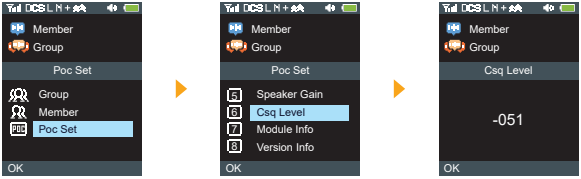
Speaker Gain



Menu Operations

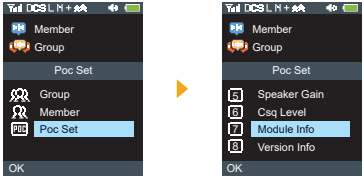
Allows you to adjust the external speaker loudness when accessories are connected to radio.
Level 0 will set the external speaker again to minimum level and Level 10 will set the external speaker gain to maximum level.

Csq Level



Carrier Signal Quality refers to the signal strengh, smaller values indicate better signal strength.

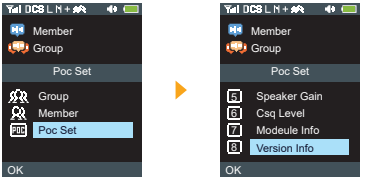
Module Information



To check IMEI number and ICCID number.

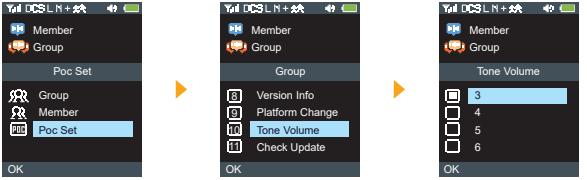
Menu Operations

Version Information



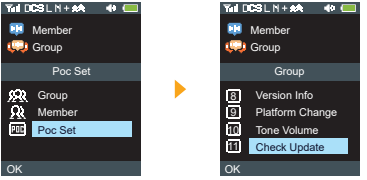
To check Module version and POC version.

Tone Volume



To adjust PTT tone volume. From 0--9.

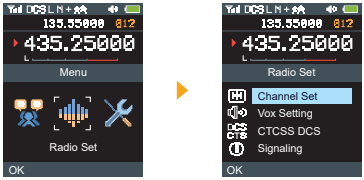
Check Update



To check POC update.

Menu Operations

Radio Set



Channel Settings

CH-Memory
Operation: Menu-Radio Set--Channel Set--CH-Memory
In the channel memory menu, press UP/DOWN key to select the desired channel number you want to store , press Menu Key to confirm and press Exit key to return to standby.
When the transceiver is in channel (MR) mode, the parameters(except channel name and scan adding) will be memorized into the channel.
When the transceiver is in frequency (VFO) mode, you can program all the parameters(frequency, offset, offset directions etc.) into the channel to memorize.
Note: When the selected channel is empty(without any parameter), the characters of channel number is 001,002,003.....
While the selected channel is with the memorized parameters, the characters of the channel number is CH-001, CH-002, CH-003.....

CH-Delete
Operation: Menu-Radio Set--Channel Set--CH-Delete
In the channel delete menu, press UP/DOWN key to select the channel you wish to delete or manually inputting the channel number, press Menu key to confirm and press Exit key to return to standby.

Display Mode
Operation: Menu-Radio Set--Channel Set--MDF-A / MDF-B
You can choose to display channel frequency, channel name or channel number.

Edit a Channel Name
Operation: Menu-Radio Set--Channel Set--CH-Edit Name
Channels names can only be edited in channel mode, and only the name of the present channel can be edited.
This operation is ineffective in frequency mode.

Menu Operations

Frequency Mode

Step Frequency (In Frequency mode)
Operation: Menu-Radio Set--Frequency Mode --Step
The frequency steps selectable for this transceiver are as follows:
2.5KHz, 5.0KHz, 6.25KHz, 10.0KHz, 12.5KHz, 20.0KHz, 25.0KHz, 50KHz.

Frequency Shift Direction(In Frequency mode)
Operation: Menu--Radio Set--Frequency Mode --Direction
There are three selections for the frequency shift direction setting:
1. Plus Shift(+), which means that the transmitting frequency is highter than the receiving frequency.
2. Minus Shift(-), which means that the transmitting frequency is lower than the receiving frequency.
3. None. Turn off this function.

VOX Function

Operation: Menu--Radio Set--VOX Setting
VOX level: Level 1 , Level 2, Level 3
The higher level of VOX is set, the higher volume is needed.
In SCAN and FM radio modes, the VOX functions is not available.

Radio Setting

Dual Standby
Operation: Menu--Radio Set--Radio Setting --Dual Standby
After turn on dual standby function, you can wait two channels signals from Band A and Band B at the same time.

Squelch Level
Operation: Menu--Radio Set--Radio Setting --Squelch
Squelch level is about when the signal is strong enough to turn on the squelch function, and when it is weak enough to turn off. You may hear the voice from the loudspeaker when turning ON the squelch and receiveing the same signal from other transceivers. High level makes it harder to received the weak signals, while lower level will be interfered by noises and/or unwanted signals.
The squelch level for this transceiver has 0-9 levels selectable, and level 0 means turn off the squelch function. The higher level of the squelch is set, the strong receiving signals is needed.

Menu Operations

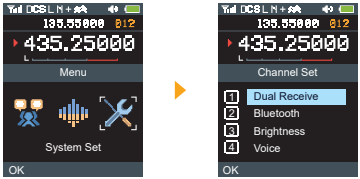
Transmitting Power
Operation: Menu--Radio Set--Radio Setting --Trans Power
This transceiver has HIGH and LOW transmitting power selectable:

TOT
Operation: Menu--Radio Set--Radio Setting --Tx Over Time
This function can automatically control the time we transmit each time you press PTT on the transceiver. This feature is very useful to avoid overheating excessive power transistors of the transceiver. The transceiver will be off transmission automatically once the set time.
This transceiver can be set in 6 levels: 30-240 seconds.

SOS Function
Operation: Menu--Radio Set--Radio Setting --Alarm Mode
Long press TOP orange key to turn on SOS function.
SOS function support three modes: On site / Send sound / Send code.
On Site: The radio emits an alarm tone and does not send out signals to others.
Send Sound: Transmit the alarm sound through the signal.
Send Code: Transmit the alarm code through the signal.

Scan Function
Operation: Menu--Radio Set--Radio Setting --Scan Mode
Time Operation (TO): Scanning will stop when it detects an active signal, and after 3s, it resumes scanning.
Carrier Operation(CO): Scanning will stop when it detects an active signal, until the active signal disappears, and after 5s, It resumes scanning.
Search Operation(SE): Scanning will stop after it detects an active signal.
Note: In channel mode, scanning the channel numbers in the channel list. In frequency mode, scanning in frequency steps.

System Set



Bluetooth

Operation: Menu--System Set--Bluetooth
This transceiver can connect to different Bluetooth devices according to the purpose
1. Select the Bluetooth working mode through the menu to turn on the Bluetooth function
2. Search for Bluetooth devices
3. Select the Bluetooth device for pairing

Repeater

Operation: Menu--System Set--Transit Mode
Enabling the repeater function can achieve cross-mode transit to expand the communication range.
The device responsible for communication must be in the same frequency or group as the repeater device, otherwise they cannot communicate with each other.

Programmable Keys

Operation: Menu--System Set--Press SK1/ Long press SK1 / Press TOP
In order to improve the convenience of operation, this transceiver provides side buttons and top button as programmable buttons. You can select the corresponding functions of the buttons according to your needs through menu settings.

Menu Operations

One Touch Frequency Search

1. The radio will act as a receiver. Press and hold the programed key, and the screen will display “SEEK...”
2. If the transmitter continues to transmit and the unit receives an effective frequency (the strongest and stable signal), the received frequency will be displayed. If there is a CTCSS or DCS, the CTCSS or DCS code is displayed, and if there is no CTCSS or DCS, NONE is displayed.
3. You can press the MENU key to save the search frequency and CTCSS or DCS to the channel.

Flashlight

You can set the programmable key as a flashlight function.
There are two lighting modes. Press the programed key to turn on the white light mode, and press it again to switch to the red and blue warning light mode. Press it again to turn off the light.

Troubleshooting

Before assuming your transceiver is broken, please check your transceiver according to the following table; if the problem persists, you can reset the transceiver, which sometimes.

Fault	Solution
Reception prompt remains but speaker is silent	Check that the volume knob has been set to maximum. Please reset CTCSS/DCS to check whether different channels from other group members have been set. Check whether mute settings are correct.
Keypad is unresponsive	Check whether keypad has been locked. Check whether other keys have been pressed.
Other voices (not from group members) appear in the channel.	Please change the CTCSS / DCS code.
In standby, automatic transmission without pressing PTT key.	Please check if VOX function is active or VOX level is too low.
Can not enter scanning mode.	Please see if the scan group channel, Scan Add function is turned on.
Can not set up the cross band repeater.	Please make sure A/B area is on the cross-band repeaters operating frequency.
Can not transmit in repeat mode.	Please check to see if the receivers squelch and CTCSS / DCS settings are correct.
RX echo or noise in the network mode.	The relay link from some mobile network operators is bad. Should resume the radio and might switch to the nice relay link.

Troubleshooting

Fault	Solution
Standby time is shorten.	It might be casused by the system settings from the mobile network operators. The same radio is different standby time using the different systems from different mobile network operators. Battery is used up, and used in the high or low temperature, battery life might be shorten. Network connection is failed, so radio is keeping transmitting to search the repeater signals. Its is also consuming the battery to shorten the standby time. Should use the radio in the nice network signal is weak.
Network connection is failed.	USIM card is disable, bad signal or not in the service area. Should use the USIM card. Should use the radio in the wide or strong signal areas for communication.

Disclaimer

All the specifications and designs are subject to change without notice due to continuous technological development.
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