

WARNING! NEVER hold the radio so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The radio will perform best if the microphone is 5-10 cm (2 to 4 inches) away from the lips and

WARNING! NEVER operate the radio with a headset or other

If you experience a ring in your ears, reduce the volume or

Hearing experts advise against continuous high volume operations.

audio accessories at high volume levels.

WARNING! NEVER connects the radio to a power source that is DC fused at more than 5A. Accidental reverse connection will be protected by this fuse, but higher fuse values will not give any protection against such accidents and the radio will be ruined. DO NOT push the PTT when he does not actually desire to transmit. Place the unit in a secure place to avoid inadvertent use by children. DO NOT operate the radio near unshielded electrical blasting caps or in an explosive atmosphere. AVOID using or placing the radio in direct sunlight or in areas with the temperatures below -10 °C(+14 °F) or above +60 °C(+140 °F). The use of non special battery packs/chargers may impair radio performance and invalidate the warranty. **ABOUT THE RADIO INCLUDED IN YOUR PACKAGE**

PRECAUTIONS

the radio is vertical.

4. AC Adaptor x 1 5. Desk-top Charger x 1 6. Belt Clip(with screws) x 1

2

LCD: Displays the current frequency/channel and various

Top Key (Programmable key): The function of the key

functional operation and status information

MENU Key: MENU Key or Confirm Key

The box contains the following items. If any items are missing or damaged, immediately contact the dealer where you purchase

7. Hand Strap x 1

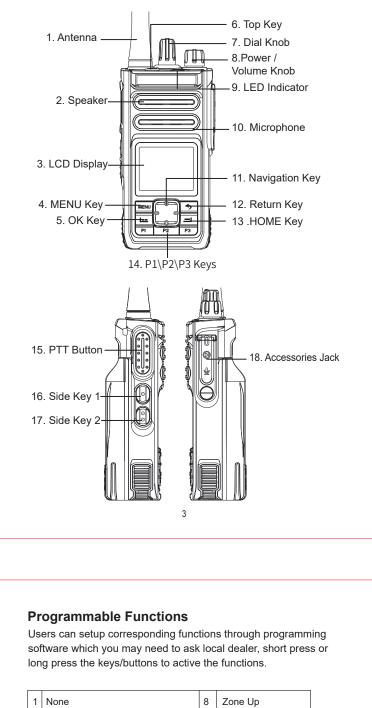
the product.

1. Radio Body x 1

3. Battery Pack x 1

2. Antenna x 1

- 8. User Manual x 1



can be programmed by software Dial knob: Turn the knob to select the channel

ABOUT THE RADIO

Speaker: To receive voice

OK Key: Enter the contact list

Antenna

2.

8.	Power / Volume Knob: Turn on/off or adjust volume					
9.	LED indicator light					
10.	Microphone					
11.	Navigation Keys (Up /Down /Left /Right keys): Select the					
	function					
12.	Return Key: Press the key return to the upper-level menu.					
	When entering text, user can press it to delete the text					
13.	HOME Key: Quickly return to the home screen					
14.	P1/ P2,/P3 Keys (Programmable keys): The function of					
	the key can be programmed by software					
15.	PTT Button: When launching, press this key and speak					
	into the microphone; Release this key when receiving					
16.	Side Key 1 (Programmable key 1): The function of the					
	key can be programmed by software					
17.	Side Key 2 (Programmable key 2): The function of the key					
	can be programmed by software					
18.	Accessories Jack (Programming port /headset port): Can					
	be used for programming cable/ external headset and so on					
nas l icen	n leaving the factory, the frequency band of the walkie talkie been limited, and users cannot use the official CPS to set non sed frequencies, nor can they add some software functions as username, group alias, CTCSS, DCS, etc.					
	4					

▼ Strong signal Full battery, 3 bars ▼ Medium signal 70% battery, 2 bars ■ 30% battery, 1 bars Y. Weak signal ▼_x No signal □ Empty Output Power Icon Scanning Icons H High output power Scanning state Low output power P Receive priority channel status Receive non-priority channel status

Recording function enabled

Beep On/OFF

Activate the emergency alarm function

Battery Bars

LED Indicators

2

3 Monitor

Scan ON/OFF

Talk Around

6 Emergency Alert

5 High / Low Output Power

7 One-Button Calling (CH1-5)

The LED indicators show the operational status of the radio. Transmitting signal Red light keeps on

Zone Down

Scrambler

13 Contact List

10

11

12

VOX ON/OFF

Beep ON/OFF

Green light keeps on	Receiving signal
Red light flash	1.Low battery alert
	2.Operating programming software to
	read the data from device
Green light flash	Operating programming software to write
	the data to device

current channel of the device is an analog channel. Otherwise, press the Menu key will enter the digital mode menu if the current

Setting

Radio Info

Factory Reset

Press the MENU key enter the analog MENU directly when the

MENU

Zone

Radio Setting

ANA Analogue mode

•

A

(c

LCD Icons

Signal Strength Icons

6

Power Saving

Beep Sound

Keyboard Locked/Unlock Programmable Keys by Software

One-button Calling

Low Battery Alert

IP68 Standard

Launch Approval Condition

MENU Of Digital Mode

Audio Setting

BASIC OPERATION

How To Use The MENU

channel is a digital channel.

Scan

MENU | Contacts | Message | Call logs | Scan | Zone | Setting | Record Audio Setting Radio Setting Radio Info Factory Reset

Note: Some of the above functions require programming software operations to achieve.

Width /Narrow Bandwidth Selective

Functions & Features

DMO (2-Slot direct mode)

TOT (Time-out Timer)

Voice Announcement

Analog Mode Squelch Levels Tail Elimination

Compandor

Monitor

High/Low Output Power Switch

General

Scan

VOX

Channel Mode

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Radio Info: User can check the radio ID, alias, frequency range,

Factory Reset: the user can reset the device here. Please note that after a successful operation, all Settings will be restored to

User can check all contacts information here after programmed

Quick Text: you can select the preset SMS from here for quick

User can check or operate all incoming or outgoing calls here.

After entering the Setting page, user can see three options,

Record Setting: user can switch On/Off record function here. Each recording can be recorded for up to 8 minutes. The device will recording every calls automatically after active this function. Record File: user can check and playback all records here after

"Record Setting", "Record File" and "Delete All".

Receiving

Frequency Stability

Analog Sensitivity

Digital Sensitivity

Intermodulation

Audio Distortion

ways to Minimize Such hazards.

limits for "Occupational Use Only".

Adjacent Channel Selectivity

Spurious Response rejection

After entering the Setting page, user can see four options

"Quick Text", "Inbox", Outbox" and "Draft".

editing but is still not sent.

sending.

firmware ver. and SN information here.

factory Settings.

Contacts

by software.

Message

Call Logs

After entering the Setting page, user can see four options "Audio Setting", "Radio Setting", Radio Info" and "Factory Reset". Audio Setting: we can fine adjustment the audio "Equalizer" here, select the value in the list. Or switch on or off in item "Mic Denoiser".

1. Power Level: High / Low

3. Brightness: Level 1-3 4 .Tone: Silent (On/Off)

FUNCTIONS OPERATION

On-Off: turn of or turn off scan function.

check the channels in scan list or turn it off.

and the "Scan List".

Zone

5. Vox: On/Off and Gain Level 6. SQL Level: SQ Open, SQL Normal and SQL Tight (Analog mode only) 7. Encryption: On/Off or Code list 8. Power Save: Off, Level 1-3

9. Tail Revert: Off, 55Hz, 62Hz, 134.4Hz, 120 Degree, 180 Degree and 240 Degree (Analog mode only) 10. TOT: Off, 30s, 60s, 90s, 120s, 150s, 180s

After entering the Scan page, user can see two options "On-Off"

Scan List: user can selective scan list setup in software before,

User can choose the Zone after setup by software. There's 32 channel zones and each zone contains a maximum of 32 channels. The radio will back to standby status after select the Zone.

Radio Setting: user can setup below functions here.

2. Backlight: Infinite, 5S, 10S, 15.....300S.

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General

MURS Frequency

Channel Capacity

Channel Spacing

Battery Capacity

TX Output Power

Frequency Stability

Normal Operating Voltage 7.4V

11 . Language: Chinese / English

12. Key Lock: Off/ On

TECHNICAL SPECIFICATION

CH.No

2

3

5

1024

±1.0ppm

2200mAh

Max 2W

CH.Freq authorized bandwidth

11.25 kHz

11.25 kHz

11.25 kHz

151.820

151.880

151.940

12.5kHz/25KHz (Analog)

154.570 20 kHz

154.600 20 kHz

Operating Temperature -20℃~+55℃ Inbox: user can operates all incoming SMS messages here. Antenna Impedance 50Ω Outbox: user can manipulate all outgoing SMS messages from -40°C ~ +60°C Store Temperature 134mm x 61mm x 39mm **Draft:** stores information that the user is editing or has finished Sizes Weight Around 305g Waterproof and dustproof IP68

finished recording. Or delete the records one by one. Delete All: user can delete all records in one time here.

+/-1.0ppm

55dB

60dB

≥84dB

0.22uV/-120dBm (12dB SINAD)

0.3uV/-117.4dBm (5% BER)

TIA603C: ≥55dB@12.5KHz

ETSI: ≥55dB@12.5KHz

Blocking Spurious Response rejection -12~0 dB @12.5KHz -8~0 dB @25KHz SNR -40 dB@12.5KHz /-45 dB@25KHz Receiving audio rating power ≥0.5W Receiving audio MAX. Power Audio Distortion ≤3% (Typical value) Conducted emission spurious -57 dBm **Transmitting** FM Modulation 12.5KHz: 11K0F3E / 25KHz: 16K0F3E Conduction/radiation emission Modulation Limiting ±2.5KHz @12.5KHz /±5.0KHz @25KHz -40 dB@12.5KHz /-45 dB@25KHz FM SNR Adjacent Channel Power 60 dB@12.5KHz /65 dB @25KHz

above indicators are subject to change without prior notice. 12 **RF Exposure Statement**

Our radio generators RF electromagnetic energy during transmit mode. This radio

is designed for and classified as "Occupational Use Only" meaning it must be used

only during the course of employment by individuals aware of the hazards and the

This radio is NOT intended for use by the "General Population" in an uncontrolled

environment. This radio has been tested and complies with the FCC RF exposure

In addition, our radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

Practice for the Measurement of Potentially Hazardous Electromagnetic Fields

Note: The above specifications are tested in accordance with applicable

standards. Due to the continuous development of technology, the

FCC WARNING STATEMENT This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and(2) this device must accept any interference including received interference that may cause undesired operation. The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the FCC equipment authorization for this radio could violate FCC 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 against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not

installed and used in accordance with the instructions, may cause harmful

interference to radio communications. However, there is no guarantee that

If this equipment does cause harmful interference to radio or television 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

-Connect the equipment into an outlet on a circuit different from that to which the

Changes or modifications not expressly approved by the party responsible for

interference will not occur in a particular installation.

-Reorient or relocate the receiving antenna.

receiver is connected.

-Increase the separation between the equipment and receiver.

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

compliance could void the user's authority to operate the equipment.

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maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of

any transmitter component (crystal, semiconductor, etc.) not authorized by the IC

Note: Use of this radio outside the country where it was intended to be distributed

equipment authorization for this radio could violate IC rules.

is subject to government regulations and may be prohibited.

ISED WARNING STATEMENT Use of the radio in Canada is subject to the rules & regulations of IC. Changes or modifications not expressly approved by our may void the user authority granted by the IC to operate this radio and should not be made. To comply with IC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter

-IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Important: Any changes or modifications not expressly approved by the party Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields responsible for compliance could void the user's authority to operate this device. Your radio is set up to transmit a regulated signal on an assigned frequency. It is -American National Standards Institute (C95.1 1992), IEEE Standard for Safety against the law to alter or adjust the settings inside the radio to exceed those Levels with Respect to Human Exposure to Radio Frequency Electromagnetic limitations. Any adjustments to your radio must be made by qualified technicians. -RF -American National Standards Institute (C95.3-1992), IEEE Recommended

The information listed above provides the user with the information needed to make him or her aware of RF exposure and what to do to as-sure that this radio operates with the FCC RF exposure limits of this radio. Electromagnetic Interference/Compatibility

DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft and blasting sites. Occupational/Controlled Use

During transmissions, the radio generates RF energy that can possibly cause $% \left(1\right) =\left(1\right) \left(1\right$

interference with other devices or systems. To avoid such interference, turn off the

radio in areas where signs are posted to do so.

The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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This EUT is compliance with SAR for controlled exposure limits in IC RSS-102 at operating duty factors of up to 50% and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This equipment should be installed and operated with a minimum distance of 2.5cm must be maintained when held-to face, and body worn operations are restricted to the approved original accessories (belt clip), a minimum distance of 0 cm.

Cet EUT est conforme au SAR pour les limites d'exposition contrôlées dans IC RSS-102 à des facteurs de service allant jusqu'à 50% et a été testé conformément aux méthodes et procédures de mesure spécifiées dans IEEE 1528 et IEC 62209. Cet équipement doit être installé et utilisé avec une distance minimale de 2.5 cm doit être maintenu lorsqu'il est tenu face à face, et les opérations portées sur le corps sont limitées aux accessoires d'origine approuvés (clip de ceinture), une

RF Exposure compliance Statement and operating instructions

distance minimale de 0 cm.

Note:

WARNING:

être effectué que par ou sous la supervision d'une personne techniquement qualifiée qui effectue l'entretien et la réparation de l'émetteur dans un Service mobile et fixe terrestre privé et qui est certifiée par un représentant de l'Organisation de l'utilisateur du service.Le remplacement de tout composant émetteur (cristal, semi - conducteur, etc.) qui n'est pas autorisé par l'équipement IC peut enfreindre les règles de l'IC. Note:L'utilisation de cette radio à l'extérieur du pays où elle est destinée à être distribuée est soumise à des règlements gouvernementaux et peut être interdite Important:Toute modification ou modification qui n'est pas expressément approuvée per la partie responsable de la conformité peut priver l'utilisateur de

AVERTISSEMENT: LES RÈGLES DE LA ISED ET LA LOI FÉDÉRALE INTERDISENT LA MODIFICATION DE CET APPAREIL POUR RECEVOIR DES SIGNAUX DU SERVICE DE RADIOTÉLÉPHONIE CELLULAIRE.

* 25 kHz channels not available in the US. Availability is subject to individual country law and regulations. All specifications shown are guaranteed unless otherwise stated and are subject to Specifications are for unit excluding options, unless otherwise stated.

This product has been factory set to comply with the requirements of the US/Canada/European Union, and the user cannot program the product or manually enable the product to operate outside of the frequency bands regulated by the respective regulations. Users must comply with the laws of their region and must not use unofficial

software or illegal techniques to enable the product to operate outside of the offending frequency bands. You will be penalized by law.

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L'utilisation de la radio au Canada est assujettie aux règlements de la société radio Canada.Toute modification ou modification qui n'est pas expressément approuvée par la compagnie peut invalider les droits d'utilisation accordés par IC pour l'exploitation de cette radio et ne devrait donc pas être modifiée ou modifiée.Pour se conformer aux exigences d'IC, le réglage de l'émetteur ne doit

spécifié à la fréquence spécifiée. Il est illégal de modifier ou d'ajuster les réglages internes de la radio au - delà de ces limites. Tout réglage de la radio doit être effectué par un technicien qualifié.

l'autorisation d'utiliser cet appareil.Votre radio est réglée pour envoyer le signal

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