

35100427_RevA	TO USERS		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 measures: • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help. 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 received, including interference that may cause undesired operation.	SAFETY INFORMATION				
	Thank you for purchasing our product! This Manual (contains both analog and digital radios) is designed to make you quickly grasp the use of the device. In order to avoid physical injury or property loss due to improper operation, please read this Manual carefully before using the device.							
QUICK START GUIDE	NOTICE		ISED C RSS warning This product meets the applicable Industry Canada technical specifications. / Le présent matériel est conforme aux spécifications techniques applicables d'Industrie Canada.					
	The device meets the requirements of FCC PART 90 and PART 15. Local laws and regulations shall be complied with when setting up or using the equipment, and corresponding qualifications and relevant procedures shall be obtained if necessary. Consulting the relevant authorities is suggested.							
	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 interference will not occur in a particular installation.							
	(1)		(2)	(3)				
• Do not expose the radio to direct sunlight for a long time or place it near the heating Radio. • If you wear a portable radio, make sure the antenna is at least 2.5 cm away from your body when the radio is transmitting. WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.	exposure limits always adhere to the following procedures. Guidelines: • Do not remove the RF Exposure Label from the device. • User awareness instructions should accompany device when transferred to other users. • Do not use this device if the operational requirements described herein are not met. Operating Instructions: • Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50 % of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance). • Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes. • When worn on the body, always place the radio in approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use other manufacturer's non-approved accessories may result in exposure levels, which exceed the occupational/controlled environment RF exposure limits.		• If you are not using a body-worn accessory and are not using the radio in the intended use position in front of the face, then ensure the antenna and the radio are kept at least 2.5 cm (one inch) from the body when transmitting. Keeping the radio at the proper distance is important because RF exposures decrease with increasing distance from the antenna. • Use only manufacturer's approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may exceed the FCC and IC RF exposure guidelines. • For a list approved accessories please consult your local dealer for information.					
CAUTION: Use the approved charger to charge the battery. The remaining lithium-ion battery is limited to 30% pursuant to the new lithium battery shipment regulation approved by International Air Transport Association (IATA). Before use, charge the battery. It is recommended that the radio remain powered off during charging. Use of battery not recommend or replaced with incorrect type of battery may result in a risk of fire and explosion or personal injury. Maximum ambient temperature around the power supply equipment including charger must not exceed 40 °C (104°F) and device operating temperature not exceed 55 °C (131°F).	RF Exposure Compliance and Control Guidelines and Operating Instructions To control your exposure and ensure compliance with the occupational/controlled environment		EU Regulatory Conformance As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the following directives: 2014/53/EU, 2011/65/EU, and 2012/19/EU. Please note that the above information is applicable to EU countries only.					
	(4)		(6)					
• Les instructions de sensibilisation des utilisateurs doivent accompagner l'appareil lors de leur transfert à d'autres utilisateurs. • N'utilisez pas cet appareil si les exigences opérationnelles décrites ici ne sont pas remplies. Mode d'emploi: • Ne transmet pas plus que le facteur de marche nominal de 50% du temps. Pour transmettre (parler), appuyez sur le bouton Push-To-Talk (PTT). Pour recevoir des appels, relâchez le bouton PTT. La transmission 50% du temps, ou moins, est importante car cette radio génère une exposition mesurable à l'énergie RF uniquement lors de la transmission (en termes de mesure pour la conformité aux normes). • Tenez la radio en position verticale devant le visage avec le microphone (et les autres parties de la radio, y compris l'antenne) à au moins 2,5 cm du nez. Garder la radio à la bonne distance est important car les expositions RF diminuent avec la distance de l'antenne. L'antenne doit être tenue à l'écart des yeux. • Lorsqu'il est porté sur le corps, placez toujours la radio dans un clip, un support, un étui, un étui ou un harnais de corps approuvé pour ce produit. L'utilisation d'accessoires approuvés par le corps est importante car l'utilisation d'accessoires non approuvés par d'autres fabricants peut entraîner des niveaux d'exposition qui dépassent les limites d'exposition aux RF des	environnements professionnels / contrôlés. • Si vous n'utilisez pas d'accessoire porté sur le corps et n'utilisez pas la radio dans la position d'utilisation prévue devant le visage, assurez-vous que l'antenne et la radio sont maintenues à au moins 2,5 cm (un pouce) du corps lors de la transmission. . Il est important de garder la radio à la bonne distance, car les expositions RF diminuent avec l'éloignement de l'antenne.		European Union (EU) Waste of Electrical and Electronic Equipment (WEEE) directive: The European Union's WEEE directive requires that products sold into EU countries must have the crossed out trash bin label on the product (or the package in some cases). As defined by the WEEE directive, this cross-out trash bin label means that customers and end-users in EU countries.	RF RADIATION INFORMATION				
	INFORMATION CONCERNING SAR FOR FCC							
	<table><tr><th>Max. SAR Level(s) Reported</th><th>Limit (W/Kg)</th></tr><tr><td>1.35 W/kg 1g Head SAR 1.92 W/kg 1g Body SAR</td><td>8.0</td></tr></table>		Max. SAR Level(s) Reported	Limit (W/Kg)	1.35 W/kg 1g Head SAR 1.92 W/kg 1g Body SAR	8.0		
Max. SAR Level(s) Reported	Limit (W/Kg)							
1.35 W/kg 1g Head SAR 1.92 W/kg 1g Body SAR	8.0							
	(8)		(10)					
3. Close the battery cover properly. Antenna Installation Belt Clip Installation	Accessory Installation		LED Indicator					
	(12)		(13)					
VOLUME CONTROL	2. For the analog channel that requires intercom, please set the transmitter and receiver to the same sub-audio frequency.		Charging Function					
Press [+] or [-] key to increase or decrease the volume, which is adjustable from level 0 to 9. Note: When you press [+] again under the maximum radio volume, the speaker will prompt an error sound. When the volume is adjusted to the minimum by pressing [-] key, the radio is mut	3. If encryption is enabled for the digital channel that requires intercom, please set the transmitter and receiver to the same password.		Charging Precautions:					
TRANSMITTING/RECEIVING	4. For the digital channel that requires intercom, please set the transmitter and receiver to the same color code.		Charging Precautions:					
Press and hold the [PTT] key to transmit the signal of the current channel and the red LED indicator is on. Release the [PTT] key to receive the signal from the same channel, the speaker will make a call sound and the green LED indicator will be on when a signal is received.	5. Transmit/receive at high/low power (switch by P1/P2 key).		Charging Precautions:					
PRECAUTIONS FOR RADIO OPERATION	6. After inserting the headset, press the [PTT] key to transmit and receive speech through the headset.		Charging Precautions:					
• When the radio is transmitting, keep the radio in a vertical position, and keep the microphone 2.5-5 cm away from the mouth. When transmitting, the radio should be at least 2.5 cm away from the head or body.	7. Transmit with VOX headset after enabling VOX (turn on/off VOX through side key and insert the VOX headset).		Charging Precautions:					
• Do not turn on/off the radio repeatedly during use, and adjust the volume to a level suitable for your hearing.	MENU SELECTION		Charging Precautions:					
1. Before using the radio for communication, please set the transmitter and receiver to the same frequency point.	1. The [Menu] key were set to (i) switch channel, (ii) set high/low power, and (iii) turn on/off scanning. Continue press menu button to enter to next function.		Charging Precautions:					
	2. If the radio is not operated for 3 seconds or [PTT] key is pressed, it will exit the menu mode.		Charging Precautions:					
	CHANNEL SELECTION		Charging Precautions:					
	Press the [Menu] key once to enter the channel selection menu, and then press the [+] or [-] key to select the channel. The current channel number will be broadcast every time you select. There are 1-16 channels to choose from. Press [PTT] key to save after switching the channel.		Charging Precautions:					
	(16)		Charging Precautions:					
READING/Writing PASSWORD SETTING	SETTING/CHANGING FREQUENCY		Charging Precautions:					
1.To prevent information leakage, you can set the reading and writing password through programming software.	1. Frequency range: 430MHz -470 MHz (base on models)		Charging Precautions:					
2.Each time you read or write, you must enter the correct 8-digit password before operating.	2. The frequency can be set to any value within this range.		Charging Precautions:					
3.To cancel the password, clear the password and confirm.	3. In DM mode, you can talk only when the transmitting frequency and receiving frequency are the same.		Charging Precautions:					
4.To change the password, input the old password first, and then enter the new password to rewrite.	4. In DMR repeater mode, the transmitting frequency and receiving frequency are different, but it needs to be supported by repeater.		Charging Precautions:					
5.When you forget the password, you can resume the factory settings or re-burn it.	HIGH/LOW POWER SETTING		Charging Precautions:					
SETTING SUB-AUDIO FREQUENCY	Users can set the power level of each channel to high or low. High power can achieve communication with the radios which are relatively far away; and low power can achieve communication with radios which are close.		Charging Precautions:					
1.The sub-audio frequency supports CTCSS, DCS positive code, DCS reverse code, standard sub-audio and non-standard sub-audio.	1. Switch the current channel to "High/Low Power" by [Menu] key.		Charging Precautions:					
2.Only when the transmitting sub-audio and receiving sub-audio are the same can they talk to each other.	2. When switching between high and low power, the voice prompt "High"/"Low".		Charging Precautions:					
3.A radio with sub-audio can transmit to radio without, but cannot receive signal without sub-audio.	3. Press the preset "High/Low Power" key to switch between high (2W) or low (0.5W) transmission power.		Charging Precautions:					
CHANNEL SPACING	TOT FUNCTION		Charging Precautions:					
1.There are two types of channel spacing: 12.5K, 12.5 is narrow-band.	In order to prevent some users from occupying the same channel for a long time, users can set to enable the TOT function. When the user's continuous transmission time on the current channel reaches the set time, the radio will stop		Charging Precautions:					
2.Radios with same frequency point and different channel spacing can talk to each other.	(20)		Charging Precautions:					
emergency call is sent. Receiver side also will receive an alert tone after receiving the emergency call.	CALL PROMPT (PRIVATE CALL ONLY)		Charging Precautions:					
DIGITAL ENCRYPTION	1. Configure one touch call through programming software for private call contacts.		Charging Precautions:					
1. Add key through programming software, which only supports basic encryption, maximum 8 characters.	2. After writing to the radio, press the side key to trigger the call prompt.		Charging Precautions:					
2. Supported characters include: numbers, uppercase letters, lowercase letters.	3. After the transmitter triggers the call prompt, the receiver's red indicator will flash.		Charging Precautions:					
3. The same encryption template must be configured for transmitter and receiver for normal intercom, otherwise the speech content cannot be heard clearly.	ONE TOUCH CALL (PRIVATE CALL ONLY)		Charging Precautions:					
4. The main purpose is to prevent the content of the speech from being monitored by other people at the same frequency.	1. Configure one touch call through programming software.		Charging Precautions:					
COLOR CODE	2. After writing to the radio, press the side key to trigger the one touch call.		Charging Precautions:					
1. For digital channels, the color code must be same to call.	3. The transmitter's red indicator stays on for a few seconds, and then press the [PTT] key to transmit.		Charging Precautions:					
2. The color code range of this product can be set: 0-15.	4. The receiver's green indicator stays on for a few seconds, and then it can receive normally.		Charging Precautions:					
CONTACTS	REMOTE MONITOR (PRIVATE CALL ONLY)		Charging Precautions:					
1. Contacts are only valid for digital channels.	1. Configure one touch call through programming software to select remote monitor.		Charging Precautions:					
2. There are three kinds of contacts: private call, group call and all call, which need to be configured through the programming software.	2. Press the preset side key to monitor the other party remotely.		Charging Precautions:					
	3. After successful monitoring, the green indicator will always be on, and the sound around the other party can be clearly monitored.		Charging Precautions:					
	(24)		Charging Precautions:					
4. The radio voice announcement is defaulted to English	OPTIONAL ACCESSORIES		Charging Precautions:					
The main accessories of the Radio are included in the product packaging box. For more information about accessories, please consult your local dealer.	The main accessories of the Radio are included in the product packaging box. For more information about accessories, please consult your local dealer.		Charging Precautions:					
Note: Please use the accessories specified by our company. If you use unauthorized accessories, you shall be responsible for all the consequences.	DISCLAIMER		Charging Precautions:					
This manual strives for the accuracy and completeness of its content during the preparation. Repeated review has been carried out, and the company will not assume any responsibility for errors or omissions that may occur during the output and printing process. In addition, due to the continuous development of technology, the company reserves the right to change the product design and specification without prior notice.	This manual strives for the accuracy and completeness of its content during the preparation. Repeated review has been carried out, and the company will not assume any responsibility for errors or omissions that may occur during the output and printing process. In addition, due to the continuous development of technology, the company reserves the right to change the product design and specification without prior notice.		Charging Precautions:					
	GUARANTEE CARD		Charging Precautions:					
	Model Number: _____		Charging Precautions:					
	Serial Number: _____		Charging Precautions:					
	Purchasing Date: _____		Charging Precautions:					
	Dealer: _____ Telephone: _____		Charging Precautions:					
	User's Name: _____ Telephone: _____		Charging Precautions:					
	Address: _____ Post Code: _____		Charging Precautions:					
	REMARKS:		Charging Precautions:					
	1. This guarantee card to be kept by the user, no replenishment if lost.		Charging Precautions:					
	2. This guarantee card to be filled & chopped by the dealer, or it is invalid.		Charging Precautions:					
	3. Don't alter the guarantee card, please confirm the serial number on the guarantee card is same as that on the machine.		Charging Precautions:					
	4. Warranty void if seal broken.		Charging Precautions:					
	5. 1 year guarantee for product, 6 months for charger, battery and antenna .		Charging Precautions:					
	6. The user can get repairing service from the following ways:		Charging Precautions:					
	a. Go to the shop where you buy the machine		Charging Precautions:					
	b. Our local repairing agent		Charging Precautions:					
	CHOP BY DEALER		Charging Precautions:					
	(28)		Charging Precautions:					