# COTRE

## CO01D Digital Radio

Quick Start Guide

## TO USERS

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.

### NOTICE

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.

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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.

### ISEDC RSS warning

This product meets the applicable Industry Canada technical specifications. / Le présent matériel est conforme aux specifications techniques applicables d'Industrie Canada.

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## SAFETY INFORMATION

In order to use the radio safely and efficiently, please read the following safety information:
• The radio can only be maintained by professional technicians. Do not disassemble the radio without permission.
• Only the batteries and chargers specified by our company can be used.
• To avoid problems caused by electromagnetic interference and electromagnetic compatibility, please turn off the radio in places where the "Please turn off the radio" sign is displayed, such as hospitals and other health care places. When taking the flight, please turn off the radio if the crew requests to do so.
• In vehicles with airbags, do not place the radio in the area where airbag deployment may be involved.
• Please turn off the radio before entering flammable or explosive environment.
• Do not replace or charge the battery in a flammable or explosive environment.
• Please turn off the radio before approaching the blasting area and the detonator area.
• Do not use the radio with damaged antenna. A damaged antenna may cause minor burns when it comes into contact with the skin.

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• 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.

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℃ (104°F) and device operating temperature not exceed 55℃ (131°F).

### RF Exposure Compliance and Control Guidelines and Operating Instructions
To control your exposure and ensure compliance with the occupational/controlled environment

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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.

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• 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.

### 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.

### 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

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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

1. This product is limited to occupational applications that can meet RF energy radiation requirements. The user must be fully aware of the RF radiation hazards and can take corresponding measures to meet the RF radiation limitation requirements.
2. Radio frequency (RF) refers to the electromagnetic frequency that can be radiated into space. It is a widely used technology in the fields of communication, medical treatment, and food processing. It will generate certain RF radiation during use.

### EXPOSURE RF COMPLIANCE ET LIGNES DE CONTRÔLE ET INSTRUCTIONS OPÉRATIONNELLES

contrôle et Instructions opérationnelles
Pour contrôler votre exposition et garantir le respect des limites d'exposition dans un environnement professionnel / contrôlé, suivez toujours les procédures suivantes.
Des lignes directrices:
• Ne retirez pas l'étiquette d'exposition RF de l'appareil.

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• 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

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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.

### INFORMATION CONCERNING SAR FOR FCC

| Max. SAR Level(s) Reported | Limit (W/Kg) |
|---|---|
| 1.35 W/kg 1g Head SAR<br>1.92 W/kg 1g Body SAR | 8.0 |

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## PRODUCT CONTROL



- Antenna
- PTT Key
- Program Key
- Menu Key
- Up Key
- Down Key
- State Indicator Light
- Accessory Connector
- Speaker
- Power Key
- Microphone
- Charging Contact
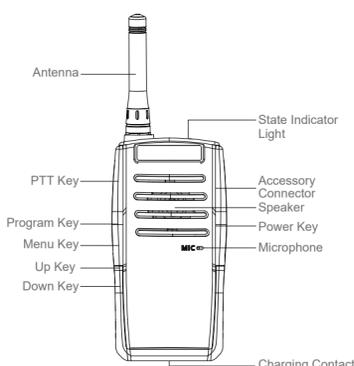
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### LED Indicator

| Radio Status | LED Indication |
|---|---|
| Standby | Green Slow Flash |
| Low Battery | Red Fast Flash |
| Transmit (TX) | Solid Red |
| Receive (RX) | Solid Green |
| Programming Mode (Read from Radio) | Red Fast Flash |
| Programming Mode (Write to Radio) | Green Fast Flash |

### Battery Installation

1. Press the dots on the battery cover and slide to remove the battery cover.
2. Attaching the lithium battery pack.to battery compartment.

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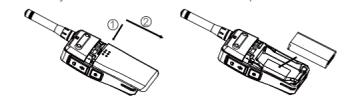
3. Close the battery cover properly.

Note: To remove the battery pack, please turn off the radio first.

### Antenna Installation

Note: Do not hold the radio by the antenna; as it may reduce radio performance and service life of antenna.
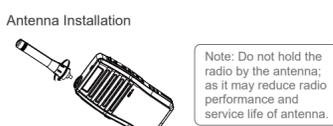
### Belt Clip Installation
Align the screw holes on the belt clip with those on the radio, and tighten belt clip with screws.
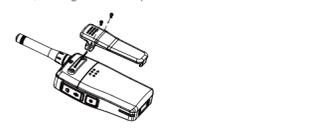
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### Accessory Installation
1. Open the accessory connector cover.

2. Align the plug of the accessory (matching headset or programming cable) with the accessory connector.

3. Insert the plug of the accessory properly into the accessory connector.
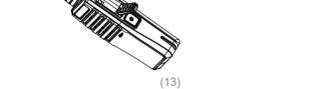
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### Charging Function
1. This product can support both radio charging and battery pack charging.
2. When charging base is used for charging, the indicator is red during charging and changes to green after full charging.

(I) Radio Charging     (II) Battery Pack Charging

### Charging Precautions:
• Please use the matching charging base of the model for charging.
• When charging the device, it is recommended to turn off the radio first.
• To obtain the best battery performance, please charge for at least 5 hours for the first time.
• Do not charge the battery pack for a long time, otherwise

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it will shorten the battery pack life. When the battery is fully charged, please stop charging in time.
• The charger can only be used to charge the battery pack of the product. Do not use it to charge other battery packs, otherwise the charger and battery pack may be damaged.
• The battery pack should be stored in a cool and dry place after being fully charged. Do not expose the battery pack near the fire or to the sun, otherwise there are safety risks.
• During charging, it is not recommended to transmit the radio.
• The battery pack may slightly heat up during charging, which is a normal phenomenon.

### POWER ON/OFF

To turn on radio, press and hold [Power] key 2 seconds, radio will voice prompt the current channel number and battery power. To turn off radio, press and hold the [Power] key to turn off the radio and prompt tone will be sounded.

### BATTERY CHECK

Press the [Power] key to check current channel number and battery level status.

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### VOLUME CONTROL

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

### TRANSMITTING/RECEIVING

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.

### PRECAUTIONS FOR RADIO OPERATION

• 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.
• Do not turn on/off the radio repeatedly during use, and adjust the volume to a level suitable for your hearing.
1. Before using the radio for communication, please set the transmitter and receiver to the same frequency point.

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2. For the analog channel that requires intercom, please set the transmitter and receiver to the same sub-audio frequency.
3. If encryption is enabled for the digital channel that requires intercom, please set the transmitter and receiver to the same password.
4. For the digital channel that requires intercom, please set the transmitter and receiver to the same color code.
5. Transmit/receive at high/low power (switch by P1/P2 key).
6. After inserting the headset, press the [PTT] key to transmit and receive speech through the headset.
7. Transmit with VOX headset after enabling VOX (turn on/off VOX through side key and insert the VOX headset).

### MENU SELECTION

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.
2. If the radio is not operated for 3 seconds or [PTT] key is pressed, it will exit the menu mode.

### CHANNEL SELECTION

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 prompt every time you select.

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### CHANNEL SCANNING

Press the [Menu] key twice to enter the channel scanning menu, then press the [+] key to start channel scanning, and the speaker will give a voice prompt "Scan". When a valid signal is scanned and received, press [+] key again to continue scanning. In scanning mode, press [-] key to exit the scanning function, and the speaker will give a voice prompt "Scan Off".
1. The scan list can contain analog channels, digital channels and relay channels*.
2. After configuring the scan list, the scan switch should be turned on.
3. The scanning can also be turn on/off through the [Program] key.
4. During scanning, the channels scanned include the channels in the scan list and the current main channel.
5. When any channel in the scan list is transmitting a signal, it will stay on that channel to receive signal.
* Support DMR system only.

### MONITORING MODE

1.Configure the [Program] key to monitoring function through programming software.
2.Analog channel: Press and hold the [Program] key to enter monitoring mode and release the key to exit the mode.

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## PROGRAM BUTTON

User can configure program button functions via programming software. Corresponding features as below:
- Scan On/Off
- High/Low Power Switch
- iVOX/VOX On/Off
- Monitoring Mode
- One Touch Call
- Emergency Alarm

### RADIO NAME CONFIGURATION AND MODIFICATION

1.Enter the basic setting interface of programming software to enter the device name with any 16 characters.
2.Radio name can support: Letters, numbers, Chinese, special characters, etc.

### RADIO ID

1.The radio ID is related to the private call contact, and the ID range is 1-16776415.
2.When using a private call contact to call the other party, enter the radio ID of the other party and then call.

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### SETTING NEW READ/WRITE PASSWORD

To further enhance privacy and security, user can configure password through programming software interface.
1. Set new read/write 8-digits password.
2. To change password, first input old password, press to confirm in order to unlock and input new password.
3. To remove password, leave it blank and press confirm.

### SETTING SUB-AUDIO FREQUENCY

1.The sub-audio frequency supports CTCSS, DCS positive code, DCS reverse code, standard sub-audio and non-standard sub-audio.
2.Only when the transmitting sub-audio and receiving sub-audio are the same can they talk to each other.
3.A radio with sub-audio cannot receive radio without, but cannot receive signal without sub-audio.

### CHANNEL SPACING

1.There are two types of channel spacing: 12.5K ,12.5 is narrow-band .
2.Radios with same frequency point and different channel spacing can talk to each other.

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### HIGH/LOW POWER SETTING

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.
1. Switch the current channel to "High/Low Power" by [Menu] key.
2. When switching between high and low power, the voice prompt "High"/"Low".
3. Press the preset "High/Low Power" key to switch between high or Low Power.

### TOT FUNCTION

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 transmitting and the speaker will give a time-limit prompt tone. You can set the time out timer via programming software. By default is 60 seconds. When OFF is selected, user can transmit continuously.

### VOICE OPERATED TRANSMISSION (VOX)

Transmission is initiated by speaking into the microphone of the radio instead of pushing the PTT button.
VOX feature is pre-programmed on 'Program' button. Short

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press to on/off VOX feature. VOX levels can be preset through programming software. When the radio VOX function is on, the preset VOX level is used.
- L3=High Sensitivity
- L2=Medium Sensitivity
- L1=Low Sensitivity

### DTMF FUNCTION

1. The DTMF interface of the programming software can configure the DTMF function, such as side tone, duration, interval time, online telegram code, offline telegram code, transmission start sound, transmission end sound, transmission start and end sound.
2. After the transmitter turns on the side tone, when the [PTT] key is pressed to transmit, the transmitter itself will also give DTMF sound.

### EMERGENCY CALL

1. Configure functions of the emergency call through programming software, such as alarm channel, re-transmission times, and tone type.
2. Emergency call supports the digital channel and analog channel.
3. Set the side button as the"Emergency Call" button in the "programmable button".
4. When Analog or Digital channel triggers emergency call, an emergency call code will be sent. Emergency call will be automatically transmitted after remaining

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re-transmit call becomes 0, and automatic emergency calls will repeat transmit twice.
5. The transmitter will sound the alert tone after the emergency call is sent. Receiver side also will receive an alert tone after receiving the emergency call.

### DIGITAL ENCRYPTION

1. Add key through programming software, which only supports basic encryption, maximum 8 characters.
2. Supported characters include: numbers, uppercase letters, lowercase letters.
3. The same encryption template must be configured for transmitter and receiver for normal intercom, otherwise the speech content cannot be heard clearly.
4. The main purpose is to prevent the content of the speech from being monitored by other people at the same frequency.

### COLOR CODE

1. For digital channels, the color code must be same to call.
2. The color code range of this product can be set: 0-15.

### CONTACTS

1. Contacts are only valid for digital channels.
2. There are three kinds of contacts: private call, group call and all call, which need to be configured through the programming software.

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### CALL PROMPT (PRIVATE CALL ONLY)

1. Configure one touch call through programming software for private call contacts.
2. After writing to the radio, press the side key to trigger the call prompt.
3. After the transmitter triggers the call prompt, the receiver's red indicator will flash.

### ONE TOUCH CALL (PRIVATE CALL ONLY)

1. Configure one touch call through programming software.
2. After writing to the radio, press the side key to trigger the one touch call.
3. The transmitter's red indicator stays on for a few seconds, and then press the [PTT] key to transmit.
4. The receiver's green indicator stays on for a few seconds, and then it can receive normally.

### REMOTE MONITOR (PRIVATE CALL ONLY)

1. Configure one touch call through programming software to select remote monitor.
2. Press the preset side key to monitor the other party remotely.
3. After successful monitoring, the green indicator will always be on, and the sound around the other party can be clearly monitored.
4. Remote monitoring time can be set to 10s-120s.

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### SQUELCH LEVEL (SQ)

1. SQ is only valid for analog channels.
2. SQ ca be configured through programming software.
3. Selection options: Squelch Open, Squelch Normal and Squelch Tight.

### TAIL TONE ELIMINATION

1. Only valid for analog channels.
2. When the tail tone elimination function is enabled, the receiver will not have tail tone after the transmission is completed; otherwise, there will be tail tone.
3. You can set the tail tone type via programming software.

### POWER SAVING FUNCTION

To extend battery life, the user can enable power saving mode. When the power saving function is enabled, if no valid signal is received or no key operation is performed within 5 seconds, the radio will automatically enter the power saving mode. In the power saving mode, the user can press [PTT] key to transmit or the radio can receive normally when an intercom signal is detected. The power saving function can be enabled/disabled by programming software.

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### LOW BATTERY ALERT

When the battery is low, the radio will prompt "Please charge" once (every 20 seconds) and the red LED indicator will flash quickly. At this time, the radio cannot transmit and stays in standby and receiving modes only. Please replace with a new battery or charge the battery.

### LANGUAGE SETTINGS

1. Language supports: Chinese and English.
2. Language can be set by programming software.
3. The radio voice announcement is defaulted to English

### OPTIONAL ACCESSORIES

The main accessories of the Radio are included in the product packaging box. For more information about accessories, please consult your local dealer.
Note: Please use the accessories specified by our company. If you use unauthorized accessories, you shall be responsible for all the consequences.

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### DISCLAIMER

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.

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