

DEWALT®

TWO-WAY RADIO MODEL

DXFRS300

Owner's Manual



DEWALT

DXFRS300
Owner's Manual

Printed in China
Part No. KEM-ML42500-01
English

Before operating the radio, please read all safety and operating instructions. Save all instructions in a safe place for future reference.

WARNING: Important Safety Instructions

1. Only accessories included in this package or specified by the manufacturer should be used with the radio. The 5V micro-USB charging input is compatible with most high quality micro-USB chargers that fully conform to the USB standards.
2. Do not use cleaners or solvents to clean the exterior of the radio. Use only a damp or dry cloth.
3. Do not attempt to service the radio yourself. Removing the cover will void the warranty. Changes or modifications not expressly approved by DeWALT may void the user's authority granted by the FCC to operate this device and should not be made.
4. Do not plug the wall adaptor into the power outlet if the outlet is wet.
5. Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

WARNING: Important Safety Instructions for Battery **Read All Instructions**

- Do not incinerate the battery even if it is severely damaged or is completely worn out.
- Do not discard battery in a fire. The battery pack can explode in a fire.
- Do not replace battery in any area labeled "Hazardous Atmosphere". Any sparks created in a potentially explosive atmosphere can cause an explosion or fire.
- Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.
- Do not dry a wet or damp battery with an appliance or heat source, such as a hair dryer or microwave oven.
- A small leakage of liquid from the battery cells may occur under extreme usage or temperature conditions. This does not indicate a failure. Do not open, deform or mutilate the battery as there may be corrosive materials which can cause damage to eyes or skin and may be toxic if swallowed.

However, if the outer seal is broken and this leakage gets on your skin:

- a. Wash quickly with soap and water.
- b. Neutralize with a mild acid such as lemon juice or vinegar.
- c. If battery liquid gets into your eyes, flush them with clean water for a minimum of 10 minutes and seek immediate medical attention.

This product uses Lithium Polymer Battery. Do not transport package if damaged, a fire hazard could exist.

For more information, please call our customer support line at **(866) 208-1654**, or email us at **DeWALT.COM**.

Recycle Battery

Local, state or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.



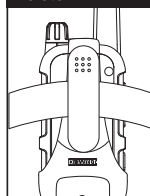
Introduction

Making Life Easier and Safer

Staying in touch is convenient and easy when using your radio. Some of the many uses you will discover include:

Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions; connecting with neighbors; arranging meeting spots with others while shopping at the mall, talking with your colleagues in warehouse or jobsite.

Holster



Secure your radio while on the go.

Carrying your radio with you is easy when using the holster.

The holster easily attaches to your belt, purse, or backpack.



Customer Assistance

Product Service & Support

For any questions about operating this new DeWALT branded product, PLEASE CONTACT US FIRST... do not return this product to the retail store. The contact information for support will vary depending on the country in which you purchased and utilize the product.

To obtain warranty service or other information for products purchased from Altis itself or through its authorized reseller or agent and utilized in the U.S.A., please call our consumer support line at **(866) 208-1654**, or email us at **DeWALT.COM**. You will receive instructions on how to ship the products at your expense to an our Authorized Service Center. To obtain service, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; and, most importantly; (c) your address and telephone number.

For further information needed on its features, please visit **DeWALT.COM** for frequently asked questions and the electronic manual.

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Operational Cautions

Exposure to high volume sound levels may cause temporary or permanent damage to your hearing. Although there is no single volume setting that is appropriate for everyone, you should always use your radio with the volume set at low level and avoid prolonged exposure to high volume sound levels.

1. Set the volume control in a low position and use as low a volume as possible.
2. Avoid turning up the volume to block out noisy surroundings. Whenever possible, use your radio in a quiet environment with low background noise.
3. Limit the amount of time you use headsets or earpiece at high volume levels.
4. When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear.
5. Observe all signs and instructions that require an electrical device or RF radio product to be switched off in designated areas, such as gas/refueling stations, hospitals, blasting areas, potentially explosive atmospheres, or aircraft.
6. If you experience a skin irritation after using this product, discontinue use and seek medical attention.
7. If the product or charger: overheats; has a damaged cord or plug; has been dropped or damaged; has been dropped into water, disconnect any charger from its power supply, discontinue use of the product.

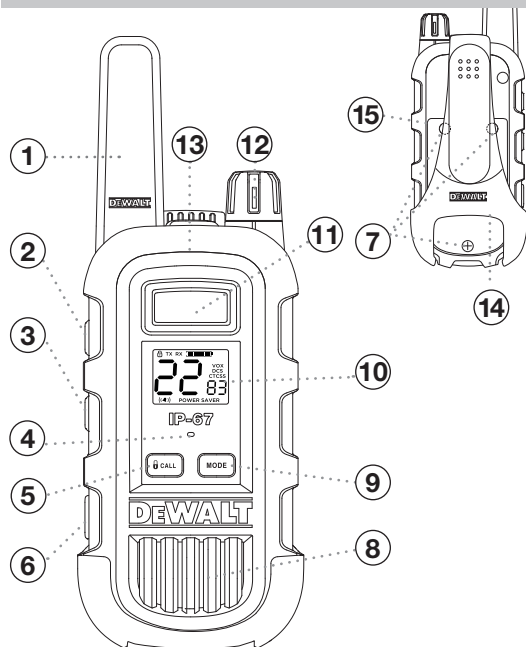
Electromagnetic Interference

Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility. Turn off your radio in any facility where posted notices instruct you to do so. These facilities may include hospitals or health care facilities that may be using equipment that is sensitive to external RF energy.

- When instructed to do so, turn off your radios when on board an aircraft. Any use of a RF device must be in accordance with applicable laws, regulations and airline crew instructions.
- Some radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer or physician to discuss alternatives.
- If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your doctor or physician may be able to assist you in obtaining this information.

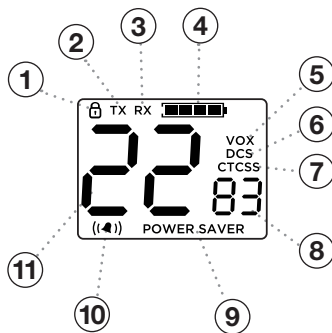


Product Features



- | | |
|----------------------------|--|
| 1. Antenna | 9. Mode Button |
| 2. Up Button | 10. Backlit LCD Display |
| 3. Down Button | 11. Talk Button |
| 4. Microphone | 12. Power On/Off/Volume Knob |
| 5. Call/Lock Button | 13. External Speaker / Microphone Jack |
| 6. USB Charge Jack | 14. Holster with 360° Swivel Clip |
| 7. Battery Door Screws | 15. Battery compartment |
| 8. Speaker | |

Backlit LCD Display



Features

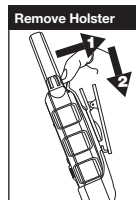
- 22 Channels
- 121 Privacy Codes
(38 CTCSS codes/
83 DCS codes)
- IP67 Water Proof and
Dust Proof Rating
- Hands-Free Operation
(VOX)
- Backlit LCD Display
- Call Alert
- Button Lock
- Speaker/ Microphone/
Charge Jack
- Roger Beep
- Battery/Power Saver
- Keystroke Tones
- Battery Level
Indicator
- Low Battery
Audible Alert
- Auto Squelch
- Holster

1. Lock Icon
2. Transmit Icon
3. Receive Icon
4. Battery Level Indicator
5. VOX Icon
6. DCS Icon
7. CTCSS Icon
8. DCS / CTCSS Privacy
Code Numbers
9. Power Saver Icon
10. Vibra Alert Icon
11. Channel Numbers

Caring for Your Radio

Your radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

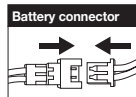
Installing Batteries



1. Remove Holster by releasing the belt clip latch and slide the holster downward.



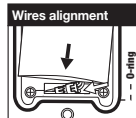
2. Unscrew 3 screws at battery door with a proper screwdriver, then open the battery compartment cover. Connect the battery connector in proper polarity.



3. Place the battery inside battery compartment and align the wires as shown.

Ensure the battery connector with cables are tucked into the hole located at bottom.

(Note: Wires are required to be tucked into the battery compartment completely and carefully. If any object interfere the O-ring, its sealing performance will be affected.)



4. Place the battery compartment cover, screw down the screws mildly.

(Screw nuts may be damaged if overtighten)

5. Re-attach the holster

To charge batteries in radio:

1. Check to see that the batteries have been inserted properly.
2. Insert the cable into the charge jack located at the left side of the radio.
3. Plug the cable into USB-compatible power port.

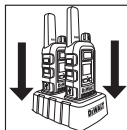
Only use the supplied rechargeable batteries and desktop charger for recharging your DeWALT radio.

DeWALT recommends your radio is turned off while being charged.



Operation

Using Your Radio



For charging radio(s) in desktop charger:

1. Insert radio(s) into desktop charger as shown.
2. Insert the micro-USB cable into jack on back of charger.
3. Plug the cable into USB compatible power port. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

If charging light is not **on**, check position of radio. Radio should be upright. The charge indicator light will stay **on** as long as the radio is in the charging mode, and the light will go **off** when charging is complete.

Note: To charge a single radio, you can bypass the desktop charger and simply insert the micro-USB's connector directly into the charge jack located on the left side of the radio.

The radio will display flashing battery icon while charging.

DeWALT recommends your radio be turned **off** while being charged.



Quick Start

1. Turn On/Off VOL Knob clockwise to turn the radio on and counter clockwise to turn the radio off.
2. Select a desired channel.

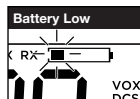
Both radios must be tuned to the same channel/privacy code to communicate.
3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

Turning on Your Radio

Turn  clockwise to turn the radio on and counterclockwise to turn the radio off.

1. In the ON position, the radio chirps and briefly shows all feature icons available on the radio.
2. The display screen then shows the current channel, code and all features that are enabled.

Battery Low

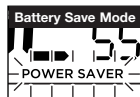


When battery power is low, the final bar in the **Battery Low** icon will blink and an audible tone will sound twice before the radio shuts off. Your batteries need to be recharged.



The radio will display flashing battery icon while charging if the radio is on.

Auto Battery Save



If there are no transmissions within 10 seconds, the radio will automatically switch to **Battery Save** mode and the **Power Saver** icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

Communicating with Another Person

Talk Button



Two Inches from Mouth



1. Press and hold the **Talk** button.
2. Position the microphone about two inches (5 cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.

You cannot receive incoming calls while pressing the **Talk** button.



Both radios must be tuned to the same channel and privacy code to communicate.



This radio is equipped with **default Privacy Code on each channel** for minimizing unwanted signals from others. See page 9 to 10 for procedures changing your radio from default Privacy Code to a different Privacy Code or disabling Privacy Code.

To Select a Channel

Up & Down Button



Press **Mode** button once, then press **Up** button or **Down** button.



Both radios must be tuned to the same channel to communicate.

Channel Number



See **page 13** for frequency allocations charts.

Listening for a Response

Listening



Release the **Talk** button to receive incoming transmissions. Your radio is always in **Standby** mode while the **Talk** or **Call** buttons are not pressed.

To Adjust Volume

1. Rotate  clockwise to increase the volume.
2. Rotate  counterclockwise to decrease the volume.

Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear.

Call Button

Call Button



Press and release the **Call/Lock** button.

The other person will hear a three second call tone. This tone is used only to establish voice communications.

Lock Function

Lock Button



The **Lock** function locks the **Up**, **Down** and **Mode** buttons to prevent accidental operation.

To turn the lock on or off:

– Press and hold the **Call/Lock** button for two seconds.

Lock Icon



A double beep sound is used to confirm your lock **enabled**. When in **Lock** mode, the **Lock** icon will be displayed also.

Range

Maximum Range



Your range will vary depending on terrain and conditions.

In flat, open country your radio will operate at maximum range.

Reduced Range



Buildings and foliage in the path of the signal can reduce the range of the radio.

Reduced Range



Dense foliage and hilly terrain will further reduce the range of the radio.

On Channels 8 through 14, your radio automatically switches to low power, which will limit the range the radio can communicate.

Auto Squelch

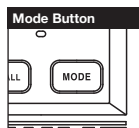
Your radio will automatically shut **off** weak transmissions and unwanted noise due to terrain, conditions limit.



Mode Functions

Scrolling Through the Mode Function

By scrolling through the **Mode** function, you will be able to select or turn **on** preferred features of your radio. When scrolling through the **Mode** function, your radio features will be displayed in the same predetermined order:



Channel	22 channels with default privacy code
↓	
VOX on/off	On or off shown on LCD
↓	
VOX sensitivity	5 levels
↓	
Vibra Alert selection	0:Off, 1:Enable
↓	
CTCSS code setting	38 codes for setting
↓	
DCS code setting	83 codes for setting

Privacy Codes

Your radio incorporates two advanced coded squelch systems that can help to reduce interference from other users on any given channel. CTCSS (Continuous Tone Coded Squelch System) provides 38 privacy codes and DCS (Digitally Coded Squelch) provides 83 privacy codes. This provides a total of 121 **Privacy Codes**. Either system can be used on all channels, but both systems cannot be used on the same channel at the same time.

For ease of use and reduce interference from other users, the 22 channels of your radio has been customized, see **Channel and Default Privacy Code Table**.

Channel and Default Privacy Code Table

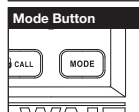
Channel	Privacy Code	
	Type	Number
1	CTCSS	1
2	CTCSS	11
3	CTCSS	22
4	CTCSS	33
5	DCS	1
6	DCS	11
7	DCS	22
8	DCS	33
9	DCS	44
10	DCS	55
11	DCS	66

Channel	Privacy Code	
	Type	Number
12	DCS	77
13	CTCSS	1
14	CTCSS	11
15	CTCSS	22
16	CTCSS	33
17	DCS	1
18	DCS	11
19	DCS	22
20	DCS	33
21	DCS	44
22	DCS	55



You can change your radio to a different Privacy Codes for working with other radio with different privacy code or without privacy code. See page 9 and 10 for procedures.

Set CTCSS Privacy Codes

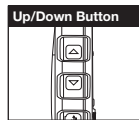


To select a CTCSS privacy code:

1. After selecting a channel, press the **Mode** button until the **CTCSS** icon appears and the small numbers next to the channel number flash on the display.



If DCS is turned on at the channel selected, the display will flash the CTCSS icon and "OFF." To switch from DCS to CTCSS, press the **Up** or **Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

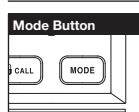


2. Press using the **Up** or **Down** button to select a privacy code. You can hold the **Up** or **Down** button for fast advance.

3. When your desired CTCSS privacy code is displayed, choose one of the following:

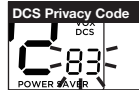
- a. Press the **Mode** button to enter the new setting and proceed to other functions.
- b. Press the **Talk** button to return to **Standby** mode.
- c. Do not press any buttons for 6 seconds to return to **Standby** mode.

Set DCS Privacy Codes



To select a DCS privacy code:

1. After selecting a channel, press the **Mode** button until the **DCS** icon appears and the small numbers flash on the display (00 through 83).



If CTCSS is turned **on** at the channel selected, the display will flash the DCS icon and "OFF." To switch from CTCSS to DCS, press the **Up** or **Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.



2. Press using the **Up** or **Down** button to select a DCS privacy code. You can hold the **Up** or **Down** button for fast advance.

3. When DCS privacy code is displayed, choose one of the following:

- a. Press the **Mode** button to enter the new setting and proceed to other functions.
- b. Press the **Talk** button to return to **Standby** mode.
- c. Do not press any buttons for 6 seconds to enter the new settings and to return to **Standby** mode.



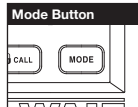
To successfully communicate using a privacy code, both the sending and receiving radios must be tuned to the same channel and to the same privacy code system (CTCSS or DCS) and privacy code number. Each channel will remember the last privacy code system and number you select.



The privacy code 00 is not a privacy code, but allows all signals to be heard on a channel that is set to 00 on both the CTCSS and DCS systems.

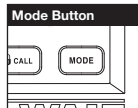
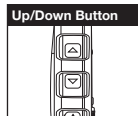
Voice Activated Transmit (VOX)

In **VOX** mode, your radio can be used “hands-free,” automatically transmitting when you speak. You can set the **VOX** sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.



To turn **VOX** mode on or off:

1. Press the **Mode** button until the **VOX** icon shown on the display. The current **On** or **Off** setting is displayed.
2. Press the **Up** or **Down** button to turn **VOX On** or **Off**.
3. Choose one of the following:
 - a. Press the **Mode** button to enter the new setting and proceed to other functions.
 - b. Press the **Talk** button to return to **Standby** mode.

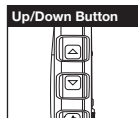


To set **VOX** sensitivity:

1. Press the **Mode** button until the **VOX** icon flashes and the current sensitivity level is displayed.



The current **VOX** sensitivity level is displayed with letters “L” and a Number 1 through 5, with Number 5 being the most sensitive level and Number 1 being the least sensitive level.



2. Press the **Up** or **Down** button to change the setting.
3. Choose one of the following:
 - a. Press the **Mode** button to enter the new setting and proceed to other functions.
 - b. Press the **Talk** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

Vibra Alert and Call Alert

Your radio can alert you to incoming signals by sounding an audible call tone or an audible tone with Vibra Alert.

To change call settings:

1. Press the **Mode** button until the **Call Setting** icon is shown on the display. The current setting (“0” ring only, “1” vibrate + ring) is displayed.
2. Press the **Up** or **Down** button to change the call setting.
3. Choose one of the following:
 - a. Press the **Mode** button to enter the new setting and proceed to other functions.
 - b. Press **Talk** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.



Note: Vibra Alert will be suspended during charging

Roger Beep Confirmation Tone

Your listener will hear an audible tone when you release the **Talk** button. This alerts the other party that you have finished talking and it is OK for them to speak.

Key Tone

Key Tone is an audible tone which will sound each time a button is pressed.



Operation

General Specifications

Frequency Allocation and Compatibility

A = Channel No. for 22 Channel Models

B = Frequency in MHz

C = Power Output

A	B	C
1	462.5625	High
2	462.5875	High
3	462.6125	High
4	462.6375	High
5	462.6625	High
6	462.6875	High
7	462.7125	High
8	467.5625	Low
9	467.5875	Low
10	467.6125	Low
11	467.6375	Low
12	467.6625	Low
13	467.6875	Low
14	467.7125	Low
15	462.5500	High
16	462.5750	High
17	462.6000	High
18	462.6250	High
19	462.6500	High
20	462.6750	High
21	462.7000	High
22	462.7250	High

IMPORTANT NOTICE:

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.

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.

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 interference will not occur in a particular installation. 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.

Safety Information for Radios

Your wireless handheld portable transceiver contains a low power transmitter. When the talk button is pushed, it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless devices

Important

FCC/ISED RF Exposure Requirements: For body-worn operation, this radio has been tested and meets the FCC/ISED RF exposure guidelines when used with DeWALT accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC/ISED RF exposure guidelines. Use only the supplied antenna. Unauthorized antennas, modifications or attachments could damage the transmitter and may violate FCC/ISED regulations.

Normal Position

Hold the transmitter approximately 25 mm from your face and speak in a normal voice, with the antenna pointed up and away.

ISED WARNING

This device complies with ISED license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

The applicant is responsible for providing proper instructions to the user of the radio device, and any usage restrictions, including limits of exposure durations. The user manual shall provide installation and operation instructions, as well as any special usage conditions, to ensure compliance with SAR and/or RF field strength limits. For instance, compliance distance shall be clearly stated in the user manual.

Cet appareil est conforme aux normes RSS exemptes de licence ISED. Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris les interférences pouvant entraîner un fonctionnement indésirable de l'appareil. En vertu des réglementations ISED, cet émetteur radio ne peut fonctionner qu'avec une antenne d'un type et un gain maximal (ou inférieur) approuvé pour l'émetteur par l'ISED. Pour réduire les interférences radio potentielles avec d'autres utilisateurs, le type d'antenne et son gain doivent être choisis de manière à ce que la puissance isotrope rayonnée équivalente (e.i.r.p.) ne soit pas supérieure à celle nécessaire à une communication réussie.

Le demandeur est responsable de fournir des instructions appropriées à l'utilisateur du dispositif radio et de toute restriction d'utilisation, y compris les limites de la durée d'exposition. Le manuel de l'utilisateur doit fournir des instructions d'installation et d'utilisation, ainsi que des conditions d'utilisation spéciales, pour assurer la conformité avec les limites de champ de SAR et / ou RF. Par exemple, la distance de conformité doit être clairement indiquée dans le manuel d'utilisation.

Important:

Exigences de la FCC/ISED concernant l'exposition aux champs électro-magnétiques RF (radiofréquences): En ce qui concerne le fonctionnement de l'appareil porté sur le corps de l'utilisateur, les tests effectués ont permis de vérifier que cet émetteur-récepteur satisfait aux directives FCC/ISED limitant l'exposition aux champs électro-magnétiques RF lorsqu'il est utilisé avec les accessoires Cobra fournis ou conçus pour ce produit; l'utilisation d'autres accessoires peut ne pas garantir le respect des critères des directives FCC/ISED limitant l'exposition aux champs électro-magnétiques RF. Utiliser l'appareil uniquement avec l'antenne fournie. L'emploi d'une antenne non homologuée ou modifiée, ou d'accessoires non autorisés, pourrait faire subir des dommages à l'appareil, et peut violer les prescriptions de la réglementation FCC/ISED.

Position normale:

Tenir l'émetteur à environ 25 mm de la bouche et parler normalement, l'antenne étant éloignée et dirigée vers le haut.



Warranty & Trademark Acknowledgment

Limited Lifetime Warranty on Radio

Altis Global Limited warrants to the original consumer purchaser only that this product and the component parts thereof, will be free from defects in workmanship and materials. Altis will, repair or replace, at its sole option and discretion, this product or any defective parts. Altis' liability hereunder shall be limited to repair or replacement of the defective part or parts, and such correction shall constitute a fulfillment of all of Altis' warranties hereunder.

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Provided that the product was purchased from Altis itself or through its authorized reseller or agent and utilized in the U.S.A., Altis will, without charge, repair or replace, at its option, defective products, products or component parts upon delivery to the authorized Altis Global Limited Authorized Service Center, accompanied by proof of the date of first customer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges, to an address in the U.S.A., will be at Altis' expense, if the product is under warranty.

For Products Purchased Outside the U.S.A.

Please contact your authorized local reseller or agent for warranty information.

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Notes

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