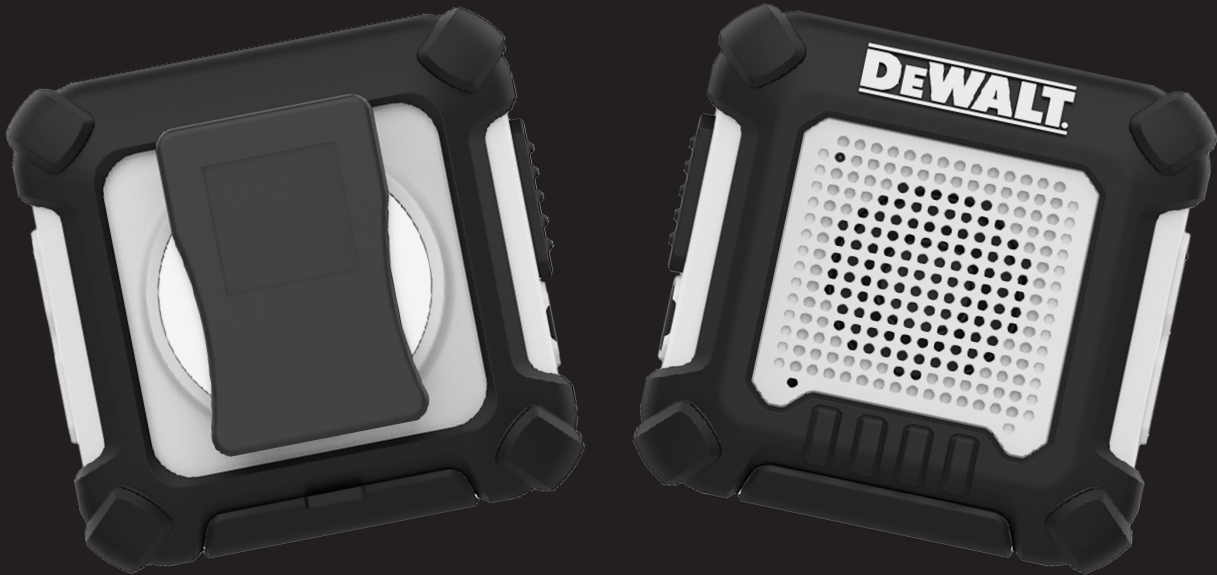


# DEWALT®

TWO-WAY RADIO MODEL

## DXFRS220

Owner's Manual



**DEWALT**

DXFRS220  
Owner's Manual

Printed in China  
Part No. KEM-ML41402  
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.

### **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**.

#### **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.



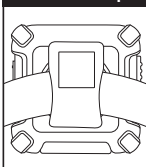
## Introduction

### 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.

#### Swivel belt clip



#### **Secure your radio while on the go.**

Carrying your radio with you is easy when using the swivel belt clip.

The swivel belt clip 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**. 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

**CAUTION:** 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.

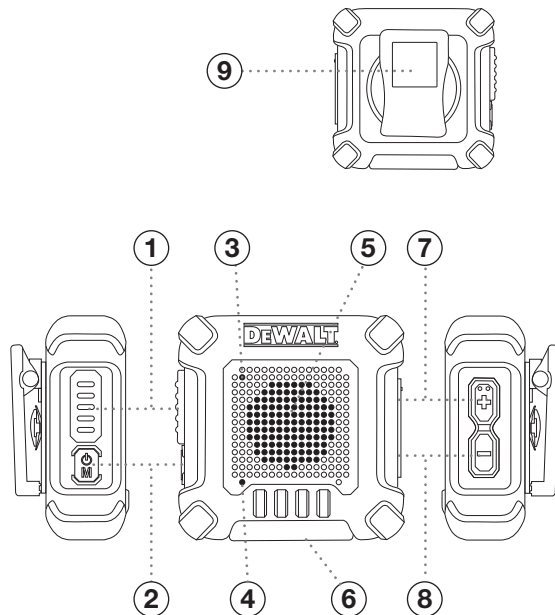
## Electromagnetic Interference

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. **Talk Button**
2. **Power / Menu Button**
3. **LED Indicator**
4. **Built-In Microphone**
5. **Built-In Speaker**

6. **Micro USB Charge / Audio Jack**
7. **Volume / Channel (+) Button**
8. **Volume / Channel (-) Button**
9. **Swivel Belt Clip**

## 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.

## Battery Information

The battery is not charged before delivery, so please charge the battery for your first use. If the battery is not used for a long time or the battery is used up, please charge it before use. Charge / discharge for twice or three times alternately to achieve its optimal performance.

Note:

- Do not cause any short circuit on the battery or throw the battery into fire.
- When charging, please make sure the radio is powered off to guarantee it can be fully charged.
- Unplug the charging cable after it is fully charged. Unnecessary constant charging will shorten the battery life.
- Do not put the fully-charged battery to re-charge, or it may shorten the battery life.
- Please try to keep the battery in an indoor environment at around 25°C. The battery may get easily spoiled after being kept in the environment below -10°C for a long time.
- In temperatures higher than 35°C or below -10°C, the dischargeable power of the battery may decrease due to the physical property of lithium battery.



## Operation

### Using Your Radio

#### For charging radio(s):

1. Insert the micro-USB cable into jack located at the bottom of radios.
2. Plug the cable into USB compatible power port.
3. It will take around 5 hours for a full charge.

#### 4. LED indicator

Power Off the Device during charging	
Battery Charging	Solid Red (No flash)
Battery Charged	Solid Green (No flash)

DEWALT recommends your radio be turned off while being charged.



#### Quick Start

1. Press and hold **Power/Menu** button for 4 seconds to turn the radio on or 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.

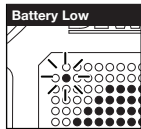
## Turning on Your Radio

Press and hold **Power/Menu** button for 4 seconds to turn the radio on or off.

When green LED flashes every 5 seconds, your radio is now in **Standby** mode, ready to receive transmissions.

The radio is always in **Standby** mode except when the **Talk** or **Power/Menu** buttons are pressed.

## Battery Low

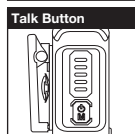


Red LED flashes every 5 seconds. Voice prompt “**Please charge**” will be heard approximately 30 minutes before device automatically powers off.

## Auto Battery Save

If there are no transmissions within 10 seconds, the radio will automatically switch to **Battery Save** mode. This will not affect the radio’s ability to receive incoming transmissions.

## Communicating with Another Person



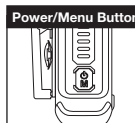
1. Press and hold the **Talk** button.
2. Position the microphone about 6 inches from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.

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



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

## To Select a Channel



To change the channel, press **Power / Menu** button once, the current channel number prompted. Then, press the **+** or **-** buttons to select your channel, and you can:

1. Fast press to skip voice prompting of every channel number
2. Press and hold for fast skipping



It will exit the channel selection mode if there is no **+** or **-** button pressing for 5 sec. Or simply press **Power / Menu** button or **Talk** button once to return to standby mode immediately.

## Listening for a Response

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

## To Adjust Volume

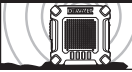


Press the **+** or **-** button to increase or decrease the volume. There are 12 different volume levels.

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

## Range

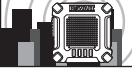
### Maximum Range



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.

## Call Alert

Your radio can alert you to incoming signals by sounding an audible call tone.

## 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.

## LED indicator

When you press and hold <b>Talk</b> button	Green LED on
Standby Mode	Green LED flashes every 5 seconds
Battery Low	Red LED flashes every 5 seconds
Power Off the Device during charging	
Battery Charging	Solid Red (No flash)
Battery Charged	Solid Green (No flash)



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

### Normal Position

Hold the transmitter approximately 2 inches from your face and speak in a normal voice, with the antenna pointed up and away.

### FCC Part 15.21 Warning Statement-

**NOTE:** 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.

### IC RSS-GEN

This device complies with ICSED 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 ICSED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ICSED. 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.

### Radiation Exposure Statement:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Remote controller, SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value.

Before a new model device is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC/ISED. Tests for each device are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC/ISED.

For body worn operation, this model device has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that Contains no metal and that positions the handset a minimum of 10 mm from the body.

Non-compliance with the above restrictions may result in violation of RF exposure guidelines.



### MODEL DXFRS220:

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.

FCC Warnings: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by DeWALT may cause a violation of the technical regulations of part 95 of the FCC rules, or violation of type acceptance requirements of part 2 of the rules.



## 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.

This limited lifetime warranty is only valid for the original consumer purchaser in limited jurisdictions and is not transferable. This limited lifetime warranty will automatically terminate if this product is sold or otherwise transferred to another party. The product must be purchased from Altis or an authorized dealer or the warranty is void. This limited lifetime warranty is valid only for products purchased and utilized in specific jurisdictions. Please visit our website at **DeWALT.COM** for a list of jurisdictions wherein this lifetime limited warranty is valid.

This limited lifetime warranty does not apply to accessories and consumables and does not cover damage due to misuse, abuse, negligence, acts of God, accident, commercial use or modification of, or to any part of this product. The limited lifetime warranty does not include battery, battery warranty is 180 days from original purchase date; after initial 180 days, owner can return the Radio (at owner's expense) to Altis for review and can purchase a new battery if necessary. This warranty does not cover damage due to improper operation, maintenance or installation; ordinary wear and tear; or attempted alterations or repairs by anyone other than Altis or someone authorized by Altis to do warranty work. Any unauthorized alterations or repairs will void this warranty. This limited lifetime warranty does not cover product sold AS IS or WITH ALL FAULTS. This limited lifetime warranty is invalid if the factory applied serial number or date stamp has been altered, defaced or removed from this product. This limited lifetime warranty does not cover product purchased or utilized in a jurisdiction not covered.

The procedure for obtaining service and support, and the applicability of this warranty, will vary depending on the country or jurisdiction in which you purchase and utilize the product. For details on obtaining product service, support and other warranty information please visit **DeWALT.COM**.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

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Some states and countries do not allow limitations on how long an implied warranty lasts and do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

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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