

**Optitec Wireless Remote  
Control Wheel  
V3**

**Operator  
Manual**



## Wireless Remote Control Wheel



1. Raise-lower handle
2. Main support shaft
3. Shaft to Clamp Locating Lug
4. Outer Shaft Locating Strip
5. Shaft rotation Locking Keyway Slot
6. Inner shaft rotation Locking Key
7. Anderson plug
8. Motor gearbox drive
9. Wheel and tyre
10. Shaft Keyway Locating Ring
11. Clamp
12. Clamp opening
13. Clamp Hinge
14. Padlocking Security Lug

## Wireless Remote Control Unit



1. Aerial
2. Power "On" button
3. Button Press LED
4. Forward button
5. Reverse button
6. Left Turn button
7. Right Turn button
8. Battery (9 volt) compartment
9. Power "Off" button

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### 1. Product description

**Optitec Wireless Remote Control Wheel** is designed to **replace** and **upgrade** the traditional jockey wheel, or **complement** a permanent folding jockey wheel for caravans, boat trailers or heavy trailers. This device enables users to manoeuvre their caravans, boat trailers and heavy trailers as easily as possible via remote control.

**Optitec Wireless Remote Control Wheel** utilises a powerful motor to drive the Wheel in all directions on a hard, level, even surface at an approximate speed of 8 metres per minute with safe manoeuvring of caravans or trailers up to 3,500kg. Power is supplied from either a 12V DC auxiliary battery, the vehicle, or caravan or boat in-built supply.

**Optitec Wireless Remote Control Wheel** has the capacity to traverse an incline, the degree of which depends on the trailer weight, available surface traction and other safety factors. \*Caution must be used whenever operating in the vicinity of sloped or uneven surfaces (\*see all Safety warnings in this manual).

**Optitec Wireless Remote Control Wheel** with height adjustment of 250mm is easy to clamp onto the chassis of caravan or trailer and locked as a normal support stand when caravan or trailer is parked. A heavy duty or double clamp must be used when fitted to any trailer over 1500kg to ensure adequate stability.

**Optitec Wireless Remote Control Wheel** supports a loaded weight of 350kg. It is extremely portable with total weight of 22kg. The size of the 'Wheel' is 326x220x760mm and utilizing the Trolley Carry Bag (sold separately) can be easily packed in a car to travel.

**Optitec Wireless Remote Control Wheel** handheld remote control unit can effectively operate the wheel within up to 50mt range. Symbols on the control show you the driving directions.

Power to **Optitec Wireless Remote Control Wheel** will automatically turn off followed by a long audible 'beep' if there is an over temperature or over-current fault. This function will protect the motor from risk of damage. Turn remote 'Off' then 'On' to reset.

**IMPORTANT NOTE:** It is very important that you read this manual carefully **BEFORE** proceeding with installation and operation. Please keep it handy at all times when using this device. If unsure about any operation or information provided, please obtain professional advice or contact us before using the device.

Throughout this manual you will see the following symbols used:



*This symbol is used to draw attention to critically important safety information. **You MUST follow these instructions.***













*This symbol is used to make the reader aware of important safety information. Make sure you read and understand these points.*



*This symbol is used to draw attention to suggestions and advice that will help make the installation and operation easier.*

## 2. Safety

1.  **Optitec Wireless Remote Control Wheel** is a 12V DC powered device. It should not be powered by other than a 12V power source under any circumstances.
2.  The 12V battery **MUST** be charged and in good condition to ensure **Optitec Wireless Remote Control Wheel** will operate to its full performance specification.
3.  If the caravan or trailer does not have its own hand-brake, the use of **Optitec Wireless Remote Control Wheel** is not recommended.
4.  Note: Although **Optitec Wireless Remote Control Wheel** locks when power is 'off', it is not to be used as a parking brake. The trailer braking system must always be used as the primary system.
5.  **Never** rely on **Optitec Wireless Remote Control Wheel** to provide the braking or stopping capability for the caravan or trailer.
6.  **Never** allow children or persons who have not read this manual and are not familiar with the use of this device to operate it. **Never** operate this device or allow others to operate it whilst under the influence of drugs or alcohol.
7.  Remove power supply as soon as the caravan or trailer is parked so that there is no risk of accidental operation.
8.  Never attempt to tow a caravan or trailer whilst **Optitec Wireless Remote Control Wheel** is still fitted and in contact with the ground. This will damage the unit.
9.  Always secure the Remote control unit from children or other unauthorized use. There is a Padlock Security Lug (#14) under the machine to protect from theft.
10.  The **Optitec Wireless Remote Control Wheel** should not be operated with the shaft wound 'up'. It should only be operated in the fully 'down' position to prevent damage to the support shaft components.

### 3. Installation

**Optitec Wireless Remote Control Wheel** is designed to mount as a traditional jockey wheel. See the following procedures and refer to the [photos and descriptions on Page 1](#).

1. Attach *Optitec Wireless Remote Control Wheel* to the caravan or trailer clamp/s at the *Shaft Locating Lug (#3)* position, aligning the *Locating Strip (#4)* with the Clamp Opening (#12) or Clamp Hinge (#13) to prevent the shaft rotating in the clamp when turning left or right, and fasten tightly.



**NEVER** allow the weight of the caravan/trailer to drop onto the Shaft Keyway Locating Ring (#10). It is designed to only guide the 'Key' into the 'Keyway'.

2. If your caravan or trailer does not have the standard clamp, attach the Accessory Clamp (supplied separately) to chassis with the bolts and nuts provided in the pack or alternately obtain a bracket suiting the clamp style of your caravan or trailer to mount *Optitec Wireless Remote Control Wheel*. A suitable Heavy Duty or Double Clamp must be used when fitting to trailers over 1500kg.



3. Use the *Raise-lower handle (#1)* to lift the front of the caravan or trailer. Ensure the Locking key (#6) aligns with the Slot (#5) and lower it to the bottom of travel prior to commencement of any Remote Control operation.

4. Insert Anderson plug from your caravan (or power cable supplied) into Anderson plug (#7) on *Optitec Wireless Remote Control Wheel*.









5. Connect battery leads: Red to positive (+) terminal of battery or jumpstart or outlet of caravan power supply. Connect Black to negative (-) terminal of battery or jumpstart or outlet of caravan power supply. **You should hear a "BEEP" from the machine - if not, power is not getting to the machine. (Supply must be capable of 50 Amps at 12 Volts).**



6. Before operating *Optitec Wireless Remote Control Wheel*, use the *Raise-lower handle (#1)* to lower it fully ensuring that the *Rotation locking key (#6)* aligns with the *Shaft rotation locking Keyway Slot (#5)* to lock the Main support shaft (#2) inner and outer. This will minimise the 'twisting' force at the clamp attachment point during operation.

## 4. Operations

-  Before commencing any operation of **Optitec Wireless Remote Control Wheel**, ensure that the caravan or trailer is on a level, even, firm surface and there is no risk of it moving towards a slope that could allow it to roll uncontrolled.
-  **Optitec Wireless Remote Control Wheel** although it may do so very well, is not specifically designed to move a caravan or trailer on sand, gravel, soft soil & grass, wet surfaces or rough, uneven ground. It is the responsibility of the Operator to determine individual situations and operational ability.
-  Sufficient down force must be applied to **Optitec Wireless Remote Control Wheel** to ensure adequate traction in order to move the caravan or trailer safely and accurately. Be aware of your caravan weight distribution characteristics.
- Release the caravan or trailer hand-brake prior to operation. Using **Optitec Wireless Remote Control Wheel** Remote Control Unit, turn 'on' power with button (#2). A '**Beep**' will sound. The caravan or trailer can now be moved by pressing the buttons on Remote Control Unit as indicated – forward (#4), backward (#5), left (#6) and right (#7). The **LED will light only whilst a button is pressed** and is not an indication of power to the machine. Power will automatically shut off after 15 minutes of inactivity.
-  Whilst moving the caravan or trailer, it is advisable to ensure the handbrake is easily accessible in case it is required. It is recommended that an observer assist with the operation to ensure there is no risk of collision with objects or danger to people during the movement. If an over-current situation occurs, the motor will stop and a continuous 'beep' will sound. Press the 'Off' button to reset the machine.
-  Use remote control with a quick momentary button press to check the operation and direction of wheel rotation to orientate the Forward and Reverse buttons with the expected direction of travel of the **Optitec Wireless Remote Control Wheel** before attempting to carry out full manoeuvring operation.
-  Once the caravan or trailer is parked in the desired position, **Optitec Wireless Remote Control Wheel** can be used in the same manner as a standard support wheel (see Safety Note), however it is recommended that it not be exposed to the weather for extended periods.
- Using remote control unit, turn 'off' power (#9) and disconnect the power supply as soon as the caravan or trailer is parked to avoid accidental operation.
- Apply the caravan or trailer parking brakes securely and use wheel chocks.



## 5. Quality Control

The main body of **Optitec Wireless Remote Control Wheel** is manufactured from high quality steel. The wheel is aluminium alloy and the solid tyre is made of durable rubber. The wireless frequency of the remote control unit is within the approved spectrum range covered by Australian Standards. Each machine is fully tested prior to packing.

## 6. Service

**Optitec Wireless Remote Control Wheel** must be serviced by a competent service person at least every two years to ensure it remains in perfect operating condition. It should also be visually inspected carefully prior to every use to ensure all components are secure and safe for operation.

## 7. Troubleshooting

If **Optitec Wireless Remote Control Wheel** is not working correctly, please check the following:

1. **Proper Installation:** Check connection between *Optitec Wireless Remote Control Wheel* and the caravan or trailer.
2. **Power Supply:** Check power supply source of *Optitec Wireless Remote Control Wheel* to ensure it is 12V DC and the battery is fully charged and it is capable of supplying 50 Amps. (**Note:** Some caravans don't allow supply from house battery back to Anderson plug).
3. **Power Connection:** Check the plug connection at *Optitec Wireless Remote Control Wheel* to ensure it has been fitted properly. Check that no wiring has pulled out of its connection points. Push the electrical plug securely into the socket on *Optitec Remote Controlled Wheel* and check that the positive (+) and negative (-) cables are correctly connected onto the terminals of battery or caravan or trailer power supply with correct polarity. You must hear a "**Beep**" when power connects.
4. **Wireless Remote Controller:** Check the 9V battery of the remote control handset to ensure it is fully charged. Ensure that the Red LED lights whilst any button is pressed. (**Note:** The LED will 'light' at only 5V so it's not an indication of the battery condition so ensure battery is the full 9V).

## 8. Packing components

1. 1 x *Optitec Wireless Remote Control Wheel* unit.
2. 2 x Connection leads, (Anderson to Anderson Plug, Alligator to Anderson Plug).
3. 1 x Wireless remote control handset.
4. 1 x Operator's Manual.

## 9. Specifications

- Motor capacity ..... 12V DC, 50 Amps (max)
- Operating Speed ..... 8 metres per minute (Approx.)
- Operating Duty ..... 35 minutes on level surface
- Weight ..... 22kg
- Dimensions ..... 326x220x760mm
- Incline Rating..... Dependant on trailer weight and traction
- Maximum trailer weight ..... Up to 3500kg
- Maximum loaded weight ..... Up to 350kg
- Remote Control Range ..... Up to 50 metres
- Remote Control Frequency ..... Complies with Aust Standards

## 10. Parts and Accessories

1. Additional or replacement handheld Wireless Remote Control Unit
2. Small dual clamp mounting bracket (for 100mm drawbar)
3. Medium dual clamp mounting bracket (for 130mm drawbar)
4. Large dual clamp mounting bracket (for 150mm drawbar)
5. Compact Dual Clamp brackets (100mm, 130mm, 150mm)
6. Extension and Adapter cables
7. Carry Bag Trolley to carry and store Optitec mover

***All spare parts and accessories are available from Optitec Pty Ltd.***

## 11. Warranty

This device is covered by 12 months parts warranty from date of purchase.

Proof of purchase receipt will be required if a warranty claim is made.

This Limited Warranty offered by Optitec Pty Limited covers defects in material or workmanship in the new Optitec Remote Control Caravan and Trailer Jockey Wheel. This warranty extends to the original purchaser only and is non-transferable.

- **What is Covered?**

Optitec Pty Limited warrants this product against defects in material or workmanship as follows:

Optitec Pty Limited will replace at no charge for parts only or, at its option, replace any product or part of the product that proves defective because of improper workmanship and/or material, under normal installation, use, service and maintenance. Optitec Pty Limited will warrant the above claims where the device is used for non-business applications.

- **What is Not Covered?**

Optitec Pty Limited will not cover any problem, damage or failure caused by:

A. Any abnormal use including water damage, excessive use such as business, commercial or industrial applications.

B. Conditions, malfunctions or damage not resulting from defects in material or workmanship.

C. Conditions, malfunctions or damage resulting from (1) normal wear and tear, improper installation, improper maintenance, misuse, abuse, negligence, accident or alteration. As the manufacturer/supplier has no control over its use, it will not cover any subsequent loss or damage to other equipment or property.

D. Accessories, connected materials and products, or related products not manufactured by Optitec Pty Limited.



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