

THIS PRODUCT MUST ONLY BE INSTALLED BY A LICENSED ELECTRICAL WORKER. IN-HOME WARRANTY IS VOID UNLESS A CERTIFICATE OF COMPLIANCE OR RECEIPT FROM A LICENSED INSTALLER IS AVAILABLE.

**PLEASE READ THE WARRANTY TERMS AND CONDITION BEFORE INSTALLING**

## **VOLTRON OPERATING INSTRUCTIONS**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance (this paragraph required by Australian Standard AS/NZS60335.1).



**Contact with rotating ceiling fan blades and live parts of lamp holders can cause serious injury or death.**



**Turn off the isolation switch for the fan/light before changing lamps, cleaning or servicing the fan.**

**\* The handset must be within 5 metres of the receiver but may work over longer distances. \***

### **Handset Battery Installation/Replacement**

Open the battery compartment by sliding the hatch downwards. Gently press the grooved section inwards to disengage latch. UNWRAP PLASTIC FROM AROUND NEW BATTERIES (if present). Observe polarity and make sure battery sits properly in recess. Slide hatch back into place.

### **Instructions for Simple Fan and Light Functions**

**FAN:** Press the FAN ON/OFF button to operate fan. The fan speed LED will give a long blink to show fan is on and a short blink when it is off. Press the FAN SPEED button to cycle fan speeds. If the fan is off it will turn on when the fan speed button is pressed. The fan speed LED will show the selected speed.

**LIGHT:** Press the Light button once to toggle light on or off. The light LED will give a long blink to show light is on and a short blink when it is off.

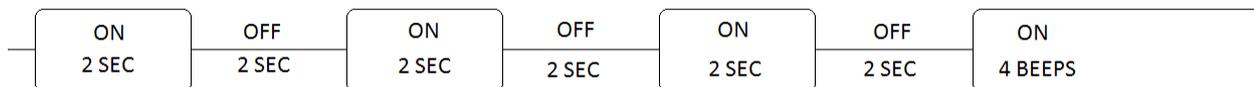
The light dimmer will adjust brightness with the light on or can be pre-set with the light off. When the dimmer is pre-set the light will turn on at the pre-set brightness (ideal for bedrooms). To adjust brightness hold the dimmer button down or press multiple times until the LED brightness indicators are at the desired position.

**TIMERS:** The timer buttons allow the fan or light to be turned on for the duration indicated by the LEDs. To cancel timers turn the fan or light on then off using the relevant fan or light on/off button.

### **How to Pair a Handset**

The receiver can learn the identification code for a handset using the following procedure:

- A. Turn off the power to the receiver for 30 seconds using the isolation switch\*.
- B. Toggle the isolating switch\* ON and OFF as follows (each ON and OFF must be 2 secs).  
(prior to installation it may be more convenient to connect the receiver to a power point via a flex)



- C. The receiver will beep four times when it enters program mode. The duration of each on period and each off period must be 2 seconds. Depending on how accurately the 2 sec period is timed it should take 3 or 4 off/on cycles to enter program mode. If the timing is too long or too short simply keep cycling the power until it does enter program mode (4 beeps).
- D. Wait 3 seconds then move new handset within 2 metres of the receiver and press “LEARN” on handset.

*\* One isolation switch per fan must be used. Typically this is a light switch in the room containing the fan/light. If an isolation switch is not fitted the unit cannot be paired/programmed and may result in unnecessary service calls being charged to the owner. Re-programming and pairing is not covered under warranty.*

## Instructions for Advanced Features

**ERASE HANDSETS:** It is possible to erase (un-pair) all handsets from the receiver. First, turn fan on using handset. Then place in programming mode by following 'How to Pair a Handset' steps A - C, wait 3 seconds and press "FAN ON/OFF". The receiver will beep once. Next, add (pair) a handset by pressing the handset "LEARN" button. If a handset is not added the unit will remain in program mode and it will beep occasionally until a handset is paired with it.

**BUZZER MUTE:** The buzzer beep can be silenced for use in bedrooms or quiet areas. Place in programming mode by following 'How to Pair a Handset' steps A - C, wait 3 seconds and press "FAN SPEED" button. The fan will start turning to indicate the instruction was received. To restore buzzer beep repeat the procedure. Note: the receiver will always beep when entering program mode. When troubleshooting problems the buzzer must be enabled.

**POWER-ON LIGHT (POL):** When POL is enabled the light will turn on when power is applied to the receiver (via the isolation switch or after a power failure). This allows the fan light to be turned on/off by the wall isolation switch when the handset is not available. When POL is disabled the light will remain off when power is applied. The disabled mode is recommended for holiday houses and similar locations where the light may switch on unintentionally if a power failure occurs. The fan will always remain off when power is turned on.

**POL Enable:** First, turn the light OFF using handset. Place in programming mode by following 'How to Pair a Handset' steps A - C, wait 3 seconds and press "LIGHT ON/OFF"

**POL Disable:** First, turn the light ON using handset. Place in programming mode by following 'How to Pair a Handset' steps A - C, wait 3 seconds and press "LIGHT ON/OFF"

**MINIMUM BRIGHTNESS SETTING:** This should only be done if there is a flickering problem<sup>#</sup> with some types of lamps. The minimum brightness can be pre-set to prevent lamps flickering if they are set too dim. First operate the dimmer normally to find the point at which lamps start to flicker and then go one step brighter. Place in programming mode by following 'How to Pair a Handset' steps A - C, wait 3 seconds and press "DIMMER" button once. The lamps cannot be made any dimmer than the minimum setting even though the handset LEDS will show lower.

<sup>#</sup> *Voltron has been extensively tested with a wide variety of lamps. Good quality lamps compatible with trailing edge dimming should work properly. Nonetheless flickering problems are caused by lamps (not Voltron). Ripple control signals may cause lamps to flicker, especially when dimmed. Flickering problems are not covered by warranty.*

## Maximise Product Life and Protect your Warranty

Damage caused by voltage or current surges will shorten the life of the product and is not covered by warranty. Surges may be caused by lightning, problems in the electricity network or out of specification voltages from solar inverters. The chance of damage can be minimised by turning off the isolation switch when a Voltron controlled fan or light is not being used. It is good practice to turn off the isolation switch just like you would with a normal light switch.

## Warranty Terms and Conditions:

This statement is required by the Australian Consumer Law 2010: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure."

Subject to the limitations below Hunter Pacific International Pty Ltd (HPI) will, for a period of 12 months from date of purchase, replace a defective Voltron receiver and pay the nationally averaged labour cost that applies to such a repair to either the owner or a repairer authorised to perform work on behalf of Hunter Pacific International Pty Ltd.

1. If a handset becomes inoperative due to a defect in materials or workmanship HPI will supply a replacement handset by postal delivery. The Voltron is user programmable and allows pairing of new handsets via an isolation switch. If an isolation switch is not present your installer should be consulted. HPI will not under any circumstances pay for labour to perform pairing or programming.

2. A major failure is when the Voltron receiver fails to work at all due to an internal defect caused by faulty materials or workmanship or an external defect in Voltron is present before installation. All other faults are minor failures.

3. Damage caused by misuse, weather, water, voltage or current surges are not covered by warranty. Surges may be caused by lightning or problems in the electricity network or due to out of specification voltage from solar inverters. Damage can be minimised by turning off the isolation switch when a Voltron controlled fan or light is not being used.

4. Flickering of lamps is not covered by warranty. Voltron is not guaranteed to dim lamps other than incandescent lamps less than 80W (total) and Hunter Pacific International Pty Ltd branded lamps sold as dimmable types. Lamps used with Voltron must be compatible with 'trailing edge dimming' or damage to Voltron and the lamp may result.
5. To comply with safety standards Voltron is fitted with non-replaceable 'fail-safe' fusing. These fuses are robust but can be damaged by fan faults or lamps that draw extremely high currents upon failure ("blown lamp"). Voltron failure caused by fan faults or blown lamps is not covered by warranty.
6. Incorrect installation and radio interference problems are not caused by a product defect and are not covered by warranty. Voltron uses a 433MHz radio transmitter and may be subject to periodic interference by other devices using this frequency band.
7. Hunter Pacific International Pty Ltd will not pay for diagnostic service calls. Owners wishing to engage an electrician or other service person to diagnose a fault with Voltron must do so at their own expense. HPI will not under any circumstances pay for diagnosis or rectification performed without our express prior consent. To prevent paying for unnecessary diagnostic work please first read the troubleshooting tips and contact HPI for advice if a problem persists.
8. This express warranty does not cover travelling costs to repair/replace Voltron units installed outside metropolitan areas or where an authorised service agent must travel more than 25 km from their base of operations. Voltron units installed in locations requiring special access equipment (above 3 m) must have this equipment supplied by or paid for by the site owner. Warranty only covers Voltron units purchased and installed within Australia.
9. HPI will pay a maximum of the nationally averaged labour cost toward repair/replacement of units installed in locations described in point 8 and owners who wish to install units in remote or difficult to access locations should take service and repair costs into consideration before having Voltron installed.
10. Warranty is void if Voltron is installed by an unlicensed person. If Voltron is installed other than according to these instructions HPI's warranty may be void or reduced to postal supply of a replacement unit only.

### **Troubleshooting Tips (try these in order):**

- Turn the isolation switch off for 10 seconds and then back on. If the fan-light turns on (assuming POL is enabled) the receiver is working. If the light does not turn on and POL is enabled then check the circuit breaker or RCD is on. If other lights and fans are working in the house then the Voltron receiver and handset may not be paired. Try the pairing procedure.
- If the receiver doesn't respond to the handset and the fan-light doesn't come on after turning on the wall switch (with POL enabled) then it is possible the receiver is damaged or faulty. Call HPI for advice.
- If the receiver doesn't respond when the handset buttons are pressed (but POL works) first replace the handset battery. Next try getting as close to the fan as possible. If it works when close it could be an interference issue with other devices such as wireless security cameras, wireless alarms and other devices working on 433 MHz (or close thereto). Turn those devices off and try again. If this problem occurs intermittently then it is probably caused by neighbours using devices that interfere.
- If the receiver doesn't respond when close it may be a faulty handset. If you have other Voltron remotes you can temporarily pair them to the suspect receiver. If they pair OK the handset is possibly damaged or faulty.
- If the fan-light doesn't turn on when the wall switch is turned on (and everything else works OK) then POL may be disabled. Follow the POL instructions to enable.
- If the receiver doesn't beep but the fan and light functions change in response to the handset then the buzzer mute function is enabled. Follow the buzzer mute instructions to enable.
- If a lamp flickers or goes out it may not be a dimmable type. If the lamp won't dim or flickers when trying to dim it then it is not a dimmable type. If the lamp is dimmable but flickers then it is not suitable – you can verify Voltron's operating correctly by trying an incandescent lamp which will always be dimmable. Replace the lamps.
- If nothing works and Voltron was not turned off at the wall switch when a thunderstorm passed close by, especially if there was a power glitch or blackout it is possible the receiver has been damaged by a surge. Call HPI for advice.

## **INSTALLATION INSTRUCTIONS & RECOMMENDATIONS TO ELECTRICIANS**

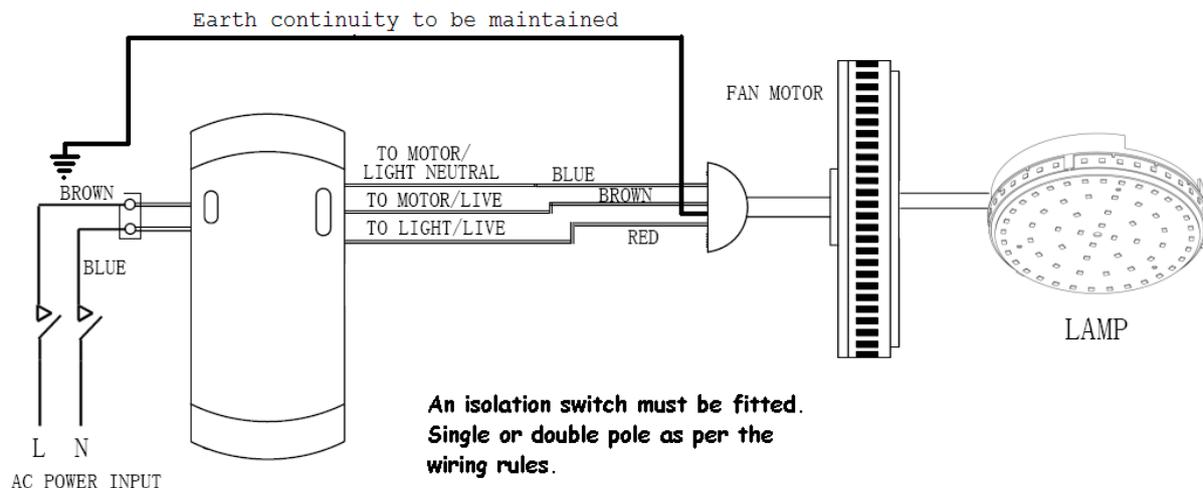
This remote control system is for use only as intended and connection to equipment other than ceiling fans and associated lighting or installation for purposes outside of those recommended by Hunter Pacific International may void the manufacturers warranty against defects.

1. The receiver and handset portions are for indoor use only or must be protected against moisture.
2. An isolation switch **MUST** be fitted in a location accessible to the user. **One isolation switch per Voltron** is required to allow pairing and programming. If an isolation switch cannot be fitted this must be explained to the owner and their attention drawn to Item 1 of the Warranty Terms and Conditions.
3. Do not install within ceiling or wall cavities. This may exceed its maximum operating temperature, reduce its life or make it work erratically and will void warranty.
4. An internal, non-replaceable fuse is fitted in the receiver. If an in-situ receiver is open circuit then check for a fault in the attached fan or light before replacing and possibly damaging another receiver.

### **WIRING CONNECTION:**

Wire the remote control receiver to the fan and light using the wiring tails as follows. If the 4 pin plugs and sockets are to be used carefully inspect the wire functions/pin locations are compatible with the fan/light connectors:

- (a) The fan and light must be earthed. The earth wire should be run directly to the earth terminal of the fan/light.
- (b) Active and neutral are connected to the brown (A) and blue (N) input wires of the receiver.
- (c) The fan active wire is connected to the brown output wire, the neutral to the blue output wire. The light active is connected to the red (or white) output wire and the light neutral is connected to the blue output wire (same as the fan). Do not allow any active or neutral to bypass the receiver or damage may result.
- (d) Place the receiver into the under ceiling canopy within the space provided in the suspension bracket. Do not place in ceiling cavity.
- (e) Test system. Show user how the isolation switch works and confirm Power-On Light (POL) selection and minimum dimming level meets the owner's needs. Label the switch (eg. "Ceiling Fan").



### **Voltron Specifications**

Receiver Temperature:	45°C max.
Input Voltage Range:	220-240 V AC RMS, 50-60 Hz
Maximum Input Current:	1.25A with output fully loaded
Internal Standby Power:	2.4 W RMS (max.)
Maximum Fan Load:	80W
Maximum Light Load:	80W
Dimmer Type:	Trailing edge
Dimmer range:	10% to 99%
Compatible Lamps:	Incandescent and dimmable electronic types (use internally fused lamps)
Handset RF:	433.920 MHz, ASK, 60 dBuV/m @ 10m
Handset Battery:	A23 MN21 (12V) Alkaline only

**FOR WARRANTY AND TECHNICAL ADVICE CALL 1300 360 280 during business hours in NSW.**  
Supplied by Hunter Pacific International Pty Limited. PO Box 6099 DURAL DC 2158 Australia