

REVCAMUK

Reversing cameras UK Ltd

Instructions for our dual input wireless sender box with trigger wire to switch between two cameras



Safety Information - Please Read before install

When installing wireless systems to vehicle electrics, it's crucial to ensure compatibility with the vehicle's electrical system. Incorrect installation can cause damage to both the vehicle and the system, void warranties, or result in safety hazards like electrical faults or interference with other vehicle systems. Always disconnect the battery before installation, but be aware that this may require you to know your vehicle's radio codes to restore functionality and could reset other vehicle settings or trigger security systems. Avoid connecting directly to the vehicle battery; instead, use the appropriate power sources and fuses to prevent electrical issues. If you're unsure or inexperienced, seek professional advice to ensure a safe and proper installation.

Technical Specification and Dimensions

Power Input: DC 12-24 V

Frame: 30 fps

Operation Frequency: 2400-2483.5 MHz

Video Codec: MPEG4

Out Power: 18dBm

RF Bit Rate: 6Mbps

Spread Spectrum: FHSS

Hopping Rate: 1200/S

Latency: 100mS

Receiving Sensitivity: -68dBm

IP Rating: IP69K

Transmission Distance: 60 meters

Operating Temperature: -20° C to approx. 70° C

Dimensions (w x h x d): 8.5 x 12 x 2.9cm

Weight: 0.24kg

Trigger Wire: To Switch between two inputs



Camera Signal Compatibility Information

The box is designed to be used with conventional PAL CVBS reversing cameras. This is the most common type found. It will not work with the new high definition AHD cameras. We stock a whole host of PAL CVBS cameras, as it is our core range. If you would like any assistance in choosing compatible cameras, please get in touch.

Introduction

Thank you for your purchase of our dual input trigger channel sender box. You may have bought this product by itself, or as a kit. These instructions will provide a guide to assist installation of our product. We will also cover installation of this kit when used with one of our WB60RX receiver boxes, or one of our 60m wireless monitors with the built in aerial/receiver. This means that some of the instructions you will find in this booklet are not relevant to your install. Please only follow the parts that apply to the products you have.

Guide to Wiring of Transmitter Box

The transmitter box is fitted with :

- 2x 4 Pin “Aviation” Male Connectors - Connects to 2 Camera Wires
- Red Wire - For 12V or 24V power connection
- Black Wire - For connection to earth/ground
- Green Wire - For connection to reverse light or alternatively a switch. When this wire has power the box will show Channel 2 input, when it doesn't have power the box will show Channel 1 input.



Green trigger wire attaches to reverse light. When it receives power the box will switch inputs.

REVCAMUK

Sender Box

What Monitor or Receiver can the WB60TX-Dual Box Connect to?

This sender box can connect with the following products that we sell :

WM560 - Our 5" Wireless Monitor with built in aerial



WB60RX - Our Wireless Receiver Box combined with a Monitor Display (Mirror Monitor shown with Receiver box below as an example)



Pairing the Sender Box with a Monitor / Receiver Box

Please kindly note that if you purchased this sender box as part of a kit, we will have always paired the two parts for you when testing prior to dispatch, so only follow these instructions if you ever delete the pairing in the future.

1. Press the pair button on the sender box for 3 seconds (MUST BE SENDER SIDE FIRST OTHERWISE PAIRING WILL FAIL).
2. Press the pair button on the receiver box or monitor within 50 seconds of step 1.
3. The pairing will be saved until the next time the pair button is pressed for 3 seconds.

When both monitor and sender/camera have power and are paired you will see a signal strength meter in the corner of the screen indicating how strong the signal is, you will also see a picture from the camera connected.



Powering the sender box

To connect a wireless reversing camera system, you will need to find a non-canbus controlled 12V or 24V power source. Wireless kits are typically used on caravans, trailers, and similar vehicles, and there are a few common power sources that work well for these setups. The most popular options include:

Running Lights/Side Lights: These are often used as a power source since they are easy to access and are typically powered when the vehicle's lights are on. This allows you to turn on the system when needed by simply turning on the vehicle's lights.

Fridge Power Supply: Many caravans and trailers have a dedicated 12V power supply for the fridge. This is a stable power source that can be tapped into, especially as the wireless kit needs to be powered continuously whilst driving.

Make sure the power source you choose is not controlled by the vehicle's canbus system, as this could interfere with the operation of the wireless kit. This is normally only a problem if installing on modern vans/cars, whilst Caravans/Trailers are usually fine. You will note that our WB60TX dual box has an inline 3 amp fuse added, which should protect your system from overloads or electrical faults.

Attaching Trigger Wire for Changing Channel

The green wire is what is used to facilitate the changing of channels that gets sent to the receiver/monitor. The sender box will only send one channel at a time. If there is no power feed to the green wire it will display channel 1. If there is a power feed, it will swap to channel 2.

The most common use for this trigger is to a reverse light feed, it's most commonly used with our twin lens rear view + reversing camera. In this scenario you would attach the cameras in the order below :

- Channel 1 - Attach the always on camera e.g. Rear View Camera
- Channel 2 - Attach the camera you want to come on with trigger wire (reverse) e.g. Reversing Camera

Trouble shooting

Here are a few notes to help diagnose any problems you experience either during fitting, or during the lifetime of the product.

First, a quick mention about lights on the WB60 boxes. These are not as simple as sender and receiver boxes light up when power is present. The receiver and sender do different things depending on if paired or not. When paired and transmitting, you will notice the sender will flash faintly - this is normal. The state of system is best seen on the monitor, see below for more details.

I see a black screen with a red circle in the top left of the screen with the words "no signal" in yellow text

This is a video signal coming from the receiver box to the monitor and basically means that the receiver box isn't connected to a sender box. Check power supply to the sender box, if this doesn't cure it then try pairing again (remember sender side first).

I see a black screen with a yellow signal strength indicator in the top left of the screen and no picture

This is a video signal coming from the receiver box. The signal indicator means that the sender box is talking to the receiver box, but that there isn't a picture being supplied to the sender to send. Sometimes you may even see a band of colour at the bottom of the screen covering approx 20% of the screen. This could either be a fault with the camera, or a power supply issue - as the sender works to a lower voltage than the camera. I would check the power supply first before trying another camera - as power supply is very often the cause (such as a bad crimp contact).

I see no picture, signal bars, or red circle, but I do see the words "no signal" on the screen

This is something that is displayed by the monitor when it isn't detecting a signal on the selected input. First, check the receiver box is plugged in to the same channel as selected on the monitor - change channels to see if it's on another channel. Try moving the receiver box to another channel and ensure this is selected. Check power/earth to the monitor - a bad crimp/resistance could cause the monitor to work but not allow the receiver to load up. Failing this, the issue could be the receiver box failure (very rare).

Guarantee Details

The product is guaranteed for 24 months from the date of purchase provided it is not damaged by accident or in fitting, it has not been adapted or disassembled and that the serial numbers remain on the product.

The guarantee is limited to the product and accessories supplied only and doesn't extend to any third party losses or damages, neither does it cover cosmetic appearance. The guarantee does not cover labour costs associated with the products installation or removal for guarantee service. The guarantee is transferable should you sell the vehicle and provide the new keeper with proof of purchase.

If you purchased this product as part of a kit, please follow any additional instructions that were supplied relating to any fitment of the camera or monitor.

We hope you enjoy your kit for many years to come, if you do require any support then do not hesitate to contact us on the website, by phone 0800 612 6816, or by email support@revcam.uk