

REVCAMUK

Reversing cameras UK Ltd

Instructions for our wireless system using the WM560 / WM760 monitors



Safety and Installation Precautions

If you are not using a cigarette lighter to connect to the electrics then we recommend disconnecting the negative terminal of your vehicles battery when making connections. Be aware this may reset your clocks/computer/radio code.

The TFT panel of the monitor is delicate and pressing the front can cause the thin glass sheet inside to crack. If this happens a black area will form around the line of the crack. Be careful not to apply pressure to the front of the monitor.

Modern vehicles now have very complex electrical systems. In order to reduce fuel consumption many vehicles use smart battery charging. This can mean the voltage applied to the battery terminals can rapidly fluctuate and go beyond the normal voltage ranges you would expect. **UNDER NO CIRCUMSTANCE TAKE YOUR POWER DIRECTLY FROM A VEHICLE BATTERY.**

Introduction

We'd like to thank you for your purchase of one of our digital wireless kits, we hope it provides you many years of safe, stress free motoring. In order to protect, and get the most from your kit, we recommend reading the instructions fully before you start your installation. Please check the system for any in-transit damage, or missing parts and inform us within 7 working days.

Contents

- Wireless Monitor
- Aerial for Monitor
- Sunshade (7 inch version only)
- Hardwire wiring with red/black wires
- Lighter plug wiring
- Either Suction Mount, Dash Mount, or both (depending on which was selected at checkout)
- Reversing Camera
- Aerial (if built in aerial version was selected)
- Sender box (if sender box version was selected)
- Extension cable (if selected at checkout—sender box only)

First things first!

We always recommend trying the system out first before permanently fixing to the vehicle to ensure that you are happy with the location/view of the camera. The monitor comes with a lighter plug power supply which will assist in this testing, as well as being suitable for using full time instead of hard wiring.

Powering the Monitor

You have two choices for power supply, you have the lighter plug that attaches to a lighter socket in the vehicle, and you have the hard wiring option with red wire (12V/24V power) and black wire (earth). If using the hard wiring option we recommend using a switched 12V /24V supply (one that goes on/off with ignition).

When you first power up the monitor you will see a black screen with the words no signal, this is because you haven't powered up the sender box/camera yet so it has no signal to receive.



Fixing the Monitor to vehicle

Depending on your choices when ordering you will either have a suction mount, a dash mount, or both. All options mount to the same rear channel/groove located at the rear of the monitor (see pic below).



If using the suction mount then please be aware that this is only suitable for temporary mounting, eventually suction cups lose pressure and will loosen. Wetting the suction cup slightly will provide a stronger seal/suction.

If you have ordered the dash mount, the base of this will have a protective film over an adhesive foam pad. Before mounting this on your dashboard it is important to thoroughly clean the area you plan to mount bracket. Years of dashboard polishes can add an oily layer which will prevent a good adhesion, cleaning with a suitable cleaner to remove this will give you the best end result.

Powering the camera

You will either have a camera with an integrated sender/aerial, or a camera with a separate sender/aerial sender box. As mentioned earlier, we recommend powering the camera up before fixing the camera permanently to ensure you are happy with position etc.

You will want to locate a non-canbus controlled power source 12V/24V. Wireless kits are most commonly used on caravans, and trailers, and on these the favourite power sources are running lights/side lights (turning lights on when you wish to view), reverse light, and the fridge power supply.

Integrated aerial camera option wiring

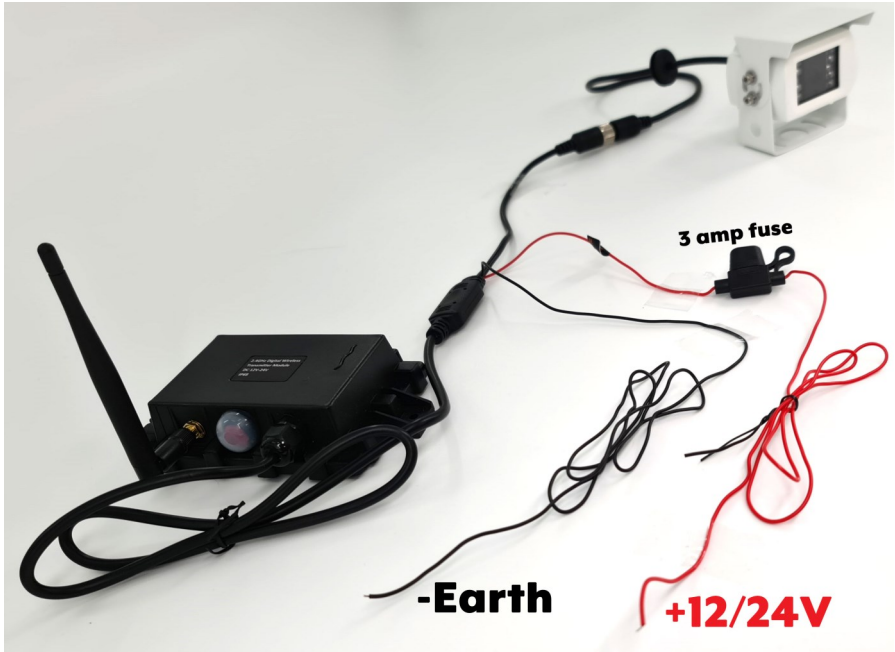
The integrated aerial/sender camera will have a power lead that initially becomes a 2.1mm/5.5mm DC socket, this then has a DC plug which splits to red and black wires. Red = 12V/24V, Black = Earth (see picture below).

If required, a DC extension lead can be used to extend the power cable further from the camera location.



Sender box plus camera option wiring

The sender box plus camera option will have a lead that breaks out in to a red fused wire (+12V/24V), a black wire (earth), and a 4 pin lead to connect to the camera (See picture below). If required you can use one of our 4 pin extension cables to extend the sender box further away from the camera, a lot of our customers like to move this box to a convenient cupboard further from the camera.



Pairing the camera and monitor

Please kindly note that we always do this 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 or the camera for 3 seconds.
2. Press the pair button on the 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 (see photo).



Button Guide

		The power button, to toggle screen on/off
		The menu button, allows adjustment of colour/brightness etc
		The adjust up button, use this when adjusting settings in the menu system
		The adjust down button, use this when adjusting settings in the menu system
		The guidelines button, pressing this will add static guidelines to the image (not moveable)
		The pair button, only use if you have deleted the pairing we set during testing/dispatch
		(Only on the 7 inch WM760 monitor) The mode button changes the rotation mode eg mirror/flip the image.

Fixing and adjusting the Camera

We have various different types of camera in our kits, so depending on the type of camera you chose, this will determine how you fix the camera up. Remember to ensure you try the kit out before permanently fixing.

Bracket Cameras

Most people nowadays use a sealant adhesive like Sikaflex 512 to fix the bracket in to place. If using this method you will need to remove the camera from the bracket to reduce the weight until it cures/sets. You would add the adhesive to the base of the bracket, then press in to place (sometimes you may need to add place some tape to stop it slipping down whilst drying). Ensure you follow adhesive instructions.

Number Plate Cameras

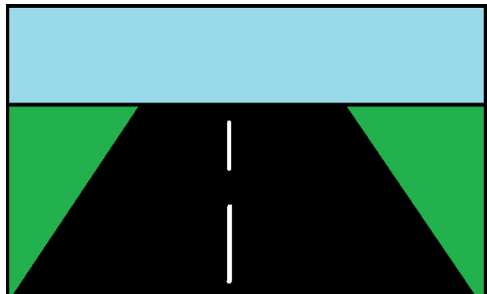
We stock some cameras that mount behind the numberplate, some that bolt above, and some number plate frame cameras that use the original screw holes of the number plate to the vehicle.

Bumper cameras

These require you to drill a hole (holesaw provided) and then insert the camera in to the hole and use the locking ring to screw against the body from the rear.

Adjusting the camera tilt to get the best performance!

Reversing cameras perform best when focused on the area you wish to view. If you have too much sky in the picture, then during a bright day the camera will make adjustments to tone down the whole picture, this would then make the following vehicles look washed out/dull. To get the best picture, keep the horizon as close to the top of the screen as possible (see illustration below). Even slight adjustments can have substantial impacts. We recommend having a play around with the angle the camera tilts, in order to get the best performance. Obviously the bumper cameras have a very limited adjustment on them, unlike the bracket and numberplate cameras.



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 of the camera or monitor. 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.

We are usually able to repair the monitor if it fails after the guarantee period. It is usually a low cost repair providing the LCD panel has not been damaged.

Care of the camera

DO NOT ALLOW A PRESSURE WASH JET TO HIT IT. 1000-3000lb per square inch is beyond the IP rating of all reversing cameras!

Keep the front glass clean using a damp cloth.

If possible wax the camera body on a regular basis. In winter rinse off salt as soon as possible. The combination of salt, steel and alloy can cause corrosion. If you look after the camera it will last for years.

Avoid pointing the camera directly at the sun. The lens of the camera will act like a magnifying glass and can burn the camera sensor. If your vehicle is likely to be regularly parked on a hill which will result in the camera pointing at the summer sun then consider tilting the camera down more.

Do not wax the front glass of the camera. This can lead to poor night vision with IR light being reflected back off the wax.

Touch up any paint chips as soon as possible.

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