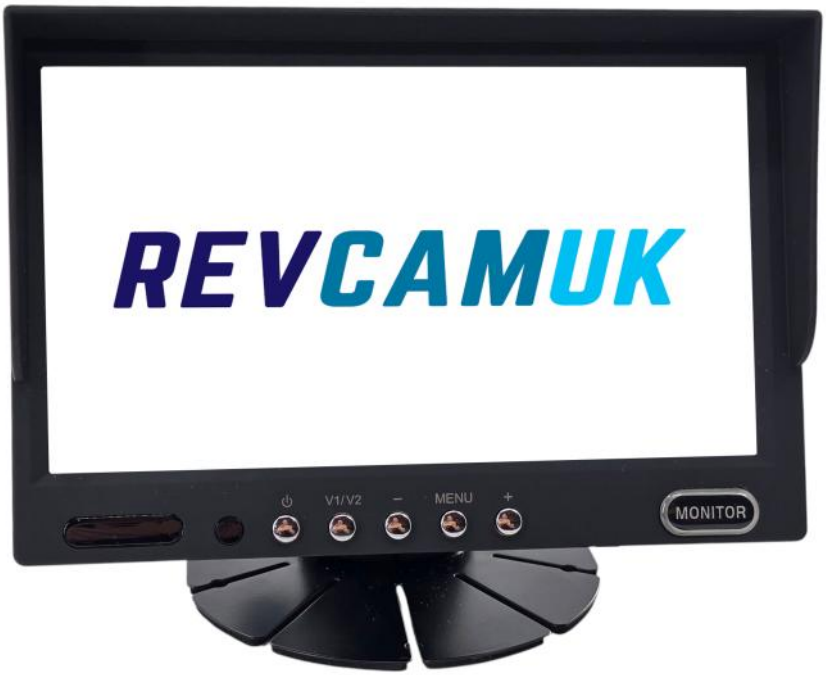
REVCAMUK

Reversing cameras UK Ltd

Instructions for our MON509D 7” LCD Panel Monitor



Scan the QR code to the left using your camera app or QR reader app to view our video relating to this monitor.

Technical Specification

Screen Ratio : 16:9

Back Light Luminance : LED, 300 cd/㎡

Resolution : 800 x RGB x 480

Compatible System : NTSC & PAL (automatically)

OSD Control : Colour, Brightness, Contrast, Volume, Language (English, Deutsch, French, Spanish, Portuguese, Italian, Dutch, Simplified Chinese)

View Angle : Horizontal L(60) R(60), Vertical UP(40) DOWN(60)

Image Reversion : UP/Down and Left/Right

Power Requirement : DC 12–24V

Power Consumption : 5W

Storage Temperature : -30°C to 80°C

Working Temperature : -20°C to 70°C

Size : 172 x 115 x 22 mm

Weight : 312g

Key Colour : Silvery colour

AV Inputs : 2-way video input, built-in speaker

Number of Trigger and Display : 1 trigger

Optional Functions : 4 PIN connector

Other Features : OSD menu, Remote control, Sunshade design around, Built-in speaker

Safety Warnings

- **Installation Precautions:** Ensure the vehicle's battery is disconnected before installation to prevent short circuits or electric shocks.
- **Correct Wiring:** Always connect the wires as instructed. Incorrect wiring may cause damage to the monitor or vehicle's electrical system.
- **Secure Mounting:** Make sure the monitor is securely mounted to prevent it from shifting or falling while driving.
- **Avoid Obstruction:** Position the monitor so it does not obstruct the driver’s view or interfere with airbag deployment.
- **Power Supply:** Do not connect the monitor directly to a high-voltage source. Use a regulated 12V power supply as specified.

- **Moisture and Heat:** Keep the monitor away from excessive moisture and direct heat sources to prevent damage.
- **Cable Protection:** Route cables away from sharp edges and moving parts to avoid wear and potential electrical faults.
- **Use While Driving:** Do not adjust monitor settings while driving. Ensure the system is set up before starting your journey.
- **Qualified Installation:** If unsure, seek professional assistance to install the monitor correctly and safely.

Introduction

Thank you for choosing the MON509D 7" monitor for your reversing and rear-view camera system. This high-resolution display is designed to provide a clear and reliable view of your surroundings, helping to improve safety and convenience when manoeuvring your vehicle in various driving conditions. Whether you are reversing, parking, or monitoring blind spots, this monitor enhances visibility, reducing the risk of accidents and making manoeuvres easier and more controlled.

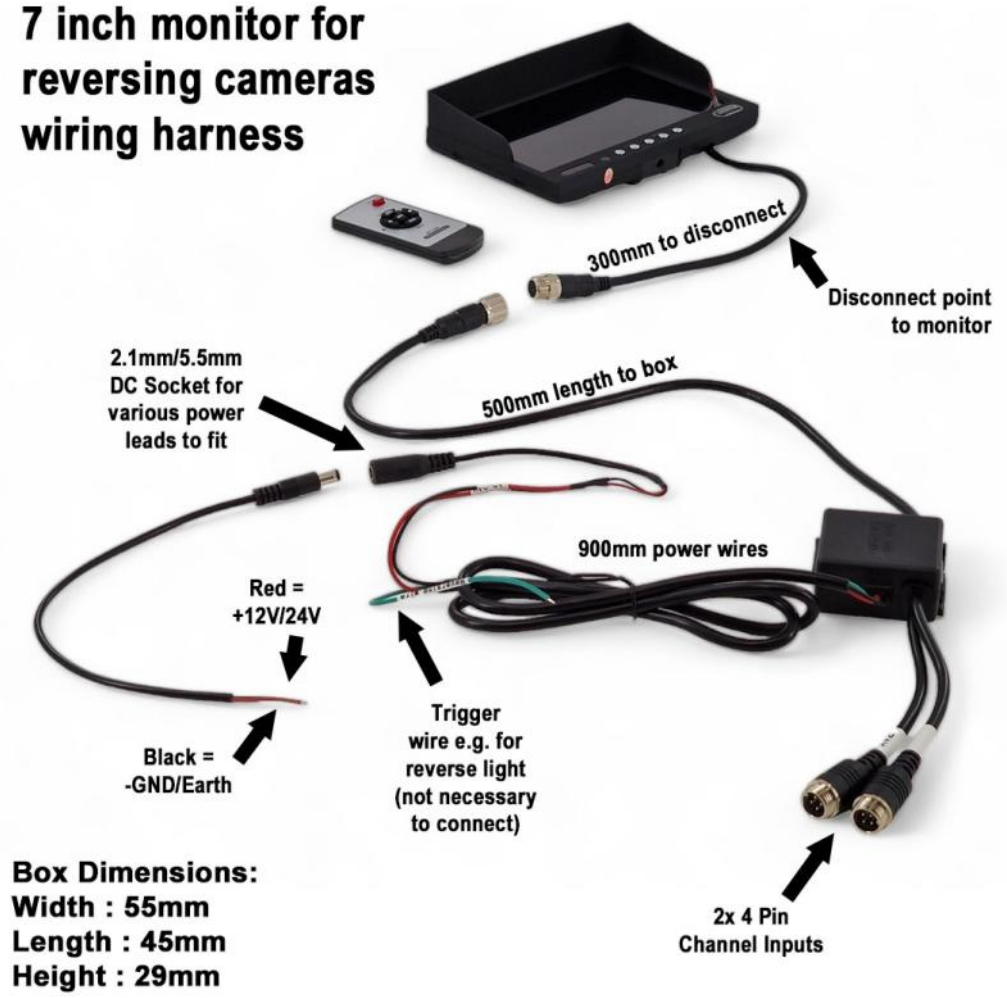
The MON509D supports multiple camera inputs, allowing you to connect and switch between up to two cameras as needed. This makes it particularly useful for vehicles requiring both a rear-view camera and an additional side or front-facing camera. The monitor features an intuitive user interface with accessible controls, allowing you to adjust brightness, contrast, and other display settings to suit different lighting conditions.

Built for durability, the MON509D is designed to withstand the demands of everyday use in a wide range of vehicle types, including motorhomes, vans, HGVs, and agricultural machinery. Its robust construction ensures reliable performance even in challenging environments, making it a versatile solution for both professional and personal use.

This guide will take you through the installation process, wiring setup, and operation of the MON509D monitor, providing clear step-by-step instructions to help you get the most out of your system. Following this manual will ensure proper setup and optimal performance, allowing you to enjoy a safer and more efficient driving experience.

Contents and Wiring Harness Layout

- Monitor
- Wiring Harness
- Standard Hardwire / Power Wire
- Remote Control
- Quick Release Bracket



You will notice that the monitor has a short fly lead, this then plugs in to a lead that we refer to as the monitor wiring harness. One end of this has a 8 pin connector that fits in to the monitor fly lead, whilst the other end has the following inputs/ wires listed below :

- 2x 4 pin male aviation (the inputs for the 2 available channels).
- Red wire + black wire combined to a 2.1mm/5.5mm DC power socket (this socket fits our various power leads eg standard, lighter plug, and fuse taps).
- 1x green trigger wire - can be connected to various power sources to trigger a camera if an event occurs e.g. show reversing camera when reverse light gains power.

Trigger Wire Function

The green trigger wire is linked to channel 2 of the monitor, this means that if you wish to use this function you will need to ensure the camera you wish to view when this trigger is activated is inserted in to the CH2/V2 input.

The most common use for trigger wires is the reverse light e.g. you have a twin lens camera, you have placed the wire from the downward view parking camera in to CH2. In this scenario you would run a wire from the reverse light positive feed to the green trigger wire.

In the scenario above, if your monitor is off and you enter reverse the monitor will automatically turn on and select the parking camera in channel 2, then go off when no longer in reverse gear. If the monitor was already on but watching channel 1 at the time, the monitor would switch to channel 2 whilst in reverse gear, but change back to channel 1 after you finish reversing.

Please kindly note that the trigger wire is not required to be attached. If you do not want to wire up to your reverse lights etc then you can leave this wire unconnected. We usually recommend adding a bit of insulation tape over the ends just in case.

If you wish to setup your monitor to run full time, you simply have to connect the red wire to a positive, and the black wire to earth. The trigger wire should be left unconnected in this case. The monitor will remember its last power state when power is lost. So, if you had your monitor on before you turn the ignition off, when ignition is turned back on, the monitor will power up by itself.

Buttons / Controls

Standby / Power - Pressing this button will turn the display on and off.

V1/V2 - Pressing this button will change channel between Ch1 and Ch2.

Minus (-) - Pressing this button will decrease values or scroll through options in menu.

V1/V2 - Pressing this button will change channel between Ch1 and Ch2.

Plus (+) - Pressing this button will increase values or scroll through options in menu.

Choosing a power supply and earth

We recommend that you use a switched ignition power supply, either 12V or 24V (it will automatically work on either).

We advise against going directly to the vehicle battery. Otherwise the system will be at risk due to the voltage fluctuations experienced as the alternator kicks on/off.

Avoid always on power supplies - the monitor will still consume power even when you press the power button and the monitor goes to standby mode.

We recommend earthing direct to the chassis, at a point with a bare metal surface. We recommend against piggybacking off another existing earth wire.

Menu Guide

The menu is very simple and easy to operate. We have written a brief description of what each of the menu settings does. To go between the menus simply press the M button until you reach the one you wish to change. This booklet has them listed in the same order as you will find them in the menu.

Brightness

Rather self explanatory, this menu setting simply adjusts the brightness of the display so that it can be optimised for your viewing comfort. To adjust simply press the M button until you find the screen labelled Brightness, then press either the up or down arrow until it has reached your desired setting.

Contrast

Again, rather self explanatory, this menu setting simply adjusts the contrast of the display. To adjust simply press the M button until you find the screen labelled Contrast, then press either the up or down arrow until it has reached your desired setting.

Colour

We all need a little colour in our lives. To adjust the monitor colour level simply press the M button until you find the screen labelled Colour, then press either the up or down arrow until it has reached your desired setting.

Volume

This only applies if you have a reversing camera with a built in microphone, which is rare (we only stock a few that do). If you have a microphone in your camera you can adjust the volume of the monitor by pressing either the up or down arrow until it has reached your desired setting. Please kindly note that the audio function is only present on Channel 1 and Channel 2, so ensure your camera is placed in to one of these two channels.

Zoom

This setting adjusts between 16:9 aspect ratio and 4:3 aspect ratio. We recommend leaving it set to 16:9 to gain the benefit of the full width of the LCD panel for the image to display on (avoiding black bars).

TCON (Rotation Settings)

This menu allows you to choose to rotate the image of the display. In almost all scenarios this menu does not need to be touched. This menu will allow you to flip the image upside down, as well as mirror/unmirror the picture. This also affects the menu text as you do so and impacts all 3 channels.

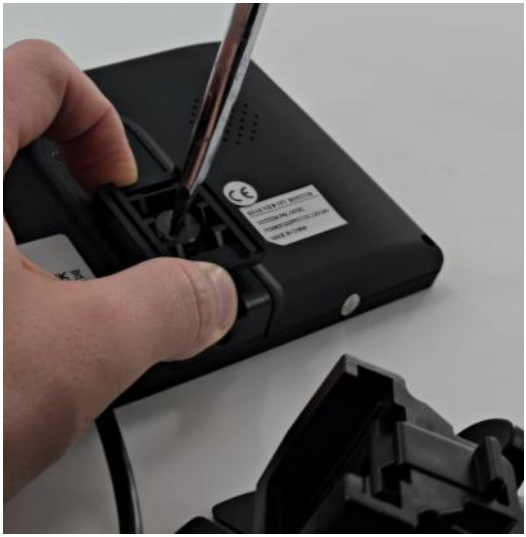
ACC Time

This setting is useful if you plan on using a trigger wire for the indicator lights to trigger a side camera. This prevents the monitor switching on/off with the flashing lights. Simply set the time using the up/down arrow so that the number of seconds is long enough to keep the monitor on between light flashes. Available settings are 2, 5, and 10 seconds.

Lang (Language)

Careful with this one. This setting changes the language. If you have inadvertedly changed your monitor language settings to Martian, simply press the M button 8 times, then press the arrow buttons to toggle between 9 different common languages until you find one you are happy with.

Bracket Installation



The monitor comes supplied with a quick release adjustable bracket. This is designed so that a detachable piece is fixed permanently to the rear of the monitor. It is secured via the small square washer that is secured to it when supplied. Simply unscrew this part slightly and slide it in to the channel on the back of the moniton, then retighten to secure.

Thanks for choosing REVCAMUK for your reversing camera safety needs. If you require any support or further information, please email us at : support@revcam.uk or call us +44(0)1843 863566. Safe and Happy Travels.