

DIGITAL WIRELESS CAMERA SYSTEM MP7410 (V 3.0) & ADDITIONAL CAMERA MP7412



Please read & follow this user guide & all safety instructions carefully when using this product.

Keep the user guide for future reference. When passing the product onto others be sure to include all documentation. The user guide is also available on our website: www.maypoleltd.com

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INTRODUCTION

The MP7410 digital wireless camera system with built in transmitter when used as described will improve your ability to see behind your car, campervan, trailer, or horse box. Numerous measures in quality control have been taken to ensure that your product arrives in top condition and will perform to your satisfaction.

Please carefully read and follow the following safety and operating instructions

IMPORTANT SAFETY INSTRUCTIONS

Before You Install

If you are not confident working with 12V/24V DC vehicle wiring, removing and reinstalling interior panels, carpeting, dashboards or other components of your vehicle, consider having the camera system professionally installed.

Carefully consider the location of any new holes before drilling. It is important to take precautions to prevent damage to the vehicle's electrical and fuel system.

Interference

This device is immune from interference from other wireless devices; bluetooth, mobile telephones, Wi-Fi routers, power lines and other various electrical equipment.

Repair

The camera system contains no user serviceable parts and should not be opened. Any attempt at modification or repair by the user will entail the loss of your guarantee.

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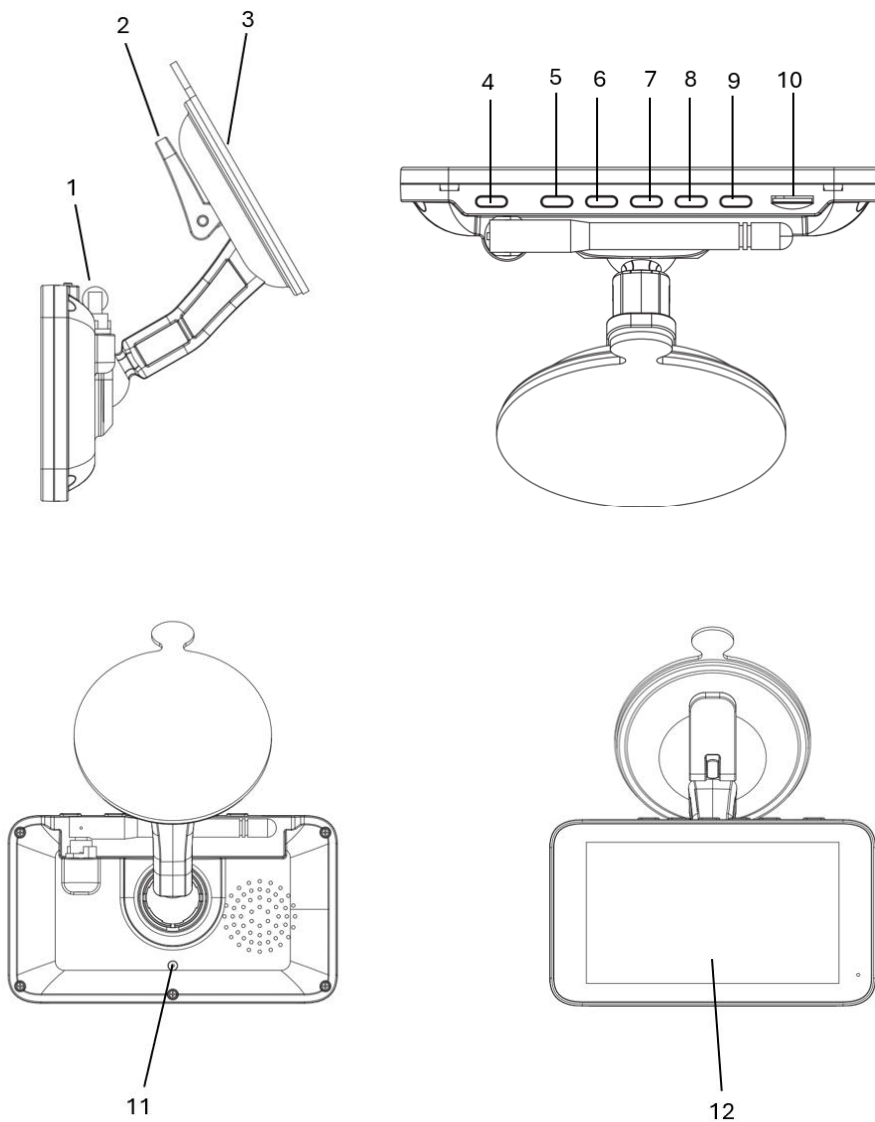
COMPONENTS



- 1). Monitor
- 2). Camera with mounting bracket
- 3). Installation kit
- 4). Monitor power cable
- 5). Suction mount for monitor

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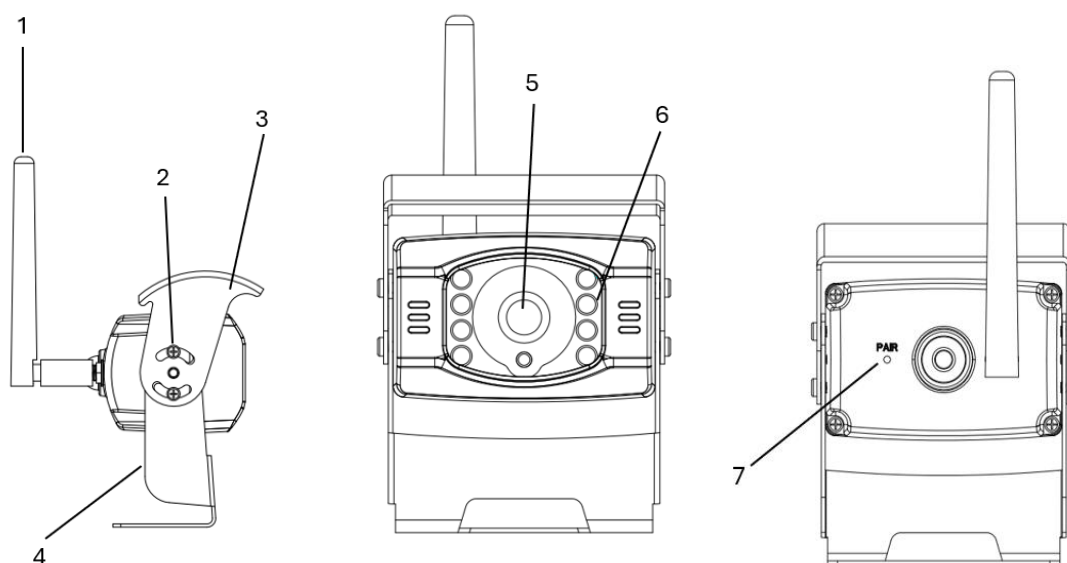
MONITOR LAYOUT



- | | | | |
|----------------------|-----------------------------------|---------------------------|------------------------|
| 1. Antenna | 4. Power | 7. Right/ mute | 10. Micro SD card slot |
| 2. Suction cup lever | 5. Parking guidelines/exit/delete | 8. Left / channels | 11. Power supply |
| 3. Suction cup | 6. OK | 9. Menu/ return/ playback | 12. 5" LCD screen |

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CAMERA LAYOUT



- | | |
|-------------------|--------------------------|
| 1. Antenna | 4. Lower bracket |
| 2. Bracket screws | 5. Lens |
| 3. Sun shade | 6. Infra-red night LED's |

7. Pairing

CAMERA INSTALLATION

These instructions do not apply to all vehicles. They are only meant as a general guide due to the number of different makes & models. For vehicle specific questions contact your vehicle's manufacturer.

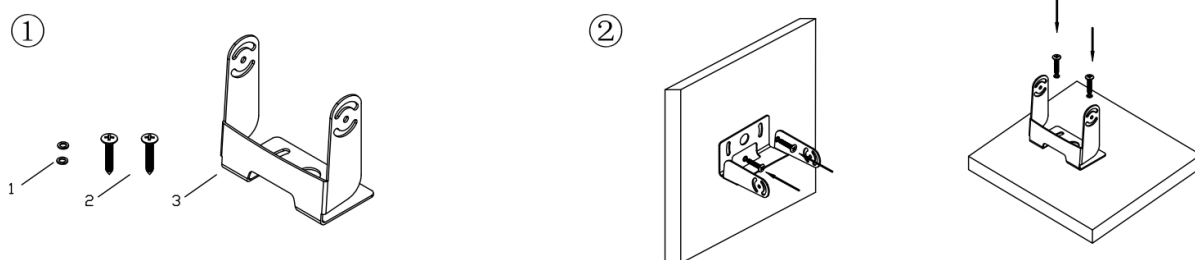
There are several ways to mount the camera on the back of your vehicle. For cars & motorhomes the most effective place is near the number plate. For caravans & large trailers it is more effective to be installed at a higher point on the vehicle. Once installed; the camera can be adjusted manually on its vertical axis. Ensure that the camera's field of vision is not obstructed.

ENSURE THAT THE CAMERA OR BRACKET DOES NOT OBSCURE ANY PART OF THE VEHICLE NUMBER PLATE!

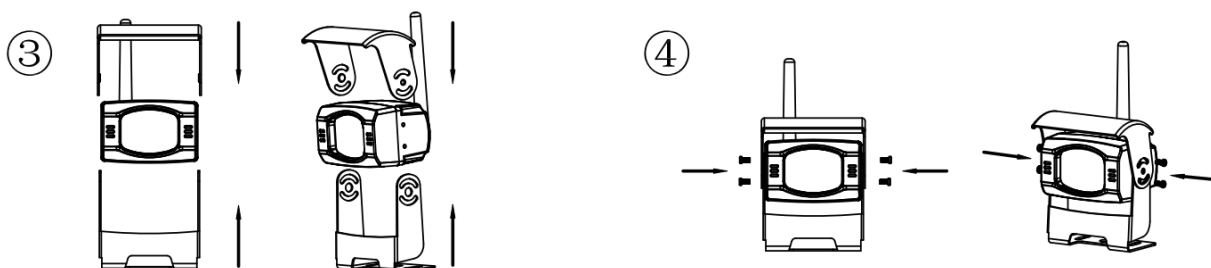
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BRACKET FOR MOUNTING DIRECT TO VEHICLE BODY

Attach the lower part of the bracket with the 2 off screws (PA 3.5 x 16mm) & washers provided to a suitable area on the vehicle bodywork as per images 1 & 2 below:



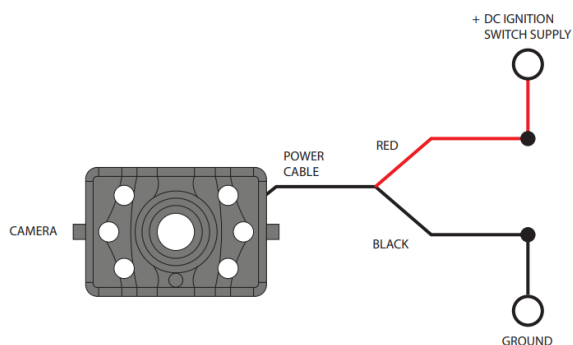
Once in position and secure to the bodywork, slide on the sunshade & camera to the bracket and secure with the screws (PM 3.0 x 6mm) provided as per images 3 & 4 below:



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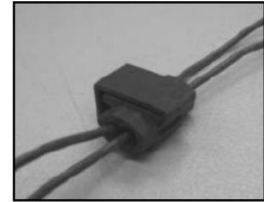
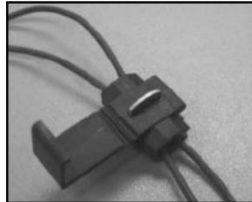
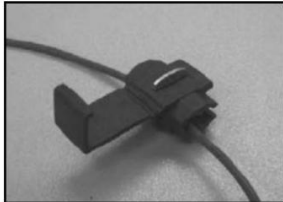
ELECTRICAL CONNECTION

1. Choose a routing path for the camera's power cable through the vehicle's body to either an ignition switched supply or reverse light circuit. If in doubt, seek professional installation assistance.
2. Some vehicles may have blanked holes available to pass the wire through, adjacent to the number plate or elsewhere on the vehicle body. Alternatively, you can drill an appropriate hole close to where the power cable exits the camera. Once you have chosen where the cable will enter the vehicle's body, remove the camera. If you are able to use an existing opening, skip the next two steps.
3. Before drilling any hole you must check to ensure there is nothing directly behind where you are drilling. If there are any vehicle components, such as electrical parts or fuel system components in the immediate area you must take whatever precaution is necessary not to damage them.
4. After a hole has been made, apply an appropriate rust inhibitor and insert the supplied grommet. The camera cables can then pass through the grommet into the vehicle. You must use the grommet to prevent the metal edge of the hole from cutting the camera cable.
5. When routing the cable ensure it is secured to prevent it from being caught on any vehicle component such as the boot hinge. Never route the cable on the outside of the vehicle!
6. Electrical connection can then be made to an ignition switched supply or dedicated reversing light feed.



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7. After determining an appropriate point of connection ensure the vehicle is switched off and splice the red wire using one of the supplied in-line wire connectors to an ignition switched 12VDC supply wire. Use a set of slip joint pliers to squeeze the in-line connector to obtain a good connection. Connection may also be made directly to a fuse box via a fuse tap (not supplied.)



8. The black wire of the camera power cable can then be connected to a ground wire in a similar manner. Direct connection to vehicle chassis can also be made if more appropriate.

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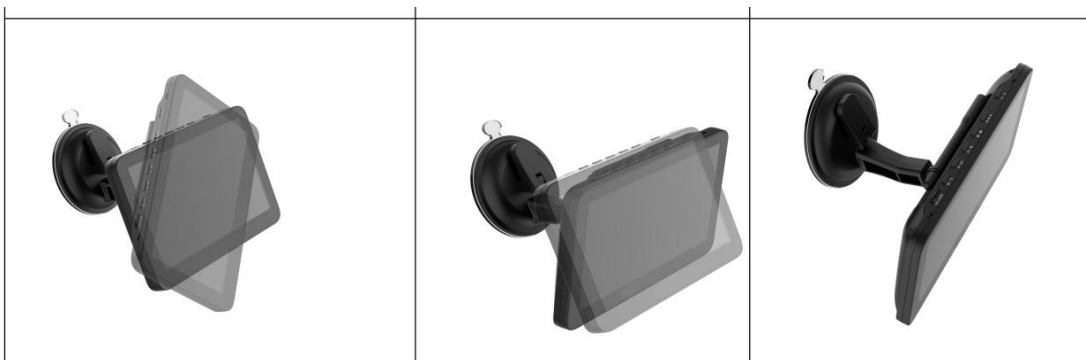
MONITOR INSTALLATION

When choosing a location to mount the monitor, make sure the monitor is in an area that will not obstruct your vision while driving.

1. Before mounting the monitor, clean the mounting surface well.
2. Position the suction mount to the smooth surface which suits your requirement.
3. Press the suction cup against the smooth surface and press the lock down the lever to attach and fix the mount to the surface. Snap in the monitor to the suction mount.



4. Adjust the mounting arms to suit your viewing angle.



5. Route the power cable to the vehicle's cigarette lighter socket 12V/24V power outlet. The cable must not interfere with the safe operation of the vehicle.
6. Insert the small 12V/24V DC plug of the power cable into the back of the monitor.
7. Plug the 12V/24V cigarette lighter plug into the vehicle's cigarette lighter socket.

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To maximize the effectiveness of the suction mount, it is recommended that the application be performed under the following conditions:

- Surface temperature should be between 21 and 38 degrees Celsius.
- Application below 10 degrees should be avoided.
- Application should not occur in direct sunlight.

Mounting should be protected from exposure to direct sunlight for a period of 24 hours.

NOTE: UNDER EXTREME BRIGHT LIGHT CONDITIONS, THE SCREEN IMAGE MAY TAKE A FEW SECONDS TO STABILIZE. PLEASE WAIT UNTIL THE IMAGE HAS STABILIZED BEFORE BACKING UP.

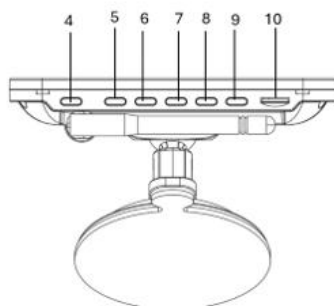
SYSTEM TESTING

1. Re-attach the vehicle's negative battery cable.
2. Turn the ignition key to the accessory position, do not start the vehicle and ensure the parking brake is engaged.
3. After testing the unit and you are satisfied with the route you have chosen for the cabling, you are ready to complete installation.
4. Route all wires behind interior panels or under carpeting so they are hidden. Use supplied cable ties to neatly gather any excess wire.

Please always pair the monitor and camera before the 1st operation, please refer to below "Pairing" step.

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MONITOR OPERATION



4. Power	7. Right/ mute	10. Micro SD card slot
5. Parking guidelines/ back	8. Left/ channels	
6. OK	9. Menu	

POWER ON/ OFF BUTTON (4): Short press to power on /turn off display . Long press for 3 seconds to shut down. Note - the display will turn on by pressing any buttons.

PARKING GUIDELINES DISPLAY /BACK BUTTON (5): Press to show Parking guideline. Press for 3 seconds until it starts flashing , use UP/DOWN button to adjust parking guideline display. Press OK (6) button to confirm.

OK BUTTON (6): Press to confirm selection in the control menu

DOWN/ MUTE BUTTON (7): To navigate down in the control menu

UP/ CHANNEL SWITCHING BUTTON (8): To navigate down in the control menu. To switch between channels (the camera system can support up to 4 cameras).

MENU BUTTON (9): To access the main menu options (general settings/ display/ recording/ system).

MICRO SD CARD SLOT (10): The use of a class 10 Micro SD card (not included) is recommended. Max capacity 128GB. Note – it is recommended new Micro SD cards are formatted before first use.

PAIRING: In the menu screen, select 'general settings' followed by "Pairing". Insert the pin provided into the PAIR hole (7) at the rear of the camera. Wait until the signal is well received by the monitor and "OK" appears on the screen. The unit is now paired and will automatically pair by itself in the future operation. Press the menu button to exit the selection or it will automatically exit after 30s.

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ADDITIONAL CAMERA (MP7412)

The system can support up to 4 cameras and has the option for dual/ quad split screens:



Single Screen



Split Screen



Quad Screen

Additional cameras are available at your local retailer under code MP7412.

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MENU FEATURES

Option	Feature	Options/ description
General Setting	Pairing	Option to pair up to 4 channels
	Date & time setting	Press the UP/ DOWN arrow buttons to adjust the correct date & time. Press the OK button to confirm
	Date & time stamp	Select ON/OFF to activate the date stamp
	LCD auto off	Select ON/OFF to activate the LCD screen saver function. Press the UP/ DOWN arrow button to select the automatic closing time. Press the OK button to confirm
	Volume	Press the UP/ DOWN arrow buttons to adjust the volume. Press the OK button to confirm
Display	Split screen 4 channel	Set the screen display mode when 4 channels are displayed at the same time. Select horizontal or vertical view
	Split screen 2 channel	Set which image channel will be displayed when the left & right screens are displayed in 2-channel display
	Picture	Set the brightness, contrast, colour & direction of each channel
	Parking line	To activate the parking line on each channel.
Recording	Record mode/ manual	Set 1 min, 3 mins or 5 mins manual recording time. Note - in manual recording mode; the recording will stop when the Micro SD card is full
	Record mode/ loop	Set 1 min, 3 mins or 5 mins loop recording time. Note - in loop recording mode; the previous video will be automatically overwritten when the Micro SD card is full
	Motion detector/sensitivity	Off/ low/ medium/ high motion detector sensitivity
	Motion detector/ record	Select ON/ OFF to activate recording on motion detector
	Motion detector/ LCD display	Select ON/ OFF to illuminate the display when motion is detected
	Motion detector/ sound alert	Select ON/ OFF to emit an alarm sound when motion is detected
System	Micro SD card format	Select yes to format Micro SD card. Note - all data will be lost on the Micro SD card after formatting
	Factory re-set	Select yes to re-set the device to the original default settings. Note - the code information & time settings will not be re-set
	System info/ FW version	Firmware version on device. Pressing the down button for 20 seconds will clear any pair codes
	System info/ system upgrade	Shows current firmware version. System firmware can be updated when available. The upgrade requires power at all times & takes approx. 2-3mins

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PLAYBACK FUNCTION

- Press the MENU button for 2 seconds to enter the playback menu.
- Press the UP/DOWN buttons to select the video to be played back.
- Press the OK button to play or pause the video.
- Press the MENU button to exit
- To delete a video; press the UP/DOWN buttons to select the video to be deleted. Press the PARKING GUIDELINE button to select the video to be deleted. Press the OK button to delete the video. NOTE – after the file has been deleted it cannot be recovered.

TECHNICAL SPECIFICATION

Camera	
Operating Voltage	12/24V DC
Current Consumption	<200mA(IRLED OFF); <300mA(IRLED ON)
Image Sensor	1/2.9" CMOS
Viewing angle	120 degrees
Image quality	Max 30fps
No. of pixels	1920 x 1080 FHD
Minimal illumination	2 Lux
Transmission Frequency	2.4G
RF Transmission distance	Up to 50m
Micro SD Card	8-128GB (Class 10 or above)
IP Rating	IP67
Monitor	
Operating Voltage	12/24V DC
Standby Current	<150mA
Operation Current	<300mA
LCD Display Screen Size	5"
No. of pixels	854 x 480
Transmission Frequency	2.4G
Operation Temperature	-10 to 50 Degrees

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ENVIRONMENTAL PROTECTION



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

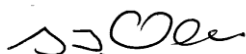
DECLARATION OF CONFORMITY

We declare that this product conforms to the following standards:



EMC directive 2014/30/EU

ROHS directive 2011/65/EU amending Annex (EU) 2015/863 (EU) 2017/2102.



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