

TRADE CATALOGUE



WELCOME TO MOTORMAX

We have vast technical knowledge and installation experience. This enables us to offer the complete service from the procurement of the parts through to technical support. We have taken the time to develop a product range we can be proud of and our experience enables us to understand your requirements and develop equipment to suit.



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NEW TECHNOLOGY



We can now offer a comprehensive range of audible and/or visual warning safety systems. They can display up to 9 warning images together with a voice prompt, informing the driver that something requires immediate attention before proceeding to drive.

These warning systems can be combined with our detection systems allowing for a flexible array of products for all requirements. Obstacle detection notification can be by way of camera overlay and/or our 360 parking sensor technology. This technology can be integrated into a factory OEM screen, or a universal display, to provide drivers the best all round solution for visibility whilst manoeuvring a vehicle.



Warning Alerts

We can provide 9 pre-programmed alert images that can be displayed on screen. These images are unique and can be designed in conjunction with the client. In addition there can be an optional voice prompt that can be provided as part of any solution. Once the alert has been actioned and resolved the screen will return to its normal display state.

Example Warnings:

"Shutter Door Open" "Tail Lift Not Secure" "Crane Not Stowed" "Handbrake Disengaged"

Often these solutions are tailored for a bespoke client requirement.



Camera Overlay

Our technology allows us to provide a platform that looks like a factory fitted solution. We bring together camera viewing combined with our parking sensor technology, to give the driver enhanced visibility whilst manoeuvring a vehicle.

The solution offers 2 video inputs which can be triggered individually, thus allowing for 2 cameras (example: a rear and a side camera). If this is integrated with our DVR system, we can increase the camera triggers accordingly - up to a maximum of 8.



360° Detection System

We have specifically developed sensor solutions with the ambition to offer the safest, most informative sensor detection system in the UK.

This detection system uses anywhere from 4 to 16 ultrasonic sensors to provide the driver a clear indication of obstacles around the vehicle below a pre-defined vehicle speed

The visual display uses a traffic light system at fixed points around the vehicle, allowing drivers of any nationality to understand the display and stay at a safe distance whilst manoeuvring.

Universal Fitment

Through our continual R & D we have designed a safety solution with the largest scope in mind. We have thoroughly considered all end user requirements and designed fitments for all vehicle types. The images for warnings, alerts and camera view can be displayed on any aftermarket screen as well as a range of factory displays.



Power Distribution Unit

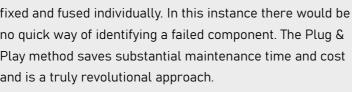
The fuse box supplies all of the components in the Plug & Play system. Each system has an LED beside the named fuse. As default, the LEDs are 'off', If the system is energised, pushing the test button illuminates all of the functional circuit LEDs.

This is as opposed to a system which has every component fixed and fused individually. In this instance there would be no quick way of identifying a failed component. The Plug & Play method saves substantial maintenance time and cost and is a truly revolutional approach.





Motormax fuse box controls are placed in easily accessible areas inside the vehicle. For example, within the Mercedes Sprinter the box is built into the base of the passenger seat behind a removeable protective cover (A). The entire system can also be enclosed within a purposely designed casing to protect components (B).



Plug & Play Wiring Looms

The Plug & Play loom has several major advantages over conventional vehicle wiring approaches. The loom contains pre-existing waterproof sockets and connectors allowing rapid click-connecting module attachment to the loom, leading to the following advantages:

- Minimises off-the-road time: Speed of install and component error analysis is unrivalled.
- Initial install time: Wiring time is saved due to the quick connection of all modules.
- High performance system: Our plug and play wiring systems have an extremely low failure rate.
- Error analysis time: LED indicators identify the failed unit instantaneously. This saves time and cost investigating the entire loom which can be quite inaccessible in places after body is installed. Plus, every issue is easily isolatable.
- Minimises installation margin of error. The loom is installed the same way every time and can only be connected one way creating a simple fit for a professional engineer.

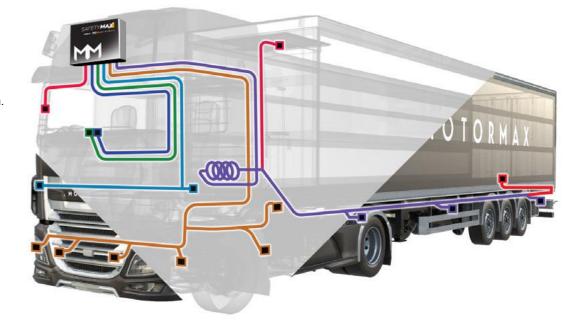


WEATHERPROOF CONNECTORS

Where applicable, super sealed connectors are used for when wet environments are a distinct possibility. Every connector has an integral lock function to ensure plugs remain connected.



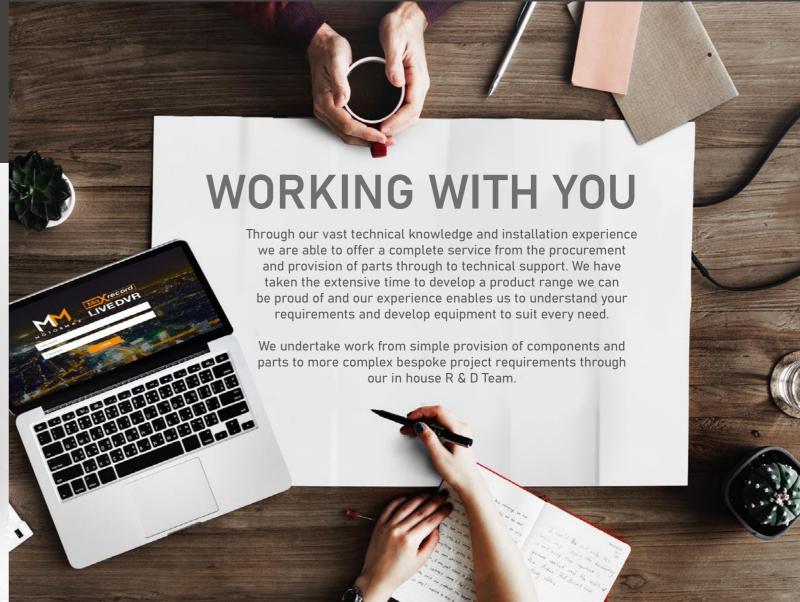
A NEW INDUSTRY STANDARD Individual circuit control is now reality using the Motormax Plug & Play system. Motormax cameras, sensors and alarms all lie on independent circuits enabling quick maintenance and a cleaner install



SAFETY & RECORDING EQUIPMENT



SAFETY & RECORDING



Supporting our customers



When beginning a project we can build a customer portfolio including the following:

- Technical installation documents
- Project specific wiring diagrams
- Bespoke marketing material

DIRECT VISION STANDARD

DIRECT VISION STANDARD



Register this year and prepare for 2024 with Motormax.



Affected London Zones Central London Wide

What is happening?

Vision Zero aims to eliminate all road deaths and serious injuries by 2041. The aim is to ensure the street environment incorporates safe speeds, behaviours, street design and vehicles to target road danger at its core. To achieve this, a Direct Vision Standard (DVS) and a safety permit for all vehicles more than 12 tonne will need to be issued.

Who will require a permit?

Vehicles over 12 tonnes gross vehicle weight (GVW) will require a heavy goods vehicle (HGV) safety permit to be able to operate within Greater London starting from February 2021. They will be issued from October 2019 and will be enforced from February 2021. This is the same date heavy vehicles will need to meet even stronger Low Emission Zone (LEZ) standards within London.

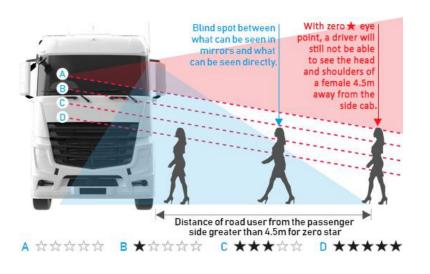
How can Motormax Help?

Part of the upcoming legislation involves improving the driver's ability to see cyclists and pedestrians from a high up cab position. The DVS measures a driver's direct view through the windows of an HGV cab. To indicate the level of risk to people near the vehicle, a star rating system will be put in place, zero stars being poor and five being excellent.



How many stars do I need?

In 2020 any HGV can be registered, even those which would receive a zero star rating. In 2024, there will be a review of the Safe System and the minimum DVS star rating will be increased to three stars. Any additional technology or equipment that becomes available in 2024 will be taken into account. This will be known as the Progressive Safe System and any updates can be suggested in 2022. Vehicles that are rated zero, one and two stars will need to be reviewed and updated in 2024.



FRONT MIRROR DVS Requirement A Class VI mirror must be fitted to the nearside of the vehicle CORNER DETECTION SIDE DETECTION

What equipment do I need?

Mirror Requirement:

In the UNECE Regulation 46.2, class V and VI mirrors should meet the fit requirements.

Rigid Vehicle Sensor Requirement:

Rigid vehicles should ensure that the sensors cover either six metres down the nearside or one metre from the rear of the vehicle, whichever is smaller.

Articulated Vehicle Sensor Requirement:

Tractor units should be suitably positioned to provide sufficient coverage, but preventing activation solely on articulation of the trailer.

Motormax Solutions:

Our corner and side detection sensor kits provide reliable audible and visual warnings for the driver and the pedestrian, ticking every accreditation box.

FORS

Blind Spot Camera:

A fully operational camera monitoring system shall be fitted to the nearside of the vehicle.

Motormax Solutions:

We supply and fit Motormax AHD quality Side Cameras and Monitors available as quad or single screens, fully compatible with Motormax DVR systems.

Rear Signage:

Warning signage must be displayed at the rear of the vehicle, as opposed to instructional signage.





7" Monitor MM7091DM Find out more on page 93



Side Camera MM406SV Find out more on page 74



Left Turn Alarm MMLTA01 Find out more on page 41



Side Detection **MMSSTR** Find out more on page 50



About FORS

The Fleet Operator Recognition Scheme (FORS) encourages and incentivises the safe and sustainable operation of commercial vehicles. From car-derived vans to heavy goods vehicles, the scheme commits to enable all fleet operators to attain and maintain the best possible level of productivity and efficiency with the least impact on society and the environment and to facilitate continuous improvements in operating standards. FORS raises the bar, promotes best practice and provides a recognisable credential through an independent audit, staff training and support material. FORS is now regarded as 'the' accreditation scheme by fleet operators, their clients and enforcement agencies alike.

What equipment do I need?

- A camera system that monitors the near-side vehicle blind spot.
- An in-cab display screen to provide the driver with a view of the near-side blind spot.
- A close proximity sensor and driver audible alert system to alert the driver of other road users in the near-side blind spot.
- Rigid goods vehicles over 7.5 tonnes weight shall be fitted with a camera system that monitors the rear blind spot of the vehicle.





7" Monitor MM7091DM Find out more on page 93



Side Camera MM720SVAHD Find out more on page 47



Side Detection MMSSTR Find out more on page 50



Left Turn Alarm MMLTA01 Find out more on page 41



Reverse Alarm MMRA01 ind out more on page 41





Reverse Camera MMCCV720AHD Find out more on page 40





Digital Video Recorder MMD4CH1TB Find out more on page 24

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FEATURES



All GPS data is recorded directly to the DVR's HDD.



1080p Full HD video footage is recorded and secured on the DVR's HDD.

4G FEATURES



View the live location & speed of connected vehicles via the DVR's GPS.



View live footage from connected vehicles.



Create geo-fencing for individual vehicles. Receive a notification if a vehicle leaves its fence.



Enables a remote health check for the camera equipment installed.



Download historical footage to view and share when required, without taking the vehicle off the road.



Allows the DVR settings to be changed or updated remotely, removing the need for engineer visits.



FEATURES

- Live view footage, GPS & Speed from live vehicles.
- View historical GPS information from offline vehicles.
- Download and save footage from live vehicles to your local directory.
- · Fully customisable structure tree with restricted or admin access for required users.
- Administrators can edit any DVR settings remotely removing the need for site visits.
- Auto download options based on required triggers.

SAFETY EQUIPMENT



Managed User **Profiles**

Example Structure Tree

- Motormax
 - Depot 1
 - + Vehicle 1
 - Vehicle 2
 - Vehicle 3
 - Depot 2
 - Vehicle 1
 - Vehicle 2
 - + Vehicle 3
 - + Depot 3

- · Vehicles can be structured into depots for an easily manageable fleet.
- · Unlimited user logins with customisable access and permissions.

Example Roles



Logistics/Fleet Manager

Access to entire fleet with privileges to view and download any footage/data.



Health & Compliance Manager

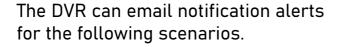
Access to required depot with privileges to view and download any footage/data.



Fleet Administrator

Access to entire fleets report structure. No access to live or historical footage.

Email Alerts



- Video Loss
- Motion Detection
- Trigger Cable Alerts
- Panic Alarm
- Low-Speed
- High-Speed
- Low Voltage
- Geo Fence
- Illegal Shutdown
- DSM Alerts



Live & Historical **Tracking**

- · Live GPS location is laid out on a map with coloured icons displaying the vehicles' current status.
- · Historical GPS data is stored on the server so you can access GPS data for offline & online vehicles.





Reports

The DVR generates and records data. This data is then transferred to the server's data centre where you can view a range of information such as GPS, miles travelled and alarm triggers. This data can also be exported to a spreadsheet format.









VAN SAFETY RECORDING SOLUTION



Front Recording Camera MMD1CH

Find out more on page 23



Front & Rear Parking Sensors MM05FS & MM05MB

Find out more on pages 132 & 129



Secondary Camera Range Available

Any D1 or 720P AHD camera

VAN DVR RECORDING SOLUTION



5 Channel DVR MMD4CH

Find out more on page 24



AHD Side Cameras MM720SVAHD

Find out more on page 47



6.2" Mirror Monitor MM620MON

Find out more on page 95



Brake Light Camera Large Range Available

Find out more on pages 80-88







AHD Front Camera MM4P-1080

Find out more on page 44





Reverse Alarm MMRA01 Find out more on page 41

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SAFETY EQUIPMENT



TRUCK RECORDING & SAFETY SOLUTION



5 Channel DVR MMD4CH

Find out more on page 24



AHD Side Cameras MM720SVAHD

Find out more on page 47



7" AHD Monitor MM7041DM

Find out more on page 93



AHD Rear Camera MMCCV720AHD Find out more on page 46







AHD Front Camera MM4P-1080

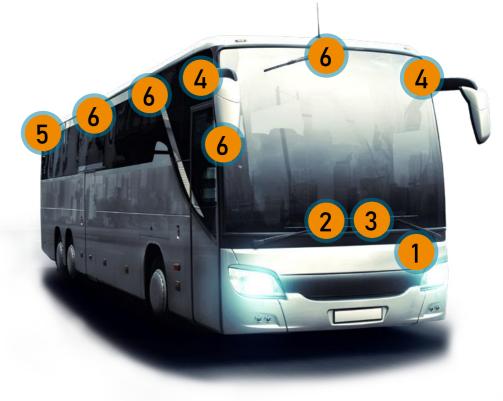
Find out more on page 44





Side Detection **MMSSTR**

Find out more on page 50



COACH DVR RECORDING SOLUTION



16 Channel DVR MMD16CH

Find out more on page 30



AHD Side Cameras MM720SVAHD Find out more on page 47



7" AHD Monitor MM7041DM Find out more on page 93





AHD Rear Camera MMCCV720AHD Find out more on page 46





AHD Front Camera MM4P-1080 Find out more on page 44





AHD Internal Cameras MM921RAHD Find out more on page 45

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SAFETY EQUIPMENT

Applicable Vehicles

If you are interested in a solution for a vehicle type that is not listed before, please contact our sales team for further information.





Van

Container Truck











Tanker

Box Truck



Luton Van



Flat Bed



Crane Truck



Crane Truck



Coach & Bus

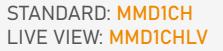


Tractor Unit



Transporter







Forward Facing Camera

OVERVIEW

- · Supports 3G/4G*, GPS, WiFi.
- · 1x SD card slot. (Max 256GB)
- · Lockable unit for anti-tamper design.
- *Live model only

- · High quality aluminum shell.
- Supports additional D1 or AHD 4 pin camera.
- Resolution 1080p. Frame Rate 30fps.

DIMENSIONS



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SD CARDS

32GB: MMSDCS32 64GB: MMSDCS64

128GB: MMSDCS128 256GB: MMSDCS256

SAFETY EQUIPMENT



NON LIVE 1TB: MMD4CH1TB LIVE VIEW 1TB: MMD4CHLV1TB

5 Channel DVR



OVERVIEW

Standard Features

- 4 Channel AHD 1080P + 1 Channel IPC 1080P
- Supplied with choice of storage. (500GB, 1TB, 2TB)
- Built-in GPS for vehicle tracking
- 1 Video output
- Trigger cable 8 Inputs/2 Outputs

Live View Features

- Built-in 4G module for connection to live view system
- Live view management software

DIMENSIONS

Front Panel



Rear Panel



Dimensions	Dimension (LxWxH)	206.0 x 170.0 x 70.4 mm	
Dimensions	Weight	1.24KG	
Environment	Operating Temperature	-10°C +70°C : -40°C +70°C (With heater)	
	Operating Relative Humidity	8%-90% (No condense)	

Full Specification 0S Linux 3.0.8 System Control Mode Easy Check, network*, CP4, mouse (3G/4G/Wifi*) 4 Channels AHD 1080P+1 Channel 1080P IPC Output PAL: 4*720P@25fps+1*1080P@30fps 4*1080P@12fps+1*1080P@30fps Video Total Resource NTSC: 4*720P@30fps+1*1080P@30fps 4*1080P@15fps+1*1080P@30fps Electrical level: 1Vpp Impedance: 75Ω NTSC/PAL optional Video Signal Standard Support setting AHD camera OSD 5 Channels (1 Channel IPC) Input Audio Output 1 Channel Audio Signal Standard Electrical level: 2Vpp input impredance 4.8k Display Split Display Channel Number, GPS, Alarm, Vehicle Number, Speed, Date & Time Operation Interface Semi-transparent GUI Video: H.265/H.264 Video/Audio Compression Audio: ADPCM (G.711A, G711U optional) PAL: 1080P(1920X1080), 720P(1280X720), WD1(928X576) WHD1(928X288), WCIF(464X288), D1(704X576), HD1(704x288), CIF(352x288) NTSC: 1080P(1920X1080), 720P(1280X720), WD1(928X480), Image Resolution WHD1(928X240), WCIF(464X240), D1(704x480), Recording HD1(704x240),CIF(352x240); Digital: 1080P(1920X1080), 720P(1280X720) 1-8 Adjustable levels Image Quality Boot up / Schedule / Alarm / Manual Recording Mode 0-60 Minutes Pre-recording Post-recording 0-30 Minutes Playback Channel 1 Channel by local playback Playback Search Mode Date & time, Channel, event EVDO / WCDMA / TDD-LTE / FDD-LTE 3G/4G Optional 802.11b/g/n Network* Network Connection Wifi / 3G / 4G IPC Ethernet 6-pin M12 (10/100M x 1, PON Power Supply) Locating GPS Location tracking, Speed Detection and Time sync Storage HDD 2.5" SATA HDD or SSD USB USB2.0 x 1 SIM 1x SIM Slot RS232 2x RS232 Interface RS485 Does not support 8 Inputs & 2 Outputs Speed 1 Channel pulse speed detection Inter Communication I MIC Interface DC8-36V, ACC Output 5V@1A Power Max Power Consumption 32W 0W Standby Power Consumption

^{*}Live model only

SAFETY EQUIPMENT



LIVE VIEW 1TB: MMD6CHLV1TB

8 Channel DVR



OVERVIEW

Standard Features

- 6 Channel AHD 1080P + 2 Channel IPC 1080P
- Supplied with choice of storage. (500GB, 1TB, 2TB)
- Built-in GPS for vehicle tracking
- 1 Video output
- Trigger cable 8 Inputs/2 Outputs

Live View Features

- Built-in 4G module for connection to live view system
- Live view management software

DIMENSIONS

Front Panel



Rear Panel



Dimensions	Dimension (LxWxH)	252 x 167.2 x 88.7 (With bracket and rear shield)	
Dimensions	Weight	2.2KG	
F	Operating Temperature	-40°C +70°C : -40°C +55°C (With heater)	
Environment	Operating Relative Humidity	8%-90% (No condense)	

	Ful	l Specification		
	0S	Linux		
System	Control Mode	Easy Check, network*, CP4, mouse (3G/4G/Wifi*)		
	Input	6 Channels AHD + 2 Channels IPC		
Video	Output	2 Channel (CP4+VGA)		
	Video Signal Standard	Electrical level: 1Vpp Impedance: 75Ω NTSC/PAL optional		
	Input	8 Channels		
Audio	Output	1 Channel		
	Audio Signal Standard	Electrical level: 2Vpp input impredance 4.7k		
	Display Split	1/4/9		
Display	OSD	GPS, Alarm, Vehicle Plate, Speed, Time, Etc.		
	Operation Interface	Semi-transparent GUI		
	Video/Audio Compression	Video: H.265/H.264		
	Video/Addio compression	Audio: ADPCM (G.711A, G711U)		
Recording	Image Resolution	PAL: 1080P(1920X1080), 720P(1280X720), WD1(928X576), WHD1(928X288), WCIF(464X288), D1(704X576), HD1(704x288), CIF(352x288) NTSC: 1080P(1920X1080), 720P(1280X720), WD1(928X480), WHD1(928X240), WCIF(464X240), D1(704x480), HD1(704x480), HD1(704x240), CIF(352x240); Digital: 1080P(1920X1080), 720P(1280X720)		
	Image Quality	1-8 Adjustable levels		
	Recording Mode	Schedule/Alarm(sensor trigger, speed, acceleration, video loss, temperature)		
	Pre/Post Recording	Pre - 0-60min / Post - 0-30min		
Playback	Playback Channel	1/4 channel by local playback, supports WEB 1/4/8 channel by local playback		
Гіаураск	Search Mode	Date & time, Channel, event		
	3G/4G Optional	EVDO/TD-SCDMA/WCDMA/TDD-LTE/FDD-LTE		
Network*	Wifi	802.11b/g/n		
Network	Ethernet	RJ45 x 1 (10/100 M/1000M)		
	IPC Ethernet	2 x 6-pin DIN JACK (10/100M PON port, power supply)		
Locating	GPS	Location tracking, speed detection and time sync		
Storage	HDD & SD Card	Supports 2.5" HDD or SSD up to 2TB & 1 x SD (Max 256GB)		
	USB	1 x USB2.0(Type A) + 1 x USB2.0(Type B)		
	SIM*	1x SIM Slot*		
	Serial	2 x RS232, 1 x RS485, 1 x CAN		
Interface	1/0	8 Inputs & 2 Outputs		
	Speed	1 Channel pulse speed detection		
	Control Panel	CP4		
	Inter Communication	1x MIC Interface		
	Input	DC8-36V, ACC		
Power	Output	5V@500mA, 12V@500mA		
	Max Power / Standby Power Consumption	6.75W / 0W		

^{*}Live model only

SAFETY EQUIPMENT







OVERVIEW

Standard Features

- · 8 Channel AHD 1080P + 4 Channel IPC 1080P
- Supplied with choice of storage. (1TB, 2TB, 4TB)
- Built-in GPS for vehicle tracking
- 2 Video outputs
- Trigger cable 8 Inputs/2 Outputs

Live View Features

- Built-in 4G module for connection to live view system
- Live view management software

DIMENSIONS

Front Panel



Rear Panel



Dimensions	Dimension (LxWxH)	295 x 222 x 89 mm	
Dimensions	Weight	2.6KG	
Farinament	Operating Temperature	-10°C +70°C : -40°C +70°C (With heater)	
Environment	Operating Relative Humidity	8%-90%	

Full Specification				
Contain	0\$	Linux 3.0.8		
System	Control Mode	Easy Check, network*, CP4, mouse (3G/4G/Wifi*)		
	Input	8 Channels AHD + 4 Channels IPC		
	Output	2 Channel		
Video	Total Resource	PAL: 8*720P@25FPS (AHD) +4*1080P@30FPS (IPC) Or 8*1080P@12FPS (AHD) +4*1080P@30FPS (IPC) NTSC: 8*720P@30FPS (AHD)+4*1080P@30FPS (IPC) Or 8*1080P@15FPS (AHD)+4*1080P@30FPS (IPC)		
	Video Signal Standard	Electrical level: 1Vpp Impedance: 75Ω NTSC/PAL optional		
	Input	12 Channels		
Audio	Output	2 Channel		
	Audio Signal Standard	Electrical level: 2Vpp input impredance 4.7k		
	Display Split	1/4/9		
Display	OSD	GPS information, alarm, temperature, acceleration, voltage, device information, softwar version, MCU version, network status		
	Operation Interface	Semi-transparent GUI		
	Video/Audio Compression	Video: H.264		
	Video/Audio Compression	Audio: ADPCM (G.711A, G711U optional)		
Recording	Image Resolution	PAL: 1080P, 720P, WD1(928X576), WHD1(928X288), WCIF(464X288), D1(704X576), HD1(704x288), CIF(352x288); NTSC:1080P, 720P, WD1(928X480), WHD1(928X240), WCIF(464X240), D1(704x480), HD1(704x240), CIF(352x240); Digital: 720P(1280X720)		
	Image Quality	1-8 Adjustable levels		
	Recording Mode	Schedule/Alarm(sensor trigger, speed, acceleration, video loss, temperature)		
	Mirror / Dual Recording	Yes		
District	Playback Channel	4 Channels by local playback		
Playback	Search Mode	Date & time, Channel, event		
	3G/4G Optional	EVDO / WCDMA / TDD-LTE / FDD-LTE		
Natura eta*	Wifi	802.11b/g/n		
Network*	Ethernet	RJ45 x 1 (10/100 M/1000M)		
	IPC Ethernet	6-pin M12 (4x10/100M, PON power supply)		
Locating	GPS	Location tracking, speed detection and time sync		
Storage	HDD & SD Card	Supports 2.5" HDD or SSD up to 2TB & 1 x SD (Max 256GB)		
	USB	2x USB2.0		
	SIM*	2x SIM Slot*		
	RS232 / RS485	2x RS232 / 2x RS485		
Interface	Sensor	8 Inputs & 2 Outputs		
	Speed	1 Channel pulse speed detection		
	Inter Communication	1x MIC Interface		
	Input	DC8-36V, ACC		
Power	Output	5V@500mA, 12V@500mA		
	Max Power / Standby Power Consumption	105.3W / 0W		

^{*}Live model only

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SAFETY EQUIPMENT



NON LIVE 2TB: MMD16CH2TB NON LIVE 4TB: MMD16CH4TB LIVE VIEW 4TB: MMD16CHLV4TB



16 Channel DVR

OVERVIEW

Standard Features

- 8 Channel AHD 1080P + 8 Channel IPC 1080P
- Supplied with choice of storage. (1TB, 2TB, 4TB)
- Built-in GPS for vehicle tracking
- 2 Video outputs
- Trigger cable 8 Inputs/2 Outputs

Live View Features

- Built-in 4G module for connection to live view system
- Live view management software

DIMENSIONS

Front Panel



Rear Panel



Dimensions	Dimension (LxWxH)	(LxWxH) 324.6 x 238 x 115.5	
Environment	Operating Temperature	-40°C to +85°C (Storage) : -40°C to +70°C (With Heating)	
	Operating Relative Humidity	8%-90%	

	Full	Specification	
Custom	0S	Linux 3.18.20	
System	Control Mode	Easy Check, network*, CP4, mouse (3G/4G/Wifi*)	
) (C.)	Input	8 Channels AHD + 8 Channels IPC	
Video	Output	1 channel CVBS; 1 channel VGA (supports 1080P backward compatible with 720P)	
Audia	Input	8 Channes	
Audio	Output	2 Channel	
	Display Split	1/4/9	
Display	OSD	GPS information, alarm, temperature, acceleration, voltage, device information, software version, MCU version, network status	
	Operation Interface	Graphical user interface	
	Video/Audio Compression	Video: H.264 / H.265	
Recording	Image Resolution	Audio: ADPCM (G.711A, G711U optional) PAL: 1080P,720P,WD1(928X576),WHD1(928X288), WCIF(464X288),D1(704X576),HD1(704x288),CIF(352x288); NTSC: 1080P,720P,WD1(928X480),WHD1(928X240), WCIF(464X240),D1(704x480),HD1(704x240),CIF(352x240); Digital: 1080P(1920X1080),720P(1280X720).	
	Image Quality	1-8 Adjustable levels	
	Recording Mode	Boots up/schedule/alarm event recording	
	Pre & Post Recording	Pre 0-60 Minutes / Post 0-30 Minutes	
Playback	Playback Channel	Local: supports 1/4/9 channels (single channel main stream, multi-channel sub s WEB: supports 1/4/9 channel synchronous playback	
	Search Mode	Date & time, Channel, Event	
	Wire	LAN:1000M/100M(RJ45 without light)	
Network*	Wile	WAN:1000M/100M(RJ45 without light)	
Network	Wr. I	WIFI: supports 802.11b/g/n/ac	
	Wireless	3G/4G: Supports one (support remote wake-up)	
Locating	GPS	Location tracking, speed detection and time sync	
Sensor	G Sensor	6 Axis	
Storage	HDD & SD Card	Supports 2.5" HDD or SSD up to 2TB & 1 x SD (Max 256GB)	
	USB	1 x USB2.0 (Type A) + 1 x USB2.0 (Type B)	
	SIM*	1 x PUSH-PUSH SIM card slot	
1.1.	RS232 / RS485	2 x RS232, 2 x RS485,2 x CAN	
Interface	Sensor	8 Inputs & 2 Outputs	
	Speed	1 Channel pulse speed detection	
	Inter Communication	1x MIC Interface	
	Input	DC8-36V, ACC	
Power	Output	5V@500mA, 12V@500mA	
	Max Power / Standby Power Consumption	80W / 0W	

*Live model only

SAFETY EQUIPMENT



NON LIVE 10TB: MMD16CH10TB LIVE VIEW 10TB: MMD16CHLV10TB

16 Channel DVR



OVERVIEW

Standard Features

- 8 Channel AHD 1080P + 8 Channel IPC 1080P
- Supplied with choice of storage. (6TB, 8TB, 10TB)
- Built-in GPS for vehicle tracking
- 2 Video outputs
- Trigger cable 8 Inputs/2 Outputs

Live View Features

- Built-in 4G module for connection to live view system
- Live view management software

DIMENSIONS

Front Panel



Rear Panel



Dimensions	Dimension (LxWxH) 324.6 x 238 x 115.5	
Environment	Operating Temperature	-40°C to +85°C (Storage) : -40°C to +70°C (With Heating)
Environment	Operating Relative Humidity	8%-90%

Full Specification				
Custom	0S	Linux 3.18.20		
System	Control Mode	Easy Check, network*, CP4, mouse (3G/4G/Wifi*)		
VC 4	Input	8 Channels AHD + 8 Channels IPC		
Video	Output	1 channel CVBS; 1 channel VGA (supports 1080P backward compatible with 720P)		
Audia	Input	8 Channes		
Audio	Output	2 Channel		
	Display Split	1/4/9		
Display	OSD	GPS information, alarm, temperature, acceleration, voltage, device information, software version, MCU version, network status		
	Operation Interface	Graphical user interface		
	Video/Audio Compression	Video: H.264 / H.265		
	video/Addio compression	Audio: ADPCM (G.711A, G711U optional)		
Recording	Image Resolution	PAL: 1080P,720P,WD1(928X576),WHD1(928X288), WCIF(464X288),D1(704X576),HD1(704x288),CIF(352x288); NTSC: 1080P,720P,WD1(928X480),WHD1(928X240), WCIF(464X240),D1(704x480),HD1(704x240),CIF(352x240); Digital: 1080P(1920X1080),720P(1280X720).		
	Image Quality	1-8 Adjustable levels		
	Recording Mode	Boots up/schedule/alarm event recording		
	Pre & Post Recording	Pre 0-60 Minutes / Post 0-30 Minutes		
Playback	Playback Channel	Local: supports 1/4/9 channels (single channel main stream, multi-channel sub strear WEB: supports 1/4/9 channel synchronous playback		
	Search Mode	Date & time, Channel, Event		
	Wire	LAN:1000M/100M(RJ45 without light)		
Network*	Wile	WAN:1000M/100M(RJ45 without light)		
Network	Wireless	WIFI: supports 802.11b/g/n/ac		
	WII etess	3G/4G: Supports one (support remote wake-up)		
Locating	GPS	Location tracking, speed detection and time sync		
Sensor	G Sensor	6 Axis		
Storage	HDD & SD Card	Supports 2.5" HDD or SSD up to 2TB & 1 x SD (Max 256GB)		
	USB	1 x USB2.0 (Type A) + 1 x USB2.0 (Type B)		
	SIM*	1 x PUSH-PUSH SIM card slot		
	RS232 / RS485	2 x RS232, 2 x RS485,2 x CAN		
Interface	Sensor	8 Inputs & 2 Outputs		
	Speed	1 Channel pulse speed detection		
	Inter Communication	1x MIC Interface		
	Input	DC8-36V, ACC		
Power	Output	5V@500mA, 12V@500mA		
	Max Power / Standby Power Consumption	80W / 0W		

*Live model only

SAFETY EQUIPMENT

AI SYSTEMS





- Al system are designed for incident prevention.
- · Allows connectivity of Blind Spot Detection, Lane Depature System and Driver Awareness Camera.
- High precision sensing algorithm, real time analysis and alarm.
- Data can be automatically uploaded and stored to the evidence centre.
- · Compatible with our entire DVR range.
- · Can be connected to an external monitor.





ADAS



BSD



DSM

ADAS ADVANCED DRIVER ASSISTANCE SYSTEM



- Lane Depature Warning The ADAS system detects if the vehicle is swerving from the centre of the road and gives the driver an audible alarm.
- Front Collision Warning Detects if the driver is too close to the vehicle in front and gives the driver an audible alarm.
- These events can automatically be uploaded to the evidence centre, this can help create driver behaviour profiles.
- 1080p Camera.



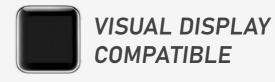






Lane Departure Warning

Front Collision Warning

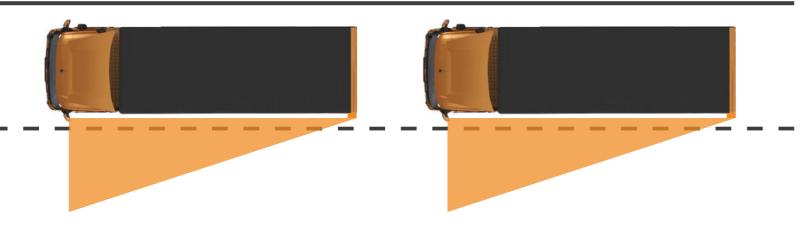


SAFETY EQUIPMENT

D BLIND SPOT DETECTION



- Blind spot detection is designed to eliminate incidents caused through lack of vision in the blind spot.
- Connects to visual display to alert the driver of any hazards.
- 1080p Camera resolution.
- These events can automatically be uploaded to the evidence centre, helping create driver behaviour profiles.



Vehicle Detection

Cyclist Detection





- Fatigue Sensor Alerts the driver with an audible alarm if the camera detects the driver's eyes closing.
- Distraction Sensor Detects if the driver is distracted for a prolonged period of time. An audio alarm will play to alert the driver.
- Mobile Phone Detection Detects if the driver is on their mobile phone. An audio alarm will play to alert the driver until the phone is no longer
- These events can automatically be uploaded to the evidence centre, helping create driver behaviour profiles.



Smoking

Detects if the driver is smoking



Fatigue

Detects if the driver is tired



Mobile Phone

Detects mobile phone usage





Distraction

Detects if the driver is distracted





VISUAL DISPLAY COMPATIBLE

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Accessories

Easy Check



Allows you to change DVR settings or view data from a mobile device or tablet.

MMEASYCHECK

5 Channel Reader



Allows you to connect a 5 channel DVR HDD caddy to a PC.

MMD4CH-HDR



Mini Visual Display



The mini visual display provides the driver with a realtime audio and visual alert of the AI systems.

MMAI-VD

Accessories

LED Panel



LED lights display the current status of the DVR. Also includes panic button.

MMD-LEDP

12 Channel Alarm Cable



This cable connects to the DVR allowing you to take alarm and events from the vehicle.

MMD8CH-ATC

5 Channel Alarm Cable



This cable connects to the DVR allowing you to take alarm and events from the vehicle.

MMD4CH-ATC

5 Channel Caddy



1TB - MMD4CH-CD1 2TB - MMD4CH-CD2

8 Channel Caddy



500GB - MMD6CH-CD500 1TB - MM64CH-CD1 2TB - MMD6CH-CD2

IPC Extension Cable



3M - MMIP-3MEXT 5M - MMIP-5MEXT 10M - MMIP-10MEXT 20M - MMIP-20MEXT

DVR Video Out Cable





12 Channel Caddy



4 Channel PON Switch



Allows you to connect an additional 4 IP cameras to a DVR.

MMD-PONSW

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Accessories

Alarms

Alarm Trigger Box



Suzi 7 Pin Cable



MMSUZI7P

Suzi 7 Pin Cable



Mini Suzi Cable



DVR 7" Control Monitor



- · Control Panel Control our DVR range using our dedicated DVR monitor.
- · Sign in Can be used to log a driver's working hours.
- Voice Broadcast 2 way communication via the Max Record software.

MMDM7

Reverse Alarm







- 12-24V
- 95dB
- Dimensions -100mm x 70mm
- **IP67**
- Epoxy sealed
- Double Engage Feature

MMRA01

White Noise Reverse Alarm







- 12-24V
- 95dB
- Dimensions -100mm x 70mm
- IP67
- Epoxy sealed
- White noise feature

MMRAWN

Left Turn Alarm



- 12-24V
- 100dB
- Talking alarm
- Epoxy sealed
- Dimensions 100mm x 70mm

MMLTA-01

Right Turn Alarm



- 12-24V
- 85dB
- Talking alarm
- IP67
- Epoxy sealed
- Dimensions 75mm x 76mm
- Single bolt fixing

MMAVR15-R

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Accessories

Indicator Module



Stabilises a pulsing indicator feed to a solid 12-24v output.

MMINDMOD

Speed Switch Analogue



Allows you to turn off certain pieces of equipment, disengaging them above a certain speed.

12-24V

MMSPSW

Speed Switch CAN Box



Reads the vehicle's speed from the CAN network and supplies an output up to 12MPH.



MMCANSS

Multi Purpose CAN Box



Reads the vehicle's CAN network and supplies the following.

- Speed under

MMCANMP

SCANIA Integration Cable



Integrate a camera into a Scania R series factory headunit.

MM-SCANIA-CR

VOLVO Integration Cable



Integrate a camera into a Volvo factory headunit.

Please note: The video ECU has to be fitted from factory for integration to be possible.

> 12V Dropper - MMVOL-CAMINT DVR Usage - MMVOL-DVRINT

Multi Purpose CAN Box



Reads the vehicle's CAN network and supplies the following

- Left Indicator under 15MPH
- Right Indicator under 15MPH
- Reverse
- Speed under 15MPH



MMCAMSCAN

CAN Click



Accessories

4 Pin Extension Cables



1M - MM4PINDIN1M 3M - MM4PINDIN3M 5M - MM4PINDIN5M 10M - MM4PINDIN10M 20M - MM4PINDIN20M

4 Pin Din Splitter

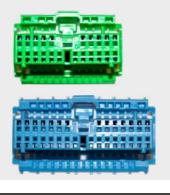


30mm Side Camera Wedge



MMSVSM

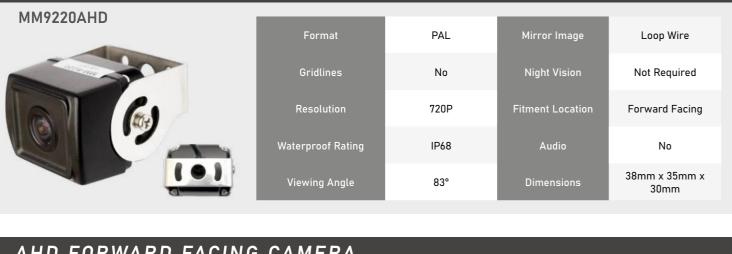
Pins and plugs



A range of pins and plugs are available on request.

AHD & IP CAMERAS

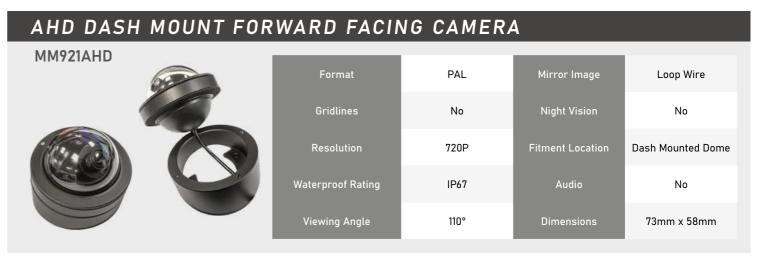
AHD FORWARD FACING CAMERA MM9220AHD Format PAL Loop Wire Gridlines No Night Vision Not Required Resolution 720P Fitment Location Forward Facing **Waterproof Rating** IP68 Audio No 38mm x 35mm x 83°

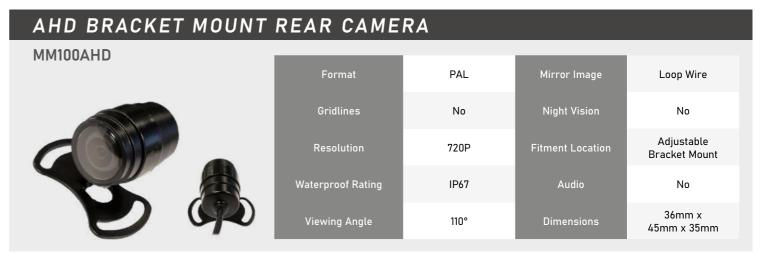












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AHD & IP CAMERAS

AHD & IP CAMERAS

AHD BRACKET MOUNT REAR CAMERA

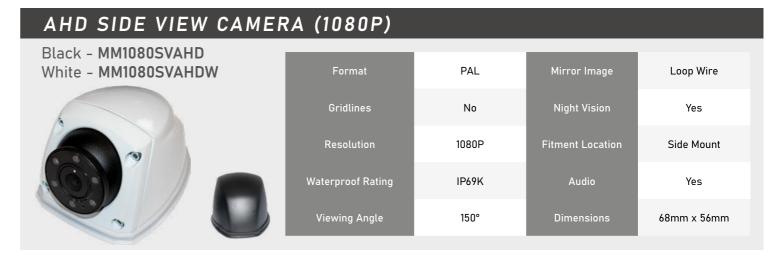
720P - MMCCV720AHD 1080P - MMCCV1080AHD

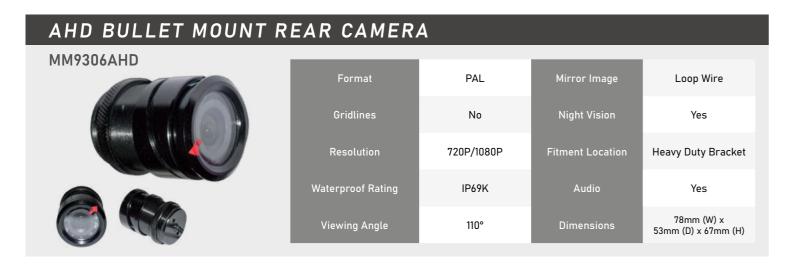


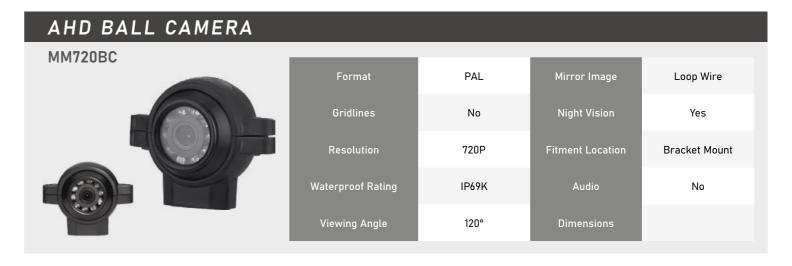
Format	PAL	Mirror Image	Loop Wire	
Gridlines	No	Night Vision	Yes	
Resolution	720P/1080P	Fitment Location	Heavy Duty Bracket	
Waterproof Rating	IP69K	Audio	Yes	
Viewing Angle	110°	Dimensions	78mm (W) x 53mm (D) x 67mm (H)	

AHD SIDE VIEW CAMERA (720P)					
Black - MM720SVAHD White - MM720SVAHDW	Format	PAL	Mirror Image	Loop Wire	
	Gridlines	No	Night Vision	Yes	
	Resolution	720P	Fitment Location	Side Mount	
	Waterproof Rating	IP69K	Audio	Yes	
	Viewing Angle	150°	Dimensions	68mm x 56mm	

AHD REAR CAMERA MM602AHD Format PAL Supported Gridlines Yes No Night Vision Resolution 960P Rear Screw Mount IP69K Audio No Waterproof Rating 0 000 000 Viewing Angle 150° 200mm x 28mm x 26mm







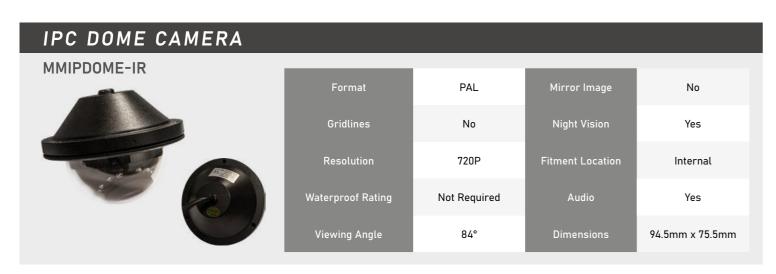
AHD & IP CAMERAS

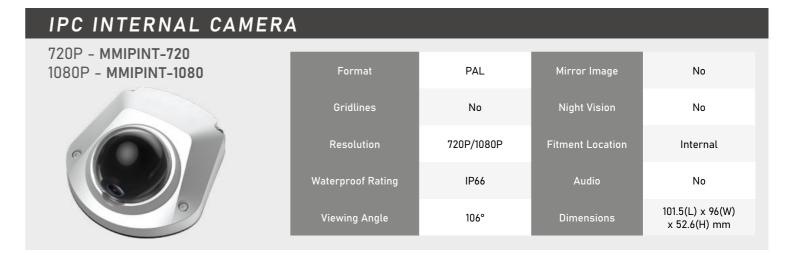
AHD & IP CAMERAS

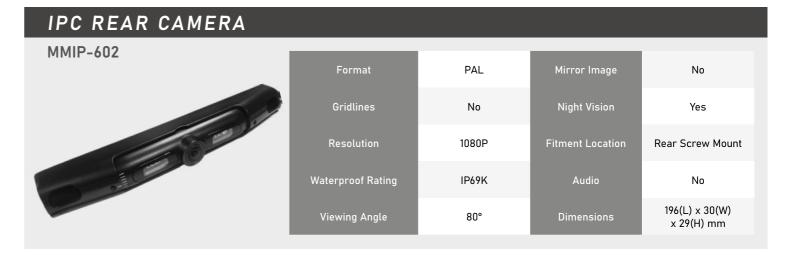


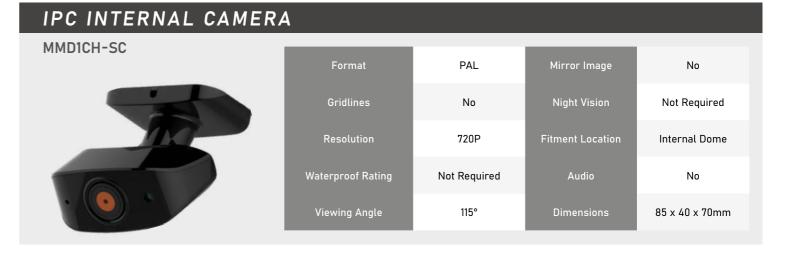












SIDE DETECTION





OVERLAY SYSTEM

MMSSOL



FEATURES

24V Power

Sensor Detection Range: 0-1.5M

IP69K

Display Range: 0-1.5M Buzzer Range: 0-1M

Monitor Visual Overlay

Variety of sensor heads available

BUZZER SYSTEM

MMSSTR



FEATURES

24V Power

Sensor Detection Range: 0-1.5M/0-1M

Buzzer Range: 0-1M

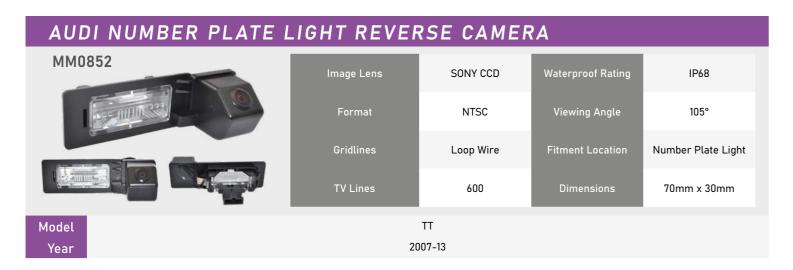
IP69K

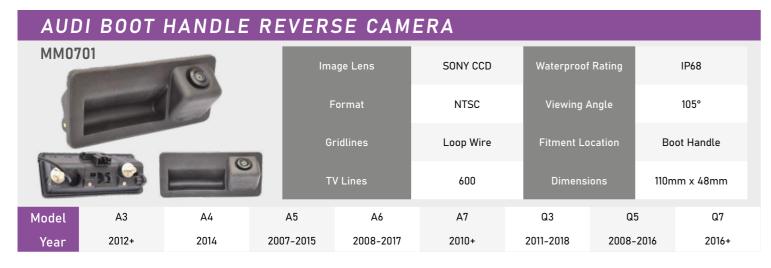
Audible buzzer

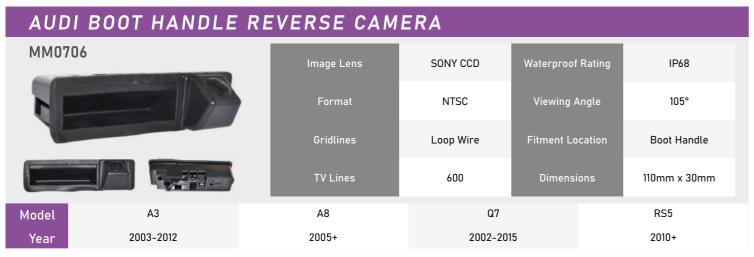
Variety of sensor heads available

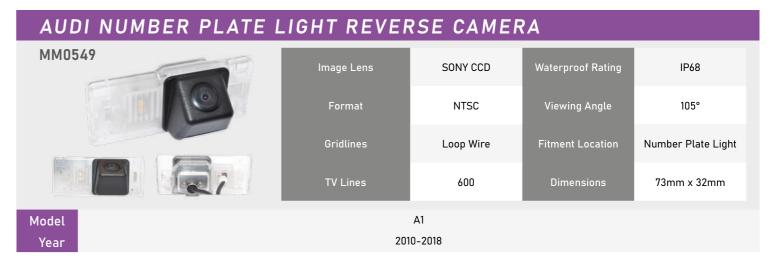


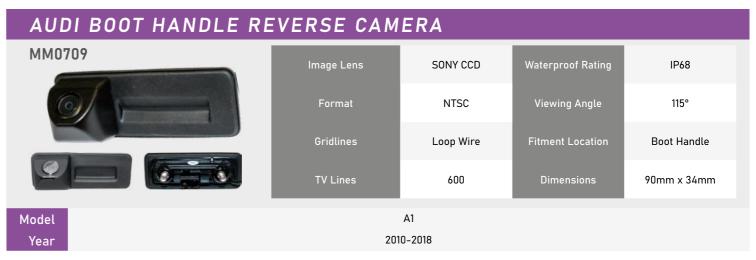
CAMERA SOLUTIONS









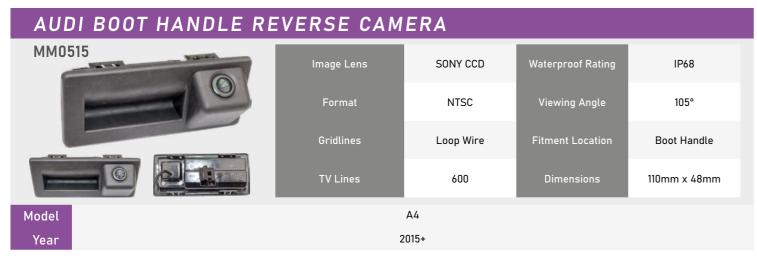


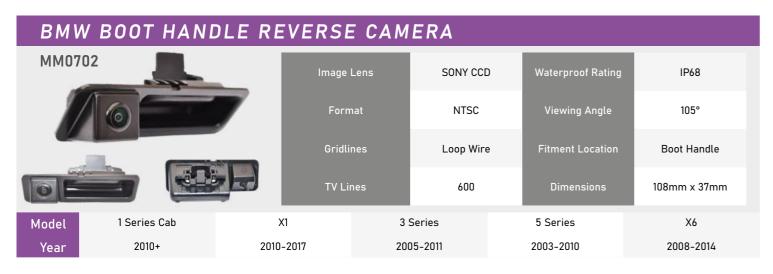


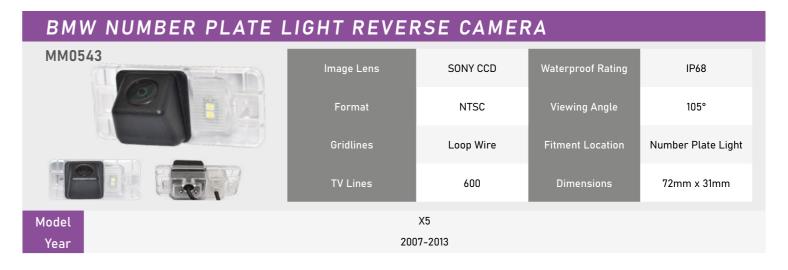
52 I

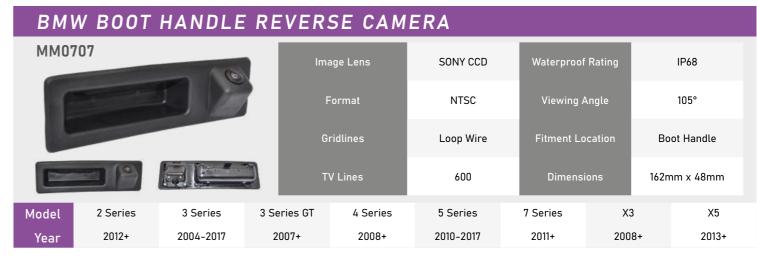
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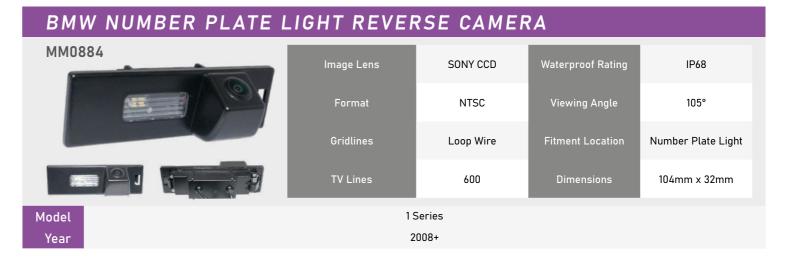




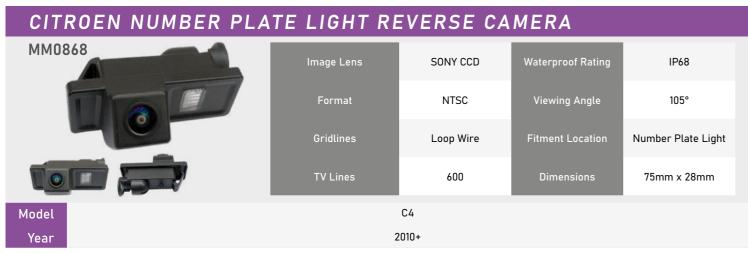


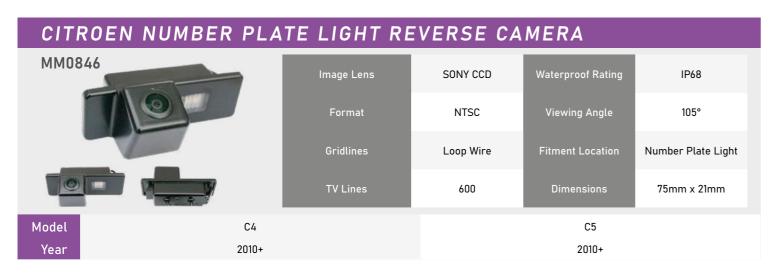


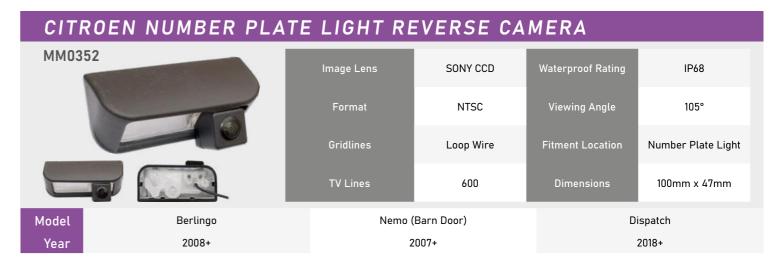


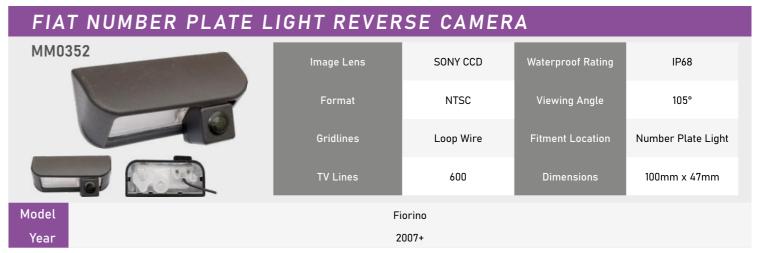


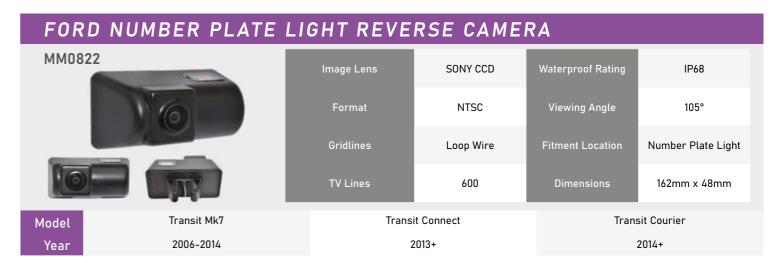




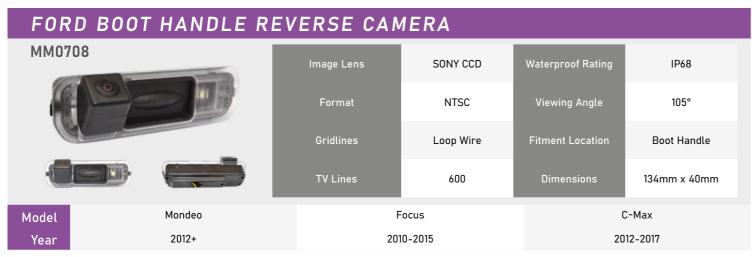






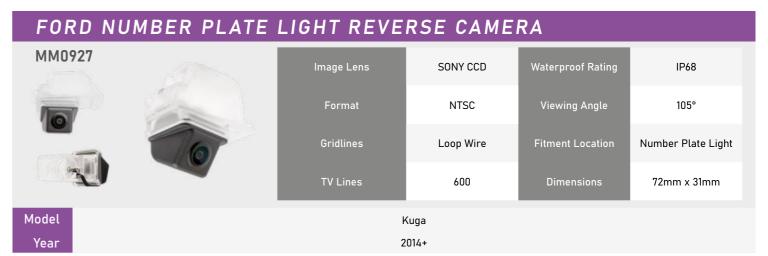


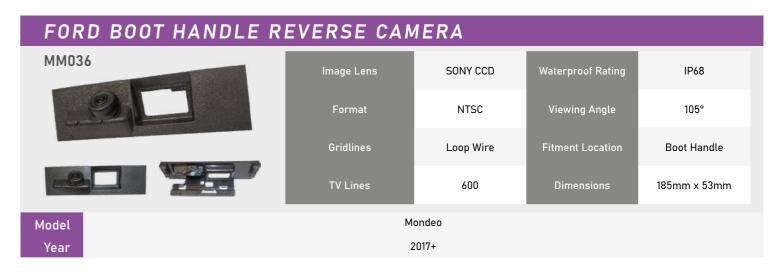




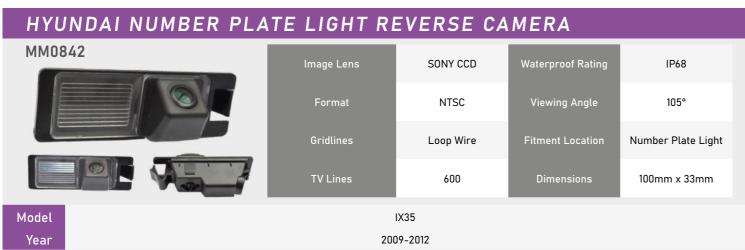


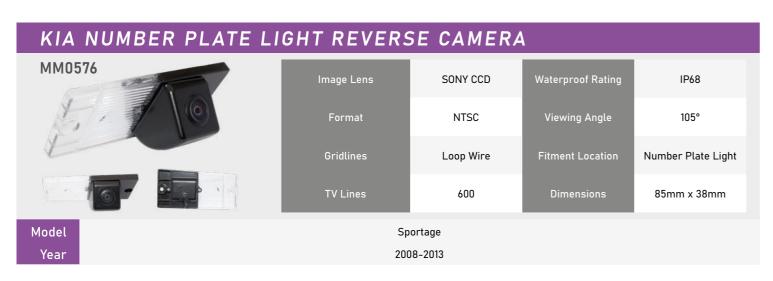


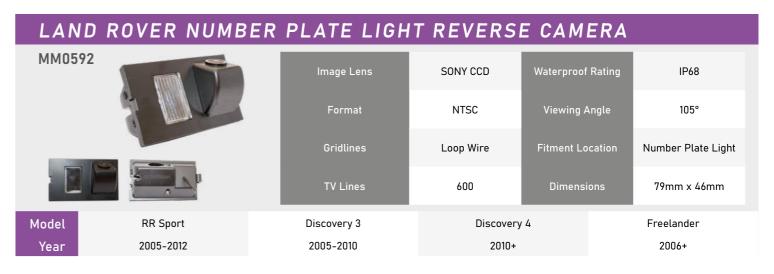


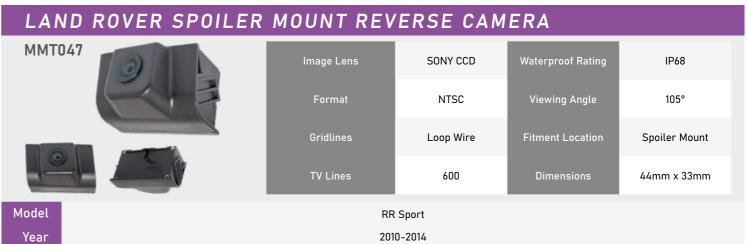




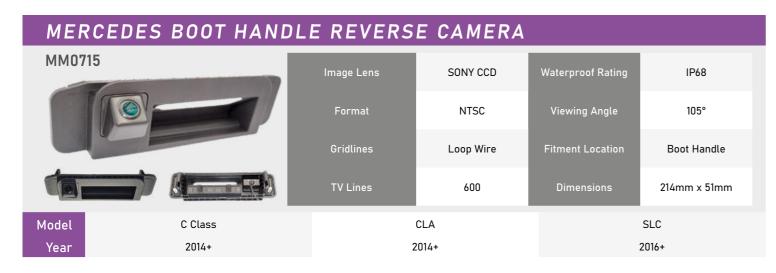


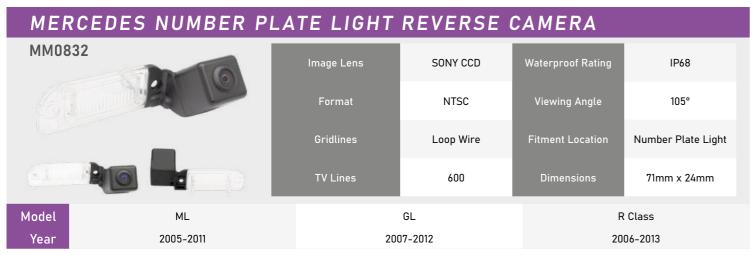


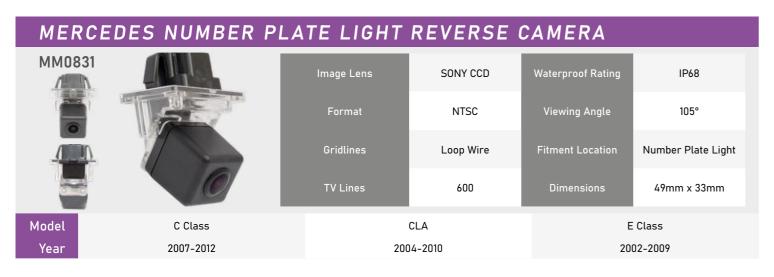


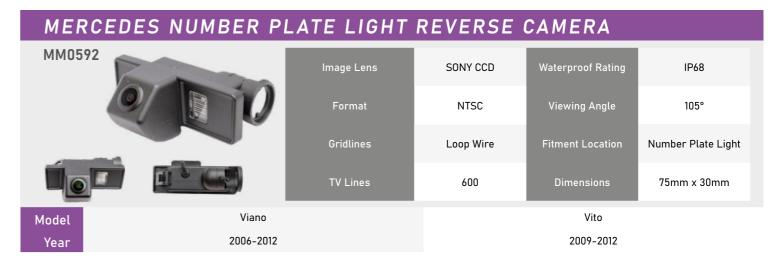


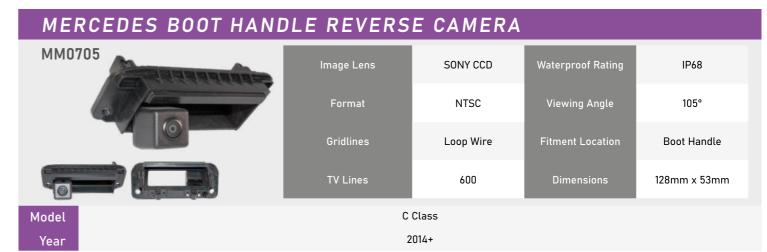


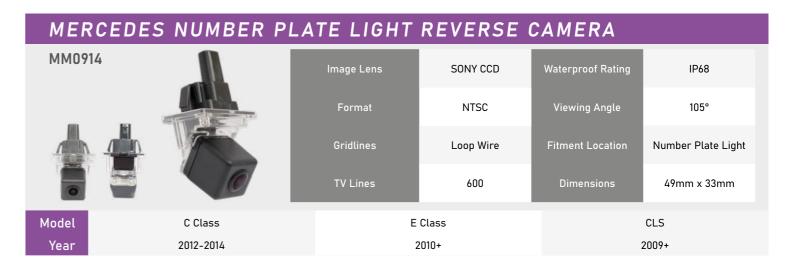






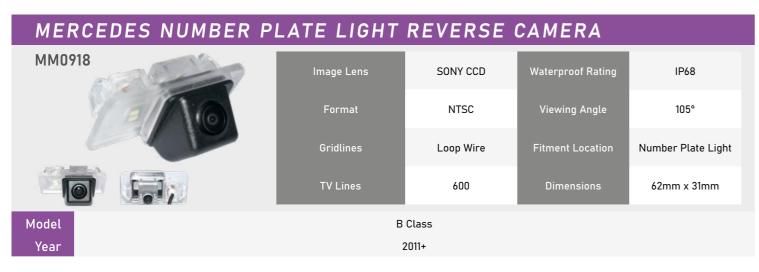


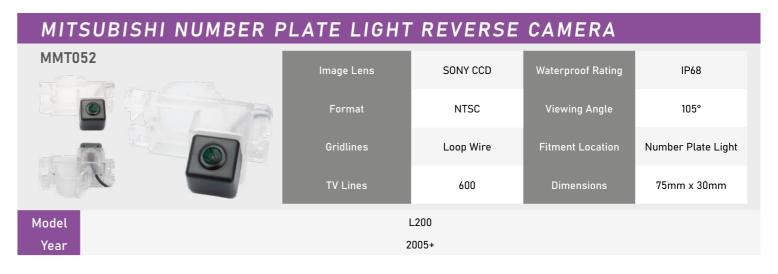


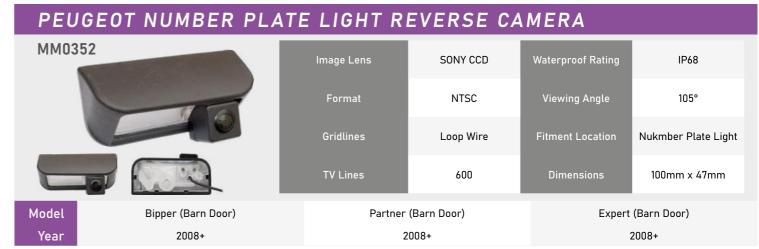


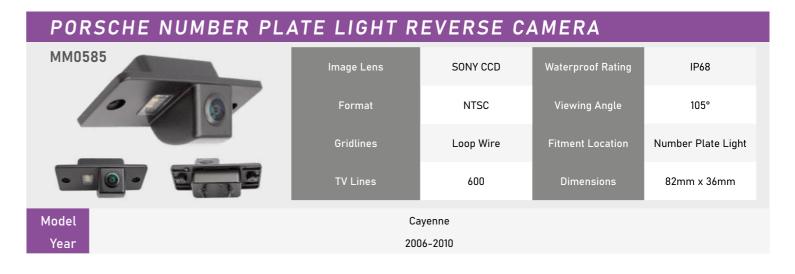




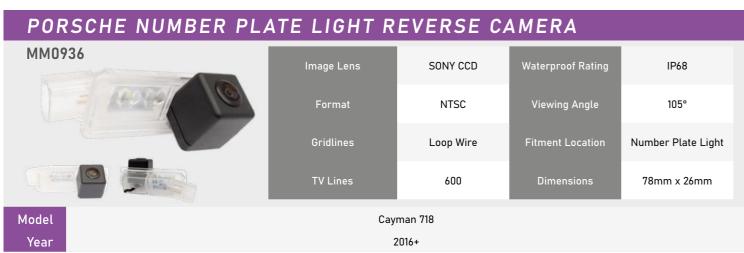


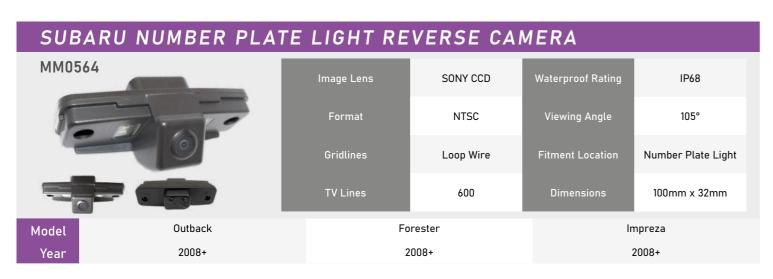


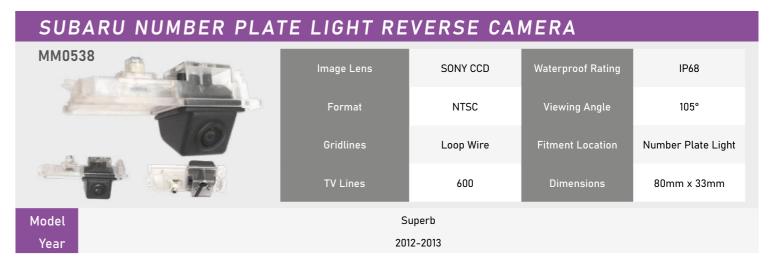


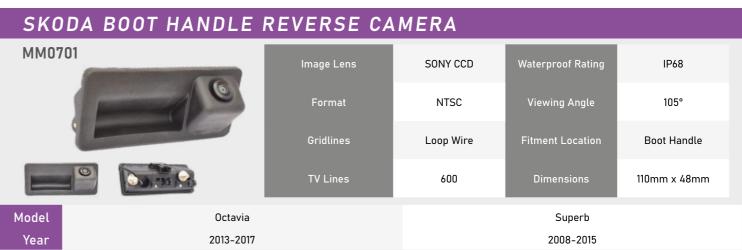








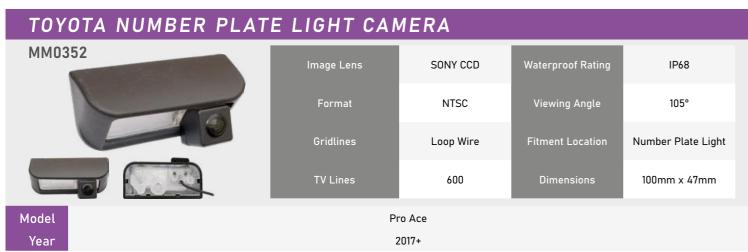




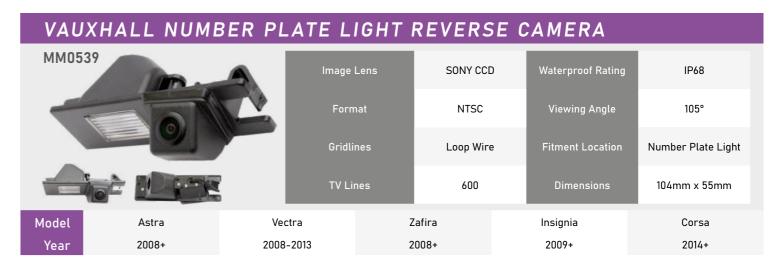


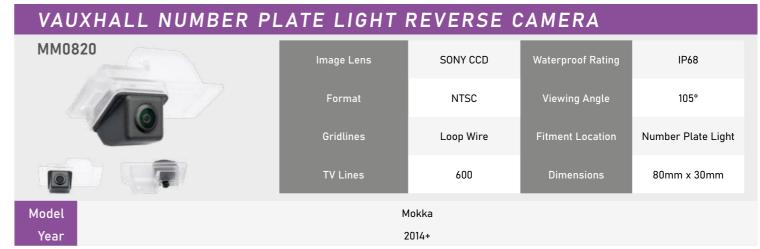
CAMERA SOLUTIONS

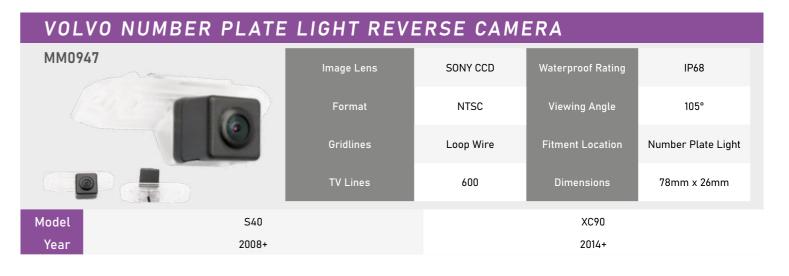




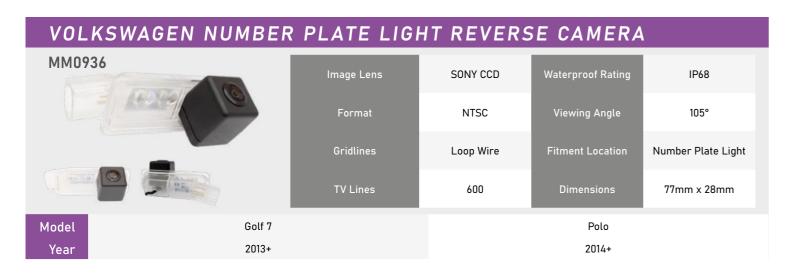


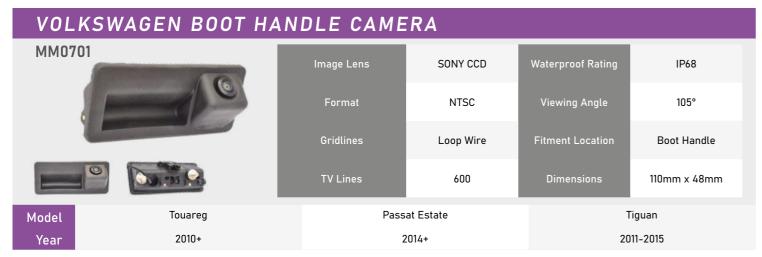




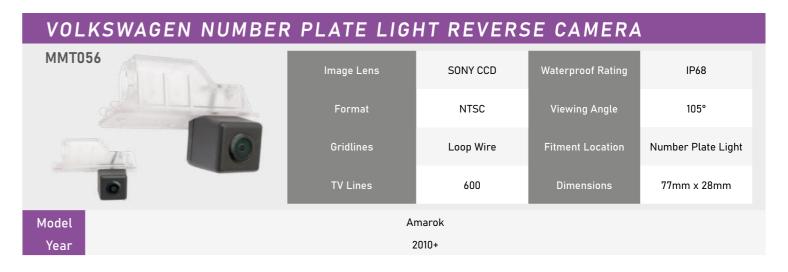


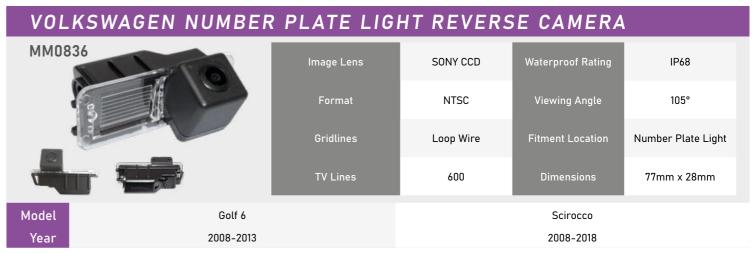
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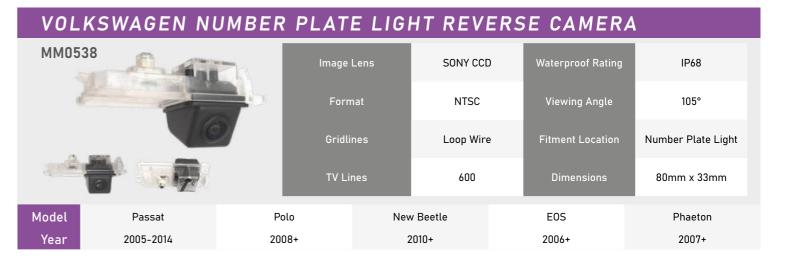


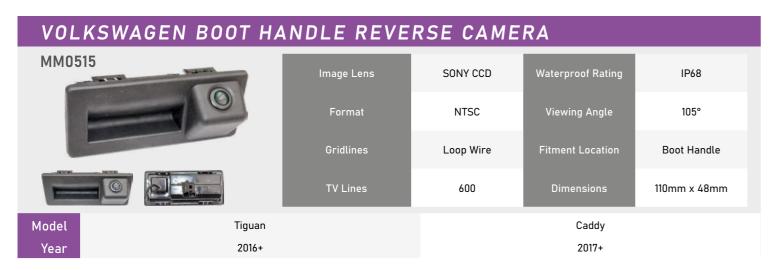


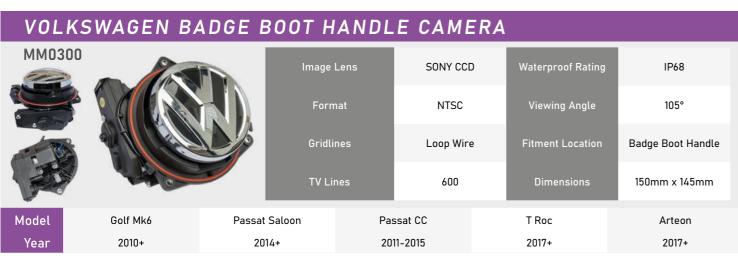




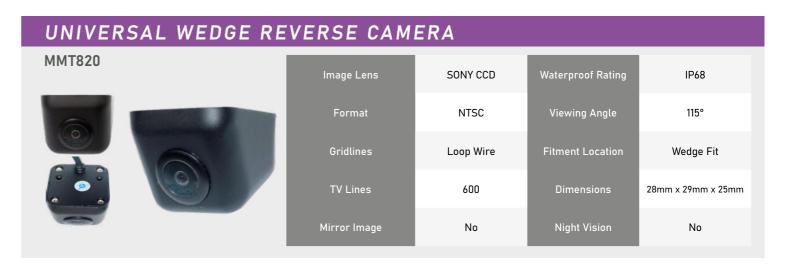


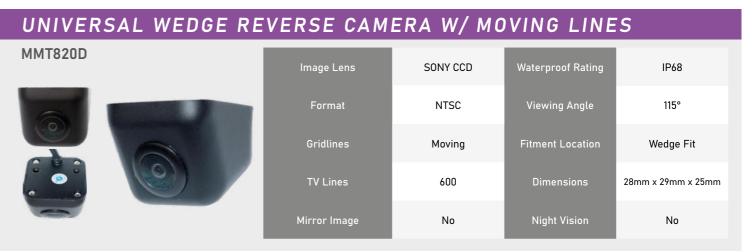


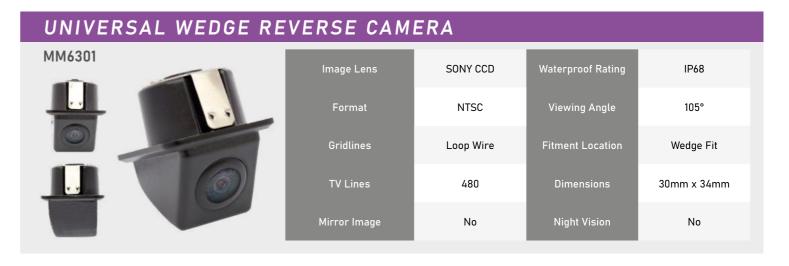












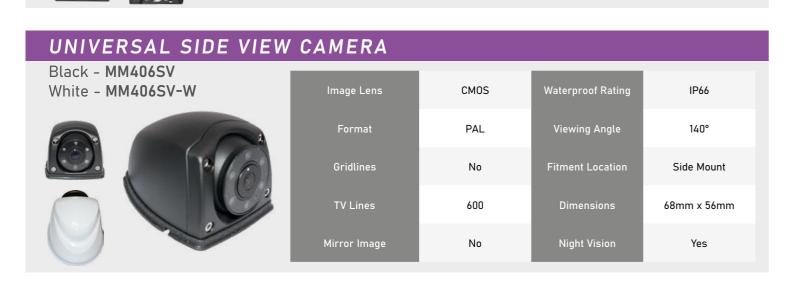
CAMERA SOLUTIONS

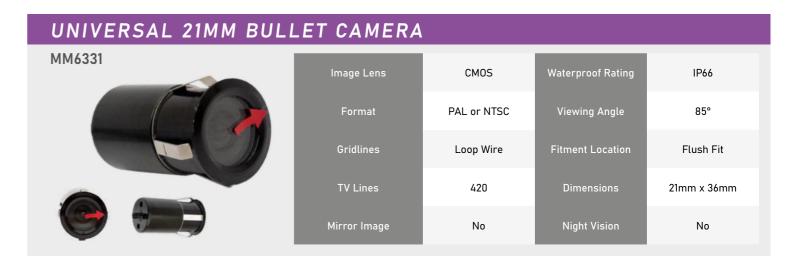
HEAVY DUTY BRACKET MOUNT REVERSE CAMERA Black - MMCCV087B Waterproof Rating White - MMCCV087W Image Lens SONY CCD IP69K Format PAL 120° Viewing Angle Fitment Location No Bracket Mount TV Lines 700 60mm x 85mm Switchahle

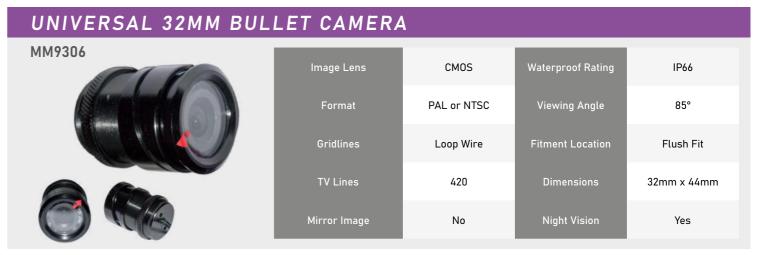
	Militor illiage	Switchable	Night Vision	ies
DUAL HEAVY DUTY BRA	CKET MOUN	IT REVERS	E CAMERA	
Black - MM9770B White - MM9770W	Image Lens	SONY CCD	Waterproof Rating	IP68
	Format	PAL	Viewing Angle	120°
	Gridlines	No	Fitment Location	Bracket Mount
SiOn Tron	TV Lines	600	Dimensions	100mm x 75mm

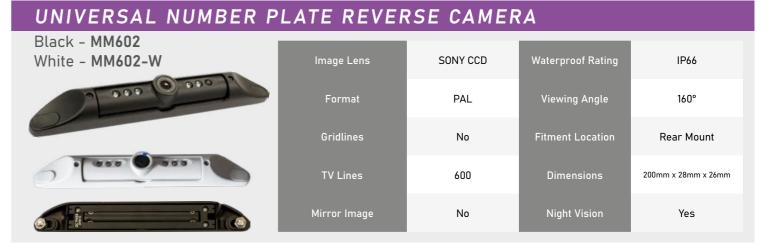
Switchable

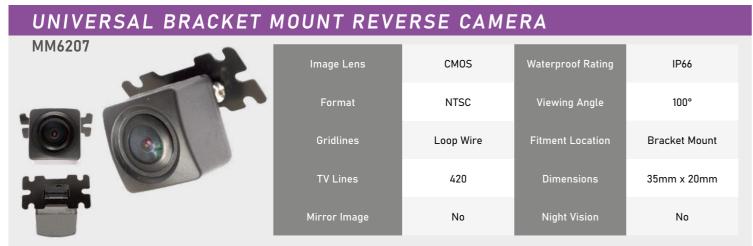
Mirror Image

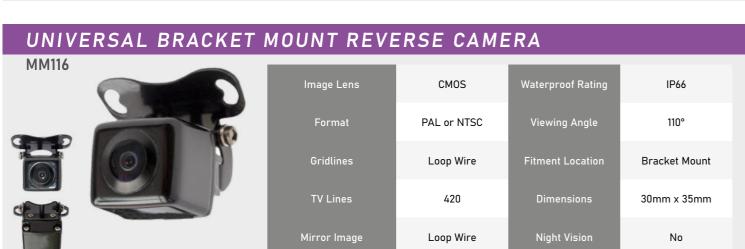


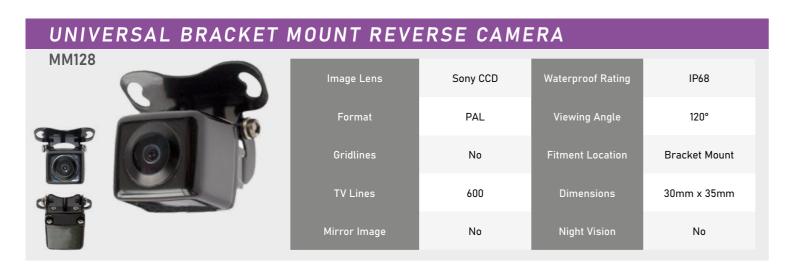


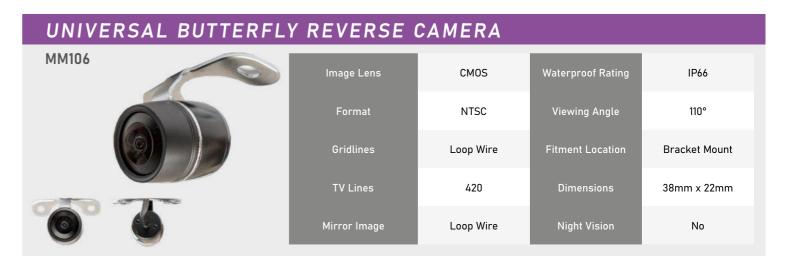


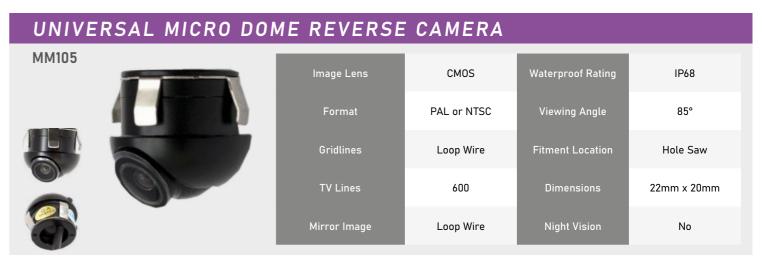


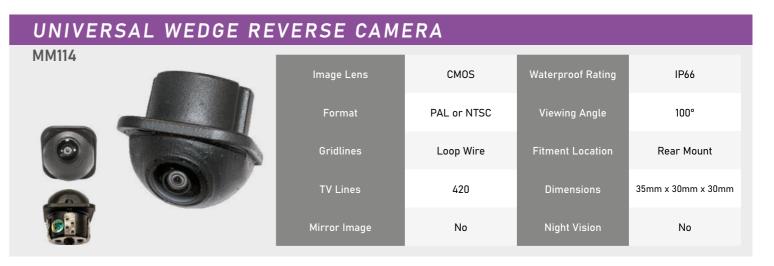


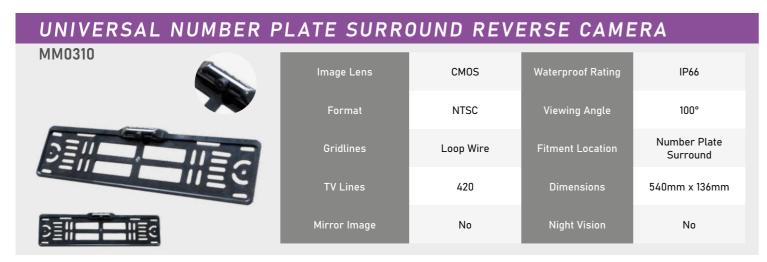






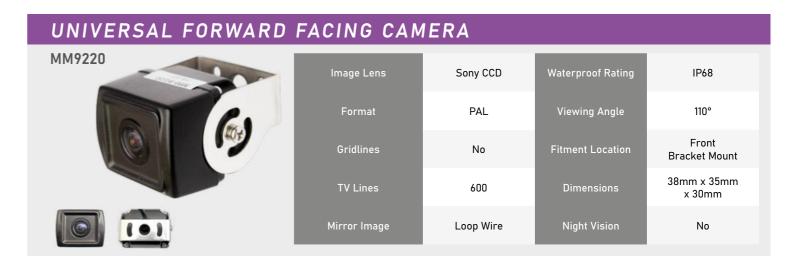


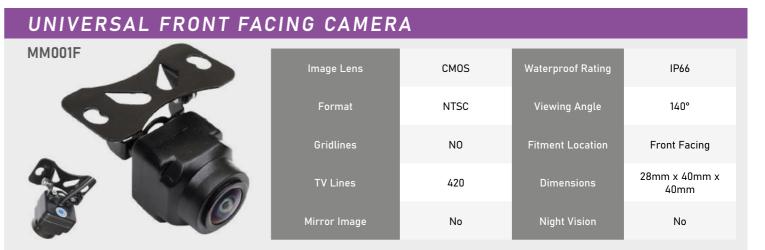


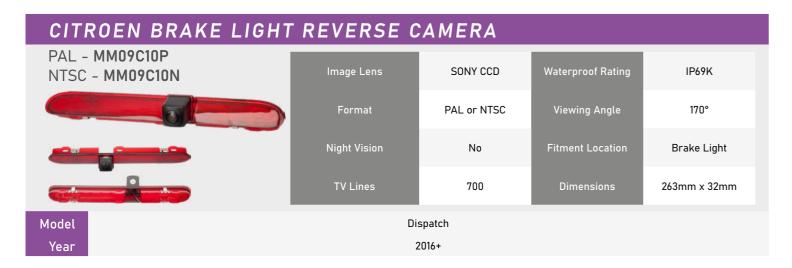


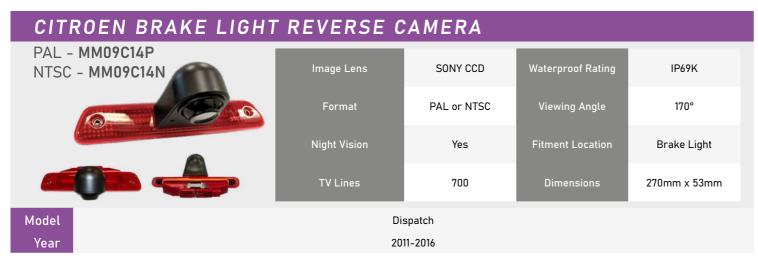
UNIVERSAL BRACKET I	MOUNT REVE	ERSE CAME	RA	
MM9880	Image Lens	Sony CCD	Waterproof Rating	IP68
	Format	NTSC	Viewing Angle	105°
	Gridlines	No	Fitment Location	Bracket Mount
	TV Lines	420	Dimensions	70mm x 45mm
	Mirror Image	No	Night Vision	Yes



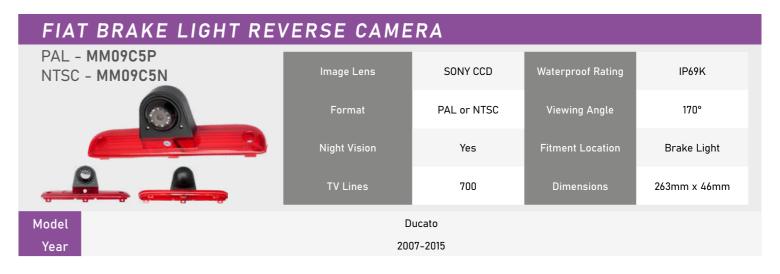




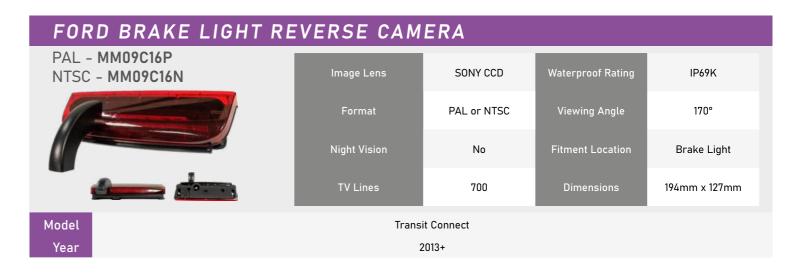




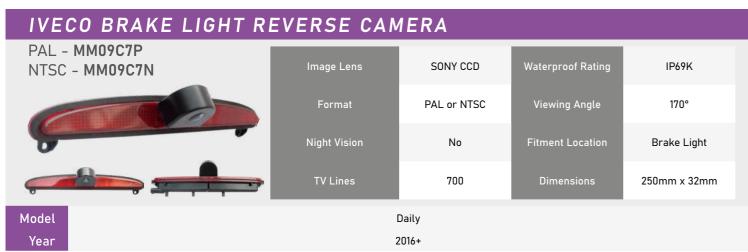


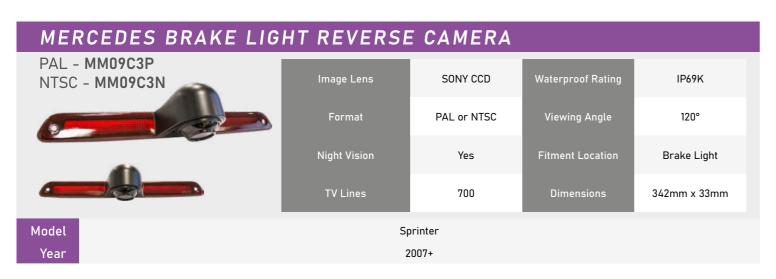


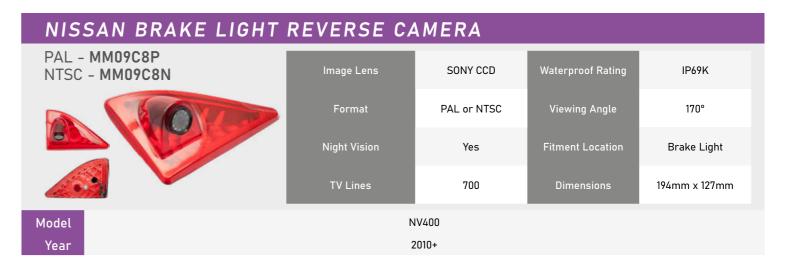


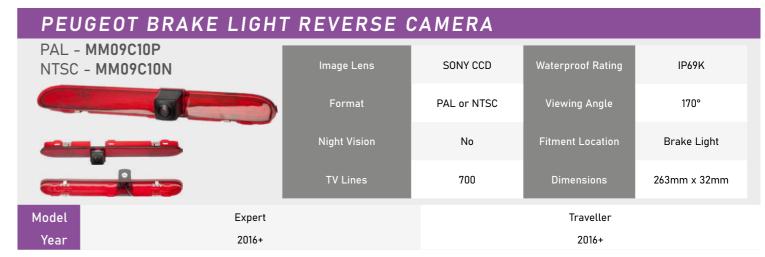


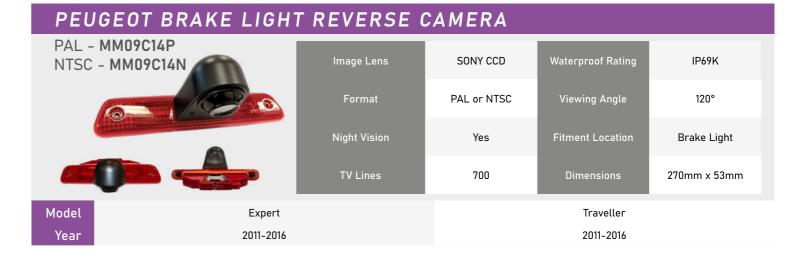




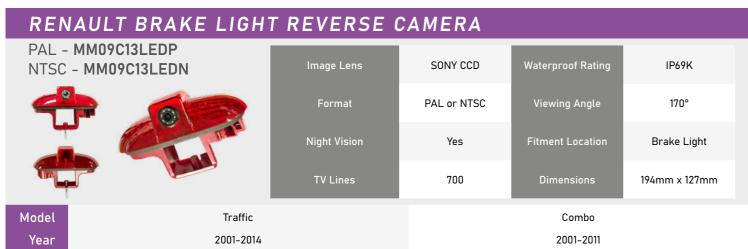


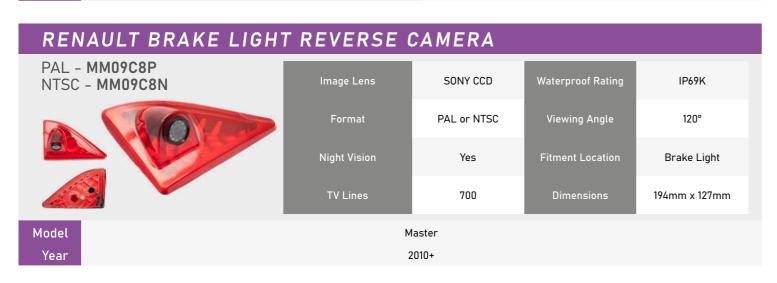


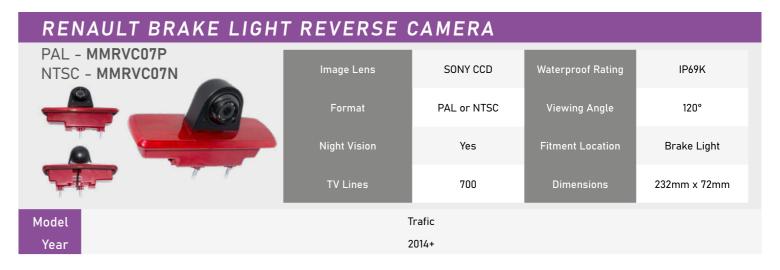


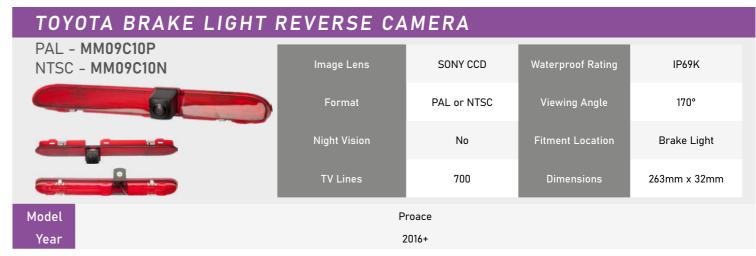


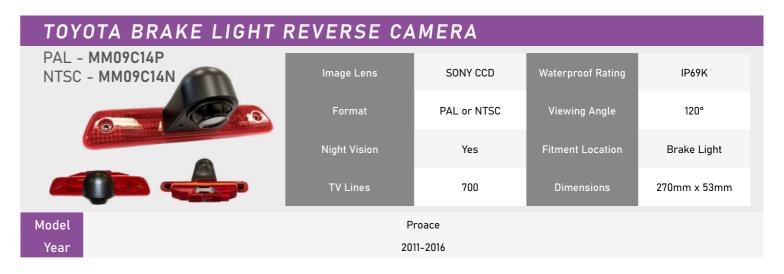


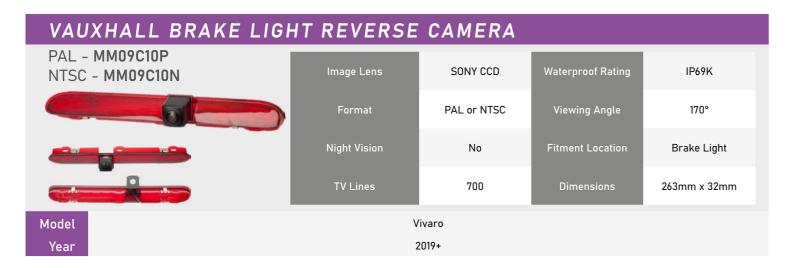


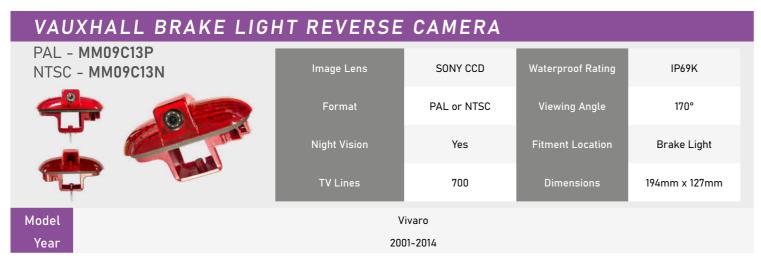


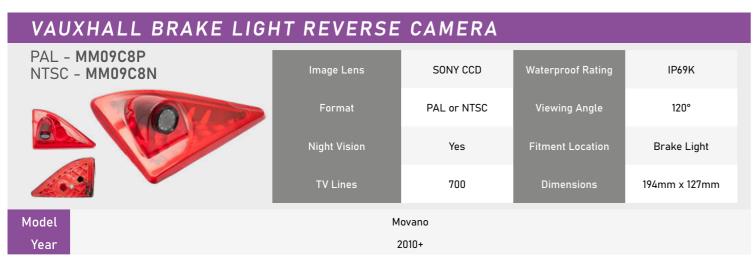


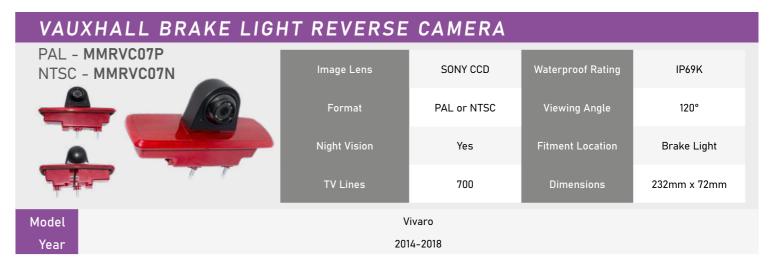


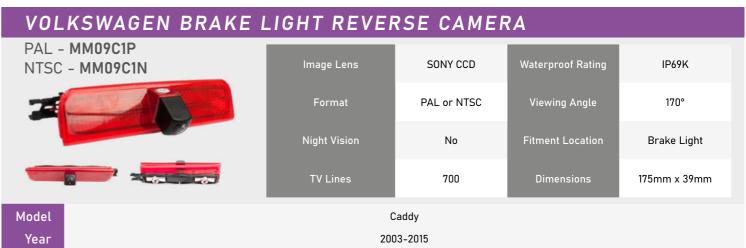




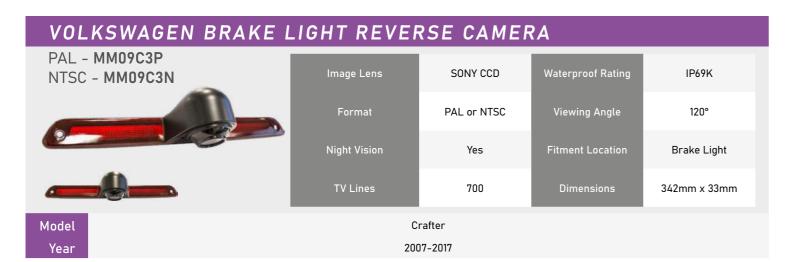




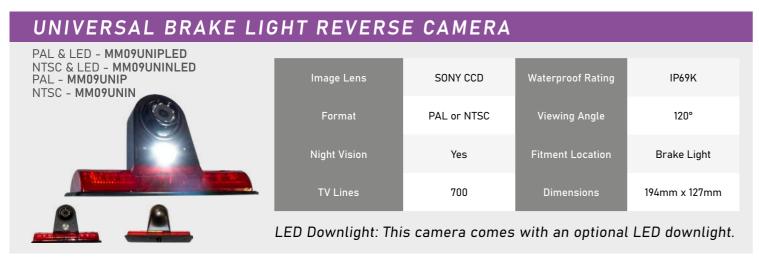












Accessories













Accessories

4 Pin Extension



Phono Extension



4 Pin to 4 Pin



MM4PINDIN5

12v Stabiliser



MM1224-STAB

Suzi 7 Pin Cable



Mini Suzi Cable



MONITOR SOLUTIONS

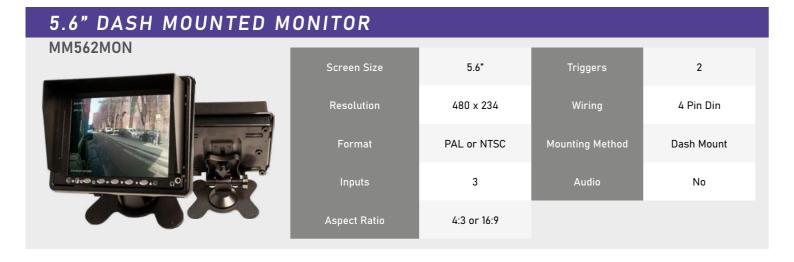


MONITORS

MONITORS

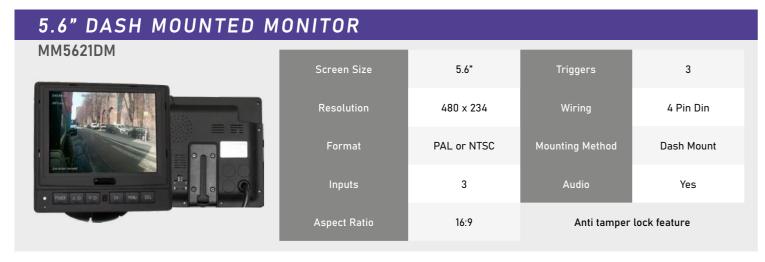
4.3" DASH MOUNTED MONITOR MM43MON Triggers Screen Size 4.3" 320 x 234 Wiring RCA Format Mounting Method PAL or NTSC Dash Mount Audio No Aspect Ratio 4:3

7" QUAD DASH MOUNTED MONITOR **MM709QM** Screen Size 4 Triggers 800 x 400 4 Pin Din Resolution PAL or NTSC Mounting Method Dash Mount Format Audio No Fan bracket included Aspect Ratio 4:3 or 16:9



7" DASH MOUNTED MON	IITOR			
MM7091DM	Screen Size	7"	Triggers	3
	Resolution	800 x 400	Wiring	4 Pin Din
	Format	PAL or NTSC	Mounting Method	Dash Mount
	Inputs	3	Audio	No
	Aspect Ratio	4:3 or 16:9	Fan bracke	t included

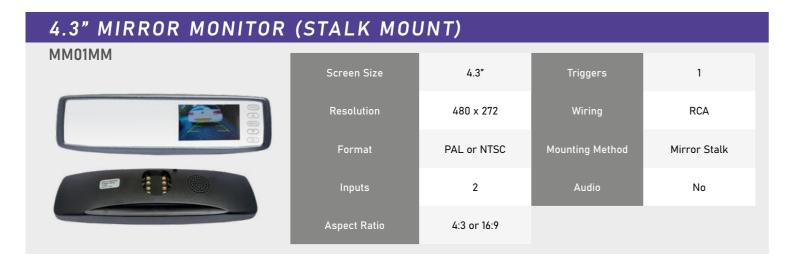
UD 7" DACU MOUNTED MONITOD



MM7041DM Screen Size 7" Triggers 3 Resolution 480 x 234 Wiring 4 Pin Din Format PAL or NTSC Mounting Method Dash Mount Inputs 3 Audio Yes Aspect Ratio 4:3 or 16:9 Anti tamper lock feature	AHU 7" DASH MUUNTEL	MUNITUR			
Format PAL or NTSC Mounting Method Dash Mount Inputs 3 Audio Yes	MM7041DM	Screen Size	7"	Triggers	3
Inputs 3 Audio Yes	190	Resolution	480 x 234	Wiring	4 Pin Din
		Format	PAL or NTSC	Mounting Method	Dash Mount
	1 may 10 to a a 5 10 014 6 0	Inputs	3	Audio	Yes
		Aspect Ratio	4:3 or 16:9	Anti tamper	lock feature

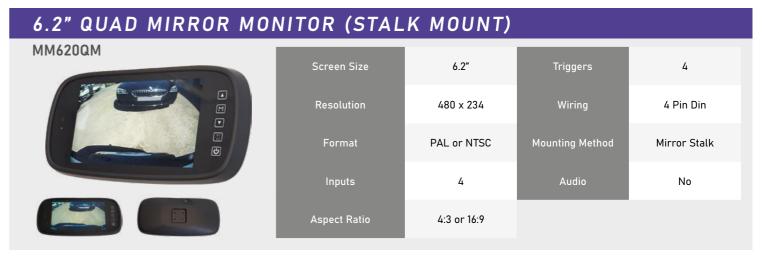
MONITORS

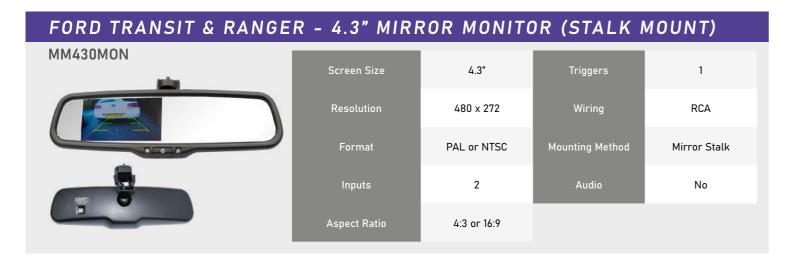
MONITORS











6.2" AHD MIRROR MON	ITOR (STALK	MOUNT)		
MM620MAHD	Screen Size	6.2"	Triggers	2
	Resolution	480 x 234	Wiring	4 Pin Din
	Format	PAL or NTSC	Mounting Method	Mirror Stalk
	Inputs	2	Audio	No
	Aspect Ratio	4:3 or 16:9		

MONITORS

MONITORS

7" MIRROR MOUNTED MONITOR (STALK MOUNT)







Screen Size	7"	Triggers	1
Resolution	480 x 234	Wiring	RCA
Format	PAL or NTSC	Mounting Method	Mirror Stalk
Inputs	2	Audio	No
Aspect Ratio	4:3 or 16:9		

7" QUAD MIRROR MOUNTED MONITOR (STALK MOUNT)

MM704QM





Screen Size	7"	Triggers	4
Resolution	480 x 234	Wiring	4 Pin Din
Format	PAL or NTSC	Mounting Method	Mirror Stalk
Inputs	4	Audio	No
Aspect Ratio	4:3 or 16:9		

7" MIRROR MOUNTED MONITOR (CLIP ON)

MM700MM





Screen Size	7"	Triggers	1
Resolution	480 x 234	Wiring	RCA
Format	PAL or NTSC	Mounting Method	Clip On
Inputs	2	Audio	No
Aspect Ratio	4:3 or 16:9		

6.2" MIRROR MONITOR (STALK MOUNT) W/ MIRROR LINK

MM620ML



Share your phone's screen to your monitor to take advantage of your preferred navigation app.

Screen Size	6.2"	Triggers	1
Resolution	480 x 234	Wiring	RCA
Format	PAL or NTSC	Mounting Method	Mirror Stalk
Inputs	2	Audio	Yes
Aspect Ratio	4:3 or 16:9		

7" MIRROR MOUNTED MONITOR (STALK MOUNT)

MM702MM





Screen Size	7"	Triggers	2
Resolution	480 x 234	Wiring	4 Pin Din
Format	PAL or NTSC	Mounting Method	Mirror Stalk
Inputs	2	Audio	No
Aspect Ratio	4:3 or 16:9		

7" MIRROR MONITOR (STALK MOUNT) W/ MIRROR LINK

MM700ML



Share your phone's screen to your monitor to take advantage of your preferred navigation app.

Screen Size	7"	Triggers	1
Resolution	480 x 234	Wiring	RCA
Format	PAL or NTSC	Mounting Method	Mirror Stalk
Inputs	2	Audio	Yes
Aspect Ratio	4:3 or 16:9		

MONITORS MONITORS

Accessories

Fan Bracket 1



Fan Bracket 2



Size: 118mm x 90mm MMFB02

Mirror Mounting Stalk #65



VOLKSWAGEN RENAULT LDV MMB65

MMFB01

Mirror Mounting Stalk #45



FIAT **IVECO PEUGEOT FORD MERCEDES** MMB45

Mirror Mounting Stalk #12



Mirror Mounting Stalk #03



VOLKSWAGEN MMB03

Mirror Mounting Stalk #09



FORD UNIVERSAL **MMB09**

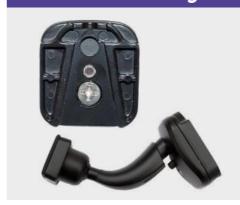
Accessories

Mirror Mounting Stalk #71



MERCEDES MMB71

Mirror Mounting Stalk #95



FIAT IVECO MMB95

Mirror Mounting Stalk #48



FORD RANGER MMB48

Universal Fixing Mirror Boss



Included with our MMB09 Universal stalk. This can be used to adhere a mirror monitor to a windscreen when no factory boss is present using the mounting glue MM3118. (Excludes MM0430MON monitor).

Mirror Mounting Glue



This high-bond glue is used for mounting the boss to the windscreen of a vehicle that does not already have a rear view mirror.

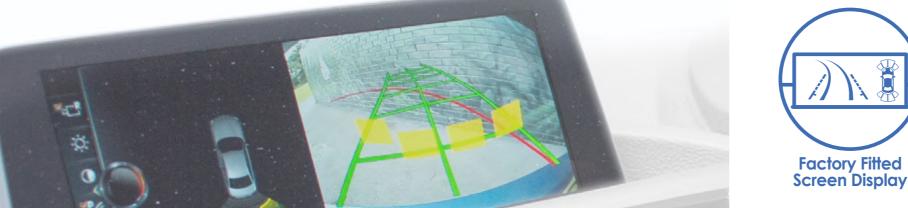
MM3118

OEM CAMERA INTEGRATION

FACTORY SCREEN INTEGRATION

Motormax offer a wide variety of integration solutions compatible with many manufacturers, utilising the vehicle's factory screen to input a front or/and reversing camera.



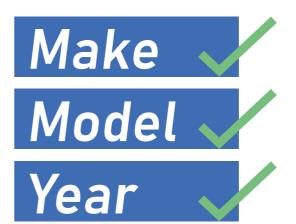












COMPATIBILITY CHECK

To improve efficiency give us a call or send photos of the vehicle headunit along with make, model and year for us to confirm compatibility.

OEM CAMERA INTEGRATION



2011-2015

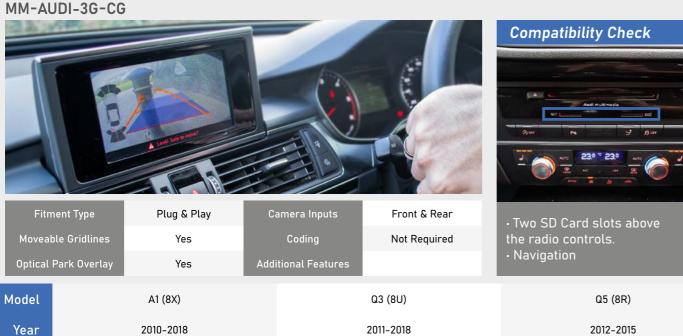
2007-2018

2008-2017



AUDI 3G NAVIGATION (CAN GATEWAY PLUG) MM-AUDI-3G-CG

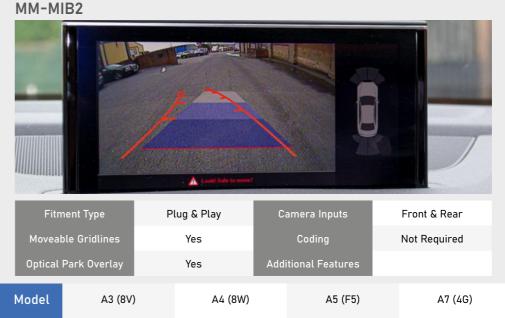
2007-2011





Year

2014+



2016+

2016+



2017+

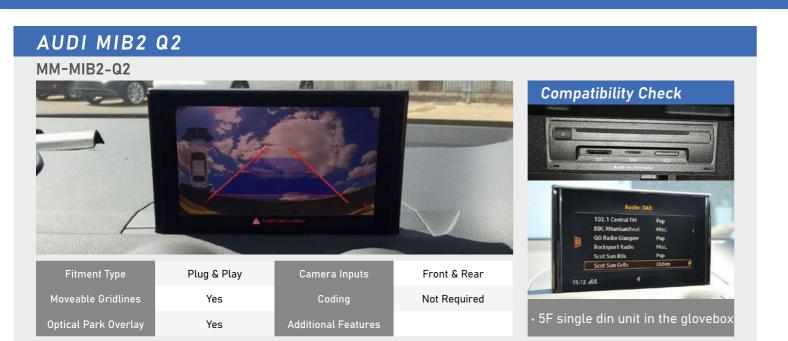
2016+

Year

2007-2015

2016+

OEM CAMERA INTEGRATION



BMW IDRIVE CIC

MM-BMW-CIC

Model

Year



Fitment Type
Moveable Gridlines
Optical Park Overlay

1 Series

(E81/E82/E87/E88)

2009-2011

X1 (E84)

2009-2014

4 Wire Fit Yes Yes

3 Series

(E90/E91/E92/E93)

2009-2011

X3 (F25)

2010-2012

Camera Inputs Coding Additional Features

5 Series

(E60/E61/F10/F11)

2009-2012

X5 (E70)

2009-2013

Front & Rear Not Required

Q2 (GA)

2018+

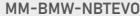
5 Series GT 6 Series (E63/F12/F13) (F07) 2009-2012 2009-2012 X6 (X70) Z4 (E89) 2009-2015 2009+

Compatibility Check

7 Series (F01/F02) 2009-2012









	- ''
Moveat	ole Gridlines
Optical	Park Overlay

Camera Inputs Coding Additional Features Front & Rear Not Required



5 Series / GT (G30/G31)

2017+

X5 (F15)

2017+

Model	1 Series (F52)	2 Series (F22/F23/F45/F46)	3 Series (F30/F31)	4 Series (F32/F33/F36)
Year	2017+	2017+	2017+	2017+
Model	7 Series (G11/G12)	X1 (F48)	X3 (F25)	X4 (F26)
Year	2017+	2017+	2017+	2017+

Model

Year

Model

Year

6 Series (F06)

2017+

X6 (F16)

2017+

OEM CAMERA INTEGRATION

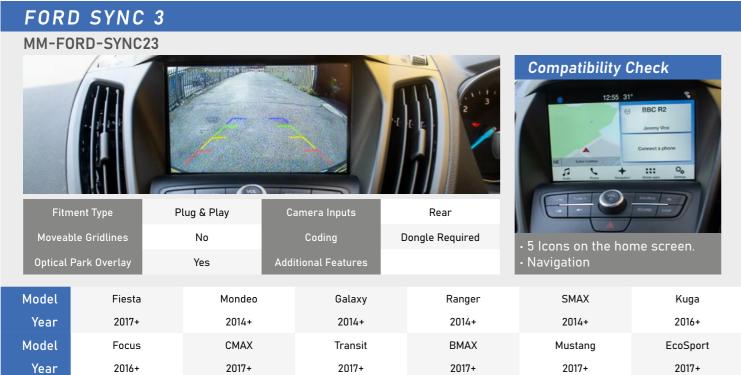




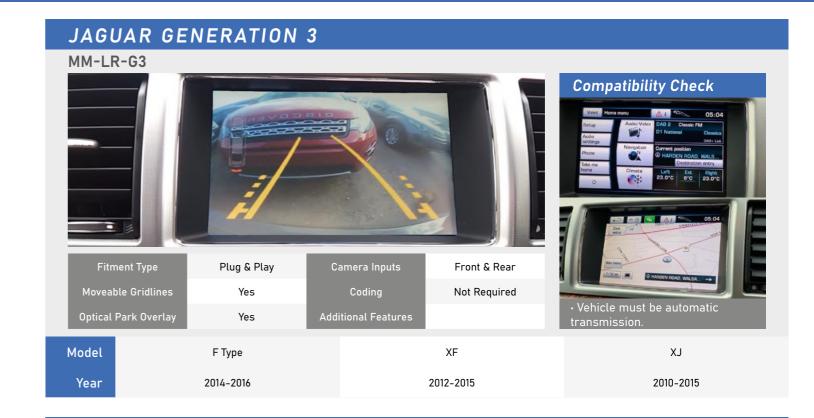




OEM CAMERA INTEGRATION









OEM CAMERA INTEGRATION

JAGUAR GENERATION 5 10" (SCREEN INSTALL)





Fitment Type	
Moveable Gridlines	
Optical Park Overlay	

F Pace

2016+

Model

Year

Plug & Play Yes Yes



Front & Rear Not Required XF

Front & Rear

Not Required

2015+



2015+

XΕ 2015+

5 15

Compatibility Check

JAGUAR GENERATION 5 10" (HEADUNIT INSTALL)

F Type

2015+

MM-LR-G5-HU



Fitment Type	Plug
Moveable Gridlines	
Optical Park Overlay	

Yes F Pace

2016+

g & Play Camera Inputs Additional Features

XF F Type 2015+ 2015+



ΧJ ΧE 2015+ 2015+

LAND ROVER GENERATION 2



Fitment Type Plug & Play Moveable Gridlines Optical Park Overlay

Camera Inputs Coding Additional Features

Range Rover Sport (L320)

Not Required

2010-2011



Discovery 4 (L319)

Compatibility Check

2010-2011

LAND ROVER GENERATION 3

Discovery 4

2012-2015

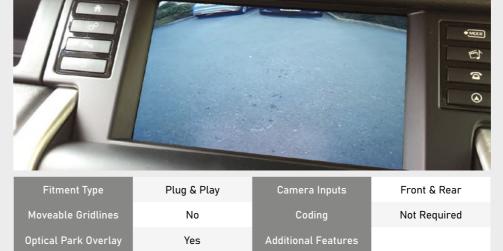
Range Rover Vogue (L322)

2010-2012

MM-RC-JLR3

Model

Year



Model Year

Evoque Range Rover 2012-2015 2010-2015

Range Rover Sport

2012-2015

Model

Year

OEM CAMERA INTEGRATION



2012-2015

2012-2015



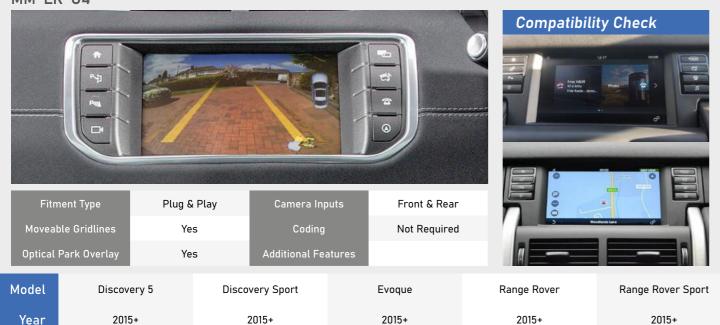


2012-2015



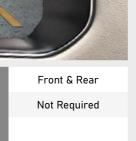
2012-2015

Year



LAND ROVER GENERATION 5 10" (HEADUNIT INSTALL)





Evoque



Model Discovery 5 Year 2015+

Moveable Gridlines

Optical Park Overlay

Discovery Sport 2015+

Additional Features

2015+ 2015+ 2015+

OEM CAMERA INTEGRATION

MERCEDES NTG 2.5





Fitment Type Moveable Gridlines Optical Park Overlay

Model

Year

Model

Year

Plug & Play Νo Yes

Camera Inputs Additional Features

Dongle Required

G Class (W463)

2008-2012

Compatibility Check

A Class (W169)

2008-2012 GL Class (X164) 2008-2012

B Class (W245) 2008-2012 M Class (W164)

2008-2012

CLK Class (W209) CLC Class (W219) 2008-2009 2008-2011 R Class (W251) SLK Class (R171) 2008-2012 2008-2011

2008-2010 SL Class (R230) 2008+

Compatibility Check

E Class (W211)

MERCEDES AUDIO 15 (SPRINTER)

MM-RC-MB-AU15



Fitment Type Moveable Gridlines Optical Park Overlay

Plug & Play

Camera Inputs Coding Additional Features

Front & Rear Dongle Included Compatibility Check

Model Year Sprinter

2012-2018

MERCEDES AUDIO 15 (VITO)

MM-RC-MB-V15



Fitment Type Moveable Gridlines Optical Park Overlay Plug & Play No

Camera Inputs Additional Features

Front & Rear Not Required

Vito

2012+

MERCEDES NTG 4.5

MM-MB-NTG4.5



Fitment Type Moveable Gridlines Optical Park Overlay Plug & Play Yes

Camera Inputs Coding Additional Features

C Class

Front & Rear Not Required



Model Year Model Year

A Class 2012-2015 E Class Coupe 2011-2015

B Class 2012-2015 **GLK Class**

2011-2014 GLA 2011-2015 2014-2015 C Class Coupe 2011-2015

2011-2015 2012+

CLA CLS 2013-2015 2013-2015 SL SLS

2010-2015

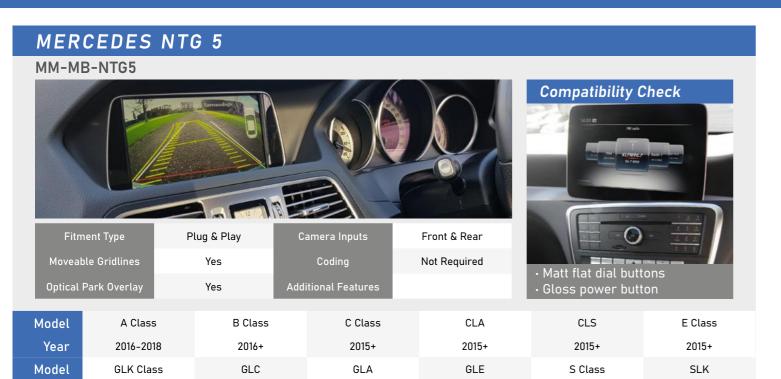
2011-2015 SLK 2011-2015

E Class

Model

Year

OEM CAMERA INTEGRATION



2015+



MERCEDES NTG6

2015+

MM-MB-NTG6

Moveable Gridlines

Optical Park Overlay

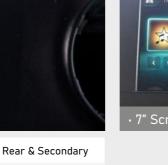
Year



Camera Inputs

Additional Features

2016+



2015+

Not Required

PAL Compatible



2015+

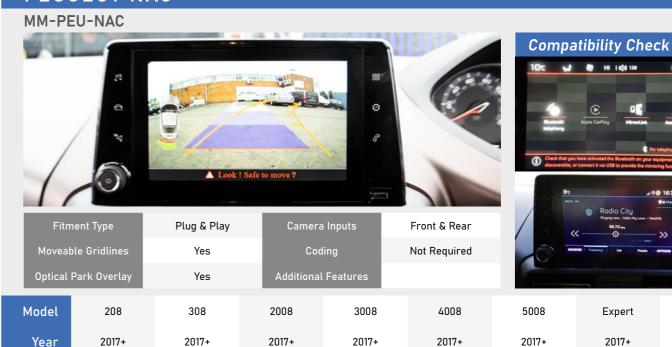
2014+

Model	Sprinter
Year	2018+

2 Wire Fit

No

No



Traveller

2017+

OEM CAMERA INTEGRATION







Fitment Type
Moveable Gridlines
Optical Park Overlay

Year

Plug & Play

Coding Additional Features

Cayman

Front & Rear Not Required

2013+

Macan

2014+

Panamera 2009+

Compatibility Check

Model Boxster Cayenne

2013+ 2010+ 2013+

PORSCHE PCM 4.0 (MIB2)



Fitment Type	Р
Moveable Gridlines	
Optical Park Overlay	

Boxster

2013+

Plug & Play Yes Yes

Cayenne

2010+

Camera Inputs Additional Features

911 Cayman 2013+ 2013+

Front & Rear

Not Required



Panamera 2014+ 2009+

RENAULT MEDIA NAV

MM-RC-REN-MV



Fitment Type
Moveable Gridlines
Optical Park Overlay

Plug & Play Yes

Camera Inputs Coding Additional Features Front & Rear Not Required

Compatibility Check

Model Year Captur 2013+

Clio 2010+ Kangoo 2013+

Master 2013+

Megane 2014+

Trafic

Twingo 2009+ 2013+

SEAT MIB 2

MM-MIB2



Fitment Type Moveable Gridlines Optical Park Overlay Plug & Play

Camera Inputs Additional Features Front & Rear Not Required • 5F single din unit in the glovebox

Compatibility Check

Model Year Arona 2017+

2013+ 2013+ Ateca 2016+

Model

Year

OEM CAMERA INTEGRATION





Fitment Type Moveable Gridlines Yes Yes Optical Park Overlay

Fabia

2014+

Plug & Play

Karoq

2017+

Additional Features

Kodiaq

2017+

Front & Rear Not Required

 5F single din unit in the glovebox • 6"-8" Screen

Superb 2015+

Octavia 2013+

Compatibility Check

Rapid 2013+

SKODA MIB 2

MM-MIB2-VD

Model

Year



Fitment Type	
Moveable Gridlines	
Optical Park Overlay	

Plug & Play Yes Yes

Superb

2015+

Camera Inputs Additional Features

Front & Rear Not Required

Kodiag Karog 2017+ 2017+

Compatibility Check • 5F single din unit in the glovebox

Octavia

2013+

VAUXHALL MEDIA NAV

MM-RC-REN-MV



Fitment Type Moveable Gridlines Optical Park Overlay Plug & Play

Movano

2016+

Camera Inputs Coding Additional Features

Rear Dongle Included Compatibility Check

VAUXHALL NAC

MM-PEU-NAC

Model

Year



Fitment Type Moveable Gridlines Optical Park Overlay

Model

Year

Plug & Play

Camera Inputs Additional Features Front & Rear Not Required

Combo 2019+

Compatibility Check

Vivaro

2016+





Model

Year

OEM CAMERA INTEGRATION

VOLKSWAGEN RNS315/RNS510 AMAROK (REQUIRES CODING)



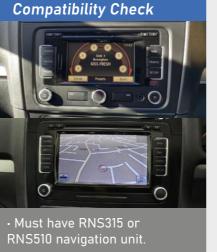
Fitment Type Moveable Gridlines Optical Park Overlay

Model

Plug & Play

Camera Inputs Coding Additional Features

Rear Required (VCDS) Camera Included



Amarok

Year 2008-2016

VOLKSWAGEN RNS315/510 GOLF VI (REQUIRES CODING)



Fitment Type Moveable Gridlines Optical Park Overlay

Plug & Play

Camera Inputs Additional Features

Required (VCDS) MM0300 Camera Included



Compatibility Check

Golf 6

Year 2008-2012

VOLKSWAGEN RNS315/RNS510 (REQUIRES CODING)



Fitment Type Moveable Gridlines Optical Park Overlay

Camera Inputs Coding Additional Features

Required (VCDS) Wedge Camera Included



Compatible with any vehicle fitted with RNS315 or RNS510 navigation unit.

VOLKSWAGEN RNS315/510 GOLF VI (REQUIRES CODING)



Fitment Type Moveable Gridlines Optical Park Overlay Plug & Play

Coding

Camera Inputs Additional Features

Dongle Included

Model

Year

Crafter

2012-2017

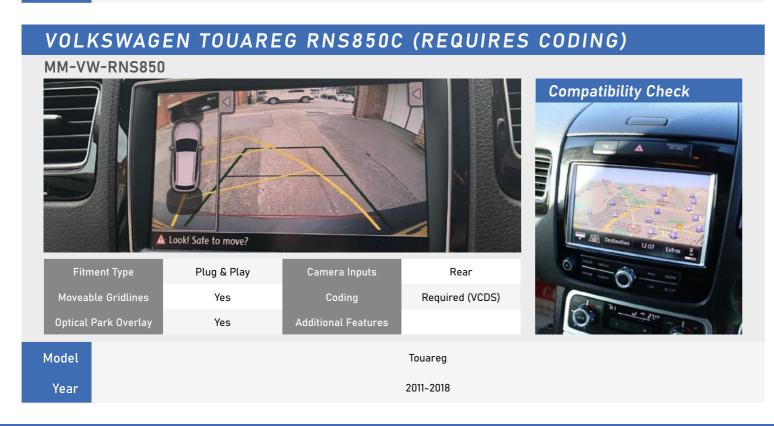
Model

OEM CAMERA INTEGRATION





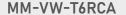
Compatible with any vehicle fitted with RNS315 or RNS510 navigation unit.





OEM CAMERA INTEGRATION

VOLKSWAGEN DISCOVERY MEDIA (REQUIRES CODING)





Fitment Type	
Moveable Gridlines	
Optical Park Overlay	

4 Wire Fit Yes

Coding Additional Features

Camera Inputs

Required (VCDS)

Compatibility Check

- 2 SD Card slots
- NO 5F unit in the glovebox
- Must have factory parking sensors & navigation.

Model Year

2016-2020

Beetle 2016+

Scirocco

2014-2018

Rear

Wedge Camera Included

Sharan

2015+

2016-2020

Caddy

VOLKSWAGEN AMAROK MIB2 (REQUIRES CODING)

MM-MIB2-AMAROK



Fitment Type	
Moveable Gridlines	
Optical Park Overlav	

Plug & Play Yes

Camera Inputs Coding Additional Features

Rear Required (VCDS)

Camera Included

Amarok 2017+

Compatibility Check



- 2 SD Card slots
- NO 5F unit in the glovebox
- Must have factory parking sensors & navigation.

VOLVO SENSUS

MM-VOL-SENSUS



Fitment Type
Moveable Gridlines
Optical Park Overlay

Plug & Play

V40

2014+

Coding Additional Features

V60

2013+

Rear Not Required

-7" Screen

V70

2014+

XC60

2014+

≣₩ 21.0

Compatibility Check

LO de ...

Model Year

VOLKSWAGEN AFTERMARKET HEADUNIT

MM-501-RCA



Fitment Type Moveable Gridlines Optical Park Overlay

4 Wire Fit Yes

Camera Inputs Coding Additional Features

Not Required Camera Included



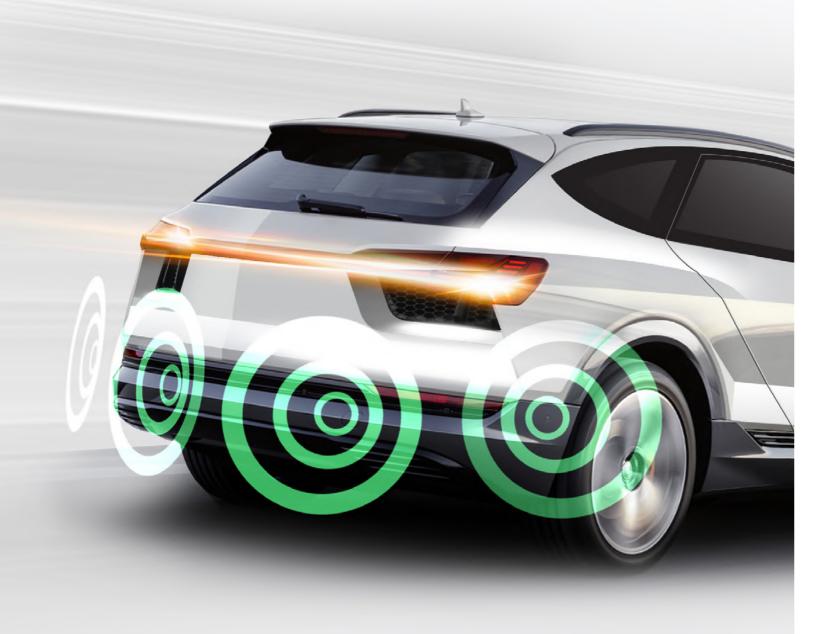
Camera input

Compatible with any VW vehicle fitted with a compatible aftermarket headunit.

Model

Year

PARKING SENSORS



FLAT HEAD SENSOR KIT Matt - MM01MB Gloss - MM01GB Finish Type **Detection Range** 0.2-1.5M Matt or Gloss Volume & Sensitivity Adjustment Yes Hole Saw Size 19mm Sensor Head Size 21mm Additional Features Anti Hook Colour Code Friendly Yes

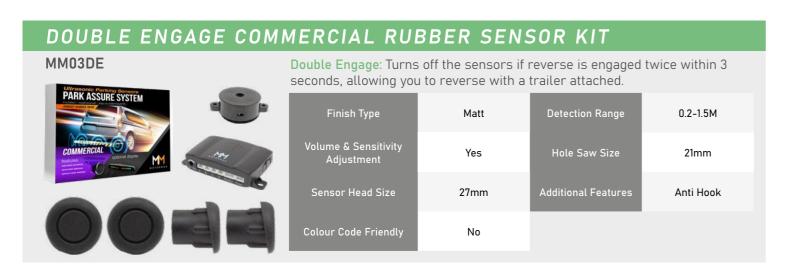




PARKING SENSORS

COMMERCIAL UNDERMOUNT SENSOR KIT MM04COM Finish Type Detection Range 0.2-1.5M Matt Volume & Sensitivity Yes Hole Saw Size 21mm Anti Hook. 27mm (Sensor Head) dditional Features Adjustable Collars Sensor Head Size 60mm (Bracket) (7°. 10° & 13°) Colour Code Friendly No

COMMERCIAL RUBBER SENSOR KIT MM03COM Finish Type **Detection Range** 0.2-1.5M Matt Volume & Sensitivity Yes 21mm Hole Saw Size Additional Features Sensor Head Size 27mm Anti Hook Colour Code Friendly Νo







PARKING SENSORS

DEDICATED FRONT PARKING SENSORS

Matt - MM05FS

The front kit is designed to operate via the brake switch or an accessory CAN bus module.

(We highly recommend using a CAN bus module)







Finish Type	Matt	Detection Range	0.3-0.8M
Volume & Sensitivity Adjustment	Yes	Hole Saw Size	18.3mm
Sensor Head Size	23mm	Additional Features	Anti Hook, Adjustable Collars (6°, 10° & 13°)
Colour Code Friendly	Yes	Also Supplied with 4.3M cables to remove the requirement for extension leads.	

SPEED ACTIVATION*

The sensors are designed to operate at low speeds, enabling the sensors to automatically operate below 8MPH. This avoids false alarming during general road use.





HANDBRAKE FEATURE*

The front parking sensors will only be active whilst the hand brake is disengaged. This will stop the sensors from alarming whilst stationary.

TRAFFIC OBSTRUCTION MUTE

If the sensors see an obstruction for a consistent 4 seconds the sensors will automatically mute. This is to avoid continuous alarming whilst in close proximity traffic.



U-4 Seconds Active 4+ Seconds

-Muted-

| 133

^{*}When used with a CAN bus module.

Accessories

Visual Display



Supplied with splitter to connect audible buzzer.

MMDISP2

Audible Visual Display



Supplied with 8M cable.

MMDISP1

Switch



MMSW01

CAN Module



Supplies the following outputs:

- Speed under 8MPH
- Handbrake



MMPSSM2

2M Extension



5M Extension



Accessories

5M Buzzer Extension



MM5MBZEXT

5M Display Extension



MM5MDSPEXT

Buzzer



MMBZ01

MM01 Sensor Heads (4)





MM01MBH

MM05 Sensor Heads (4)



MM05MBH

MM03 Sensor Heads (4)





MM03COMH

HEATED SEATS

CARBON FIBRE HEATED SEATS



2 PAD & 2 HEAT SETTING MMHS01 Features Carbon fibre 1 seat included

Heat Setting

2 stage heat setting

2 heat pad elements per seat (back and base of seat)

Heat equivalent to OEM fitment

PCP board for continuous heat flow

4 PAD & 2 HEAT SETTING

MMHS02





Features

Carbon fibre

1 seat included

2 stage heat setting

4 heat pad elements per seat (back and base of seat)

Heat equivalent to OEM fitment

PCP board for continuous heat flow

4 PAD & 2 HEAT SETTING

MMHS03



Features

Carbon fibre

1 seat included

3 stage heat setting

2 heat pad elements per seat (back and base of seat)

Heat equivalent to OEM fitment

PCP board for continuous heat flow

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