

**ASSOCIATE VEHICLE
INSTALLATIONS LTD**



All our engineers are approved to install to electric vehicles

INDEX

1. Keyout System
2. Eco Stop Start System
3. AVI DVR 4 Mobile Digital Video Recorders
4. 360 Degree Camera System
5. 360 Degree Camera System
6. Wing Mirror Dual View
7. TFT LCD Monitors for reversing cameras
8. AW-9206 Camera AW-9880 Camera
9. AW-T013 Camera. TFT LCD Mirror Monitors for Reversing Cameras
10. Forward Facing Camera
11. AVI Side Scan
12. HGV Park Brake Alarm
13. Front Parking Sensors
14. Rear Parking Sensors
15. SmarTrack uTrack Fleet Assist
16. SmarTrack uTrack
17. SmarTrack Protector+
18. Front & Rear Slam Locks
19. High Security Dead Locks
20. Armour Locks
21. Inverters
22. Eberspacher Heating
23. Goods in Transit Alarm. Catalytic Converter Alarm / Security System
24. Water Heater. Battery Guard
25. BA-32 Nightshift Backalarm. Hand Wash System
26. Thatcham Category 1 Alarm
27. Thatcham Category 2-1 upgrade Alarm
28. Cruise Control / Speed Limiter
29. Thatcham Category 2 Immobiliser. Heavy Duty Reed and Magnets
30. Diamond 12m Quad PIR Detector. Freightlock
31. LED Interior Lamps. Roof Vents
32. Beacons & Lightbars. Mini LED Light Bar
33. Fire Extinguisher
34. About Us

Keyout System

Theft of and from vehicles whilst in service

With the growing number of service vehicles that need to have their engines left running whilst the driver is operating ancillary equipment, (PTO, Cranes, Platforms, Generators, Compressors, EST.)

Comes another growing problem, that of calculated and opportunist theft. With keys left in ignition and doors unlocked, it's a thief's dream come true. As you are well aware insurance companies are not keen to pay out on claims where keys are left in the vehicle.

We have an economical answer to this problem



The AVI Keyout

This is a professionally fitted unit that allows the vehicles engine to remain running after the keys have been removed, also allowing (in most cases) the driver to lock his cab doors thus protecting his belongings. This unit is fitted by our trained engineers at your premises or on site.

Eco Stop Start System

Introduction

This is only a brief snap shot of this product, it is still being developed, more information to follow.

The design of this product is to make a standard key out/run lock system more Eco friendly on welfare type vehicles etc. the aim is to help reduce our carbon foot print, reduce noise and preserve fuel without compromising the electric energy requirements of today's service vehicles.

How Eco Stop Start System works

Once the key out system has been activated by the driver the Eco Stop Start system monitors the vehicle's battery voltage. When the vehicle battery voltage drops below a predetermined* voltage the system re-starts the engine and runs the engine for a predetermined* time period. At the end of the predetermined* time period the system stops the engine and starts to monitor the battery voltage again. The system also as an additional input to activate this cycle from a logic battery pack or a manual restart via other switching devises.

*Depending on vehicle/customer requirements

Compatibility

- Works with our key out system.
- Works as an upgrade to OEM systems on Iveco Daily.
- Works with our key out system fitted to the latest Ford Transit, Sprinter, Movano, Ducato, Crafter Hi-lux and many other vehicle types.
- Software development still under way with other manufacturers models.
- Output to control analogue and PWM clutch switches.
- Output to control additional key transponder present interface requirements.

AVI DVR 4 Mobile Digital Video Recorders

The AVI DVR 4 is a Mobile Digital Video Recorders (MDVR) specifically designed for the UK market.

All of our MDVRs are equipped with solid state drives that are immune to damage from the harsh bumpy environments associated with HGVs.

The AVI DVR 4 is a 4+1 channel MDVR with both normal PAL and AHD recording.

Features:

- 8-36V Operation 4G/WiFi (optional)
- SATA Drive Connection
- SD Card Backup
- 4x SD or 720P AHD Channels
- 1x 1080P AHD Channel
- 1x Video Output for Monitor
- Multiple trigger Inputs to Control Video Outputs.



360 Degree Camera System

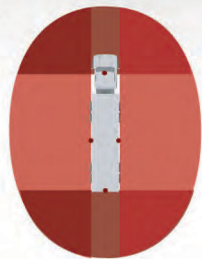
IRIS 360



The Iris 360 is an advanced 360 degrees camera system for vehicles which provide drivers a surround view all around the vehicle, making parking, reversing and manoeuvring safe and easy. The Iris 360 eradicates all blind-spots and can be calibrated to any form or range of vehicle. The images from the four, ultra-wide angle lens cameras are merged together to present the handler with an easy to interpret 360 degree visual, confirming no blind-spots.

All vehicles will have their blind areas: areas around the automobile that are unseen by the driver. When on the move, not being able to see the blind spots enables a risk of danger to anything and anyone in the vehicles way which leads to the driver not being safe on the road.

- Allows the driver to eradicate all blind spots
- Complete view of the surrounding area in a single image
- System that has been specifically designed for all plant applications.



WHAT THE IRIS 360 OFFERS:

- | | | | |
|--|--|--|--|
|  FULL HD
1080p HD RESOLUTION |  RECORDING |  WIFI |  4x 128GB STORAGE |
|  IMAGE COMPRESSION |  GPS |  FISH EYE CAMERAS |  10-32V POWER |
|  EASY CALIBRATION |  -20°C ~ +70°C WORKING TEMP | | |

ADDITIONAL OFFERS:

- | | | |
|--|--|--|
|  LIVE STREAMING |  REMOTE 4G DOWNLOAD |  HARD DRIVE BOLT ON |
|--|--|--|

360 Degree Camera System

WHAT THE IRIS 360 OFFERS:



HD 1080P VIDEO INPUT

Allows for a high quality 360° view around the vehicle to help identify hazards in greater detail and in better condition for later review.



RECORDING TIME

Titan utilises variable bitrate recording which allows Titan to extend recording time and reduce wear-and-tear on the SD card. At minimum recording quality 35-40 hours of saved footage is easily achievable, whereas events can be saved for up to 6 weeks regardless of recording quality.



WIFI

WiFi functionality for the automatic backup of video files when the vehicle returns to the base of operations, so you don't lose any potentially valuable footage when an incident has been claimed to have happened after older footage has been overwritten from the SD card.



4x MAX. 128GB STORAGE

Supports from 32gb to 512gb of customisable storage capacity across 4 separate SD cards to fit multiple budgets and requirements.



IMAGE COMPRESSION

The H.264 CODEC is a standard of encoding video & audio which provides good video quality at lower a bit-rate than previous versions of the same CODEC (equivalently using less storage space) and is utilised by streaming services such as YouTube & Netflix along with being one of the standard encoding types for blu-ray disks.



GPS

Allows for accurate location data to be saved alongside video data so if an incident occurs there is an extra layer of security proving detail of exactly where the vehicle was at the time in question.



FISH EYE CAMERAS

190° angle cameras allow for a large area both horizontally and vertically to be captured, giving a good view of anything surrounding the vehicle.



DC POWER: 10 ~ 32V

A wide voltage range allows for installation on a large number of vehicles within many different industries from goods transport, passenger vehicles, plant machinery and more.



EASY CALIBRATION

Calibration made simple using 4x calibration mats around the vehicle. Supports vehicle lengths over 15m and heights of over 4m. Custom vehicle sizes and shapes along with non-symmetrical dimensions can be programmed via laptop with ease.



-20°C ~ +70°C WORKING TEMP

Allows for operation in a wide range of conditions without restricting where the vehicle can be used or having to lose valuable data in case of temperature extremes.

ADDITIONAL OFFERS:



LIVE STREAMING

Live streaming gives you the benefit of seeing exactly what is happening in and around your vehicle in real time. If the situation arises you are able to 'dial in' and advise your driver on a variety of situations whether the issue is established as logistical, operational, safety, or criminal in nature.



REMOTE 4G DOWNLOAD

4G functionality has been on the rise recently and for good reason. Having a live DVR affords you a host of extra features to save time and cost when dealing with an incident. View your vehicles location in real-time, see what your driver sees through live streaming of video and download last week's footage in a moment via web browser or mobile app.



HARD DRIVE BOLT ON

The Iris 360 allows you to connect through the Nysus with the 360 system. With the Hard drive bolt on attached to the system. It allows all the 4 channels being displayed to be placed as once screen which is stitched together and also allowing another 3 open channels for more cameras to be displayed on the system.

ADDITIONAL OPTIONS:

VRS 800 RADAR SYSTEM

Virtus Fleet's Proximity sensor Radar System is built on millimeter wave technology allowing for good performance in all weathers in a fraction of install time. It's highly helpful for reversing & parking and widely used in large vehicles such as commercial vehicles, construction machinery, and agricultural machinery.

Contact us for more information.

VRS U810 ULTRASONIC SYSTEM

Our 12 channel radar system is designed to surround the vehicle giving a 5 meter (16ft) distance in all directions. It achieves real-time display of the obstacle distance on your in-cab monitor and can also be used in conjunction with the Virtus Fleet's Iris 360 system to give you full coverage and detection of vehicle blind spots.

Contact us for more information.



Wing Mirror Dual View

1080p Wing Mirror Dual-View DVR Kit

Short Arm Kit D-Kit-0022



Long Arm Kit D-Kit-0023



Increase visibility and safety on your HGV with our dual camera DVR system. The cameras can be used to replace the current mirrors, enabling a better view of side and blind-spot areas to increase safety.

The built in DVR feature enables you to capture footage for insurance purposes, if needed. Choice of short or long arm camera, depending on vehicle type.

1080p Wing Mirror Replacement DVR Kit

MONITOR	CAMERAS	DVR
Built-In Speaker: 2W (Reversing Instruction)	Near View Camera Resolution: 1920x1080	WDR Recording Both Day & Night
Triggers: 3	Distant View Camera Resolution: 1920x1080	Dual Recording Of Both Cameras
Monitor Size: 337.7mm x 155mm x 117.7mm	30 fps	Loop Recording
Resolution: 1920x720 Vertical Screen	CMOS Image Sensor	Auto Record When Power On
1 x SD Card Slot: Maximum 128GB Storage	Auto Heating	Preview Of Two-Way Videos
Power: 12/24V	Auto Fill-In Light	Support 27s Of Time-Lapse Recording When Power Off
WiFi	HD Star Light Colour Night Vision	Time-Lapse Photography
Auto Brightness	Supports WDR/HDR Imaging Technology	SD Card Capacity Up To 128GB
Buttons And Remote Control Operation	Anti-Fog, Anti-Glare, Anti-Rain	
Supports Reversing View (Optional)	Waterproof, Dustproof	

TFT LCD Monitors for reversing cameras



24 volt vehicles 7 inches colour monitor

TM- 564A (BLACK)

- 5.6 diagonal 9AUO grade A new TFT panels)
- NTSC/ PAL auto-switching
- 960(H) x 234(V)
- 350 cd /m²
- 350:1
- (U/D L / R):50/50, 15/35 degrees
- 2 video inputs, composite RCA
- 2 s-video for camera images
- Power supply DC12V-12V 1.5A
- Colour / Brightness/ Contrast/ Dimmer: Adjustable by OSD

AW-9206 Camera

The AW-9206 is a water proof colour camera with night vision, suitable for internal and external use on light commercials.

- 300 mA Current Consumption.
- Power Supply (DCV).
- -20°C ~ +75°C Operating Temp
- Black
- 55H x 47W x 40Dmm
- 12 volt Operating Voltage (DCV)
- Auto Focus 1/4" Colour CCD lens.
- 145° Degree Lens Angle
- Ultra Low Light Performance.
- 0.01 lux Minimum Illumination
- 9 Infrared LEDs • PAL



AW-9880 Camera

The AW-9880 is a heavy duty waterproof colour camera with night vision, suitable for internal and external use on HGVs, Light Commercials.

- 300 mA Current Consumption.
- Power Supply (DCV).
- -20°C ~ +75°C Operating Temp
- Black or White
- 88H x 43W x 50Dmm
- 12 volt Operating Voltage (DCV)
- Auto Focus 1/3" Colour CCD lens.
- 120° Degree Lens Angle
- Ultra Low Light Performance.
- 0.02 lux Minimum Illumination
- 18 Infrared LEDs



AW-T013 Camera

The AW-T013 is a water resistant side-mount colour camera with night vision, suitable for internal and external use on HGVs and light commercials. Can be mounted for left, right or rear vertical orientation.

- 300 mA Current Consumption.
- Power Supply (DCV).
- -20°C ~ +75°C Operating Temp
- Black or White
- 88H x 43W x50Dmm
- 12 volt Operating Voltage (DCV)
- Auto Focus 1/3" Colour CCD lens.
- 170° Degree Lens Angle
- Ultra Low Light Performance.
- 0.02 lux Minimum Illumination



TFT LCD Mirror Monitors for Reversing Cameras



Display:	7.0" Diagonal (AUO grade A new TFT panels)
Colour System: Resolution:	480 (14) x 234 (V)
Display Format:	16 : 9
Colour System:	RG8
Contrast Ratio:	350:1
Signal Input:	2 x Video Inputs (S-Video)
Power Supply:	DC12-16V / 1.5A
Consumption:	6 W
Temperature Range:	-20°C - 65°C
Mounting Bracket:	Self Adjusted Spring-loaded Clip Bracket
Adjustable:	Colour / Brightness / Contrast

Forward Facing Camera

D-CAM-01252

Condition: New product Tamper proof hardware, encrypted, password protected software, full HD 165° angle recordings at 30 fps, purpose designed Format Free Technology, Independent G-sensor controls, battery protection, compatible with 12v & 24v vehicles make Titan 1 a versatile and reliable addition to any fleet manager's arsenal

- 1920x1080 Forward facing camera
- 30 Frames Per Second
- 165 Degree camera angle
- Tamper-proof
- 3 Recording modes - Driving, Parking & Event
- Built in 11-bit Axis sensor (X,Y,Z)
- Supports Micro SD card up to 128Gb (sold separately)
- 40 Hours recording time (Maximum)
- High sensitivity microphone with PCM compression
- 12-24v
- Built in battery protector
- Format free
- Built in ignition timer relay

Recording times for Titan I

	16GB	32GB	64GB	128GB
High	3h	6h	12h	24h
Med	4h 30m	9h	18h	36h
Low	6h	12h	24h	48h



AVI Side Scan

The system will only activate when the vehicle is moving below 10 mph* and the left hand indicator has been applied (we can pre-set the unit to any preferred speed)

The system is de-activated when the hand brake is applied to prevent nuisance operation. The system will also de-activate approximately 5* seconds after the L/H indicator is cancelled provided that the vehicle is still travelling below the speed listed above.

- An optional external warning can be triggered to repeat the instruction 'Warning this vehicle is turning left'.
- The driver is warned by both visual and audible signals in the cab of an obstruction within the detection zone.
- The display is the same as the front corner traffic light system but we usually mount this sideways on the A-pillar.
- The warning zones are 'green' 600mm, 'amber' 450mm final 'red + audio' 300mm.
- Sensors are 22mm flush mount or under mount dependent on the side design of the unit.
- Main ECU is chassis mounted on the n/s of the vehicle in an IP67 enclosure.

*these parameters can be altered to suit your customers' requirements if different.



HGV Park Brake Alarm



Voice message alerts driver if they attempt to exit the vehicle without the park brake applied.

Once activated the warning will continue until the park brake is applied.

- Operates independently of vehicle ignition switch.
- Radio mute facility - silences radio whenever cab door is open.
- Beneficial when operating in residential areas especially at night time also helps ensure message is heard when park brake alarm operates.
- Once activated park brake (Handbrake) must be applied to silence.
- 90 db Voice warning message:- "Warning - Apply Park Brake"
- Rugged construction - encapsulated with internal mylar cone speaker housed in easy mount enclosure.
- 122 x 84 x 55 mm. Fixing centre 102 mm.
- Operates on 12 or 24 volt.

Products available for Petroleum Regulation vehicles;
Shunters; Buses; Specialist vehicles and Plant.

FRONT PARKING SENSORS

4 front sensors with control unit, push button, speaker and adapters.

The universal parking system which relies on the reflection of sound waves emitted by ultrasonic detectors spaced equally across the bumpers, to assure the best read-out. They are easy to install on all types of bumpers, even metallic ones, internally for a flush factory-fitted look or externally with specific adapters.

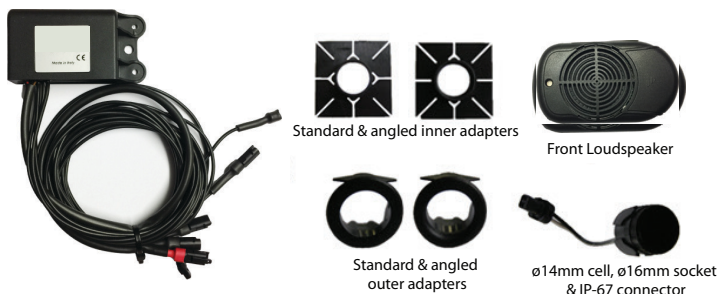
The PDC (Park Distance Control) system comes with 1 acoustic warning loudspeaker (master device), 1 resin-filled control unit (slave device), a manual ON/OFF switch with LED indicator and 4 compact waterproof sensors. The proximity sensors are configurable via the loudspeaker (buzzer) according to your preferences and bumper type.

MAJOR ADVANTAGES OVER EXISTING PRODUCTS

- 58kHz sensor heads, small in size and less intrusive, which boast unsurpassed sensitivity.
- Molex connector provides a secure IP-67 sealed connection.
- 360° swivel inner and outer adapters, standard or 10° angled.
- Automatic, self-diagnostic function: system excludes any faulty sensor and keep the other ones active.
- Sensors and fixing can be painted to colour match your vehicle.
- Ease of install, less wiring to run through bulkhead.
- Programming of system via speaker or PC

Main programmable parameters

- sensor detection zone
- stop zone
- vehicle speed signal input, to allow sensors to automatically switch on below 15km per hour
- selectable activation of front sensors with time-window or ON/OFF push-button
- speaker volume
- Power supply: 12/24V

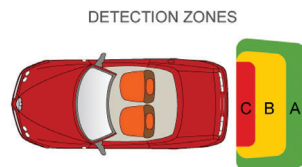


REAR REVERSING SENSORS

4 rear sensors with control unit, speaker and mounting adapters.

The Park Distance Control (PDC) kit comes with 4 proximity sensors designed to alert the driver in case of obstacles behind the vehicle. The system can also be tailored to suit any particular vehicle.

The 514 is a universal parking system which relies on the reflection of sound waves emitted by ultrasonic detectors spaced equally across the bumpers, to assure the best read-out. When enabled, the system provides an instant, automatic, self-diagnostic function: it will exclude any faulty sensor and keep the other ones active.



The waterproof sensors can be set up so as not to be impeded by a rear mounted spare tire/tow bar and spray painted to colour match the bumper.

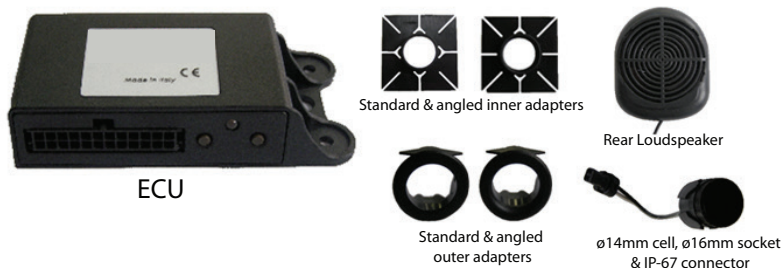
Sensitivity, detection range and buzzer volume are adjustable to the preferred level via the 2 buttons on the ECU or via a dedicated configuration software.

MAJOR ADVANTAGES OVER EXISTING PRODUCTS

- 58kHz sensor heads, small in size and less intrusive, which boast unsurpassed sensitivity.
- Molex connector provides a secure IP-67 sealed connection.
- 360° swivel inner and outer adapters, standard or 10° angled.

Sensors can be configured via a user-friendly PC software.

The dedicated interface also allows reading and overwriting previously configured parameters.



SmarTrack uTrack Fleet Assist

This system is designed to manage your fleet and save money on fuel and time sheets

uTrack features:



- 1 minutes updates (5 minute periods)
 - Stop/ start reports
 - Geofence available
 - Full Google mapping, internet based (no extra software needed)
 - Live track on individual or whole fleets
 - Email reports of over speeding vehicles
 - 12/ 24 volt compatible Integrated GPS aerial (sirfstar III) for stealth fit
 - Battery back up as standard
 - Full printable road name and area on reports
 - Transferable
 - If your driver knows that their vehicle is fitted with a tracking device they will become very aware to their speed, punctuality, fuel use and general driving behaviour!
 - Improve your driver's time and time sheet keeping.
 - Improved driving style, system monitors speed and will email over speed warnings.
 - Reduced un-necessary mileage, including evenings and weekends.
 - Reduced idling of engine, excessive lunch breaks.
 - Very easy to use with no additional software, simply log in anywhere to check your fleet.
 - Weekly printable time reports
 - History log for duration of subscription
- SmarTrack the Market Leader in Stolen Vehicle Recovery brings you Fleet Assist, their innovative fleet/asset management system combined with stolen vehicle recovery.

SmarTrack is recognised as the market leader throughout the UK for stolen vehicle recovery. Always innovating and bringing real benefits to thousands of customers day in and day out. Nothing is impossible and nothing is too much trouble.

The SmarTrack secure control centre is continually staffed is your fleet manager available 24 hours?

SmarTrack uTrack

This system is designed to manage your fleet and save money on fuel and time sheets



uTrack features:

- 1 minutes updates (5 minute periods)
- Stop/ start reports
- Geofence available
- Full Google mapping, internet based (no extra software needed)
- Live track on individual or whole fleets
- Email reports of over speeding vehicles
- 12/ 24 volt compatible
- Integrated GPS aerial (sirfstar III) for stealth fit
- Battery back up as standard
- Full printable road name and area on reports
- Transferable

If your driver knows that their vehicle is fitted with a tracking device they will become very aware to their speed, punctuality, fuel use and general driving behaviour!

- Improve your driver's time and time sheet keeping.
- Improved driving style, system monitors speed and will email over speed warnings.
- Reduced un-necessary mileage, including evenings and weekends.
- Reduced idling of engine, excessive lunch breaks.
- Very easy to use with no additional software, simply log in anywhere to check your fleet.
- Weekly printable time reports.
- History log for duration of subscription.

SmarTrack Protector+

Smart rack Secure Control Centre will monitor the vehicle 24/7 for any unauthorised movements or vehicle battery disconnect warnings. SmarTrack will liaise with any Police forces on a level 1 response to recovery the vehicle for you in the event of a theft.



Features of Protector+:

- Stolen Vehicle Recovery only.
- Guard and Recovery GPS / GSM technologies for location and communication
- 24 Hour Secure Control Centre
- Thatcham Approved (TQA Accredited)
- Transferable from vehicle to vehicle (by a SmarTrack approved engineer only)
- Motion sensor incorporated (signal sent to control room)
- Battery Disconnect Warning sent from vehicle to Secure Control Centre
- Signal sent to Control Room when vehicle alarm is triggered (Optional)
- Onboard rechargeable battery back up
- Regular unit self check (Every 45 days) monitored by Secure Operating Centre
- 3 year warranty

Front & Rear Slam Locks

PURPOSE

Automatic heavy duty lock for roller shutters on trucks, trailers and swap bodies.

OPERATION

- Automatically locks when shutter is pulled down
- Opens with simple ¼ key turn
- Internal safety release feature.

FEATURES

- Totally protected stainless steel belt
- Tough 3mm steel case construction
- Self-centering in keeper
- Cannot be forced or prized open
- Weather-proof lock mechanism
- Hidden clamping to traditional locking bar
- Available in multiple, common key, sets

SPECIFICATION

- Mechanical cylinder lock
- Concealed bolt fitting system
- 75,000 operations maintenance schedule.

TYPICAL USERS

- Reality Ltd.
- Nightfreight Ltd.
- Crowfoot Carriers Ltd.
- Royal Mail

ORDER OPTIONS

C1 wide or C2 narrow slat versions

Single lock or matched barrels with up to five locks



High Security Dead Locks

High security door lock fits all LCV and HGV vehicles.

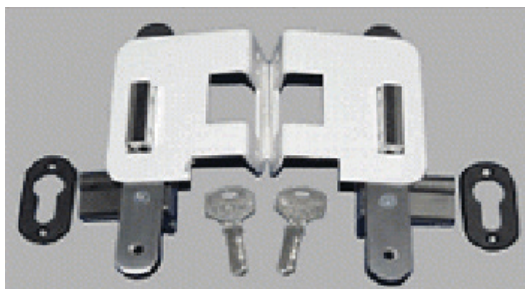
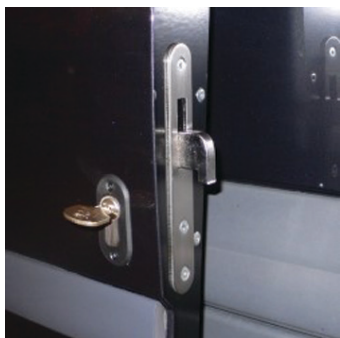
Keyed alike for all doors.

Insurance approved.

Professionally fitted by engineers with 25+ years' experience.

To ensure that our kits are the most appropriate for the specific application we use a wide range of lock cases, barrels and ancillary components

All manufactured to our own exacting specifications.



Armour Locks

How does it work?

Working independently from the manufacturers' locking system, the Lock is mounted externally, bracing the doors together, providing a strong visual deterrent. When fitted higher in the door, it also protects against the door from being bent down. It offers more flexibility to the operator of the vehicle, allowing them to use the central locking in less vulnerable situations but offering extra security when required.



- Available, for the side load doors and rear barn doors only.
- Small footprint allows it to be installed in several positions.
- Lock kits are vehicle specific.
- Suitable for electric and hybrid variants

Inverters

Here are a few options listed below, but we offer many more.

Option 1

A 500 watt inverter from 12volts DC to 230volts AC to run directly off the vehicles battery. This option will allow only small current drawing appliances to run i.e. Laptops/battery chargers, no power tools.

Option 2

A 700 watt inverter from 12volts DC to 230volts AC to run directly from an auxiliary 75amp/hr battery with a split charge from the alternator to recharge the auxiliary 75amp/hr battery. This option will allow the use of small power tools.

Option 3

A 1000 watt inverter from 12volts DC to 230volts AC to run directly from 2 x auxiliary 75amp/hr battery with a split charge from the alternator to recharge the auxiliary 75amp/hr batteries. With a key out system to allow the vehicles engine to run while using the inverter to maintain the battery levels, without compromising the vehicles security.

This option will allow the use of power tools.

If prolonged use of the inverter is required, we recommend a key out system to allow the vehicles engine to run while using the inverter to maintain the battery levels, without compromising the vehicles security.



Eberspacher Heating

Eberspacher air heaters are independent both of the engine and of the vehicle's own heat balance.
They draw in cool room or outside air, heat this up and then deliver it to the interior of the vehicle.

Air heaters are an excellent solution for commercial vehicles of every type. They can be installed just as well in the cab as in the luggage compartment, or under the floor.

Practical controls - such as a digital Eberspacher timer or an innovative Eberspacher radio remote control - makes your comfort perfect.

EBERSPÄCHER AIRTRONIC



Diesel Version		Airtronic D2 with 60mm Hood			
Voltage	Volt	12 / 24			
Controls		Low	Medium	High	Power
Heat Output	Watt	850	1,200	1,800	2,200
Air Flow Volume	kg / h	40	60	90	105
Electrical Power Consumption	Watt	8	12	22	34
Fuel Consumption	l / h	0.10	0.15	0.23	0.28
Dimensions L x W x H	mm	310 x 115 x 122			
Weight	kg	2.7			

Goods in Transit Alarm

- Approved by GIT insurers
- Automatic arming
- Battery back Up
- Independent open and close circuits & ignition circuit
- 120Db siren
- Dallas touch key disarm pads with arm LEDs built in.
- Immobilisation circuits

BOX BODIES

INTERIOR SENSORS

DOOR CONTACTS

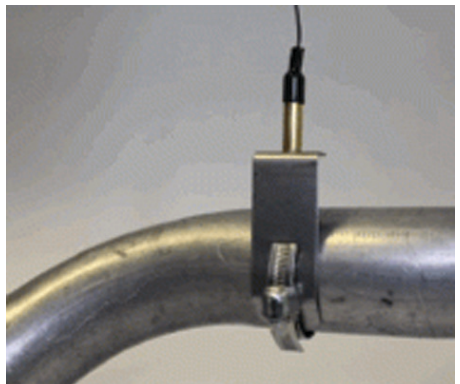


Catalytic Converter Alarm / Security System

The custom designed sensors are harmonically tuned to the type of frequencies generated on the vehicle's exhaust system when an attempt to cut, burn or un-bolt the catalytic converter is made. Any attempt to remove or interfere with the sensors or wiring will result in an immediate alarm condition making the ProCatt totally secure.

Main Features

- Complete Solution for Catalytic Converter Protection
- Universal Fitting for All Types of Vehicles
- Fits 12/24Volt Vehicles
- LED Visual Warning Of ProCatt Fitted
- LED Indication of Any Attempted Theft
- Custom Designed Sensors
- Automatic Arm and Disarm
- Stainless Steel Brackets
- 2 x Window Warning Stickers
- ProCatt Is a Complete Catalytic Converter Alarm



Water Heater

Our water heaters are like intelligent travel kettles.

They provide hot water for drinks in a safe, efficient way.



Battery Guard

Battery Guard are the ideal solution for operators and installers, when batteries need to be protected from heavy discharge due to additional loads being fitted.

The Battery Guard is a Microprocessor controlled, solid state, switch (FET). The battery voltage is constantly measured, and an alarm output will be activated when the battery voltage is too low for 15 seconds.

This alarm output can be connected to a buzzer or small lamp. If there are no changes within the next minute the Battery Guard will disconnect. When the battery voltage is much too high the consumers will be disconnected immediately and the alarm (contact) will be activated alternating on and off.



BA-32 Nightshift Backalarm

- 90DB
- 12–24V
- CE & 'e' Marked (EMC)
- 1 Year Warranty



Nightshift Technology -
with built in override allows vehicle reversing in built-up areas during
restricted hours 23.30 – 07.00

White noise also available

Hand Wash System



Remote alarm system with two points of immobilisation and multi-point central door-locking.

WIRELESS SENSOR COMPATIBLE

Features

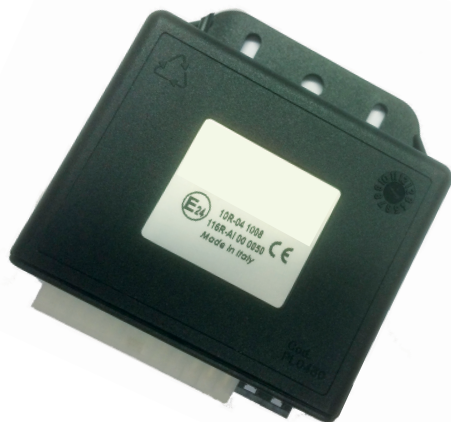
- two 2-button remote controls
- touch key override
- built-in ultrasonic sensor
- exclusion of sensors
- LED status indication
- waterproof coded battery backup siren
- additional input for hard-wired sensors
- output for telematic device activation
- universal central door-locking and comfort system closing*
- double engine immobilisation

Installer

programmable features:

- excludable audible warning during arming/disarming
- panic alarm or boot opening
- passive arming
- automatic rearming and automatic door-locking when driving (safety lock)*

*vehicle specific



Thatcham[®]
Quality Assured

Upgrade alarm system that works from the original vehicle remote control via the CAN bus system

Compatible with over 200 vehicles.

ALFA ROMEO - AUDI - BENTLEY - BMW - CHEVROLET - CHRYSLER - CITROEN - DODGE
 FIAT - FORD - HONDA - HYUNDAI - IVECO - INFINITI - JEEP - KIA - LANCIA - LANDROVER
 LEXUS - MASERATI - MAZDA - MERCEDES - MINI - MITSUBSHI - NISSAN OPEL/VAUX-
 HALL - PEUGEOT - PORSCHE - RENAULT- SAAB - SEAT - SKODA - SMART SUBARU -
 SUZUKI - TOYOTA - VOLKSWAGEN - VOLVO

Features:

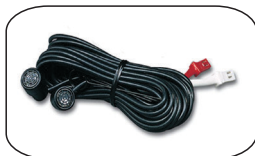
- touch key override
- built-in ultrasonic sensor
- exclusion of sensors
- LED status indication
- waterproof coded battery backup siren
- additional input for hardwired sensors
- output for telematic device activation

Installer

Programmable features:

- excludable audible warning during arming/disarming
- passive arming
- comfort system closing*

*vehicle specific



Thatcham®
Quality Assured

The AP900 Series Cruise Control allows the driver to cruise at a desired speed by monitoring the vehicle road speed and by finely adjusting the vehicles throttle to maintain that speed.

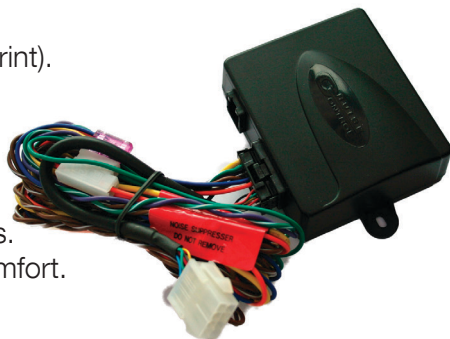
The Speed Limiter feature allows the driver to select a maximum speed that they do not want to exceed (this feature is useful whilst driving in areas with average speed cameras and built up areas)

Options of different control stalks and command modules with set, accelerate, resume, decelerate and On/Off buttons (CM35 has additional coast and memory features).

All stalks and command module allow you to tap up or tap down the set speed by 1kph/0.62mph.

Benefits

- Helps to reduce fuel consumption and exhaust emissions (lowering your carbon footprint).
- Allows you to concentrate on the road and not your speedometer.
- Helps avoid unintended speeding.
- Allows you to set a maximum vehicle speed limit in safety camera enforcement areas.
- Reduce driver fatigue and enhance driver comfort.



Safety Features

The Cruise Control systems is fitted with numerous safety features, which will disengage the system by any of the following methods:

- Depressing the brake pedal.
- Press the OFF/Coast button of the command module/stalk.
- Over-rev protection of the engine when a clutch switch is fitted (manual gearbox optional).
- Decelerating to below 75% of the set speed.
- Over speed dropout (150% of the set speed).
- Brake light bulbs or brake light fuse failure.

Note: Some vehicles may require additional interfaces for connection into vehicle speed signal circuits and clutch switch circuits.

12/24V two point immobiliser supplied with 2 electronic touch keys.

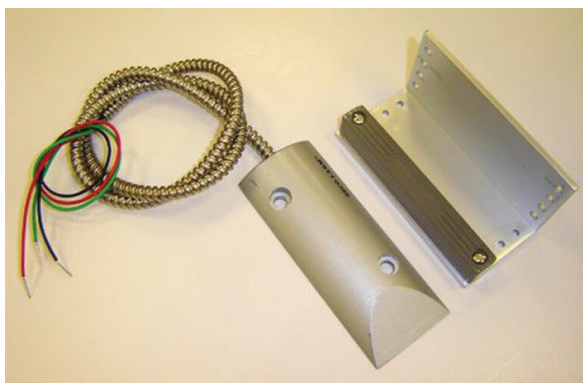
Features:

- touch key override
- LED status indication
- double engine immobilisation
- resin filled
- waterproof
- passive arming
- output to activate auxiliary devices (eg. tracking systems)



Heavy Duty Reed and Magnets

Upgrade original OE Vehicle Alarm System with Heavy Duty Contact Switches.



Diamond 12m Quad PIR Detector

Quad PIR Detector 34020

Microwave and passive technology

15m range

Tri colour LEDs, red for alarm.

Has a quad element to reduce false alarms,

Coverage of 12mx12m with a coverage angle of 110 degrees.

This passive infrared sensor (PIR) detector can be added to give protection to rear internal van space.



Freightlock

External Key Electrically Operated Slam Locks

Slam lock will lock after shutter is down, to release the lock insert external key and turn clock wise.



LED Interior Lamps

Range of slim line LED interior lamps incorporating small, high brightness LEDs that have an incredible light output for their size.

The large, 143mm diameter lamp incorporates 120 LEDs = approximately 95 lumens

The small, 75mm diameter lamp incorporates 30 LEDs = approximately

A range of round LED interior lamps incorporating small, high brightness LEDs that have an incredible light output for their size.

- Operate at both 12v and 24v
- Sleek contemporary design
- Durable housing and polycarbonate lens
- 3 years manufacturer's warranty



Roof Vents

Roof Ventilator

"TURBO II"

Colours: Black or White

Standard mounting set suits roof thickness 1mm – 21mm

Other Mounting sets available on request

Rotating Exhaust Vent White Suction
1,2 2 Ball ABS Complete with Interior
Grill & Shutter

02-7100 Rotating Exhaust Vent Black Suction
1,2 2 Ball ABS Complete with Interior Grill & Shutter



LED Beacons & Lightbars

- Low profile 12LED R65 approved beacon
- Magnetic mount versions wind speed certified to 250km/h (155mph)
- Night dim mode
- Cruise mode - steady low level illumination
- Multiple units can be synchronised

5 YEAR WARRANTY

R65
Class 1

R65
Class 2

SINGLE OR
SPLIT COLOURS

Magnetic mount
versions wind speed
certified to
250km/h
(155 mph)

3-3541-x-M-SL2

Mini LED Light Bar

A neat and economic solution and at only 110mm high it is the lowest profile light bar on the market to include rotators.

- Dual voltage belt drive incorporating whisper quiet rotators
- Magnets specified for use up to 70mph
- Supplied complete with cigar plug connector
- Dual rotators or quad flash strobes
- 12v and 24v operation available, strobe versions 12/24v operation
- Available in Amber, Blue and Green
- 'e' approved: EMC 95/54/EC

Dimensions: 406mm (L) x 210mm (D) x 110mm (H)



Fire Extinguisher (Powder / Foam / Co2)

ABC powder extinguishers are suitable for Class A (paper wood textiles), B (flammable liquids, petrol, paints etc) & C (flammable gases, propane and butane) fires. They can also be used effectively on electrical fires.

How does it put the fire out?

The powder interferes with the combustion process of the fire and provides rapid knock down.

Useful Information

Powder extinguishers cover most multi-risks and work in freezing conditions down to -20C

Product Specification

6kg ABC powder extinguisher:

- 34A 113B fire rating
- Assembled, filled and with wall bracket
- Ready to use with pre delivery maintenance label
- 5 year warranty
- Manufactured to BSEN
- BSI Kitemarked
- CE Marked
- BAFE Approved
- Charged weight 9.3kg
- Height 549mm
- Cylinder diameter 160mm
- Minimum discharge length 4m
- Minimum discharge time 12 seconds
- Temperature range -20 to 60C
- Manufactured in the UK/EU



ABOUT US

Associate Vehicles Installations (AVI) was founded by ex-employees from large fleet companies; we are a friendly and personal team working together for the benefit of our customers.

We are a consortium of engineers who between us have many years of experience in the security industry, specialising in vehicle solutions. Our engineers are spread out across the country and this has made it possible for us to offer full national coverage. All our engineers are approved to install to electric vehicles.

We have large contracts already on board, some of which include Lex Autolease, John Lewis, Russell & Bromley, Ari Ltd etc. we pride ourselves on the quality and reliability of our products and our very high standards of installation and service.

The products we offer consist of Satellite Navigation, Security Tracking Fleet Management, Alarms & Immobilisers, good in Transit, Safety Equipment including reverse alarms, sensors and reverse cameras, hand wash systems, physical security systems such as slam locks, dead locks, electronic locks etc. we can also supply and fit beacons and light bars, inverters and other applications on request.

WE are M.E.S.F. and V.O.S.A Approved and our Managing Director is on the board of the MESF.

We can maintain very competitive prices on the majority of our products, due to the volume of vehicles we are currently dealing with.

If you require any additional information or would like to discuss any of our products or services in detail, please don't hesitate to contact us.

AVI (ASSOCIATE VEHICLE INSTALLATIONS) LTD.

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