



TRUCK SAFETY SYSTEMS 2024 AND BEYOND

DIGITAL RECORDING CAMERAS, COLLISION PREVENTION,
INCIDENT PROTECTION, LIGHTING, DRIVER COMFORT



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The challenges facing fleet managers and vehicle operators on a day-to-day basis is stressful enough. Add an incident to the mix, and this can ignite a whole raft of issues over the next few days, weeks or months and could include everything from an off-road or decommissioned vehicle to huge repair costs along with the loss of revenue and almost certainly a potential rise in insurance premiums.

For serious incidents you may well be the subject of a Traffic Commissioners public enquiry, with the potential for prosecution, that may well lead to fines, custodial sentences and if proved negligent the closure of the business (it has happened).

Road Safety has become a primary concern for Governments, and safety organisations such as Freight Operator Recognition Scheme (FORS) and Construction Logistics and Community Safety (CLOCS). Manufacturers have invested in vehicle safety with advancements in Autonomous Emergency Braking (AEB) systems and Collision warning alerts.

With new General safety regulations mandated to new build vehicle specifications, from July 2024, Operators will need to adapt to the ever-changing vehicle technology being introduced to their businesses including AI and fully compliant recording units (the witness).

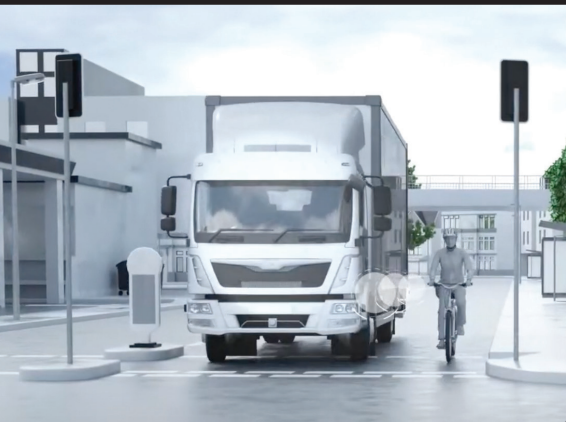
All of these advancements are aimed at reducing 'Road Deaths' or 'serious injuries' on our roads. And, although there will be some additional costs to new vehicles for these 'Safe Systems', the benefits measurably outweigh the expenditure both in terms of downtime, man hours and other vital resources.

Join us through-out this guide as we show how these new systems relate to your business, in terms of compliance, operation and the potential positive affects on profitability, all the while reducing the risk of a serious incidents.

DRIVER ASSISTANCE

AI – the next Generation Predictive Side Scan

This intelligent system predicts if a collision is likely to occur. By analysing data such as speed, direction and acceleration of both the vehicle and detected object, and differentiating between static and moving objects, the Sidescan®Predict algorithm assesses the risk and calculates the likelihood of an impact. Additionally the system remains in constant operation at 20 mph or lower, when turning left or straight ahead at junctions.



Reduced the risk of fatalities by an additional 84%.



For the driver this means no more false alerts, leading to distraction or complacency. You can couple this with an option of a verbal warning system ie 'Danger Left' as opposed to a beep, the driver's perception time to understand what the alert is for is reduced, improving driver reaction time to take corrective action avoiding a collision.

The Halo® System



The HALO® system was designed to solve issues where vulnerable road users may be unable to hear or understand audible warnings.

Ideal for situations where road users may be wearing headphones, have a language barrier, or experiencing loud road conditions which may prevent those around your vehicle from hearing your turning warning system, HALO® provides the solution.

Can stand alone or would work well with Sidescan Predict

HALO® Lighting – A visual warning to vulnerable road users who are close to your nearside or offside, indicating that your vehicle will be turning, as it flashes an amber 'Halo' on the ground in unison with your indicators. These high intensity LED lights are also fitted with a speed switch, so that they are only activated by the indicator at lower speeds.

Red zone: Provides a visual red zone, identify 'at work' risk areas. Ideal for tippers, tail-lift in operation and plant vehicles.



AI TECHNOLOGY

The next Generation EYES Camera

CAREYE® uses AI to accurately evaluate images from cameras fitted to the vehicle and can calculate future motions of nearby people and objects. Based on this data, the system reliably and accurately warns the driver in real-time of a possible collision or incident before occurrence. Warnings are issued either actively with an audible response and visual red alert if a person or object is at risk of being hit, or passively with a visual yellow alert if, for example, a person or object is moving away from the danger zone, dramatically reducing false alerts.

The accuracy of CAREYE® 'AI' means that false alerts are extremely rare and gives the driver peace of mind knowing that they can manoeuvre

safely. The system differentiates between cars, trucks, people, bicycles, and static objects, such as trees or bollards. Movement and the expected direction is then calculated, ensuring the system is extremely trustworthy and reliable which can only lead to safer driving.



Truck Door Windows



The truck door windows we fit are ideal for Direct Vision compliance and provide the truck driver visibility lower down the door on the left-hand side of the truck where Vulnerable Road Users (VRUs) often appear. Those installed by **SM UK** allow the passenger window to remain operable, unlike the factory fitted which are fixed window.

Installed to OEM standards, these windows provide the driver with greater visibility for spotting any potential vulnerable road users when turning left.

- Improves driver visibility
- OEM Quality – everything is installed to manufacturer guidelines
- Type Approved Glass – E11 43R.000206.
- Security & Strength – bonded with an aesthetic finish
- Easy To Clean – with no condensation or ingress of dirt
- Clear View – no mechanism obstructing view
- 12 Month Warranty – on installation and product defects
- Increases FORS scoring

SM UK has provided a top-quality installation and would go as far as to say that it looks like it was installed by the manufacturer themselves

John Fielding - J F Haulage

SM UK can install truck door windows to almost all manufacturers and models of truck and are installed so that existing cab windows remain operational.

PROTECTION

4G Whole Vehicle Camera System

SM UK Vehicle recording camera systems.

Camera systems are a valuable tool for drivers and transport managers alike. Removing blind spots and giving drivers greater visibility around their vehicles is proven to help reduce accidents and vehicle damage.



Mobile Digital Recorders (MDRs)

Footage can be stored on our MDRs, giving you access to an accurate witness and irrefutable evidence in the case of an incident. An MDR is a valuable asset for Transport Managers, helping protect against bogus insurance claims, protecting wrongly accused drivers, and encourages best practice from drivers whilst also giving fleet managers peace of mind.

Instant Access

Adding 4G to your camera system through Live View saves you time. With use of the Driver Event Button, the system will notify the transport office when an incident occurred. This means vehicles don't have to come back to site for you to download footage. You will have remote access to vehicle cameras at any time of the day, giving you an instant playback for analysis.

This is a significant advancement in being able to provide 'First notification of loss' (FNOL) to your insurer, within minutes of an incident, resulting in defending a non fault incident or minimising costs if your driver is at fault by allowing your insurer to take the lead on a claim.

DRIVER ASSISTANCE

Tyre Pressure Monitoring System

TPMS – Type Pressure Monitoring will be mandated from 2024 for all new vehicles. Some contractual criteria for aggregates already require these fitted on all new vehicles coming into service.

INTELLIGENT TPMS

Our Tyre Pressure Monitoring System (TPMS) brings significant advantages, including checking tyre pressures faster and more hygienic than ever before, with instant alerts for under inflation, fast leakage or should the air temperature inside the tyre rise significantly – often the sign of an impending blowout.

Through 4G and API into your existing telematics, alerts can be sent directly to the Fleet office, reducing potential vehicle downtime, through proactively managing pre-notified issues.



New for 2024

DRIVER ACTION ALERT

Driver Drowsiness and Attention Warning (DDAW) System

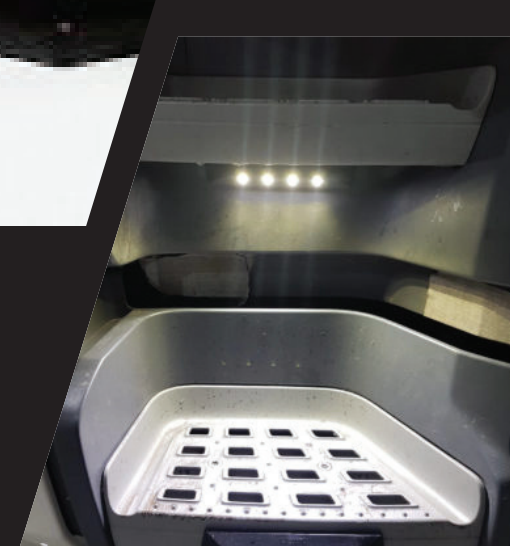
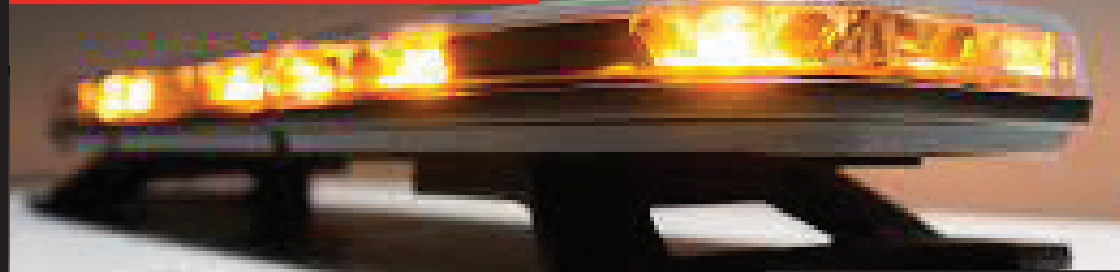
This alerts the Driver if the system detects loss of concentration, such as lane discipline, or if the driver is fatigued by identifying through facial expression or loss of attention.

As part of the General Safety Regulations for 2024, all new vehicles will require this type of system installed prior to going on the road. This may be specified at Factory, or retro fitted under type approval prior to registration.



New for 2024

Be Seen Lighting



Exterior Lights Increase Safety On The Road

Apart from increasing the driver's visibility, exterior lights can also increase the safety on the road for operators that drive at night or encounter extreme weather conditions by enhancing how well other drivers see the vehicle. **SM UK** Provide an array of additional vehicle lighting.

Besides safety and visibility, you can use vehicle lighting to express your individuality and style. To achieve this, there are numerous lighting solutions you can use.

Vehicle lighting is all about safety and communication

DRIVER COMFORT

Can you afford not to!

Driver retention is a primary concern for most fleet managers and whilst hauliers agree that the industry needs a face lift there is plenty that could be done to improve driver welfare in the cab. With limited and poor roadside facilities the addition of an in cab microwave and fridge gives the ability for drivers to provide themselves with a cooked meal and refreshments. Installing a smart TV for those long depot waits or nights out and overhead lockers, storage for personal effects, all of which makes it a better working environment for the drivers comfort.



TV

SM UK can fit a variety of TV's which can be easily mounted on a cab wall for the true 'home-from-home' experience. Many sizes and options available including Freeview, SMART and Built-in DVD.



PORTABLE COOL BOXES & 24V FRIDGES

We can provide a portable refrigeration unit that can be simply plugged in or hardwired to a 24v fridge into an existing tractor unit.



IN CAB FULL WIDTH LOCKER

3 individual storage compartments, colour matched to the interior, perfect for housing a 24v microwave and other essential creature comforts such as food and clothing.



MICROWAVE

In-cab microwaves are essential in ensuring that drivers are equipped with the tools to provide themselves with a hot meal! SM UK have different makes and models available to suit nearly all cab-types,

For those that wish to go that extra mile you could also consider a coffee percolator, air conditioning and clothes dryer.

Whilst some of the bigger trucking issues such as secure parking is at present out of the control of a fleet manager, these types of basic driver comforts are a relatively small expense, in terms of the lease cost of a vehicle, and they can have a big impact on the well-being of the driver and consequently driver retention.

ARE YOU COMPLIANT?

Compliance

Not only do we need to comply with the Highway code, Road Traffic Act, Operator compliance, there are also requirements for vehicles to meet contractual compliance, examples of these includes the High Speed Two (HS2) criteria for vehicles, Fleet Operator Recognition Scheme (FORS) and Transport for London Direct Vision Standard (DVS).

Don't adopt a tick box approach, or only provide the minimum requirement as this can potentially lead to being culpable for what are described as avoidable incidents. All of which could have a damaging effect on your company brand, reputation and profits.

Just because it is legal doesn't make it safe...
Be proactive!

FUTURE PROOF YOUR FLEET WITH SM UK

A minimum requirement is only the beginning.

Protecting your driver, providing your witness

Minimum standards



Ultrasonic Obstacle Detection

Sidescan® sensor system
4 sensor system increases safety when turning or low speed manoeuvring.



Warning Alarm

White noise alarm
Speaking alarm with side turning warning for cyclists/pedestrians. Activates on left turn indication and complements Sidescan® sensor system. Night time cut-off Press to silence alarm. Press again to re-enable. Ignition reset.



Camera Monitor Systems

Select range 7" Digital LCD Monitor. Rear view camera. Flush mount left side view camera.



Protecting your driver and business

Providing your witness for your protection



Ultimate recommended safety specifications



Warning Alarm
White sound alarms are the safest in the world due to their instant locatability and directional sound. The alarm is only heard in the danger zone, thus eliminating noise nuisance.

White Sound® smart reversing alarm. 77-97 dB
Continually adjusts to 5-10 decibels above ambient so ideal in varying noise level environments and urban areas.

Night-time cut out
To silence the reverse alarm for 4 minutes.



Camera Monitor Systems
Flush-mount right side view camera.



Ultrasonic Obstacle Detection

Frontscan® sensor system
4 sensor system improves safety when manoeuvring at low speed.

Our best selling mid-range systems offer quality at a cost effective price.

WARRANTIES

SM UK has been an industry leader for over 20+ years. We offer a full warranty on all of our electrical safety equipment systems.

We also only use equipment that has been tested. We fit and install at an exceptionally high standard and guarantee after service care.



On Site Parts and Labour Warranty – UK Mainland.

WORKSHOPS



SM UK's purpose-built workshops are conveniently located to service the entire UK, whether you have a fleet of trucks or a one-off.

We currently have three locations - Tamworth, Leeds, and Dartford with a further 49 mobile service engineers.

ARE YOU AWARE THAT SM UK ARE WHOLE VEHICLE TYPE APPROVED

Working closely with the VCA, **SM UK** provide an all-in-one vehicle safety packages, fitted legally before registration under whole vehicle type approval.

SM UK currently hold:

- **Whole Vehicle Type Approval for Tractor Units**
- **Whole Vehicle Type Approval for Rigid Vehicles**

YOUR TRUCK READY TO GO!

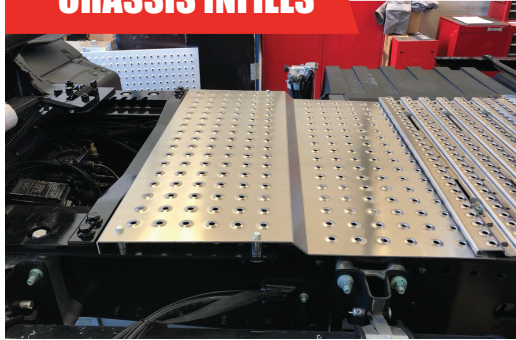


WE ALSO FIT...

AI CAMERAS



CHASSIS INFILLS



5TH WHEEL COVERS



PERIMETER KIT



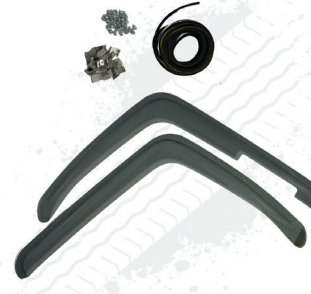
AIR HORN KITS



OVERHEAD LOCKERS



SIDE WINDOW DEFLECTORS



SUN BLINDER KITS



MIRROR GUARDS



AIR KITS



SPRAY SUPPRESSORS



A FRAMES





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Unit 6
Gelderd Park
98 Gelderd Road
Leeds
LS12 6HJ

MIDLANDS WORKSHOP

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Rowan Way
Tamworth
B78 2FE

LONDON WORKSHOP

Unit F
Bridge Close
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Dartford
DA2 6QP