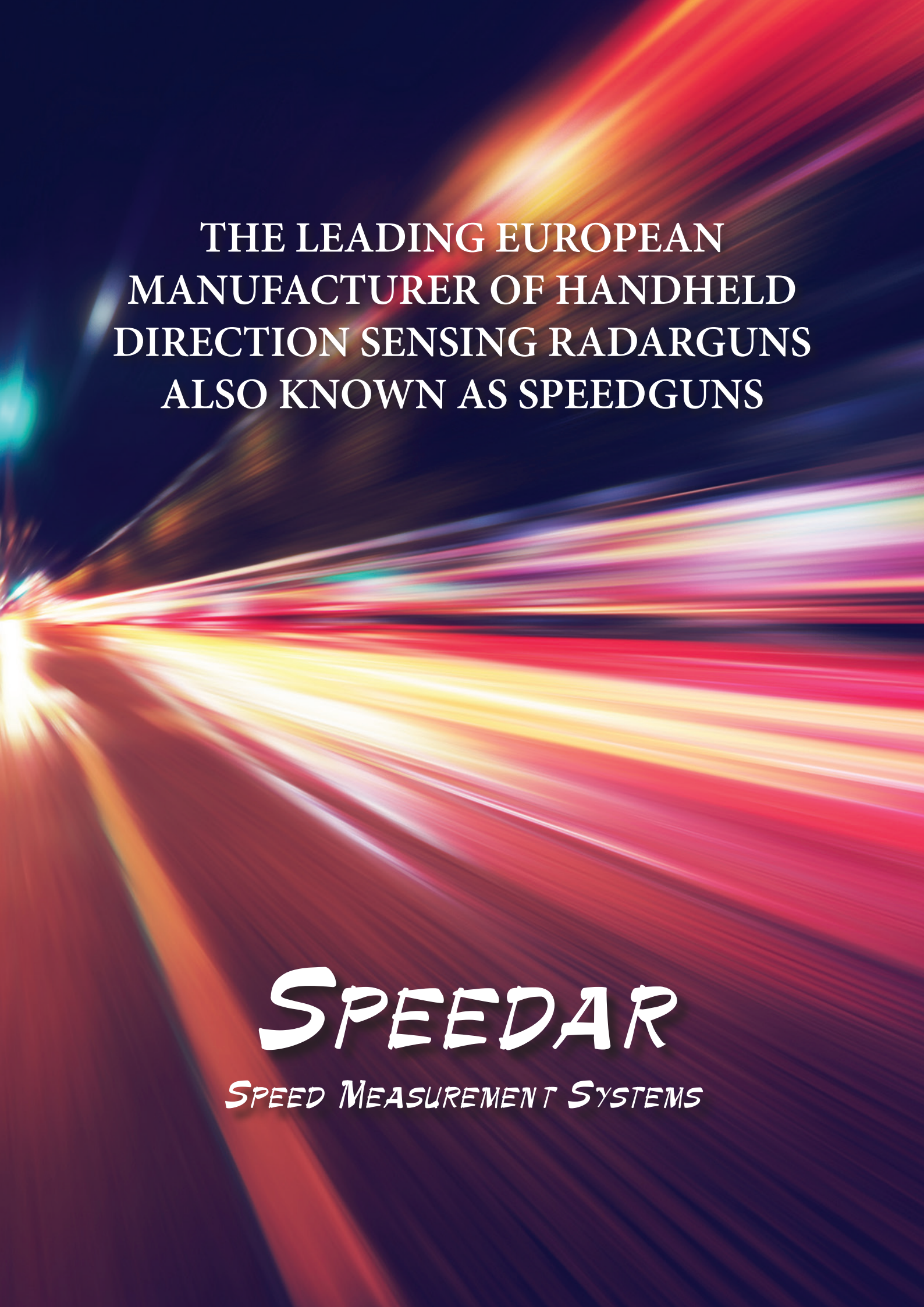
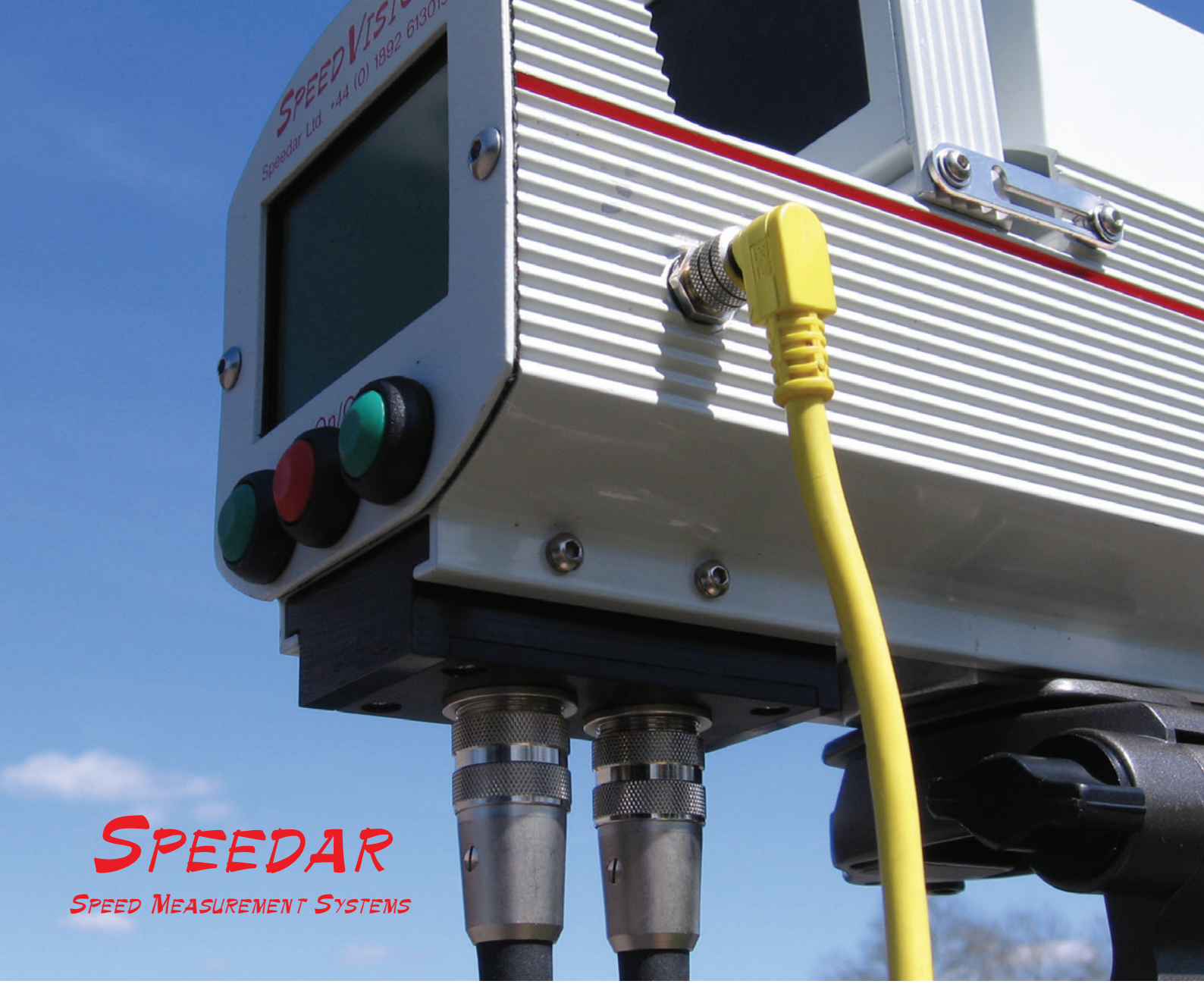

THE LEADING EUROPEAN
MANUFACTURER OF HANDHELD
DIRECTION SENSING RADARGUNS
ALSO KNOWN AS SPEEDGUNS
SPEEDAR
SPEED MEASUREMENT SYSTEMS



COST EFFECTIVE SOLUTIONS IN DIFFICULT TIMES

Speedar Limited is committed to providing cost effective solutions for the measurement of speed in campaigns to increase road and site safety.

Speedar Limited was formed out of Ottery Electronics in 2004, encapsulating the wealth of experience gained by Ottery Electronics staff over a period of 30 years. A designer and manufacturer of speed measurement systems for Evaluation, Education and Enforcement in traffic applications, its core business has historically been in the field of handheld and tripod mounted radar units and Vascar systems. Speedar Limited are the only United Kingdom manufacturer of handheld radar equipment and hold United Kingdom Home Office approval for our Speedar range of equipment.

Speedar products have an enviable reputation worldwide and have been exported to over thirty countries in Europe, USA, Australia, Middle East and the Far East.

Speedar products have been sold to a high number of U.K. Police Forces and Local Authorities in the United Kingdom as well as NATO forces. It has an increasing presence in the industrial market and can count some of the major corporations among its customers. In addition, a recalibration and repair service is provided.

With the commitment by U.K. Government and Local Authorities to make the UK roads safer and reduce the incidents of death and injury, they have funded the provision of equipment to create community speed watch groups. These groups provide a valuable contribution by monitoring motorists' speed through the villages.

Speedar Limited have supplied handheld radar units and associated training to several speed watch groups. The Speedar range has the advantage of being very robust, easy to use and considerably cheaper than laser units. This makes it a **cost effective** choice for speed watch groups.

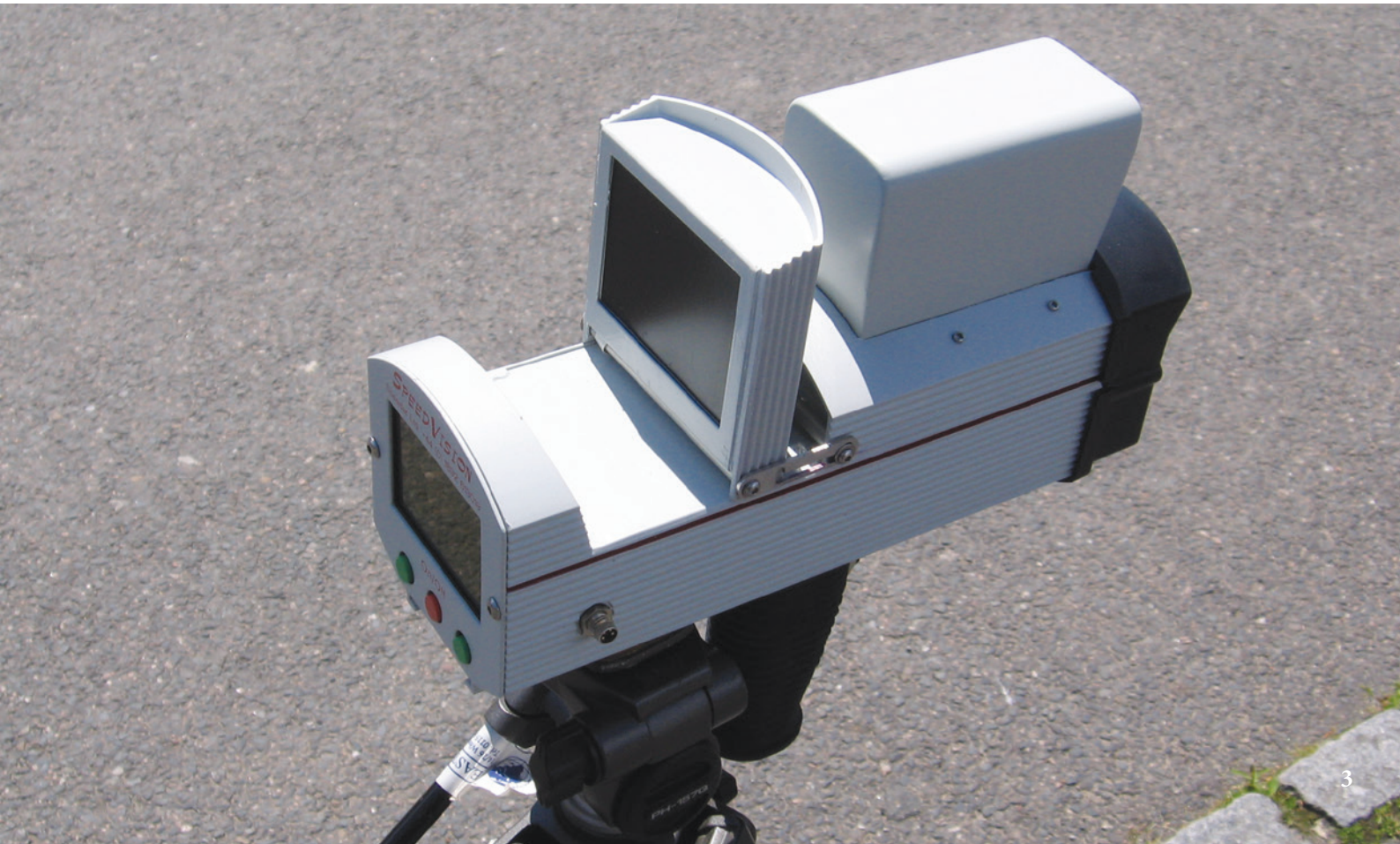
A small but flexible company it has some notable achievements:

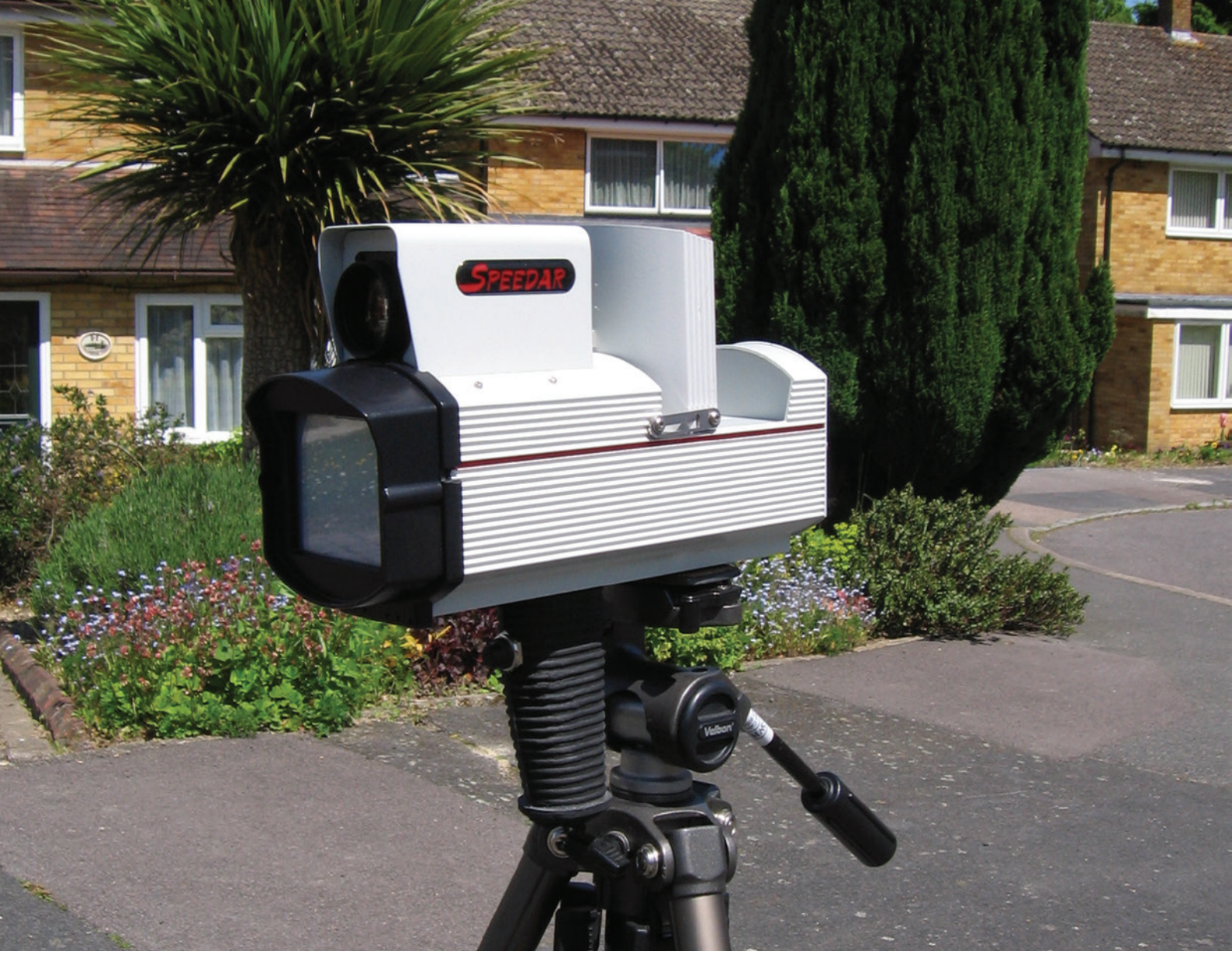
- **first** to use direction sensing Doppler radar.
- **first** to produce a cordless handheld radar.
- **first** U.K. designer of the VASCAR system.
- **first** standalone Laser Jammer Detector.

Speedar has a policy of continued product development and continually looks for new products in the fight to make roads safer.

Construction and Industry

Recognising the increasing Health and Safety requirements on Industrial and Construction sites, Speedar Limited has developed its highly successful SpeedVision range. The new SpeedVision SV3R is a standalone unattended unit that can be tripod, post or wall mounted and battery or mains powered. This enables the effective monitoring and recording of speed violations whilst not endangering operatives standing roadside to operate the equipment. Recording of violations is to a CF card from which photographs with overlaid data can be produced using dedicated software. This has completed tests and literature will be available shortly.





For larger site applications, Speedar Limited is now developing a network version with speed cameras relaying data back to a central control room.

Police 'In Car' system

Speedar has also produced a new range of Vascar systems. Vascar is a tried and tested method of speed measurement, computing distance and time to measure the average speed over a minimum distance.

This has the advantage of measuring the average speed rather than the 'spot' speed as measured by radar or laser. It also has the advantages of not being able to be detected or jammed.

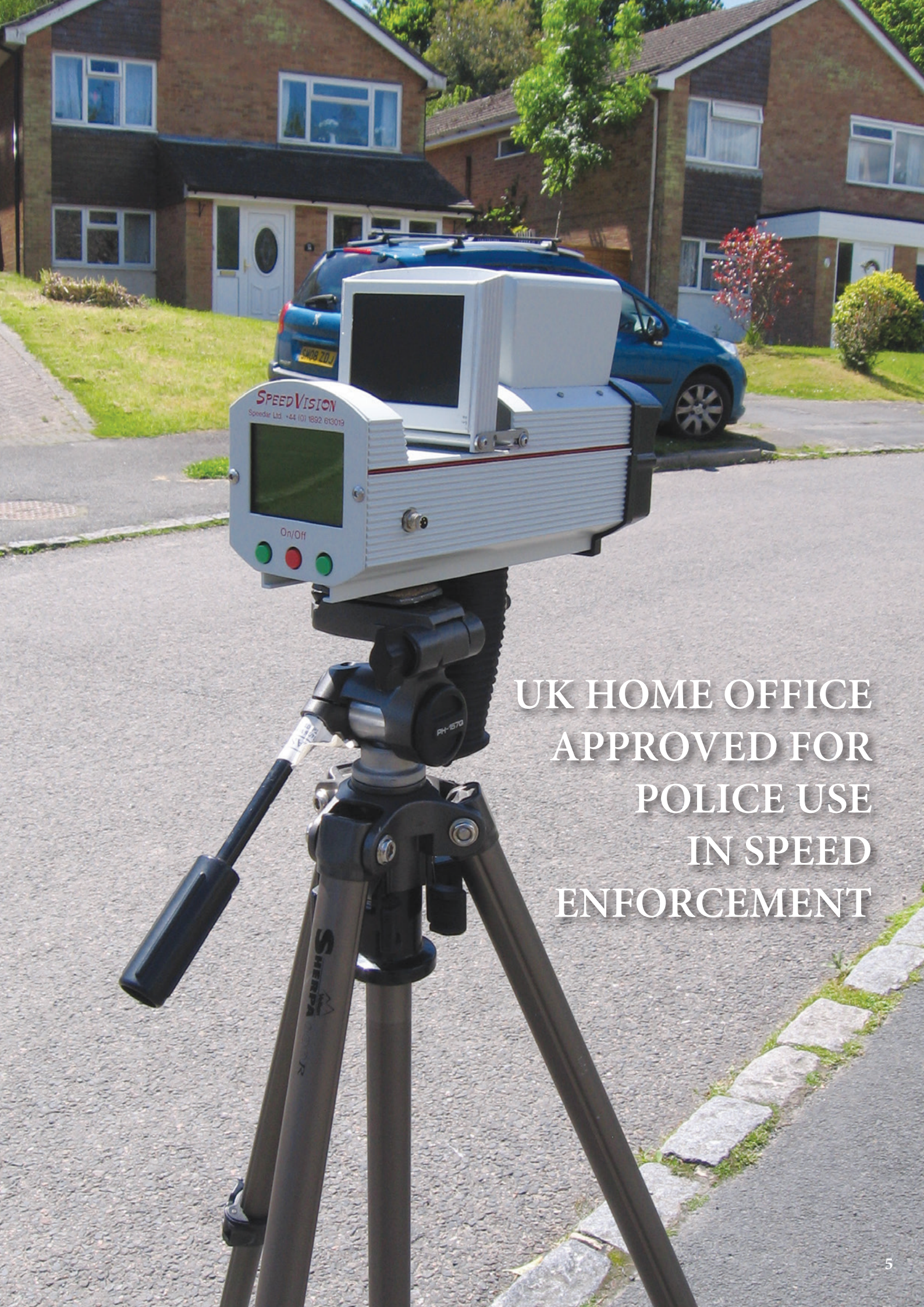
Now, in line with the modern demand for video evidence, the new Speedar range of Vascar includes video recording and display, with the Vascar information superimposed on the video.

Integrated with any in-car existing computer system, they have the facility to enable the screen to be used as a normal pc display for ANPR and/or Sat. Nav. programs.

The handheld controller is equipped with positive 'feel' switches and audible indication that the switch has been activated. These systems are designed for easy retrofit into existing vehicles, expanding the functionality and extending the life of existing equipment, thus eliminating the need to change whole systems. Furthermore, the Vascar system can easily be removed and transferred when the vehicle is replaced.

Some clever design features and sourcing of quality components ensure that this unit meets the stringent requirements of the UK Home Office HOSDB/ CAST specification. These systems have now completed U.K. Police trials, test house testing and have been submitted to the Home Office CAST department for final approval.

The objective of the new Vascar systems is not only to provide a means of speed measurement but also to provide a **cost effective** solution.



UK HOME OFFICE APPROVED FOR POLICE USE IN SPEED ENFORCEMENT

SOME SIMPLE COMPARISONS BETWEEN LASERS AND RADAR SPEEDMETERS

There is no doubt that there are circumstances in which a laser can be used to measure vehicle speeds where it would be impossible for a radar to be used. For instance, on a motorway or in a dense stream of traffic. This is possible because a laser is able to pinpoint a specific vehicle by having a very narrow beamwidth. However, for every advantage there is often a corresponding disadvantage and in this case, because the laser beam is very narrow, it MUST be aimed with great accuracy or the vehicle will not be held in the beam and the reading will be lost. Easy to do if it is a vehicle approaching head-on down a straight road, but not so easy where the laser has to be panned to follow the vehicle, or the road is undulating.

To achieve this accuracy of aiming is difficult when the laser is handheld and with cold hands even more so. The answer is of course to use a tripod, but then the user has to set it up and is then tied to the laser position. There is no longer the opportunity to quickly check a vehicle that suddenly appears to be speeding if the officer is engaged on other matters, nor is it feasible to quickly throw a laser in the back of a vehicle and give chase to an offender, nor even to leave the laser to assist the public for whatever reason. The user is tied to the spot on which the laser is set up unless there are two people operating the speed check, which is not a very efficient use of precious manpower.

Then there is the cost difference. For the price of an average laser it is possible to purchase three Speedars. This means that during speed campaigns or when monitoring complaint locations, far greater coverage can be obtained for the same equipment cost. Also where community policing is practiced, the low cost of a Speedar means that it is economically feasible for local stations to have their own set so that local complaints can be checked quickly to see if they warrant the attention of the traffic department.

Cost of ownership is another factor. Lasers must be treated with considerably more care than radar guns. If the optics of a laser are disturbed through rough handling or impact damage (being dropped in other words) then the repair costs are going to be high and the time it is out of service may be long, bearing in mind that it will almost certainly have to be returned to the manufacturers in the USA for repair. Of course you may be lucky enough to be loaned a replacement unit whilst it is away!

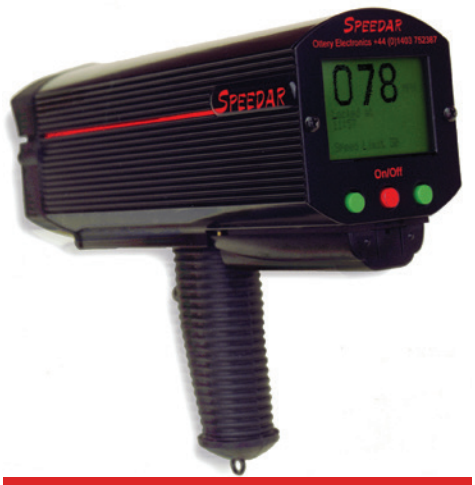
Radars have served well for the past 15 or so years and although there has been an advance in other technologies over the years, it does not seem sensible to abandon a tried and useful system simply because there is a something new available. There has been an advance in radar technology as well. Now, with Speedar, it is for the first time possible to know which way a target vehicle is moving so that this radar can now be used with confidence on a road where there is opposing traffic flow. The operator is in no doubt as to which vehicle the radar is locked onto, and with the narrower beamwidth of the Speedar it will remain locked onto its target much longer in the presence of other vehicles.

SPEEDAR

Incorporating features never before available in a handheld radar speedmeter.

For the first time ever, radar can be used with confidence on roads with opposing traffic flows. Speedar's display clearly shows in which direction the vehicle is being tracked. The internal clock shows the time at which a reading was locked.

An internal memory holds the speed limit for the road being checked and displays it when a reading is locked.



Speedar is a handheld speed and direction measuring Doppler radar, with large backlit 128x64 dot graphic display. Capable of measuring speeds in Miles or Kilometers per hour and displaying system messages in any language.

- Microcomputer controlled with built in time and date facility
- Storage for operator input speed limit
- Large rounded numerals 30mm high clearly show speeds and cannot give erroneous readings caused by segment failure in conventional 7 segment displays
- Speed readings may be locked and when locked the time of locking and the direction of the target are also displayed
- Low battery and RF interference warnings appear on the display as appropriate
- Ability to output speed readings and time and date via RS232 link.

VEHICLE REGISTRATION RECOGNITION SOFTWARE

The output from the Speedvision can be fed to our digital video recorder which will record continuously and also place markers on the recording whenever a speed in excess of the set limit is detected. In addition, the record may be transferred to an SD card for viewing elsewhere.

Digital stills may be easily printed either when an overspeed event is detected or during later reviewing of the video.

If the video output is fed into our vehicle registration recognition system (ANPR) then a record of both the speed and registration can be stored for later processing. Additionally, many database functions can be carried out, for example: stolen vehicle recognition, terrorist tracking, etc.

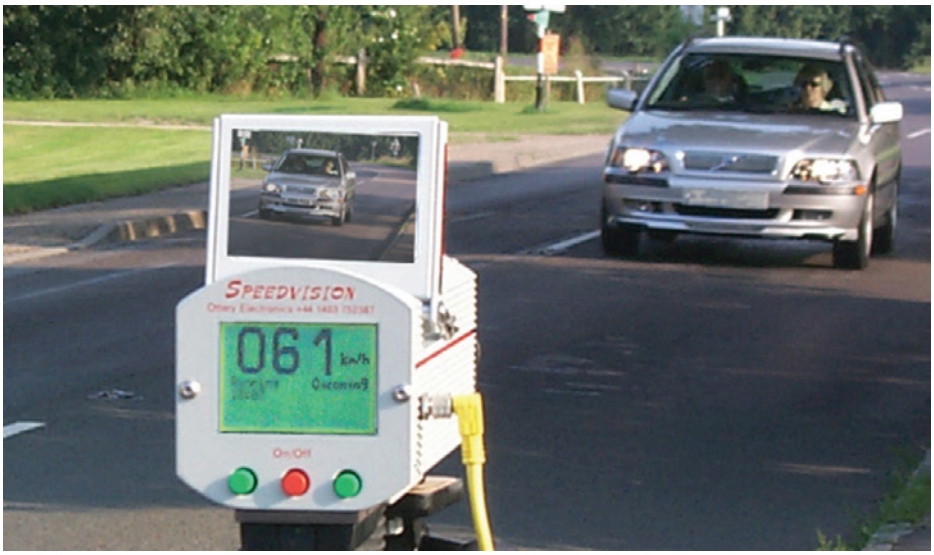
Alternatively, the vehicle registration recognition system can be fed into an intelligent sign which will not only display the speed of a vehicle but also show the registration number of the vehicle in view.

Speedvision can also be linked to one of our large repeater displays to warn drivers of their speed.

This is a considerable deterrent to speeding drivers as it leaves them in no doubt as to whose speed is being displayed on the repeater display.

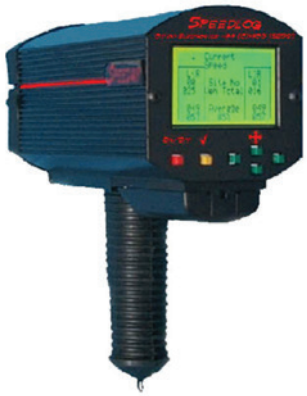
SPEEDVISION

The addition of a high quality video camera and viewing screen to our proven Speedar radar enables video recordings or video prints to be made of target vehicles. The speed, direction, date and time are constantly updated on the viewing screen and the picture and associated speed may be frozen at any time by locking the Speedar. A video recorder may be used to record offences for later processing or a video printer may be triggered to produce a print.



SPEEDLOG

Traffic Data Logger

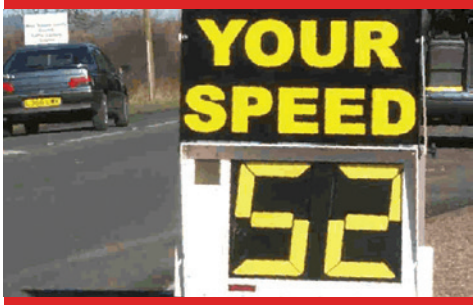


Allows traffic engineers to record the speeds and times of traffic flow without the trouble of having to write all the data down. Average speed and 85%ile are both shown on the display along with a count of vehicles logged and the direction in which they were travelling.

An internal clock allows time and date to be stored for each reading logged and a total of 256 readings may be stored in each of two directions at 15 sites.

LARGE REPEATER DISPLAY

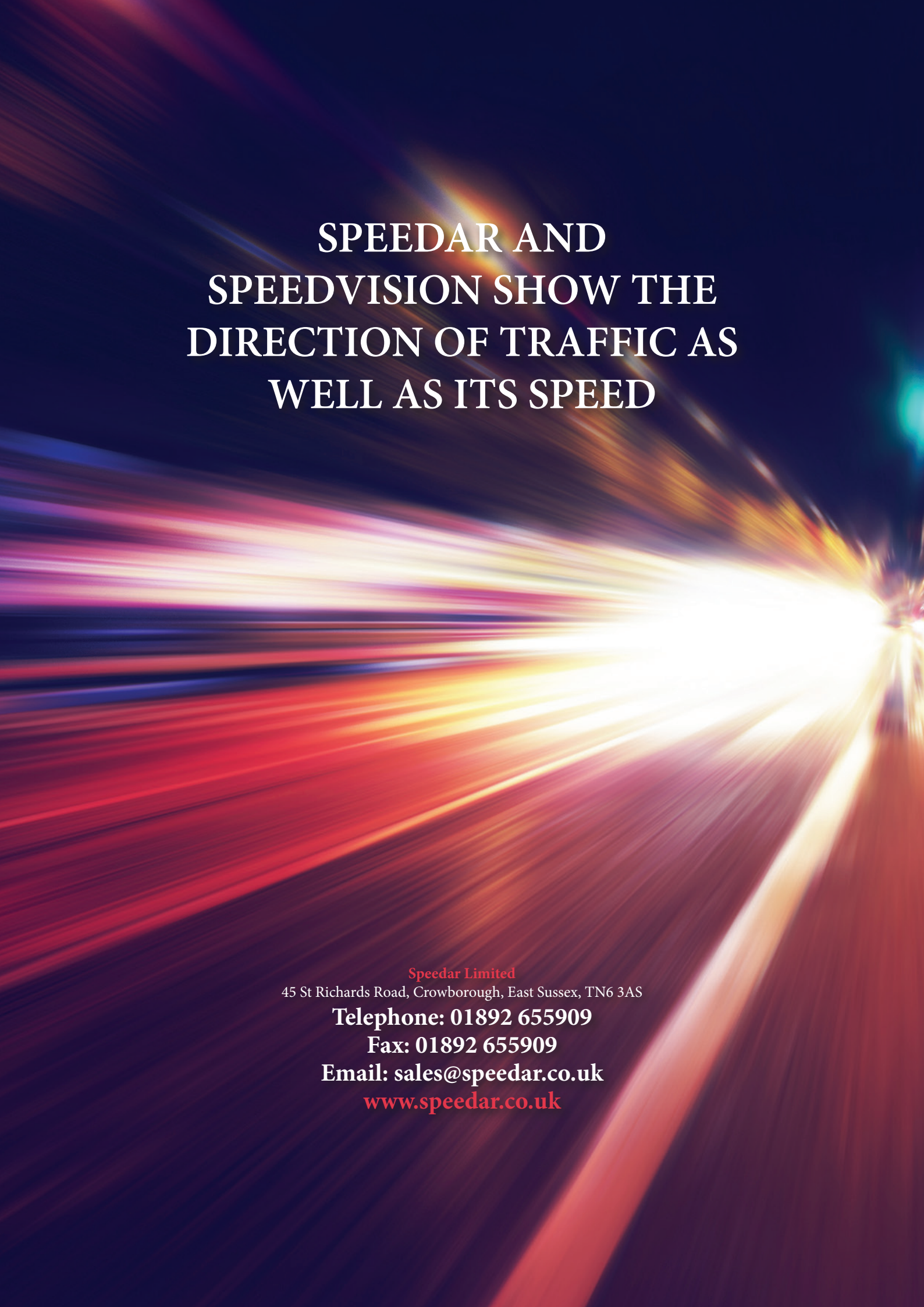
Driven from Speedar handheld radar



The Speedar may be operated up to 50ft away from the display position.

The display is set to read only oncoming traffic.

A threshold speed may be set with thumbwheel switches



SPEEDAR AND SPEEDVISION SHOW THE DIRECTION OF TRAFFIC AS WELL AS ITS SPEED

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