

provida 2000

*Mobile speed enforcement
and video surveillance*



ProVida combines high quality digital surveillance with the Police approved speed measurement tool.

For over 20 years the ProVida brand has remained the global leader in mobile speed enforcement and in-car video surveillance, with thousands of systems actively used by police forces in over 20 countries.

The ProVida system calculates the average speed of a moving vehicle between two defined points and records the video with overlay text displaying the target vehicle average speed, patrol vehicle actual speed, time and date providing evidential proof of either a speeding or road traffic offence.

ProVida can be used from a moving or stationary patrol vehicle, with the target vehicle travelling in the same direction, in front of or behind the patrol vehicle.

Unlike a radar based system, ProVida can be used to calculate a vehicles average speed without the need to be in (or close to) the line of travel of the target vehicle

The video can be displayed on an existing in car monitor, combined with an in-car ANPR display or on a stand alone monitor. Video can be stored on the optional ProVida HDR or any other recording device.



ProVida 2000 monitor display

ProVida 2000 modular consists of four main parts:

- ProVida 2000 modular unit
- A colour zoom camera
- ProVida keyboard
- ProVida remote control unit

ProVida 2000 modular allows for versatility and flexibility when fitting into a vehicle where there is restricted space. The main modular unit and HDR can be fitted out of view with the remote control unit fitted to the dashboard or central console.

Clients include:



Product overview

The ProVida 2000 has been designed to be a stand alone Visual Average Speed Computer and Recorder (VASCAR) system enabling it to be used without the need of a full in-car computer system.

However, its modular design allows for a full range of system and upgrade options, ranging from a simple non-video speed measurement system to solutions encompassing multiple cameras, video recording and Automatic Number Plate Recognition (ANPR).

The ProVida system combines high quality encrypted digital surveillance video with the Petards Police Pilot average speed measurement tool.

Providing detailed recordings of road offences such as speeding and dangerous driving, the ProVida 2000 video footage can be used to show to the offending driver at the scene to issue a fixed penalty offence or be downloaded and used as evidence in a future court prosecution.



Evidence gained has been used to convict offenders in most courts throughout Europe.

Quality assurance

Petards quality systems are accredited to:

BS EN ISO 9001:2008 (FM21102)

BS EN ISO 14001:2004 (EMS 534323)

PAS 99:2012 (IMR 534323)



ProVida 2000 components

System approvals

ProVida 2000 systems are approved by:

- PTB (Physikalisch-Technische Bundesanstalt)
- NMI (Nederlands Meetinstituut B.V.)
- UCM (Ufficio Centrale Metrico)
- MIRS (Metrology Institute of the Republic of Slovenia)
- IPQ (Instituto Português da Qualidade)



ASSOCIATION OF
CHIEF POLICE OFFICERS



GOVERNO DE
PORTUGAL



ProVida 2000 accurately measures the average speed of a vehicle utilising a time over distance speed calculation.

The ProVida 2000 system calculates the average speed of a vehicle by measuring the time it has taken for a vehicle to travel a measured or known distance.

The system constantly displays and records the speed of the patrol vehicle by taking an odometer feed via the CAN bus interface, thereby providing speed information during a high speed pursuit, without the need to use the ProVida handset.



ProVida 2000 overlays all the required speed information onto the video image to provide secure evidential video.

The system is suitable for use in both single and twin crewed vehicles.

The user operates the system by use of a multi-functional remote control unit (RCU) that consists of:

- LCD display
- Police Pilot
- Recorder controls
- Camera controls

The colour coded Police Pilot buttons used to start and stop the time and distance counters, as well as reset the system are designed to minimise the user interaction allowing the drivers focus to be on the pursuit of suspect vehicles whilst carrying out a speed measurement.

The front-facing Kestrel camera has a 10x optical zoom lens and a built-in switchable microphone to allow in-car audio recordings to be made.



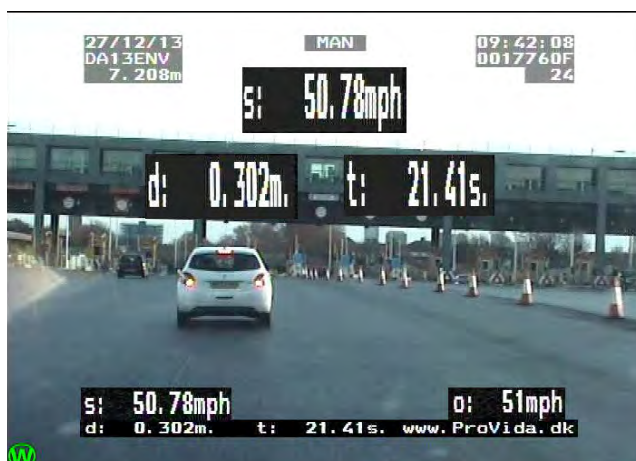
ProVida 2000 RCU

To ensure a valid speed measurement the ProVida system needs to be calibrated in the vehicle at regular intervals.



Speed display

In addition to showing the speed information on the RCU display and at the bottom of the video the ProVida system can, if required, also display the information during a measurement in large text boxes in the centre of the screen for ease of use. Note these text boxes are for display in the vehicle and are not recorded onto the video.



ProVida 2000 display information

- Date
- s: Average speed
- d: Elapsed distance
- t: Elapsed time
- o: Own speed
- Time
- Operating mode
- Trip counter
- Frame counter
- Camera zoom

provida 2000

Product support

Petards Traffic Technology offer full product support, training and maintenance packages, details of which are available on request.

In addition, we offer technical support during a prosecution to the police authority should any case be challenged in a court of law.



User training

ProVida training courses are available, including new user, user refresher, train the trainer and maintainer courses.

Training courses can be tailored to suit the individual end user and would consist of both classroom and in-car sessions.



ProVida 2000 also provides evidential video evidence of other road traffic offences.

The ProVida system can continuously record surveillance video to support other traffic offences, such as dangerous driving, high speed pursuit, hard shoulder violation and collisions.

The ProVida 2000 displays the patrol vehicle speed, the calculated average speed of the target vehicle, the date and the time on the monitor as well as on the video recordings providing secure evidence of a wide range of driving violations.



The ProVida hard disc recorder stores encrypted, watermarked video files onto a removable cartridge and optional SD card.

Stored video files are accessible via the dedicated PCLink software that consists of applications that allow video playback, multi-camera live view, configuration and download of recorded files on the removable hard disk cartridge via a USB cable or docking station to a PC.

Recorded files are in a proprietary XBA file format to ensure sensitive evidence can only be viewed by authorised personnel and can be easily copied as a standard AVI file for burning to a disc.



High speed pursuit



Hard shoulder violation



ProVida 2000 Bike

ProVida is also available as a motorbike version, with specifically designed switches and 3.5" LCD monitor suitable for handlebar mounting.

Product codes

PM		00				-	GB		-	HD3	
ProVida Unit Type		Camera Configuration				Country		Recording Device			
PM	ProVida 2000 modular	Rear		Front		DE	Germany	HD3	X300 Hard Disc Recorder		
		None	K10	K18		DK	Denmark	NON	No Recorder		
		00	06	18		EU	European				
		K10	01	07	19	FR	France				
		K18	03	09	21	GB	Great Britain				
		Bullet	05	11	23	IT	Italy				
						NL	Netherlands				
						NO	Norway				
						SL	Slovenia				

ProVida 2000 specification

Power supply voltage

Main unit & RCU	8 - 15V DC
Camera	10.5 - 15V DC

Power consumption 3A

Operating temperature - 5°C - +50°C

Real time clock drift <+/- 1 min / year.

Time accuracy < 200 PPM ± 10ms

Time resolution 10ms

Speed resolution 1 km/h or 1 mph

Speed accuracy 10 - 90 km/h ±1 km/h
90 - 299 km/h ± 2 km/h

Loudspeaker output 0.5W

Cameras

Kestrel 10 10x optical /4 x digital zoom
Horizontal Resolution >460 TVL
Range 3 - 40m

Kestrel 18 18x optical /12x digital zoom
Horizontal Resolution >450 TVL
Range 3 - 50m

HDR specification (optional)

X300 HDR

Power supply voltage 10 - 15V DC
Power consumption 0.85A

Operating temperature 0°C - + 50°C

Max frame rate 25ips PAL
Compression MPEG format
D1 option pixels 720 X 576(PAL) frame size
Resolution Low, Medium, High
Hard disc options 500GB, 1TB, 2TB (SATA)
120GB, 240GB, 500GB (SSD)

For more information about ProVida 2000:

+44 (0)191 423 5125

traffic@petards.com

www.petards.com

