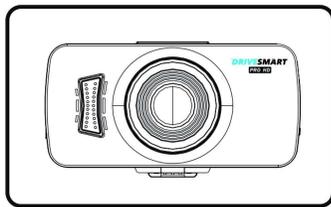**Introduction:**

Thank you for purchasing the DriveSmart Pro HD dash camera and GPS speed camera detector.

We hope it gives you a safer and well-informed driving experience. Whilst protecting you from crash-for-cash fraudsters and other drivers silly maneuvers the DriveSmart Pro HD will also alert of pending speed camera locations, red light cameras and mobile speed camera zones to allow you to drive smart and safely within the speed limits. With the constant threat of Mobile laser as well as fixed camera locations the DriveSmart Pro HD is a perfect choice. Powered by the Laser Elite GPS database. The most comprehensive in the UK.

Laser Elite has the most up-to-date and sophisticated database of Mobile Laser / Safety Van / Fixed camera locations available with over 10 years of developing laser detection, diffusing and jamming devices. As one of the biggest threats to driving in the UK is mobile laser, Laser Elite was the perfect choice for the database supplier, with the big advantage that database updates are free for life.

What's Included in the Box:

Pro HD
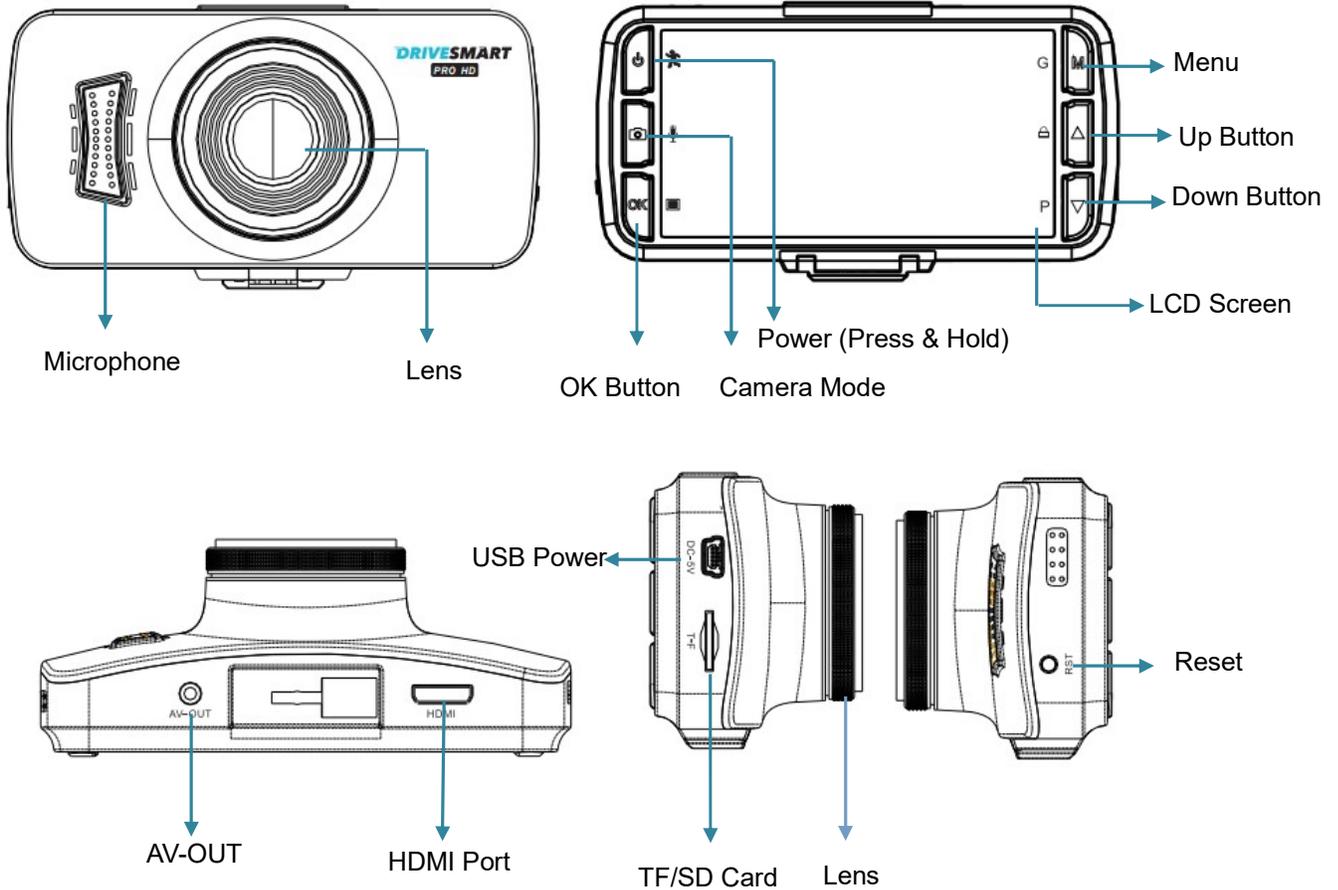

Lighter Power lead

Update cable

Bracket

Manual

Additionally, a DriveSmart hardwire cable is available to purchase separately, as are spares of the above parts if required.

Functions of the DriveSmart Pro HD Buttons

Microphone

Lens

OK Button

Camera Mode

Power (Press & Hold)

Menu

Up Button

Down Button

LCD Screen

USB Power

Reset

AV-OUT

HDMI Port

TF/SD Card

Lens

Quick Installation

To quickly get up-and-running with this product, please operate it as follows:

➢ Plug the power lead into the cigarette lighter socket of the car, and insert the other end into the mini USB socket on the unit. Press the button on the power lead so it lights up red and is on.

➢ To record, insert a TF/SD memory card (not supplied) with the underside metal connectors facing into the car. This should be a Class 10 card. Min 8GB, Max 32GB. If you just want to use the unit for speed camera alerts this is not needed.

➢ After powering up, the DriveSmart Pro HD will start up with a welcome message and will start searching for a satellite connection. If you have a TF/SD card inserted the unit will start recording automatically and the LED on the top left will start flashing to confirm this. After successfully connecting the satellite, the screen will show the car's driving speed and the unit will announce 'GPS Lock'.

➢ Take the suction cup mount and place it in a suitable location not to obstruct the drivers view. Push the lever down to create the suction, now slide the camera into the underneath fitting. The bezel can be twisted to lock the ball-and-socket fixing into place for your desired angle.

Warning

➤ It may take one to five minutes for the unit to get satellite lock for the first time, with regular use this should speed-up, but it may take a little longer if you start driving. The screen will show Zero speed until a full satellite signal is received – but the dash camera side will still record if a memory card is inserted.

➤ For your safety and to comply with motoring laws in most countries, please do not operate this product while driving. You should adjust the product to your satisfaction before you start driving.

➤ If you want the display to show what it is recording instead of the current speed, select the menu button top right, press OK to select 'Speed Display' and then use the arrow up/down buttons to select 'Off' and then press OK to confirm.

Keys & Functions

Name	Icon	Function Introduction
Power Button		Press and hold the power button to turn on/off the unit. Quick press it to exit from the menu or stop recording.
Page Down Button		In recording mode: Quick press to reduce volume, press and hold to set to select KPH speedo In pictures mode quick press to shrink the focal length, in playback mode press to decrease speed of playback video.
Page Up Button		In recording mode: Quick press to increase volume, press and hold to select MPH In picture mode: Quick press to extend the focal length, in playback mode press to increase speed of playback video.
OK Button		Quick press to start or stop recording. Press and hold OK button to turn off or turn on the screen.
Menu Button		Quick press to enter menu settings, Press and hold to see GPS satellite signal reception.
Recording / Camera / Playback Mode		Press to switch between Photo mode / Playback of video / Playback for picture mode settings.

Menus

There are 6 Menus, keep pressing the Menu key to tab through then. They are as follows:

1. Speed Camera Settings
2. Movie Mode
3. Still Capture
4. Playback
5. Media Tool
6. General Settings

Menu 1 - Speed Camera Settings

Name	Description	Submenu
Dark Mode	Screen is off rather than showing your speed and only comes on when you get a GPS or Laser speed camera alert.	On / Off
Speed Camera Detection	Allows you to turn the speed camera alerts on/off	On / Off
Traffic Light Camera Detection	Turns on/off alerts for red light cameras	On / Off
SPECS Camera	Turns alerts for SPECS average speed cameras on/off	On / Off
Mobile Camera Area	Turns alerts on for mobile camera zone hot spots where mobile vans and hand-held laser guns have been reported operating in the past	On / Off
Warning Distance	Changes distance range of GPS points alert	200 / 400 / 600 / 800 yards / meters
Warning Distance Increase	This increases the alert range when you are over 60 MPH, we would suggest having this on if you do a lot of motorway driving	On / Off
Cruise Overspeed Warning	Allows you to get an audible alert when travelling over the set speed limit. You can set this between 20 and 90 MPH/KPH to warn you if your speed drifts above your defined limit	On / Off
Current Speed Fine Adjustment	Allow you to adjust your real time GPS to correctly match your speedometer. Your cars speedometer will read higher than your actual speed and at a contact speed the GPS will be showing your correct speed but if you want to adjust this to match your cars speedo you can do this here	From -5 to +5 mph/kph
Continuous Alarm For Overspeed Warning	Sounds when driving over the speed limit inside an alert area	On / Off
Laser Detector	Allows you to turn on/off laser band detection (laser band is the most commonly used in the UK).	On / Off
GPS Time Adjustment	Allows you to adjust + or - GMT on the on-screen display time to allow for British Summer Time and use around the world	+/- 1-12 hours

Menu 2 - Movie Mode

Name	Description	Submenu
Movie Mode	Select the recording resolution	1920*1080 30fps / 1280*720 30fps / 640*480 30fps
Movie Quality	Choose REC Quality	Super Fine / Fine
Movie Clip Time	Film cutting time	OFF / 1min / 3min / 5min / 10min
Movie Off Time	Recording time for after without the power	0min / 5sec / 15sec / 30sec / 1min
Motion Detection	Motion sensitivity	Off / Low / Middle / High
Motion Event RCE	Choose the recording time when turn off and detecting moving event	Off / 5sec / 10sec / 30sec / 1min
Sound Record	If turn off, will be mute in the recording	On / Off
MIC Sensitivity	Adjust the microphone's volume	Standard /low
Scene	Choose different scene modes to recording	Auto / sports / portrait / landscape / Twilight / snow / beach / fireworks
Exposure	Adjust brightness	From -2 to +2
White Balance	Adjust the color balance	Auto / daylight / cloudy / fluoresc./ fluoresc.1 / fluoresc.2/ incandesc.
ISO Sensitivity	Choose the sensitivity of light	Auto / ISO100 / ISO200 / ISO400
Colour	Colour option	Auto / Natural / Vivid

Menu 3 - Still Capture

Name	Introduction	Submenu
Still image size	Choose the picture's resolution	14M / 12M / 8M / 5M / 3M / 2M / 1.2M / VGA
Still quality	Choose the picture's quality	Super fine / fine
Scene	Choose different scene mode to record	Auto / sports / portrait / landscape / Twilight / snow / beach / fireworks
Exposure	Adjust brightness	From -2 to +2
White balance	Adjust the color balance	Auto / daylight / cloudy / fluonesc./ fluonesc.1 / fluonesc.2 / incandesc.
ISO sensibility	Choose the sensitivity of light	Auto / ISO100 / ISO200 / ISO400
Colour	Colour option	Auto / Natural / Vivid
Effect	The approach to choose the image effect	Normal / Sepia / B&W / Emboss / Negative / Sketch / Oil / Crayon

Menu 4 - Playback

Name	Description	Submenu
Volume	Select the volume of playback	1～10
Delete	Delete the videos or pics	Delete one / Delete all
Protect	Protect the videos or pics without been deleted	Protect One / Protect All / Unprotect One / Unprotect All.

Menu 5 - Media Tool

Name	Description	Submenu
Format the SD Card	All the data will be deleted	Yes / No
SD Card Info	Surplus time of record, surplus pictures	

Menu 6 - General Settings

Name	Description	Submenu
Clock setting	Time setting	
Date format	Select the date format	
Stamp	Change screen overlays	Date + Logo / date / Logo / off
Languages	Choose the display language	English / Simplified Chinese
TV system	Choose TV SYS	NTSC / PAL
Flicker	Flicker speed	50 Hz / 60 Hz
LCD Rotate	Video rotation option	On / Off
LCD Power Save	Automatically screen off	Off / 30sec / 1min / 3min
Protect Level	G shock sensor, movement sensitivity level	Off / low / middle / high
Motion Detection	Select the motion detection sensitivity	Off / low / middle / high
Reset Setup		Yes / No
FW Version	Show the software version	Version, branch, testing

Updating the Firmware and Database from Your PC

Your DriveSmart Pro HD has been shipped with a current database ready for you to use it out of the box. When you wish to update this database you will need to follow the current steps

1. Visit www.drivesmartpro.com and select the page for your product.
2. Download the file labelled SD_Update.bin – this maybe in a zip file
3. Save this to an appropriate location on your PC
4. Turn off your DriveSmart Pro HD.
5. Remove your SD/TF memory card from the unit and insert it into your computer.
6. Then copy across the SD_Update.bin file you have just downloaded to the memory card.
7. Now remove it from your PC and reinsert it into the DriveSmart Pro HD.
8. Now turn the unit back on. It will Read the cards new software file and Write it to its memory, then turn off.
9. You can then turn it back on and use it with the latest data correctly installed.

Data Correction

If you think there is an error or missing data in the database, please fill in the form to report this at www.drivesmartpro.com who can investigate and report back to you on their findings.

PC Playback

Recordings can be played back on the DriveSmart Pro HD screen but if you want to view this on your PC then visit www.drivesmartpro.com where you can download the DriveSmart viewer software which will give you an overlay with Google Maps and other metrics.

Product Technical Information

Display Screen	Ultra HD 2.7 inch large LCD screen
Memory Card	External SD/TF card, maximum support 32GB.
Lens	Level 160 - degree wide Angle recording, 5M pixel
G-sensor	Support (G-sensor) impact automatically save video to prevent erasure
Cycle Record	Support without missing seconds seamless file stored in a row
Motion Detecting	Supported
Video Resolutions	Full high definition:1920*1080(30fps) High definition: 1920*720（30fps) High definition: 1920*720（60fps) VGA:640*480（30fps)
Record Format	AVI
Video Compression	H.264
Playback Support	Yes
Power Protection	When plugged into power the unit will automatically power on and start recording, if power is lost while recording it will automatically save the video and power off 3 seconds later.
Display Content	Road speed, camera alert, video record content.
Photograph Resolution Ratio	4352×3264(14M) 4000×3000(12M) 3264×2448(8M) 2560×1920(5M) 2048×1536(3M) 1280×960(1.2M) 640×480(VGA)
Photo Format	JPG
Video Output	TV-OUT
Language	English
Battery	Lithium polymer soft package battery inside 180mA, just for saving function
Microphone	Microphone inside, high-fidelity recording. Option to turn on/off
USB Cable	For updating the software and database
Maps	Tracking is supported via GPS, the DriveSmart Pro HD DVR will record and keep the coordinates and the driving speed and time by using the GPS signal. This information will be displayed when the footage is payed back on the PC with compatible playback software and it will connect to Google Maps and display the driving position using these maps.
CPU	ARM9 CPU, Basic frequency 234MHz
International storage FLASH	128M (database) + (voice)
Prestore data capacity	700,000
Positional accuracy	Less than ten meters
Reception channel	16
Dynamic GPS--DGPS	DGPS
Receiving sensitivity	-159dBm
GPS antenna	internally installed
USB	MINI 5PIN USB， Can update database, software and voice
Loudspeaker	8Ω 1w

Help / Trouble Shooting

GPS Malfunction	Exclusion
No Power	Check power Check fuse Check car charger
Continuous Abnormal Alarm	Restart Check signal in car Check device is functioning correctly
No Sound	Check volume setting Restart to check again
GPS Lock is Slow or Non-functioning	Tall buildings and city driving can cause interference It can be normal to take upto 5 minutes to get 1st GPS lock when unit is new. Drive out of tunnel or enclosed area Check you do not have an athermic / heat reflective windscreen which generally has a purple tint.
No Alert of New Data Points	Download the newest database Report the any new points to DriveSmart
GPS system failure	Take note of location Restart the GPS Report to the place of purchase
Doesn't Show the Standby Picture	Inspect whether the fuse of plug and socket in the indoor space has been burned out Inspect whether the cigar lighter has been corroded. Restart the machine for self-testifying

Potential Reasons for False Alerts:

1.A camera is located on an adjacent road in less than 50 meters.

2.The fixed camera has been removed but your still get alerts. Update database, if alert persists inform DriveSmart through the website and we will investigate.

3.The distance of two continuous speed measuring stations is less than 100 meters.

4.There is fixed speed camera ahead of a bend or in a road that forks off.

5.The tunnel's exit have fixed speed camera

6.Overlapping roads like bridges and flyovers (above or below)

The system may cause confusing alerts in the above six conditions, so the users should pay attention to recognise them. Please contact us if you have queries on any false alerts.