VISIONTRACK



VT4500 **INSTALLATION GUIDE**

THE UK'S MOST AWARD-WINNING CAMERA TELEMATICS COMPANY









































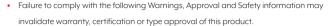








Important Information: 🛕



- Before you begin installing and commissioning the system please ensure that you have read this manual thoroughly referring to any supplementary information provided for the unit as required.
- Unauthorised modification to this equipment or associated accessories is forbidden without the expressed permission and agreement from the product manufacturer.
- This equipment should not be operated in hazardous environments i.e. areas that contain explosive materials or flammable vapours.
- This equipment should not be operated within aircrafts or in close proximity to medical equipment.
- This equipment may only be located in a position where it cannot interfere with the normal operation of the vehicle or present a hazard to the driver or passengers.
- Care must be taken in the routing of all cables so that the insulation does not become worn or damaged.
- All installation and service work must be carried out in accordance with FCS1362, FCS1372, ROAS, 95/54/EC, ISO 21609 and / or any other statutory guidelines or Directives currently in force. Therefore it is strongly recommended that the unit is installed and commissioned by suitably trained and qualified installation personnel with accreditation.
- Unauthorised changes or alterations to the equipment or the installation will invalidate certification issued by the Approved Accreditation Bodies and may also affect the vehicle manufacturers warranty.
- Under no circumstances may any part of the product be installed inside the engine compartment area.

Important Information: 🛕

List of do's and don't's when installing a VisionTrack MDVR.

Power: All VisionTrack devices MUST be wired to their own power supply and not connected/shared to an existing power pickup point. We recommend that the vehicle power pickup points should be located using the vehicle manufactures instructions, *THIS MEANS YOU CANNOT USE ANOTHER TELEMATICS PROVIDERS POWER SUPPLY OR PICK UP POINTS TO POWER A VISIONTRACK DEVICE.

To avoid interference, the VisionTrack power supply MUST be installed as far away from other Telematics devices and power supplies already installed within the vehicle as possible. Ideally on the opposite side of the vehicle.

GPS/3G and 4G Antennas: To avoid interference the VisionTrack device antennas MUST be installed as far away from each other as well as other Telematics devices already installed within the vehicle as possible. Ideally in the opposite side A-pillar.

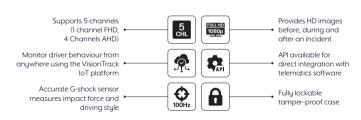
Securing: The MDVR has an internal accelerometer to measure harsh driving events so you **MUST** ensure that it is firmly secured in the vehicle.

You MUST also ensure the device is calibrated as part of the commission process.

Overview

The VT4500 is a compact mobile digital video recorder (MDVR) that supports our full range of multi-channel cameras, monitors and fleet safety devices. This five-channel solution offers 360° coverage of a vehicle, providing excellent footage and picture clarity that is uploaded automatically to our multi-award-winning IoT platform in the event of an incident.

Key features:







What's in the box:



VT4500 Mobile DVR



3 S-VT4500 GPS MODULE



Camera Input Cable



Power Cable



2 VT4500 Locking Case



S-VT4500 4G MIMO ANTENNA



Monitor Output/Alarm Input



VT4500 REMOTE CONTROL







9 Cable Clips

10 Screws and Torx Key 11 Preperation Pad

VT4500 Details:





VT4500 Installation:

- Park your vehicle on a flat level surface. Turn off the engine before installing the VT4500
- 2 Find installation location for VT4500 like in the glove box, under the dash or in the trunk.
- Use provided Velcro adhesive to secure VT4500 recorder. Velcro can be attached and detached freely.
 - NOTE: The adhesive will not stick well with dust or oil, etc. Please make sure the surface is clean before applying.
- Install the VT4500 Remote Control (Panic Button) onto the dash within reach of the driver using the 3MTM Pad provided. (Example shown below).



Panic Button install location example.

6 Arrange the power cable neatly alongside the door pillar trim. The VT4500 requires a continuous 12 to 24 volt power supply from the vehicle. As well as ignition, this can be installed into the 24/12v vehicle.



Panic Button:

Items Definition

- 1 Panic Button
- 2 Red LED (Warning)
- 3. Blue LED (Record)
- 4 Green LED (Network)



VT4500 Wiring:

Power				
P	in	Colour	Label	Description
	1		GND_SIGNAL	Ground
2	2		BAT+	Power Battery +
3	3		ACC_IN	Power ACC + (Ignition Feed)
Trigge	ers			
	1		ALARM_IN1	Alarm In1, Voltage on/off (3~70V)
2	2		ALARM_IN2	(Alarm In2, Voltage on/off (3~70V)
3	3		ALARM_IN3	(Alarm In3, Voltage on/off (3~70V)
4	4		RPM_IN	RPM
į	5		SPEED_IN	Speed
(6		ALARM_IN4	Alarm in4, NC/NO
	7		ALARM_OUTIA	Alarm out
3	8		GND (x2)	Ground

VT4500 Wiring:

Cable Connections

Locate the cables and connect using the diagram and descriptions below.





Camera Input Cable

Line the connection up with the AV IN (shown above) and push until click to secure.



Panic Button

Line the connection up with the REMOTE input (shown above) and push until click to secure.



VT4500 GPS Module

Line the connection up with the GPS input (shown above) and push until click to secure.



Monitor Output/Alarm Input Cable

Line the connection up with the AV OUT/ALARM (shown above) and push until click to secure.



Power Cable

Line the connection up with POWER (shown above) and push until click to secure.



6 7 S-VT4500 4G MIMO ANTENNA

Line the antenna connections up with the VT4500 inputs and twist to secure (clockwise), ANT 1 (8) ANT (9).

VT4500 Specifications:

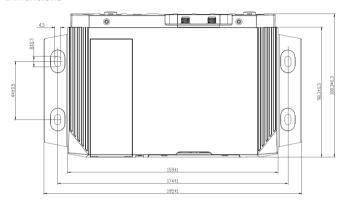
Video In	FHD(1920x1080) x 1 Channel, AHD(1280×720) x 4 Channels
Audio In	5CH from cameras
AV Out	1 Video out, 1 Audio out
Band support	LTE: B1/B3/B7/B8/B20 (EU) B2/B4/B5 (NF)
	WCDMA: B1/B8 (EU) B2/B5 (NF)
Max Data Rate	UL:5.76Mbps, DL:7.2Mbps
Video resolution	1080p HD (1920x1080), 720P (1280x720),
	D1(NTSC:720x480, PAL 720x576)
Recording Speed	Full HD: 30fps(25fps), HD: 60fps(50fps)
	D1: Up to 120 fps (NTSC) or 100fps(PAL)
Recording Mode	Continuous , Event, Dual Mode
Memoryt	Support 32GB, 64GB(FAT32), 128GB(FAT32)
G-Sensor	Internal 3-axis G-sensor
Gyro	3Axis(X,Y,Z), output rate:100 Hz,
RTC	Internal battery
Alarm In/Out	4 x Alarm In, 1 x Alarm Out
Remote controller	3x LED, Panic button, M1 & M2 button
LED	Green LED (Network), Blue LED (Record), Network (Red LED)
Super Capacitor	Enable recording of last file and shut down
Power input	DC 12V/24V 3A
Delayed Power Shutdown	Supports Delayed Power Shutdown
Size / Weight	195mm X 144mm X 31mm / 323g
Operation Temp.	-10°~55°

LEDs and Buzzer Specification:

			LED			Buzzer	Voice
Status/Step			Warning	Record	Network		[Remark] To hear the Voice, please
			(Red)	(Blue)	(Green)		audio output cable
				0	4		to speaker.
	Bootin	g step1 (0~20)	On	Off	Off		
Start-up	Booting	g step2 (20~30)	On	On and Off	Off		
	Booting Fin	ished (30, 1second)	On	On	On	[Beep] (1000Hz, 200msec)	「Beep」(1time)
Power off	Duri	ng Power off	Off	Simultaneous rate:			
	Power off finished		Off	Off	Off	[Beep] [Beep] (500Hz, 150msec)	
	Continuous Record	Recording		On			
	Event	Stand by		On			
Record	record	Recording		Flashing(Blink rate: fast)			
Record	Dual record	Continuous recording		On			
	Duarrecord	Event recording		Flashing(Blink rate: fast)			
	No record	Not record		Off			
Network	3G Network Device Ready				On		
Network	Con	nmunication			On		
	SD Init	tialize (Format)	Off	On and Off	Off and On		(Beep, 1time) continuously
	G-Sen	sor Calibration					FBeep→(after 2 seconds) Beep、Beep」
Function	FV	V Upgrade		On and On and Off and Off	Off and Off and On and On		
	Button Press					[Beep] (2000Hz, 200msec)	ГВеер」
Warning	System Warning	SD Card Full	Flashing (Blink rate: fast)	Off			「Beep x 4」(3times)
waining		Video loss Video STD error	On				
	Record Error	SD error, No SD, Write fail	Flashing(Blink rate: Slow)	Off			「Beep x4」(3times)
Error	Network Error	3G Network Device error SIM error			Off		
		Data Network connection error			Flashing(Blink rate: Slow)		
		DMS communication error			Flashing(Blink rate: Slow)		
Event	G-Sensor, Panic Button, Alarm-In				<u>'</u>		rdingdong x2 _J (1time)
Trigger	0	ver Speed					rbeep, beep x2_(1time)

VT4500 Dimensions LxHxW:

Dimensions LxHxW 108.3x30.5x195







Items	Definition
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Antenna

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