



E42 / E82 DVR System

User Manual

Safety precautions

Before using the product, please ensure that you read the safety precautions described below. Always ensure that the product is used correctly.

- Only use the supplied power sources.
- Do not attempt to disassemble, alter or apply heat to the product.
- Avoid dropping or subjecting the product to severe impacts.
- To avoid the risk of injury, do not touch the interior of the product if it has been dropped or otherwise damaged.
- Stop using the product immediately if it emits smoke, a strange smell, or otherwise behaves abnormally.
- Do not use organic solvents such as alcohol, benzene, or thinner to clean the product.
- Do not allow liquids or foreign objects to enter the DVR.
- Do not place the DVR near or in direct flame.
- Do not handle the power cord with wet hands.
- Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Do not use if the power cord or plug are damaged, or not fully plugged into the outlet.
- Do not allow direct or metal objects (such as pins or keys) to contact the terminals or plug.
- Avoid using, placing or storing the product in the humid or dusty areas.

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Product overview

A.Features

1. E42 Supports up to 4CH recording / E82 Supports up to 8CH
2. Wide range of power input, suitable for any kinds of vehicles.
3. Auto recording after ignition on.
4. Provide Video output for playing-back.
5. x4 alarm input, x1 Audio input and x1 Audio output.
6. Built-in G-sensor.
7. H.264 real time compression chip.
8. Recording format: 720p* / D1 / CIF (* E42 - digital mode).
9. Complete Video Record List. Overall quick search event log.
10. AVI conversion function.
11. Power management function, extended record after power off (User defined).
12. GPS antenna optional, record your driving position and speed.

B.Specification

DVR		E42	E82
Recording frames		720P / VGA @ 30 FPS /CH 960H / CIF @ 30 FPS / CH, D1	D1, CIF
Display mode		1 CH / 4 CH	1 CH / 8 CH
Simple mode		Record / Playback	
Resolution - digital mode		1280 x 720 / 640 x 480	
Resolution - normal mode		960 x 582 / 360 x 240	
HDD		2.5" SATA HDD removable case, max. 1TB	
SD card		Max. 128GB SD card	
Backup device		USB 2.0 flash drive, removable HDD	
Playback	MODE	Time / Date - Events	
	Full Screen	Yes	
LED indicator		Power - Record - GPS	
Signal loss detector		Yes	
RS485		Not used	
GPS		Yes - requires antenna	
G-Sensor		Yes	
IR		Yes	
Watchdog		Auto record on power	
Built-in super capacitor		Yes - safe power down	
Power supply		DC 8V - 32V	
Dimensions		250mm x 175mm x 70mm	
Weight		1.85KG Inc. HDD	
Operating temperature		-20oC - 65oC	

Product overview

C. Contents

At end of Power cables and alarm cable lines, add '(plug in)'
under Power cables, add 'Camera cables (plug in)'
next to RS-485 cable, add '(not required)'

Optional

- GPS Antenna
- 1TB HDD
- 7" Monitor
- Cameras

D. Product views



Product overview

E. Power on / off

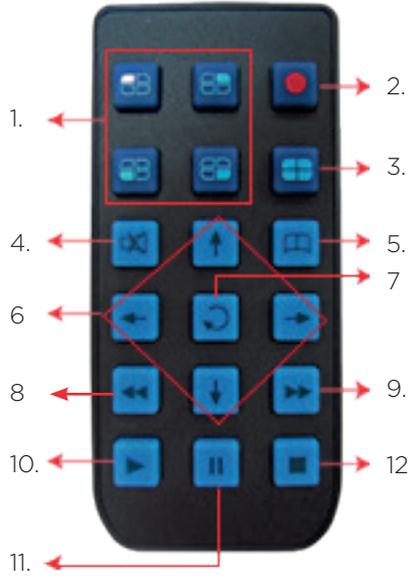
- (1) Power on
The DVR will take approximately 30 seconds to begin recording.
The recording light will flash to indicate the unit is recording.
- (2) Power off
Turn off the power; please wait for 10 seconds until super capacitor
Has finalised the recordings and shut down before you remove the HDD
if required
- (3) Light indicator
 - Power light (green light)**
Off - No power/power off.
On - Power supply functioning normally.
GPS Light (Orange Light)
Off - GPS is not ready.
On - GPS located.
 - Network light (blue light)**
Not used
 - Recording light (red light)**
Off - No recording.
Flashing - Recording.
Flashing rapidly - Event recording.

Note - Recording is not possible when using playback mode

Product overview

F. IR Remote controller

If using the optional monitor you can access and program the DVR

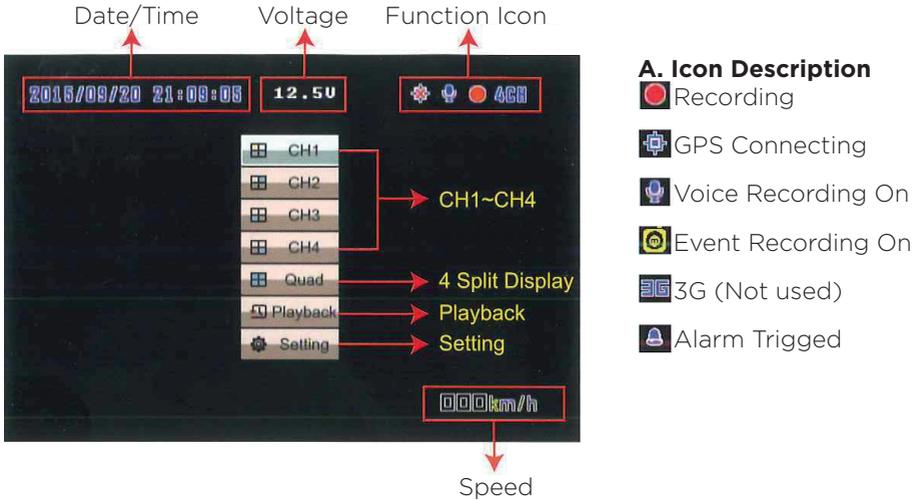


Remote buttons			
No.	Function	No.	Function
1	1 CH Screen display	7	Confirm
2	Record button	8	Rewind
3	4 CH Screen display	9	Forward
4	Mute	10	Play
5	Menu	11	Pause
6	Arrows	12	Stop

Software overview

Using a monitor view to set up the DVR and configure the system.

NOTE: When first powering up the DVR with a new HDD installed, the system will first format and initialise the HDD. This may take a few minutes.



G. System interface and operation

- Press CH1-CH4 / 8 button or select on menu for single display.
- Press quad split screen button for 4 Channel or 8 Channel display.
- Press menu button to enter menu option.
- Press play button to enter playback mode.

Icon Description:

- Recording
- GPS Connecting
- Voice Recording On
- Event Recording On
- Alarm Triggered

Software overview

OSD Menu operation and parameters setup description

Recording settings	Recording Frame		5-30 fps
Resolution	720p	D1	CIF
Quality	Normal	Better	High
Colour setting	Select 1-4 CH to adjust, brightness, contrast and colour		
Time setting	The time setting will be automatically calibrated by GPS signal. If no GPS signal, time and date can be set manually.		
GPS setting	Display speed on monitor		
Number plate	Add vehicle number plate		
Working mode	Select default channel view Select shut down delay (parking mode) Microphone on / off		
Alarm setting	Select mode after trigger		
System protection	Low voltage HDD Protection		
3G Network	Not in use		
G-Sensor	3 Axis impact detection, files protected from overwrite		
Camera types	720P / D1		
Data backup	Select file to backup		
Restore default	Reset the DVR to default settings		
Format HDD	Format the HDD (All data deleted)		
Firmware update	Use the USB slot to backup and install new firmware		

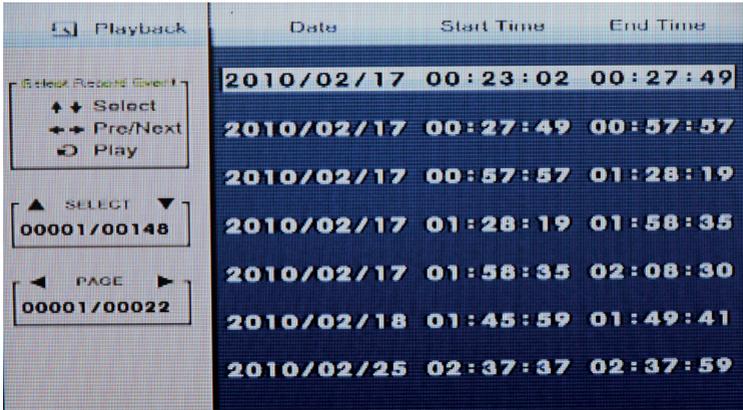
Software overview

Playback mode

Live onscreen or through the software on a PC

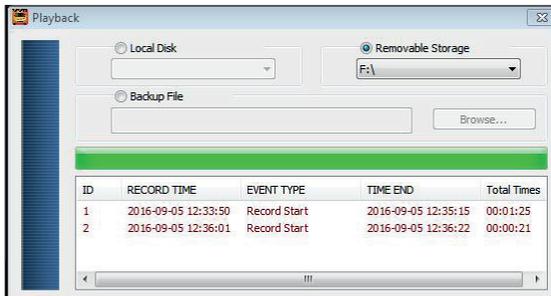
On the monitor

1. Click the play button on the remote while in live view (not recording) to enter the playback page
2. Select search type then press confirm to enter the playback list
3. Select the file to playback

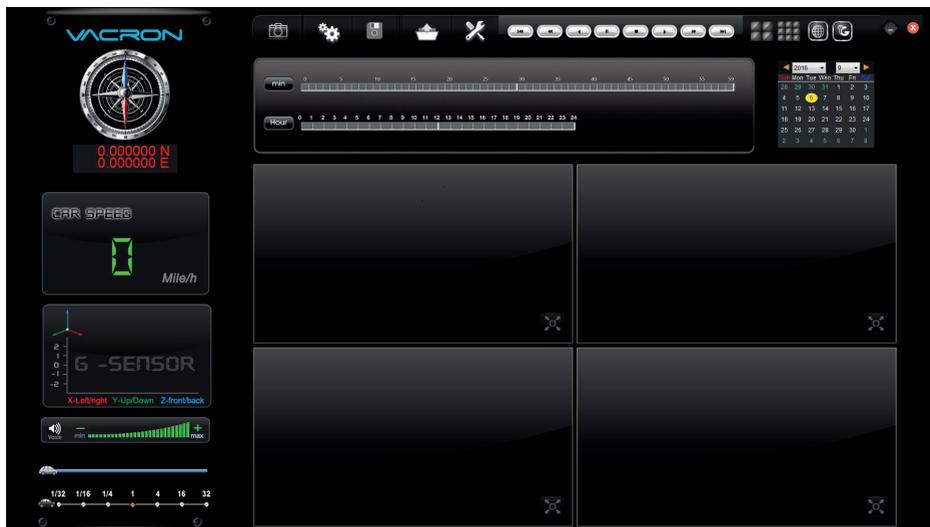


On a PC

1. Remove the HDD from the DVR and connect the transfer cable to the HDD and then your PC's USB
2. Run the viewing software (as administrator)
3. Select Playback  to open the playlist menu.
4. Select the HDD under removable storage to access the playlist file



Software overview



Software overview

Control interface



	Snapshot: Capture the onscreen image
	Configuration
	Disk Backup: Select destination location
	Playback: Select HDD or PC
	Tools: HDD format / language
	Previous File
	Previous Frame
	Play backwards
	Pause
	Stop
	Play
	Next Frame
	Next File

Snapshot

Click the icon, to capture the footage on screen. The Image will be saved as .bmp file format. The player will show the backup folder automatically. The default directory is the Snapshot folder. (Under the Player installation folder).

Configuration

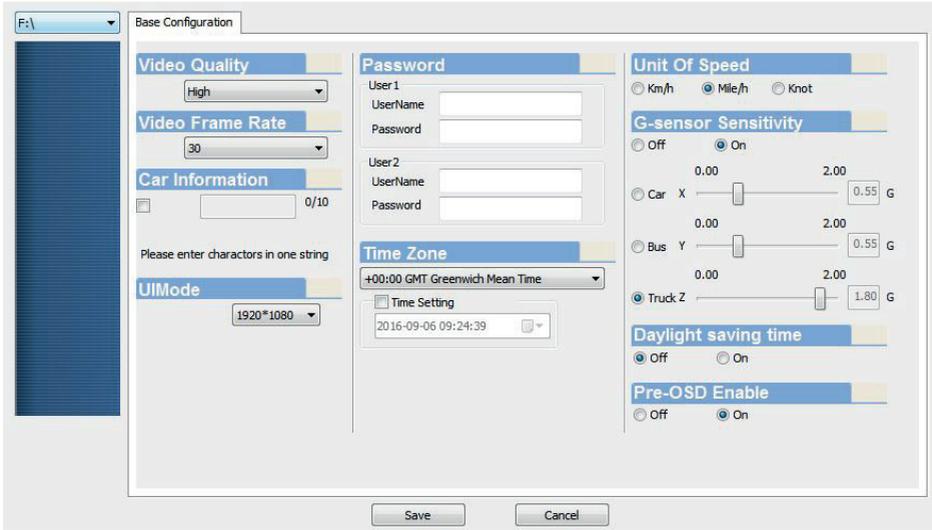
Setup the HDD

Before you execute this function , please attach the HDD device into your computer using the SATA connection to USB cable. When you have finished all of the setting, click " Save". All the settings will save to the HDD device. When you insert the HDD device into your DVR, the DVR will read the setting and follow the setting to start recording.

Software overview

Using PC to setup the DVR and configure the system.

Please Note: Some settings are not available when setting up in PC mode - eg. Parking mode & 720p / VGA selection.

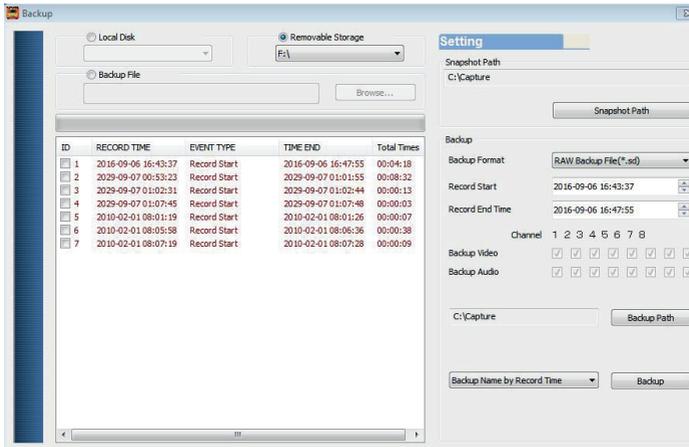


Video quality	High / normal / low
Video frame rate	5 - 30 fps
Vehicle information	Number plate / driver
UI Mode	Screen resolution
Password	Encrypt the HDD device to prevent others who are not permitted to access the HDD device. Password length:15 characters. After setting the password, all actions, including Playback, settings and formatting the HDD device, need the password.
Time zone	GMT setting - Adjust for BST
Unit of speed	MPH / KPH
G-Sensor Settings	Vehicle type - min / low / normal / high / max

Software overview

Backup

Choose the backup folder  for your footage from the HDD



1. Select the original source (HDD)



2. Choose the file to backup

ID	RECORD TIME	EVENT TYPE	TIME END	Total Times
1	2016-09-06 16:43:37	Record Start	2016-09-06 16:47:55	00:04:18
2	2029-09-07 00:53:23	Record Start	2029-09-07 01:01:55	00:08:32
3	2029-09-07 01:02:31	Record Start	2029-09-07 01:02:44	00:00:13
4	2029-09-07 01:07:45	Record Start	2029-09-07 01:07:48	00:00:03
5	2010-02-01 08:01:19	Record Start	2010-02-01 08:01:26	00:00:07
6	2010-02-01 08:05:58	Record Start	2010-02-01 08:06:36	00:00:38
7	2010-02-01 08:07:19	Record Start	2010-02-01 08:07:28	00:00:09

Software overview

3. Choose backup format



Back up format

SD Format - Encrypted with all data

AVI Format - Video only

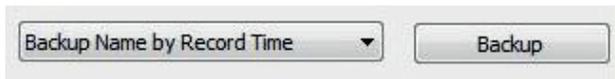
4. You can also record a specific time during the footage



5. Choose the backup folder



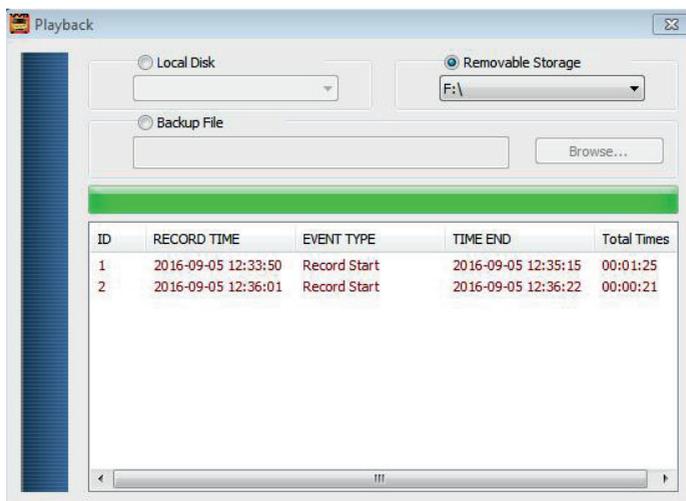
6. Start backup



Software overview

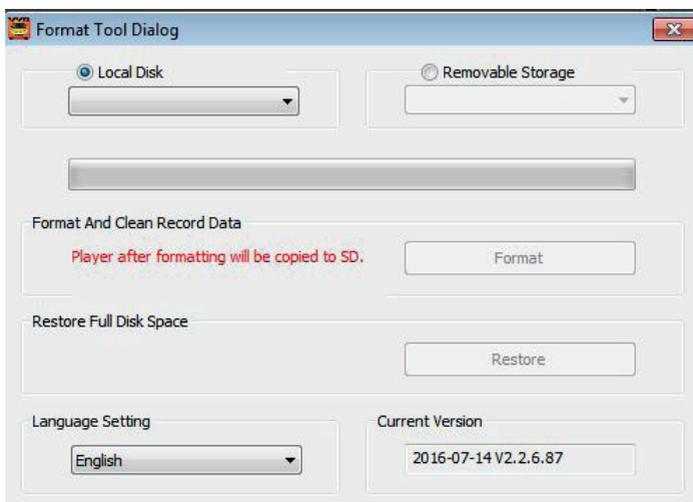
Playback

Choose the  file on the HDD or PC to playback



Format

Format  and restore the HDD and language settings



Software overview

GPS Latitude & longitude coordinates

Display driving location with latitude and longitude, requires GPS antenna



G-Sensor

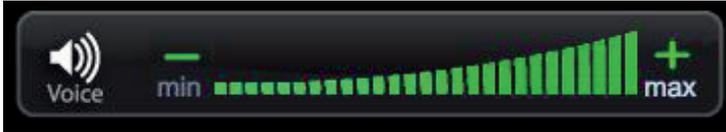
X - Left to Right
Y - Front to Back
Z - Up and Down



Software overview

Volume control

Volume BAR: Click the left button of mouse control to adjust the volume degree.



Video search

You can use the mouse to drag the bar to search the video quickly.



play speed

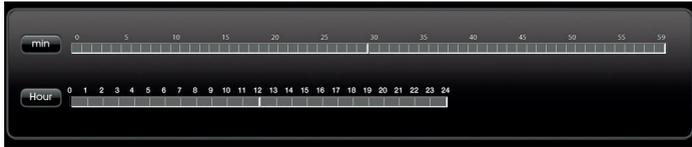
Supports 2x, 4x, 8x fast forward and 1/2x, 1/4x 1/8x slow play



Software overview

Playback date selection

Quick switching by minutes



Date search

Selecting by Hours/Minutes (24-hours)



Software overview

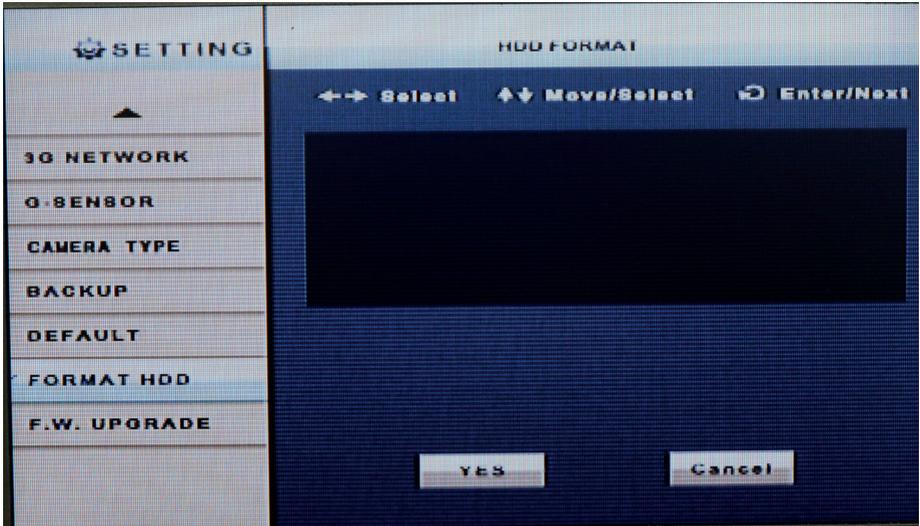
Format/restore HDD

You should format a new HDD before it is used in the E42 / 82. This is done when you insert the HDD into the DVR.

If you need to format the HDD for other reasons, please backup all relevant data

Format HDD by device or PC

- (1) Format by Device
 - Step 1: Use remote controller to enter DVR menu and choose Format Disk.
 - Step 2: Select “Yes” and Click “Enter” to start formatting.
 - Step 3: When the screen back to LIVE mode, the formatting is completed.



Software overview

(2) Format On PC

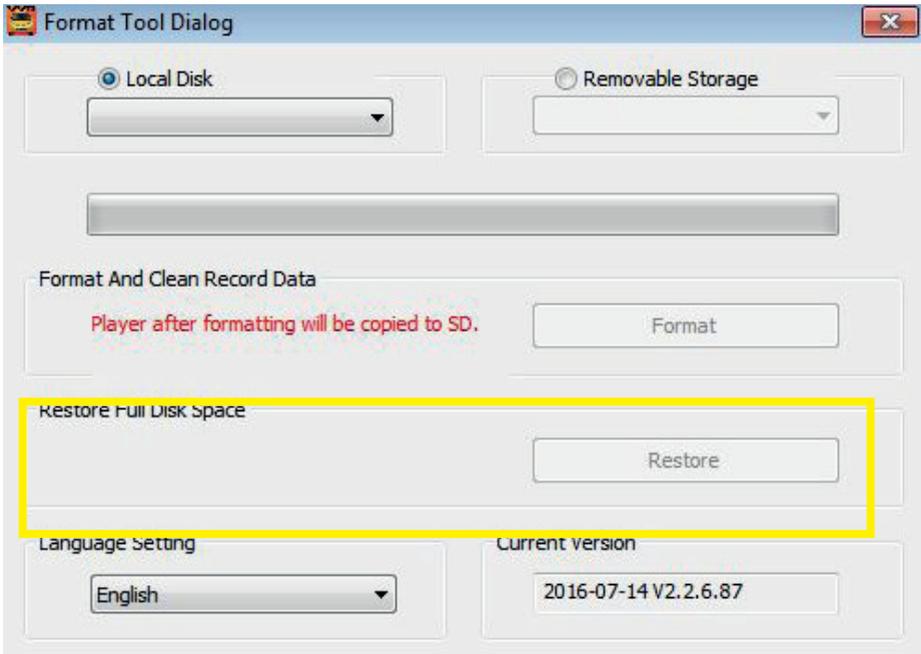
Step 1: Connect the storage device / hard disk to PC.

Execute the CarBox2.exe software

Step 2: Click icon to enter format tool menu.

Step 3: Click “Format” button .

Step 4: Click “ Yes”



After formatting, disconnect then reconnect the HDD, then you can reset all of your settings and save. Re install the HDD into the DVR.

Software overview

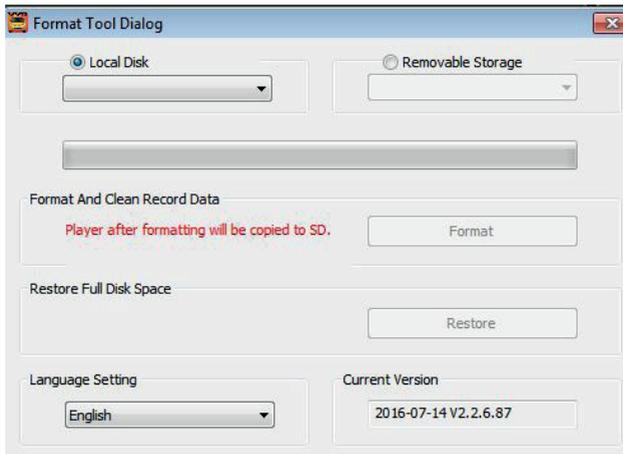
Restore HDD

Use this function to restore your HDD to a Windows format.

(1) Restore the Storage on PC Player

Step 1: Connect the storage device (hard disk) to PC.
Execute CarBox.exe

Step 2: Click  icon, choose the Storage, then press “Restore”

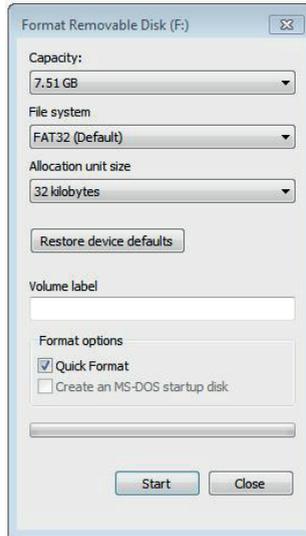


Step 3: The following window will pop up, Click “Yes” to start the restore.

Step 4: Now your system will pop up the window to proceed with the format. Please choose “Quick format”, then click “Start”.

Software overview

Step 5: Click “Yes” to start formatting



Step 6: Click “OK” to finish the restore.



Step 7: After the process finishes press “OK”. The HDD will now be usable as a Windows HDD.



RoadHawk, c/o Trakm8

Unit 9B, Callywith Gate Ind Est,
Bodmin, PL31 2RQ

Tel. 01208 269 159

Web. www.roadhawk.co.uk