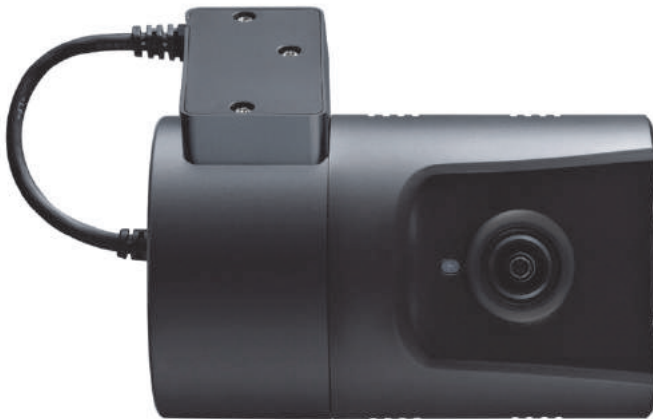




USER GUIDE



VT2000 3G ENABLED VEHICLE RECORDER

- Thank you for purchasing the VT2000 Vehicle Recorder.
- Please ensure that you read and understand this USER GUIDE and use it before connecting and installing this Recorder.
- Please store the USER GUIDE in an easily accessible location.

VER 1.0.0 1st Edition

INDEX

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SAFETY ADVICE



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

Please make sure you follow the safety advice/instructions given in the user guide.



Caution

**RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.**

Battery for RTC(Real Time Clock) inside



Caution

Install the product where it does not block driver's visibility and where there is no airbag installed. This could cause an accident or might injure passengers in case of accident



Caution

Damages due to production malfunction, loss of data, or other damages occurring while using this product shall not be the responsibility of the manufacturer. Although the product is a device used for recording videos, the product may not save all videos in the case of a malfunction. In the case of an accident, the sensor may not recognize the shock when the impact is light and as a result it may not begin recording automatically.

WARNING:

**TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE
THIS APPLIANCE TO RAIN OR MOISTURE.**

GPS RECEPTION

1. Activate the product in an area without large buildings to improve GPS reception.

The commercial purpose GPS has the average range error of more than 15 meters and the range error could be more than 100 meters due to environmental conditions like buildings, roadside trees etc.

2. The temperature range for optimum operation of the GPS receiver in your car is -10 ~ 50°C.

3. When using the product for the first time or after a long period (more than three days), it may take a little longer to recognize your current location.

It may take between five and thirty minutes to get GPS reception.

GPS reception may be impaired under the following circumstances

- 1) If there is an object at the end of the GPS antenna
- 2) If your vehicle has metallic elements on the windshields
- 3) If equipment generating electromagnetic waves that interfere with the GPS signal is installed in the vehicle e.g.: Other GPS devices such as a certain type of wireless activated alarms, MP3 and CD players and camera alarms using GPS.
- 4) If you are using a receiver connected by cable, electric interference can be avoided by simply changing the location of the receiver (antenna).
- 5) On heavily overcast or cloudy days, if the vehicle is in a covered location such as under a bridge or raised roadway, in a tunnel, an underground roadway or parking area, inside a building or surrounded by high-rise buildings.
- 6) If GPS signal reception is poor, it may take longer to locate your current position when the vehicle is moving than when it is stationary.

CONTENTS



**VT2000
Vehicle Recorder**



Power Cable



**Sticker for Windscreen mounting
(double sided tape x2)**



User Guide



**Sticker for Angle Lock
(Void sticker x2)**



Wire Splice clips (x5)



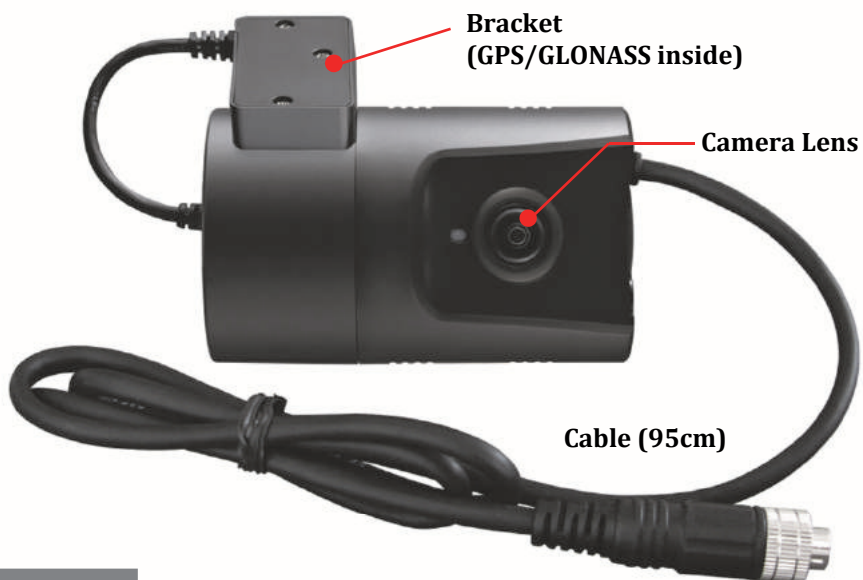
Torx screw (x1)



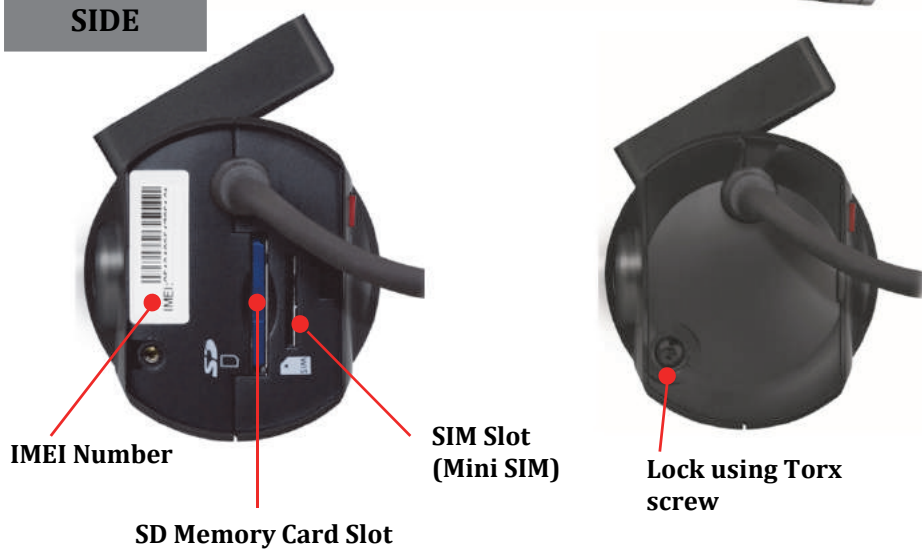
SD Cover (x1)

INTRODUCTION

FRONT

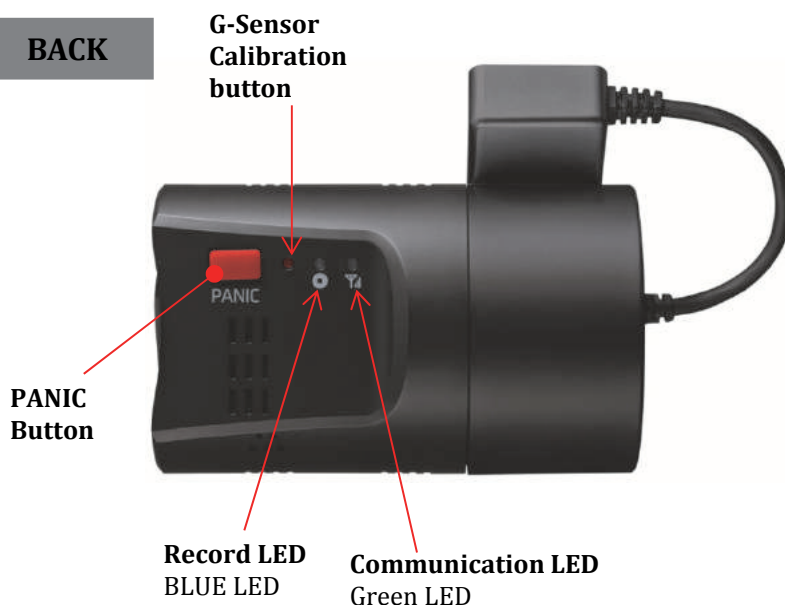


SIDE










INTRODUCTION

BACK



POWER CABLE

	Black (Ground)
	Red (Power Battery +)
	White (Power ACC +)
	Green (Alarm In, NC/NO), (External panic button+)
	Black (Ground), (External panic button+)
	Orange (Alarm In, Voltage)
	Yellow (Alarm out), Low(0V) to High (5V) 2seconds

External Panic Button (optional Item)

Cable length: 2m90cm
Button Case Size: 18 x39x10 mm



FUNCTIONS

Automatic Booting

Once the VT2000 has been wired to your car power source the VT2000 will be boot up, this will take around 1 minute for the unit to be ready to record.

The default setting for record is the continuous recording at 30fps, 720P resolution. On this setting the SD card storage may be used up quicker and depending on the settings, overwrite or stop recording when full. To avoid losing valuable data, back up data to a separate storage or PC device after any incidents.

NOTE: The unit will not start recording immediately after power on. It takes around 1 minute for the built-in power backup system to charge. Thereafter, the internal flash memory will be ready to record.

Continuous Record (When Record mode set as “Continuous”)

This is the default mode for recording. In this setting the unit will begin recording after boot up and record the entire time the unit is powered.

The resolution and frame rates can be set as per your requirements. You can change the configuration of the recording using the VT2000 Software. To do this, please see the ‘Settings’ section on page 16.

Event Record (When Record mode set as “Event”)

The unit will record when triggered by either an impact or a push of the ‘PANIC’ button. Each event file contains up to 20 seconds prior & up to 20 seconds post event. And the event file can be extended by 2nd trigger during event record.

When events are triggered continuously, for every event, 20 seconds post-recording from the time of the event will be added to the event data file with a maximum recording time of 3 minutes. When this 3 minutes is reached, the file will be split and a new file will be created but the data will be continuous.

Dual Record (Continuous & Event Record)

The continuous record fps is 1fps and the file will be stored on the “Normal” folder.

Event record will work according to the Fps setting for example 30frames per second recording and the file will be stored on the “Event” folder

Drive Data (DRV file)

The DRV (Drive Data) file will be recorded during driving even if there are no events or video. The DRV file consists of GPS and G-sensor data and it helps to find specific data or driving behaviors. The DRV file overwrites the oldest data. The DVR files will be made every 10 minutes.

FUNCTIONS

G-Sensor Calibration

G-Sensor Calibration is needed after installing the VT2000.

1. Install the unit and park the vehicle on a flat surface .
2. Turn on the unit and press the small red button three seconds.
3. Then calibration will be done with “beep” sound.

Built-in power backup (Super Capacitor)

When power to the unit is interrupted, VT2000 creates the last file using the internal Super Capacitor.

Time and Date

There are no time and date settings as the VT2000 get's this information from the GPS satellite's.

SD Memory Card Format

Please format [initialize] the SD card using the “Configuration Tool VT2000” software.

Safely Removal SD Card

Power off vehicle and take out SD memory card

Turn off the power and then check the BLUE LED light. Once the LED light is not on, you can now safely remove the SD memory card.



LEDS & BUZZER SPECIFICATION

BLUE LED (RECORD)

GREEN LED (COMMUNICATION)

FRONT LED

Buzzer

Status/Step			LED			Buzzer
			Record	Communication	Front LED	
			Blue	Green		
						
Start-up	Bootting step1		On	Off	On	
	Bootting step2		On and Off		Off	
	Bootting Finished		On		Off	「beep」(1time)
Power off	Power off		Simultaneous Flashing (Blink rate: fast)		Off	
Record	Continuous Record	Recording	Flashing (Blink rate: Slow)		Off	
	Event Record	Stand by	Flashing (Blink rate: Very Slow)		Off	
		recording	Flashing (Blink rate: fast)		Off	
	Dual Record	Continuous Recording	Flashing (Blink rate: Slow)		Off	
		Event recording	Flashing (Blink rate: fast)		Off	
Communication	3G Network Device Ready			On		
	Communication			Flashing (Blink rate: fast)		
Function	SD Format		Simultaneous Flashing (Blink rate: normal)		Off	(Beep, 1time) and then repeat
	G-Sensor Calibration					「Beep→(3seconds later) Be, BeBeep」
	FW Upgrade		On and Off	Off and On	Off	
Warning	SD Card	SD Card Full	Flashing (Blink rate: Slow) 3times, and off 3seond. And then repeat		Off	「BeepBeepBeepBeep」(3times)
		without setting file	Simultaneous Flashing (Blink rate: Normal) 4seconds and then repeat it every minute.			
Error	Record Error	No SD, SD error, SD Lock, Write fail, No folder	Simultaneous Flashing (Blink rate: Slow)			「BeepBeepBeepBeep」(3times)
	Communication Error	3G Network Device error		Off		「BeepBeep」(3times)
		Data Network connection error		Off		
		DMS communication error		Flashing (Blink rate: Slow)		
Event Trigger	G-Sensor, Rec Button, Alarm-In					「DingDong, DingDong」(1time)
	Over Speed					「Be, Beep, Be, Beep」(1time)

INSTALLATION

Park your vehicle on a flat level surface.
Turn off the engine before installing the VT2000.

Attach the VT2000 using the provided double sided 3M tape.
The surface must be clean and dry before you install. We recommended to install the product behind the rear view mirror on the front windshield.

NOTE: The 3M adhesive tape will not stick well with dust or oil, etc.
Please make sure the surface is clean before applying.

Adjust camera view. Make sure the lens has an unobstructed view. Check from outside the vehicle to check the camera angle, you can adjust the angle via the bracket teeth.

Arrange the power cord neatly alongside of the windshield and door pillar trim.

The VT2000 requires a continuous 12/24volt power source from the vehicle.

The cable supplied will allow you to hard wire the VT2000 unit to the fuse box of your vehicle.

Connect the “red cable (+)” to a fuse. It should be connected to a fuse that has power when you start the engine.

The ground cable should be contacted at the car body or battery negative.

Start on the car after installation.

CONFIGURATION TOOL USER GUIDE

Configuration Tool VT2000 Software



PC SYSTEM REQUIREMENT

Recommended PC specifications for PC Viewer Software

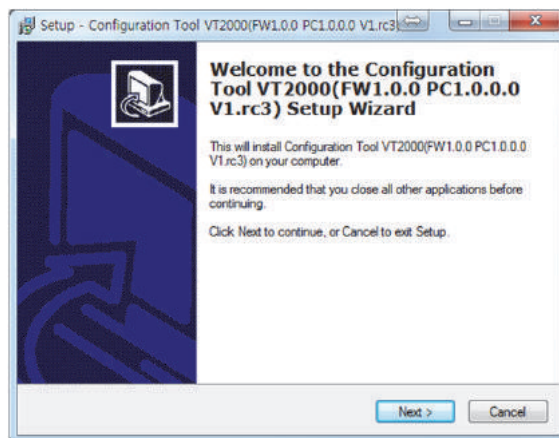
OS	Windows Vista. Windows 7, Windows 8/8.1
CPU	Core 2 Duo 2.5GHz or Higher
RAM	2GB or Higher
Interface	SD Memory Card Reader
HDD Free space	Install : 55MB or Higher Backup : 4GB or Higher
Display	1024 x 768 pixel/True Color or higher

If the PC does not meet the minimum system requirement, the PC Viewer Software may not function properly.

SOFTWARE INSTALLATION

The Configuration Tool VT2000 Software is on the provided SD card. (Also available on our website.)

1. Connect the SD card into your PC (if your computer does not have an SD card slot use the USB SD card reader) and open the “My Computer”
2. Right-click the “FHDRM” drive and select [Open]
3. Double click [configtool(FW1.0.0_PC1.0.0.0_V1).EXE] in the [pcsw] folder.
4. Select the language and then follow the dialog box prompts.



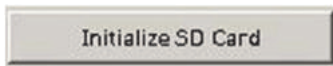
5. The “Configuration Tool VT2000” icon will be displayed on your desktop.



NOTE: To Un-install the Configuration Tool VT2000 Software

Make sure the program is not running and open the 'Control Panel'
Select 'Remove Program' and remove the Configuration Tool VT2000 Software.

INITIALIZE SD CARD

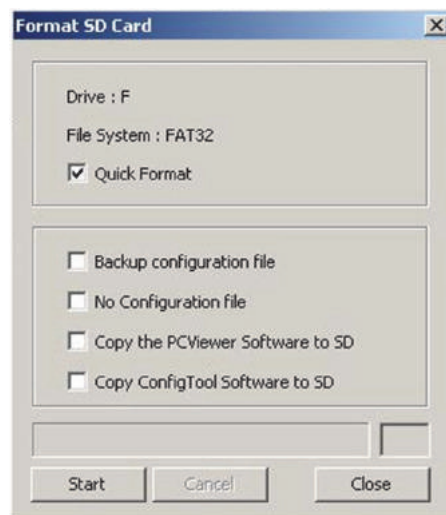


Click!

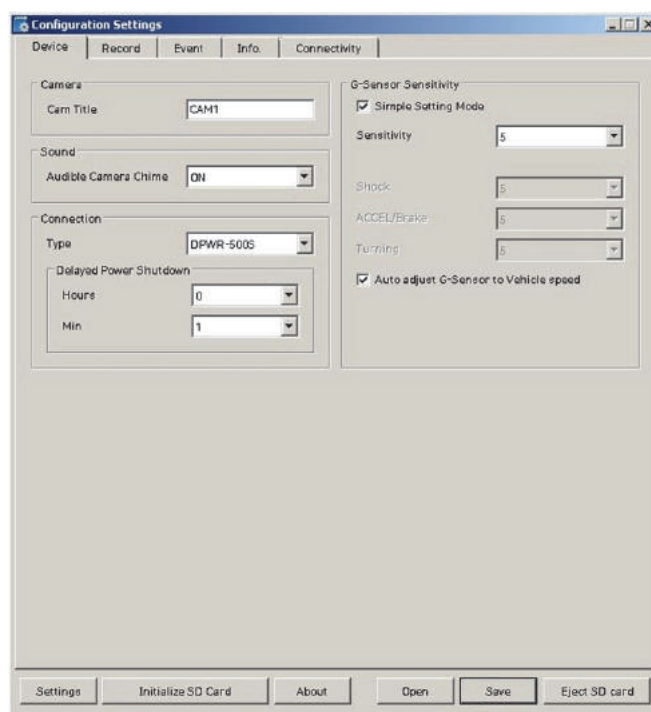
To initialize the SD card quickly, click on the above icon and you will be presented with the following screen to choose the SD card to initialize. Click 'OK' when selected.



On the following screen, check the 'Quick Format' button and uncheck the 'Backup Configuration File' and Click 'Start' to begin initialization.



DEVICE SETTINGS



Cam Title

Use the alphabet and numbers to rename (max 10 digits) the cameras. The new names will be displayed on the live screen and all recordings.

Audible Camera Chime: Turn the Chime on or off

Connection Type : Set the power supply type

Delayed Power Shutdown: Set delayed power shutdown time.

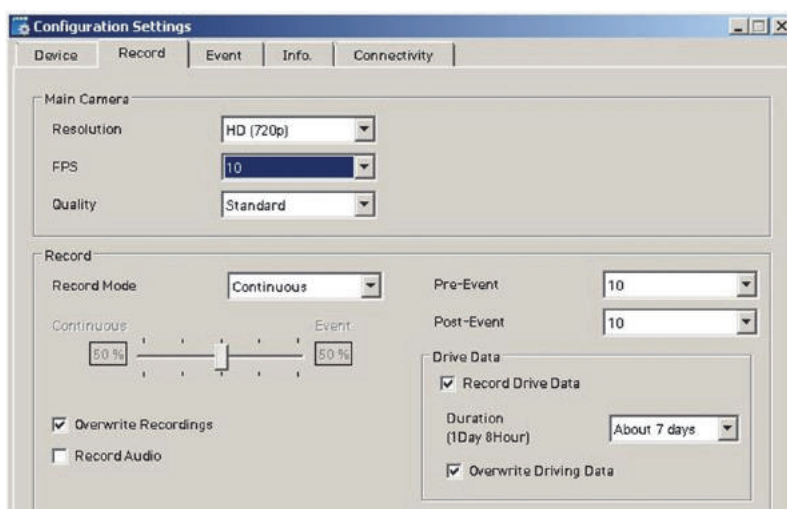
G-Sensor Sensitivity: The shock sensor sensitivity can be set to 'Simple setting Mode' or 'Custom'. Set to easy allows you to set the sensitivity to 9 (High), 5 (Medium) or 1 (Low).

In custom set, you can set 3 different shock sensor values individually.

Auto adjust G-Sensor to Vehicle speed

Once it checked, VT2000 will automatically decrease the G-Sensor sensitivity at higher vehicle speeds to compensate for the naturally added G-forces that are experienced due to velocity.

RECORD SETTINGS



Resolution

VGA (640x480), 720P (1280x720), 1080p HD (1920x1080).

Frame Rate

Adjust the frame rate from 30fps, 15fps, 10fps, 5~1fps

Quality

Adjust the picture quality from Standard, High, Super

Record Mode

Event (Automatically starts recording by G-sensor or Panic button.)

Continuous (Always recording when powered by DC 12/24V.)

Dual (The continuous record fps is 1fps and Event record will work according to the Fps setting.)

Overwrite Recordings

This function allows the unit to overwrite old files on the SD Card automatically. You can overwrite the continuous, panic or G-Sensor recorded files.

Pre-Event / Post-Event

Adjust the Pre/Post Event time from 5 seconds to 20seconds

Drive Data

GPS data & G-Sensor data will be recorded with videos and at the same time, GPS data & G-Sensor data will be recorded separately, we call it as 'Drive data(drv file)'.

Adjust Drive Data duration from "about 1 day" to "about 30 days".

EVENT SETTINGS

The screenshot shows the 'Configuration Settings' window with the 'Event' tab selected. The window has a title bar with standard Windows controls. Below the title bar are five tabs: 'Device', 'Record', 'Event' (selected), 'Info', and 'Connectivity'. The main area is divided into several sections for configuring event triggers and outputs.

Event Triggered by

- G-Sensor**
 - ☒ Record
 - ☒ Beep
 - Alarm Out: N/A
- Panic Button**
 - ☒ Record
 - ☒ Beep
 - Alarm Out: N/A
- Overspeed 1**
 - ☒ Record
 - ☒ Beep
 - Speed Limit: 100 km/h Over
 - Time of detect: (dropdown)
 - Alarm Out: N/A
- Overspeed 2**
 - ☒ Record
 - ☒ Beep
 - Speed Limit: 120 km/h Over
 - Time of detect: 1 Min
 - Alarm Out: N/A
- Alarm Input 1**
 - ☒ Enable
 - ☐ Record
 - ☒ Beep
 - Title: Alarm1
 - Type: V-Off
 - Alarm Out: N/A
- Alarm Input 2**
 - ☒ Enable
 - ☐ Record
 - ☒ Beep
 - Title: Alarm2
 - Type: N-O
 - Alarm Out: N/A
- Alarm Out**
 - Title: AlarmOut1

At the bottom of the window are six buttons: 'Settings', 'Initialize SD Card', 'About', 'Open', 'Save', and 'Eject SD card'.

Event settings

You can set the unit to record when triggered by the G-Sensor, Panic Button and GPS Speed Limit and Alarm Inputs.

And you can set the Alarm out duration per each event.

INFO. SETTINGS

The screenshot shows a software window titled "Configuration Settings" with a gear icon and standard window controls. It has five tabs: "Device", "Record", "Event", "Info" (selected), and "Connectivity". The "Info" tab contains three main sections: "Date / Time", "System", and "ID".

Date / Time

- ☐ Daylight Saving Time. A button "Retrieve time settings from my PC" is to the right.
- Start: Month (1), Week No. (1), Day of Week (Sunday), Hour (0).
- End: Month (1), Week No. (1), Day of Week (Sunday), Hour (0).
- Time Zone (UTC): 0 : 00.
- GPS Time Sync: At Start Up.
- ☐ Manual Time Setting: 11/12/2015, 4:41:41 PM.

System

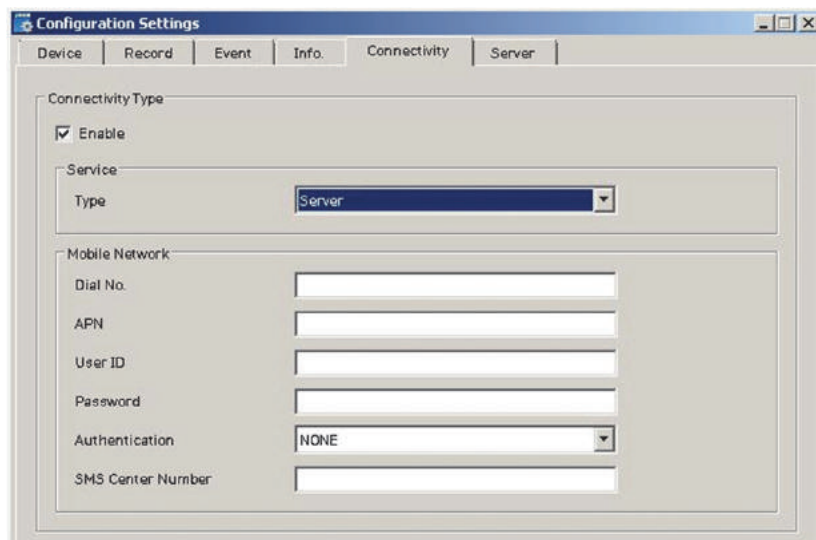
- Speed Format: km/h.

ID

- Vehicle ID: [text input field]
- Driver ID: [text input field]

This option allows you to adjust the Time Zone, GPS Time synchronization, set your Vehicle ID and also the Driver ID.

CONNECTIVITY SETTINGS



The screenshot shows a 'Configuration Settings' window with a tabbed interface. The 'Connectivity' tab is selected. Under 'Connectivity Type', the 'Enable' checkbox is checked. The 'Service' section has a 'Type' dropdown menu set to 'Server'. The 'Mobile Network' section contains several input fields: 'Dial No.', 'APN', 'User ID', 'Password', 'Authentication' (set to 'NONE'), and 'SMS Center Number'.

Connectivity Type	
<input checked="" type="checkbox"/> Enable	
Service	
Type	Server
Mobile Network	
Dial No.	
APN	
User ID	
Password	
Authentication	NONE
SMS Center Number	

Set the Service Type as Sever to use 3G connection.

Adjust the settings like Dial No., APN, password, User ID, Authentication etc.

Please refer to the Sim Card supplier website for these settings.

SERVER SETTINGS

The screenshot shows a 'Configuration Settings' window with a 'Server' tab selected. The window contains the following fields and options:

- DMS4** section:
 - Domain/Static IP and Port #: A text box with a placeholder example 'http://DomainName:5000'.
 - License Key: A text box.
 - ☐ Transmit Live Tracking Data
 - ☐ Transmit Event Data
- Event Images** section:
 - ☒ Main Camera
 - Pre-Event: A dropdown menu showing '5'.
 - Post-Event: A dropdown menu showing '5'.
- Event Triggered by** section:
 - ☐ Panic Button
 - ☐ G-Sensor
 - ☐ Over Speed1
 - ☐ Over Speed2
 - ☐ Alarm1
 - ☐ Alarm2

Set Domain/Static IP and Port number

Default License Key is "DASKEY_001"

And check Transmit Live Tracking Data and Transmit Event Data.

And then select events.

SOFTWARE USER GUIDE

PC Viewer Software



PC SYSTEM REQUIREMENT

Recommended PC specifications for PC Viewer Software

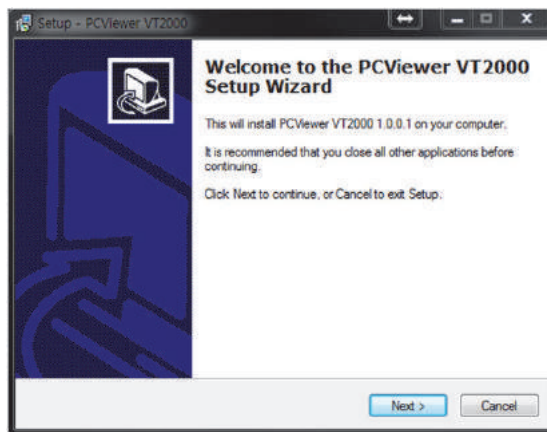
OS	Windows Vista. Windows 7, Windows 8/8.1
CPU	Core 2 Duo 2.5GHz or Higher
RAM	2GB or Higher
Interface	SD Memory Card Reader
HDD Free space	Install : 55MB or Higher Backup : 4GB or Higher
Display	1024 x 768 pixel/True Color or higher

If the PC does not meet the minimum system requirement, the PC Viewer Software may not function properly.

SOFTWARE INSTALLATION

The PC Viewer Software is on the provided SD card. (Also available on our website.)

1. Connect the SD card into your PC (if your computer does not have an SD card slot use the USB SD card reader) and open the “My Computer”
2. Right-click the “FHDRM” drive and select [Open]
3. Double click [SETUP.EXE] in the [pcsw] folder.
4. Select the language and then follow the dialog box prompts.



5. The “PC Viewer VT2000” icon will be displayed on your desktop.



NOTE: To Un-install the PC Viewer Software

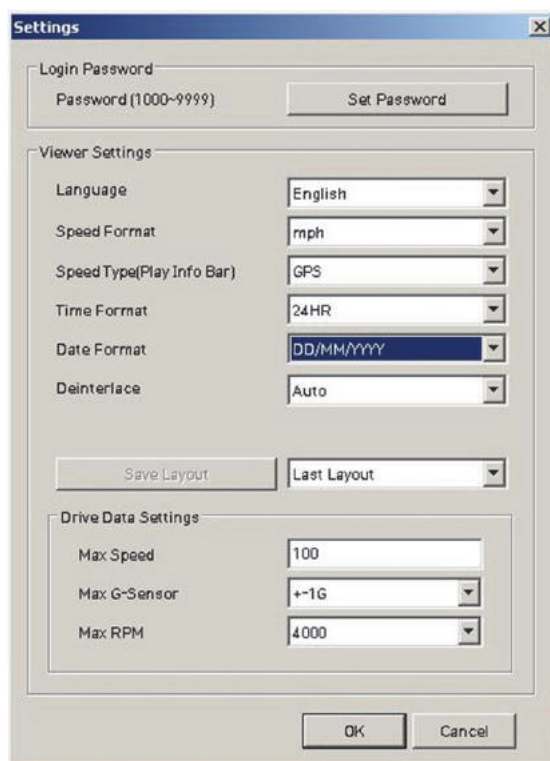
Make sure the program is not running and open the 'Control Panel'. Select 'Remove Program' and remove the PC Viewer Software.

PC VIEWER SOFTWARE SETTINGS



Viewing settings

This setting is for the PC Viewer Software itself. To set the Recorder, refer to page 15.



Click the 'Password' button. Password for the PC Viewer Software can be set with any number between 1000-9999.

The 'speed' & 'date' formats will be set automatically according to the PC Windows setting. However it can be changed with this software setting menu.

Last Layout: The program will launch with the same layout as it was when it was closed.

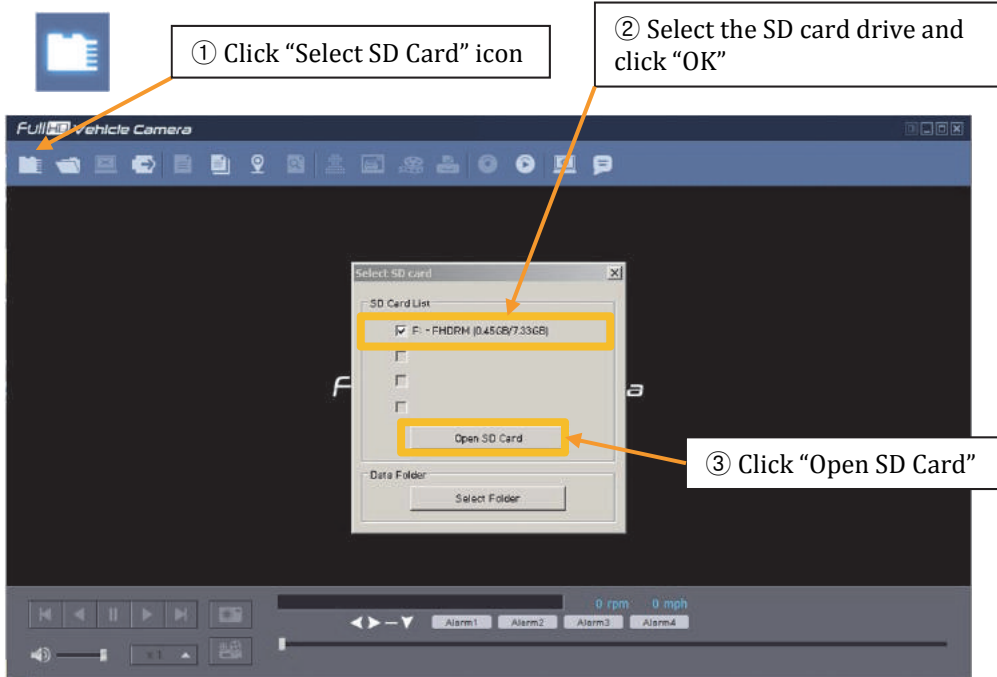
Default Layout: The program will launch with the Default Layout

Drive Data Settings

The graph scales for the Drive Data Window will be modified according to the Settings.

OPEN THE SD CARD

Insert the SD card into your PC



The playback file list and "Continuous" and "Event" tap is displayed on the right side of the screen.

You can hide the playback list by clicking the close icon.

The playback list can be displayed on the screen again by clicking the "File List" icon.

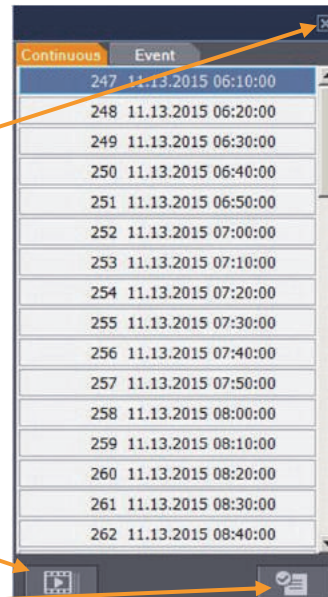


You can end the video playback by clicking the "Close files" icon.



Continuous Play next file.

Check events from playback file.

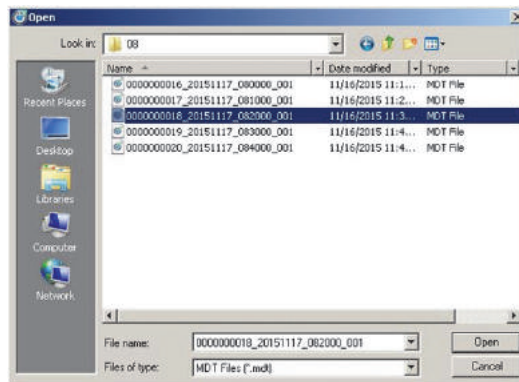


OPEN FILES

If you want to play a specific file that has been backed up on the PC or SD Card, Click the “Open files” icon



“Open files” icon




Select the MDT file you want to play and click “Open”.
The image of the selected file will then be displayed and you can click the “Play” button to play the file.

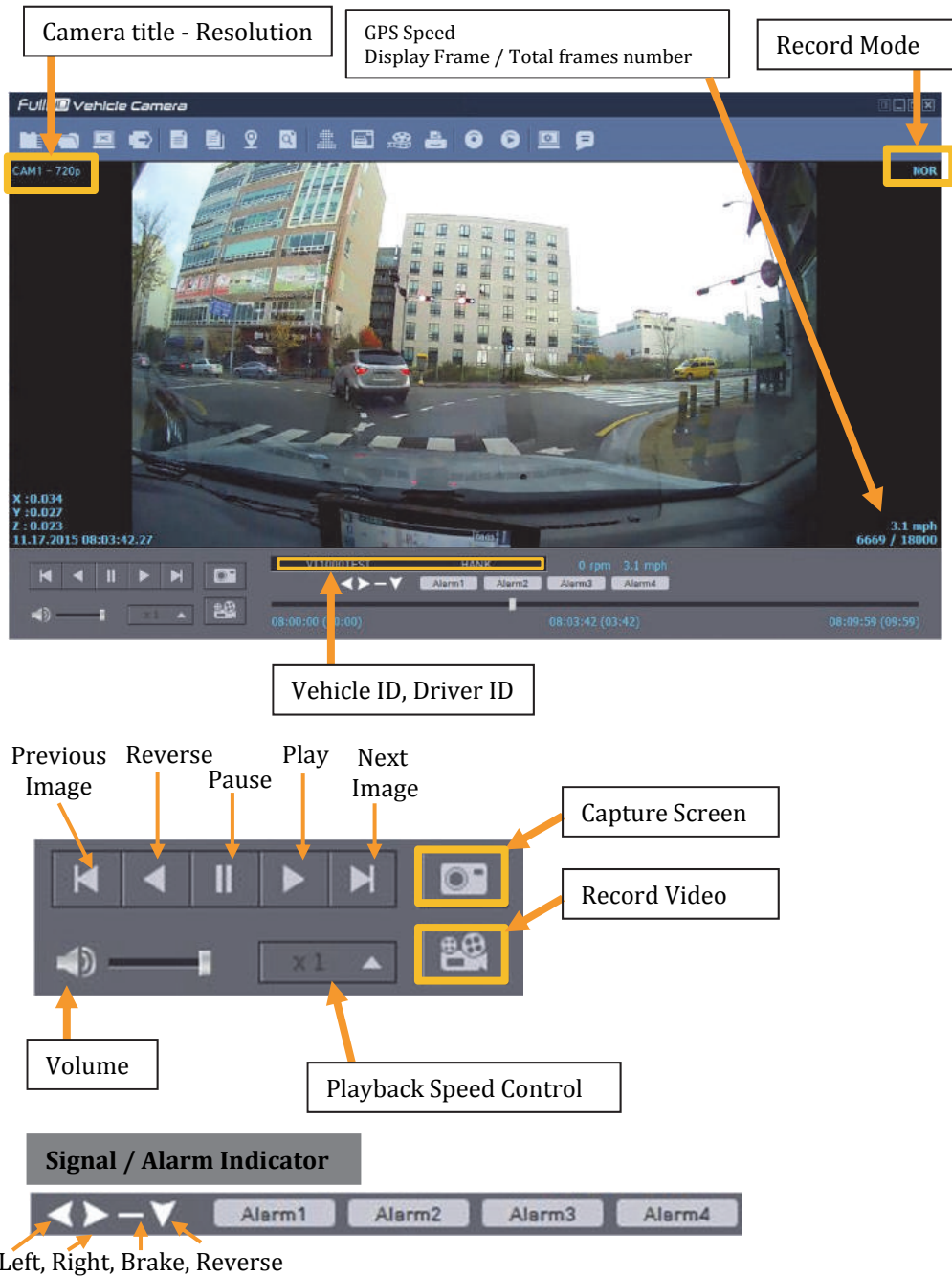


“Eject SD Card” icon

When finished, click “Eject SD Card” icon and remove the SD card from your PC.

Or please use  “Safely Remove Hardware and Eject Media” button in your PC.

PLAYBACK

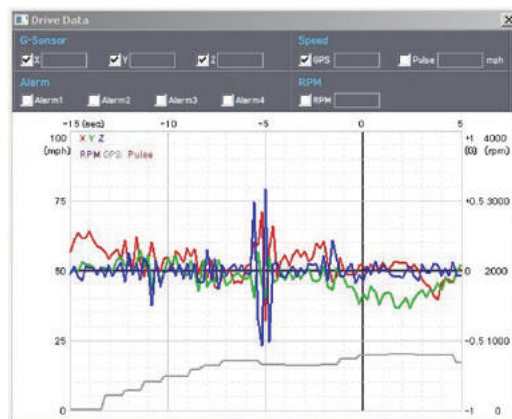


DRIVE DATA



“Drive Data” icon

The default setting only displays the G-sensor graphs but other information may be added by checking the boxes in the upper part of the screen.



G-Sensor: (X axis: red, Y axis: green, Z axis: blue, based on the positioning of the main unit) is shown with the data reference point zero-point calibrated and positive shocks as (+) and negative shocks as (-).

G sensor X value: Front & Back (like Quick brake or Quick Start)

G sensor Y value: Left & Right (like Quick Turn)

G sensor Z value: Up & Down (like prominence and depression)

Speed: GPS measured speed is displayed in grey.

The speed-pulse measured speed is not support.

RPM: The RPM is not support.

ALARM: The alarms are displayed on the bottom of the screen with the grey bar meaning the trigger is activated.

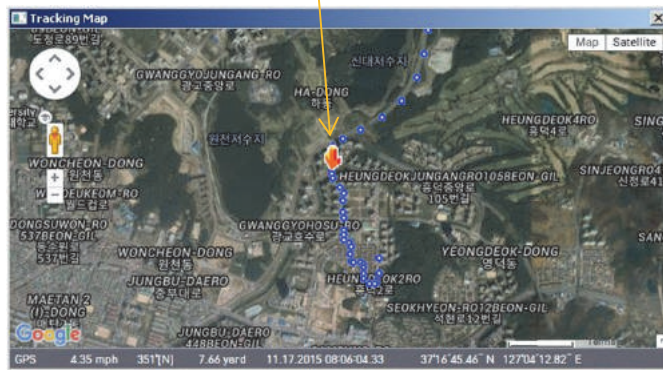
TRACKING MAP



“Tracking Map” icon

The route taken will be displayed on the Google map.

The playback position will be shown on the map with the orange arrow.



The blue markings show the route taken.

To see the route and position on the Google map, the GPS data should be recorded with video.

To see the map, the PC should be connected to the internet.

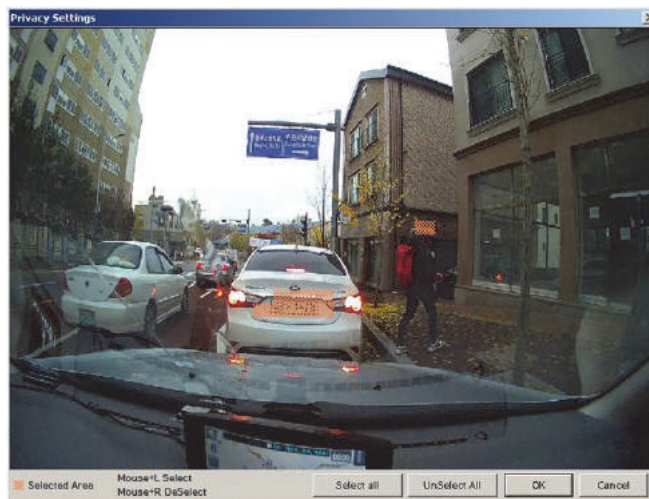


PRIVACY SETTINGS



“Privacy Settings” icon

Set the mosaic area on the video for privacy protection.



When backing up the data as a JPG or AVI format and playing in the Viewer software, you are able to make a mosaic processing on the area you have set.

To do this, put the pause the video and click the ‘Privacy settings’ button. The privacy setting screen will pop up.

Blur out the area you wish to protect by left-clicking on the sections. You can select multiple areas. You can also unselect, selected areas by right-clicking the blurred areas.

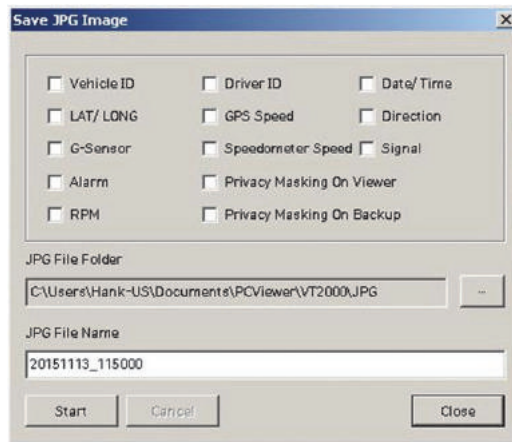
To select all or clear all, click on the ‘Select all’ or ‘UnSelect All’ buttons on the bottom, respectively.

SAVE JPEG AND AVI FILE

Pause the playback and click “Save JPG” icon to make JPG images.



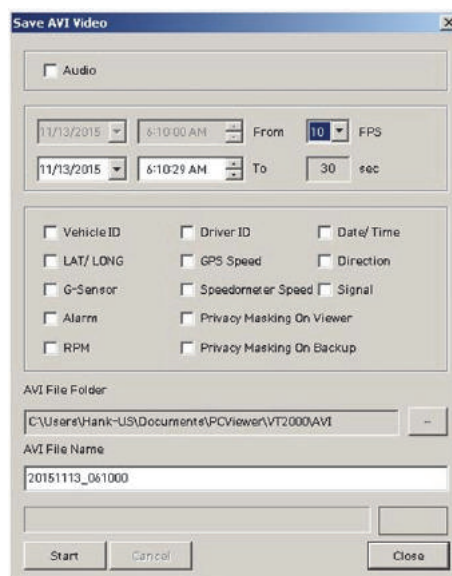
“Save JPG” icon



Pause the playback and click “Save AVI” icon to make an AVI file.



“Save AVI” icon

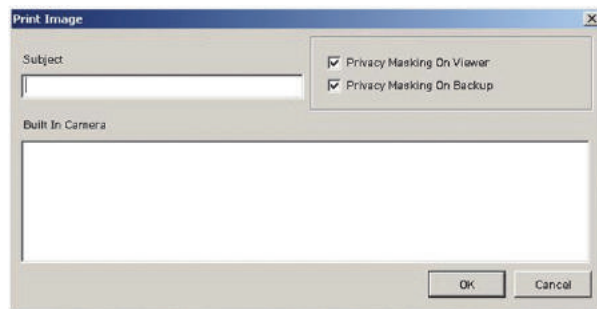


PRINT IMAGE

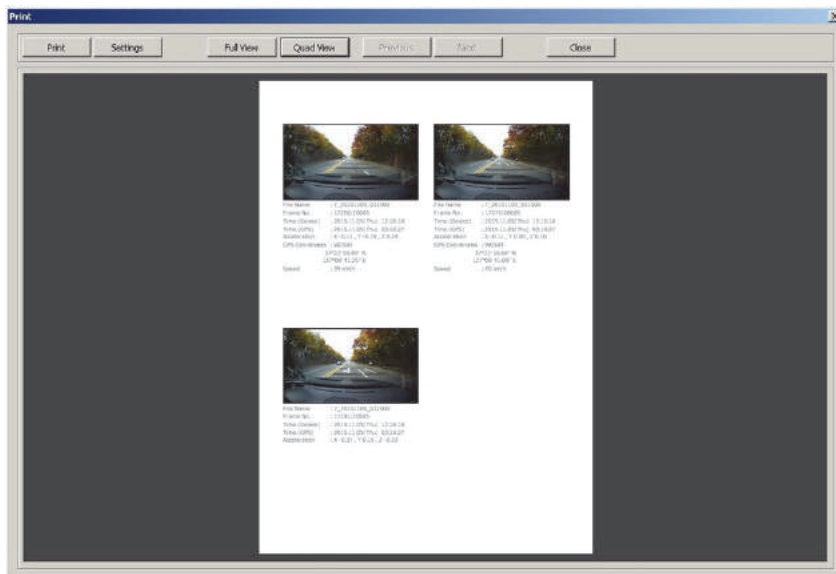
Pause the playback and click “Print Image” icon.



“Print Image” icon



Type Subject and Memo



Alter the printer settings to change paper size/orientation etc.

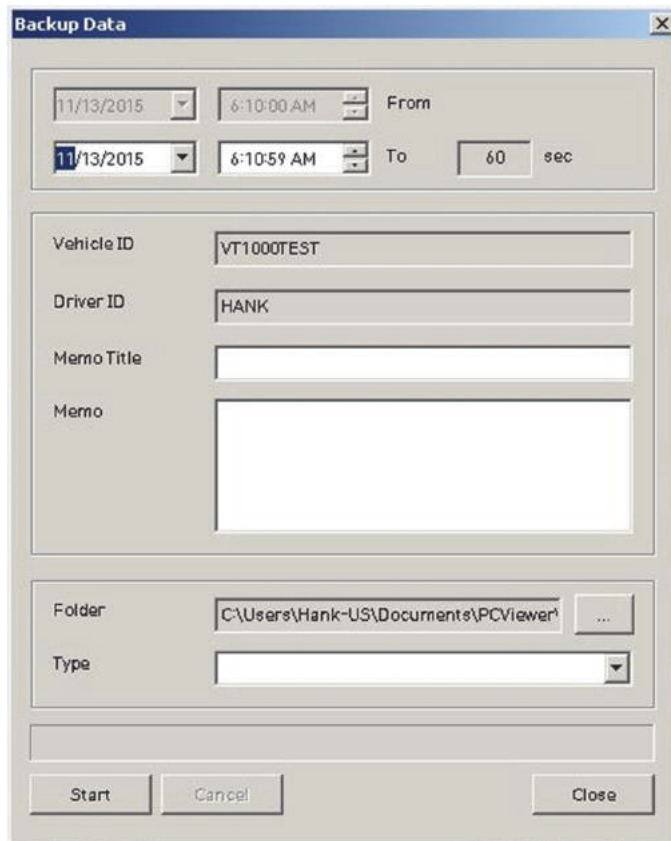
BACKING UP FILES

Back up the recorded data on your PC.

There is an option to store data by type to easy management of data.



“Backup Data” icon



The screenshot shows a 'Backup Data' dialog box with the following fields and controls:

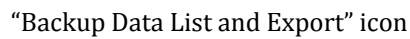
- From:** 11/13/2015 6:10:00 AM
- To:** 11/13/2015 6:10:59 AM
- Vehicle ID:** VT1000TEST
- Driver ID:** HANK
- Memo Title:** (empty text box)
- Memo:** (empty text area)
- Folder:** C:\Users\Hank-US\Documents\PCViewer\
- Type:** (empty dropdown menu)
- Buttons:** Start, Cancel, Close

The start time is when the video was paused and cannot be changed once you start this process.

Set the time you wish to backup and input Title and Memo.

And input Type and then click [Start].

The maximum amount of time you can back up is one hour.



SPECIFICATION

Image sensor	1/3" 3 Megapixel CMOS Sensor
DSP	Standard DSP
Angle of View	170° (H : 139.5°, V : 71.5° ±5%)
Band support	WCDMA Band1(2,100MHz)/ Band8 (900MHz)
Max Data Rate	UL:5.76Mbps, DL : 7.2Mbps
Video resolution	1080p HD (1920x1080) 720P (1280x720), VGA (640x480)
Recording Speed	Up to 30 fps
Recording Mode	Continuous , Event, Dual Mode
Memory	Supports Cards of up to 32GB (Class 10)
GPS/GLONASS	Internal GPS /GLONASS
G-Sensor	Internal 3-axis G-sensor
Gyro	3Axis(X,Y,Z), output rate:100 Hz,
RTC	Internal battery
Speaker	Recording start, error
Audio	Internal Microphone
Alarm In/Out	2 x Alarm In, 1 x Alarm Out
LED	Record,(Blue LED) Communication(Red LED)
Supper Capacitor	Enable recording of last file and shut down
PC software	Supplied
Power input	12V to 24V DC permeant wiring kit Input Voltage: DC 5V, 3A
Delayed Power Shutdown	Supports Delayed Power Shutdown
Power consumption	15W
Size / Weight	91mm X 56mm X 56mm (w/o Bracket) , 150g
Operation Temp.	-10℃~55℃

APPENDIX Recording time table

RECORDING TIME TABLE

Resolution	Quality	FPS	32GB	Resolution	Quality	FPS	32GB
1080p HD (1920x1080)	Standard	15	24 hours	720p (1280x720)	Standard	30	23 hours
		10	30 hours			15	38 hours
		5	43 hours			10	49 hours
		1	64 hours			5	68 hours
	High	15	20 hours			4	74 hours
		10	26 hours			3	81 hours
		5	36 hours			2	89 hours
		1	55 hours			1	99 hours
	Super	15	17 hours		High	30	17 hours
		10	22 hours			15	29 hours
		5	31 hours			10	37 hours
		1	47 hours			5	53 hours
VGA (640x480)	Standard	30	61 hours			4	57 hours
		15	98 hours			3	63 hours
		10	121 hours			2	70 hours
		5	161 hours			1	78 hours
		1	217 hours		Super	30	14 hours
	High	30	43 hours			15	24 hours
		15	70 hours			10	30 hours
		10	88 hours			5	43 hours
		5	120 hours			4	47 hours
		1	167 hours			3	51 hours
	Super	30	33 hours			2	57 hours
		15	55 hours			1	64 hours
		10	69 hours				
		5	95 hours				
		1	136 hours				

This table is a guideline only.

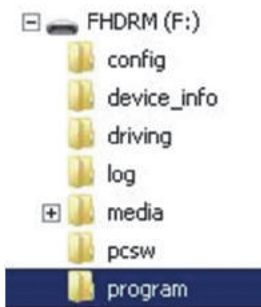
Actual results may vary depending on a variety of factors on the road.

APPENDIX (Upgrade)

NOTE: To get the upgrade firmware, please contact your local distributor.

1. Prepare Firmware

Make a folder called [program] on the SD root folder as shown below,



Copy “XXXXXX_x.x.x.img” file to the SD card [program] folder.

2. Upgrade VT2000

Insert the prepared SD card to VT2000 unit and turn on the power.

The Blue & Red LED will blink while the unit is upgrading. It will also ‘beep’ continuously. Upgrading the unit usually takes about 30 seconds.

**Warning: Do not turn off the power during upgrading.
If the upgrade fails, the VT2000 unit should be returned
to your local distributor.**

Once the upgrading is finished, the unit will automatically turn off and on the power.

Technical Support & Warranty

TECHNICAL SUPPORT

For Technical Support, please contact your local distributor.

LIMITED WARRANTY

This product is supplied with 1 year warranty. The Warranty excludes products That have been misused, (including accidental damage) and damage caused by normal wear and tear. In the unlikely event that you encounter a problem with this product, it should be returned to the place of purchase.



<http://www.visiontrack.com>