



VMC4 Software Guide

LTE CAT4 ENABLED VEHICLE RECORDER



LTE Cat 4
Max 150Mbps (DL)
Max 50Mbps (UL)



Max 42Mbps (DL)
Max 5.76Mbps (UL)



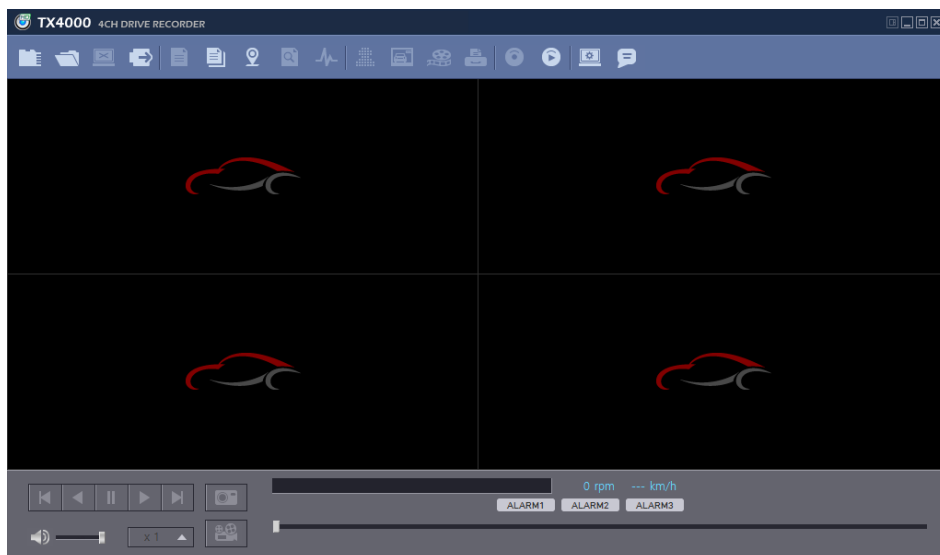
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PC Viewer Software



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	Install : 55MB or Higher
Free space	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.

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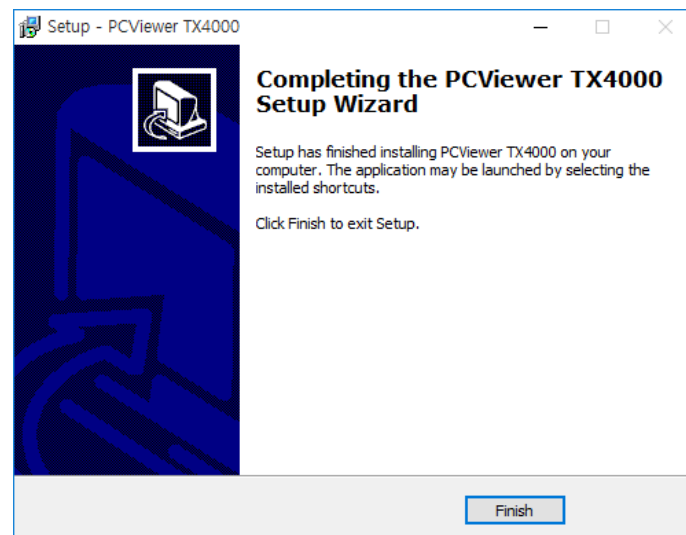
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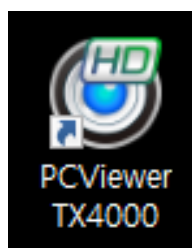
Software Installation

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 TX4000LE" 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.

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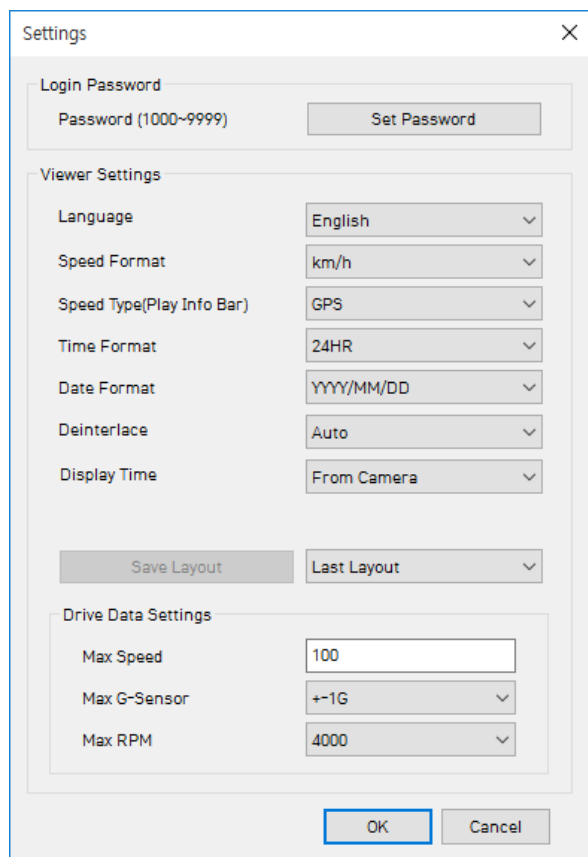
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PC Viewer Software Settings



Viewing settings

This setting is for the PC Viewer Software itself. To set the Recorder, refer to page 17.



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.

Display time: Select time to see. Recorded time by TX4000LE or your PC local time

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.

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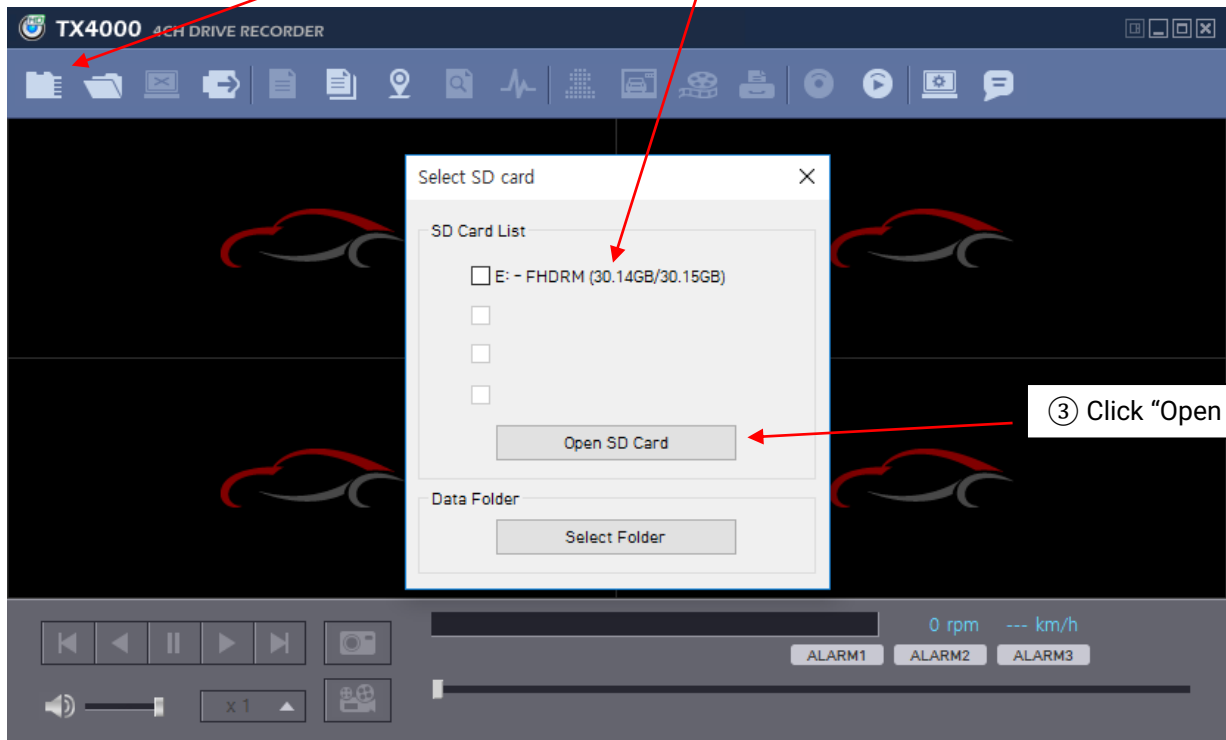
Open the SD Card

Insert the SD card into your PC



① Click "Select SD Card"

② Select the SD card drive and click "OK"



③ Click "Open SD"

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.



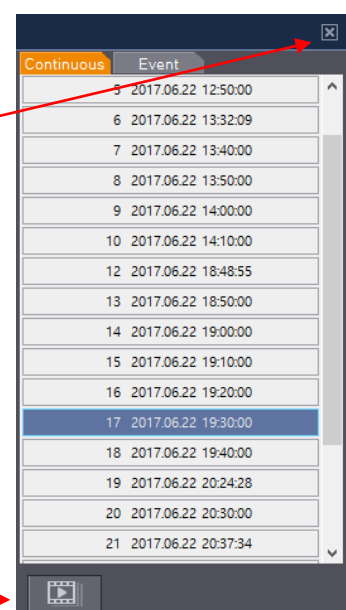
"Select SD Card" icon

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



"Close files" icon

Continuous Play next file.



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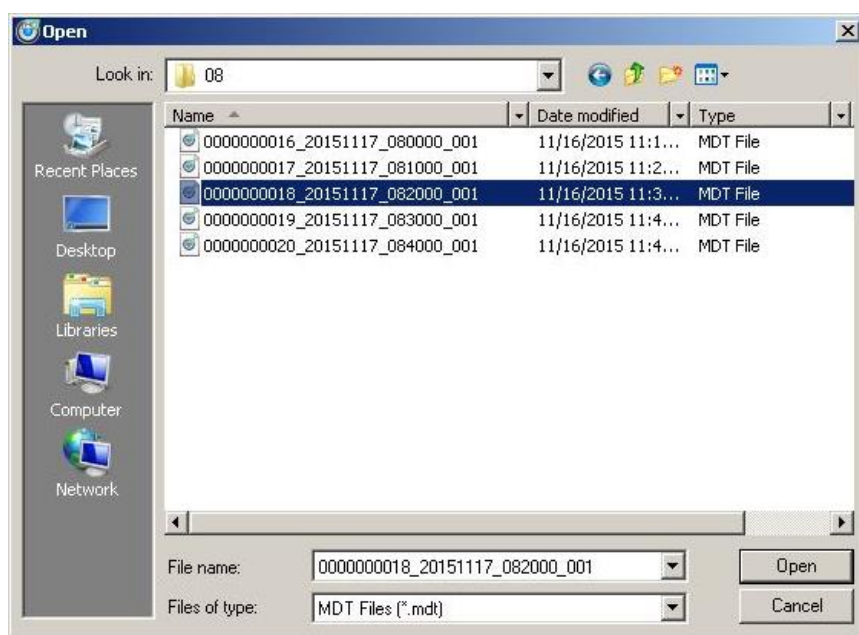
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Open Files

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

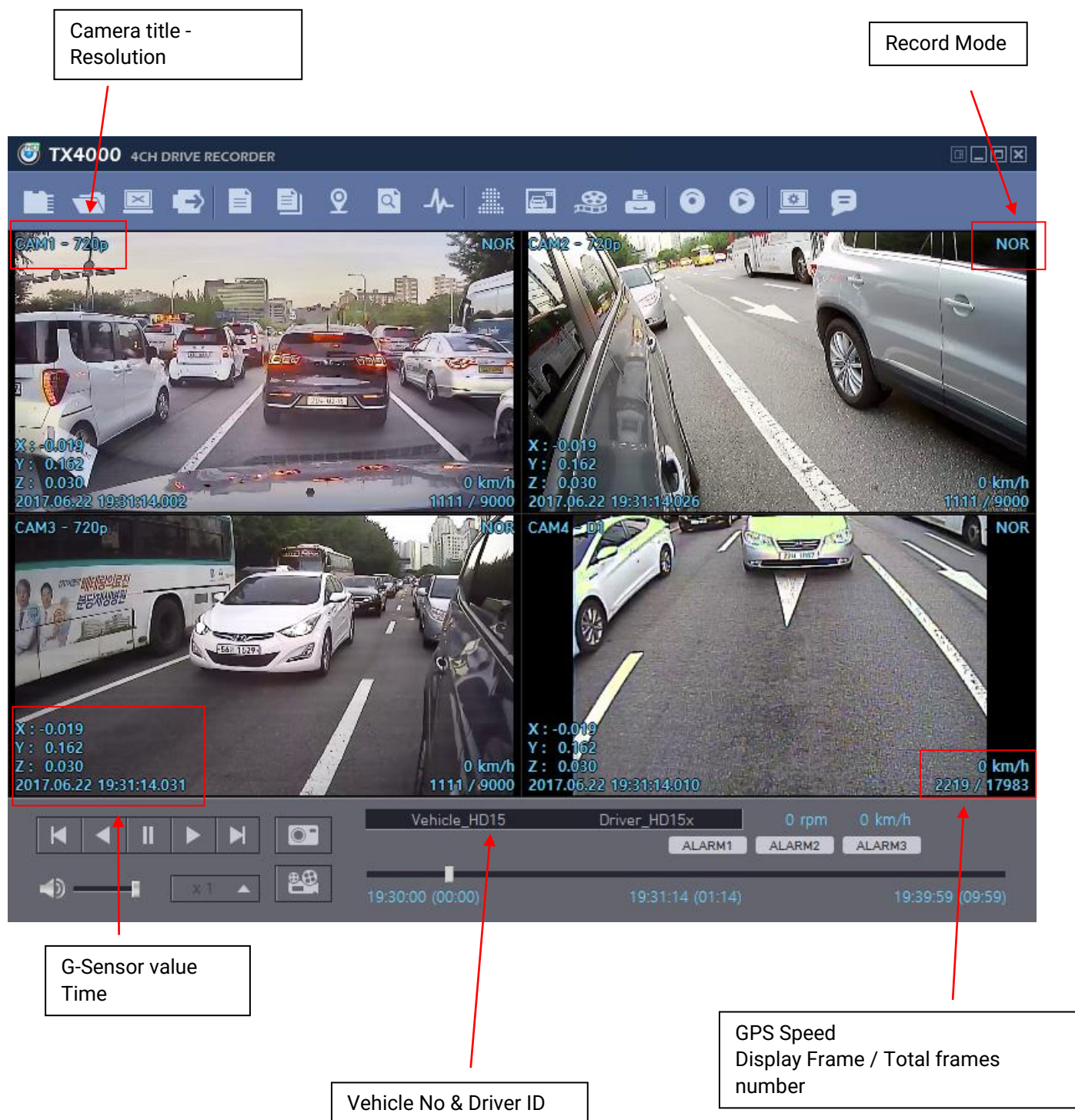
When finished, click “Eject SD Card” icon and remove the SD card from your PC.

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

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Playback



The screenshot displays the TX4000 4CH DRIVE RECORDER playback interface. The interface is divided into four camera viewports (CAM1, CAM2, CAM3, CAM4) and a bottom control bar. Annotations with red arrows point to specific features:

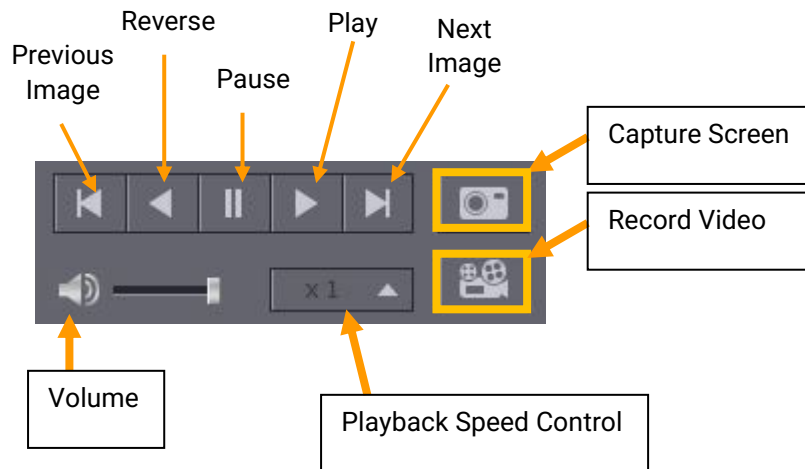
- Camera title - Resolution:** Points to the text "CAM1 - 720p" in the top-left viewport.
- Record Mode:** Points to the "NOR" status indicator in the top-right viewport.
- G-Sensor value:** Points to the G-sensor data (X: -0.019, Y: 0.162, Z: 0.030) in the bottom-left viewport.
- Time:** Points to the timestamp "2017.06.22 19:31:14.002" in the bottom-left viewport.
- Vehicle No & Driver ID:** Points to the "Vehicle_HD15" and "Driver_HD15x" labels in the bottom control bar.
- GPS Speed:** Points to the "0 km/h" speed indicator in the bottom control bar.
- Display Frame / Total frames number:** Points to the "2219 / 17983" frame count indicator in the bottom-right viewport.

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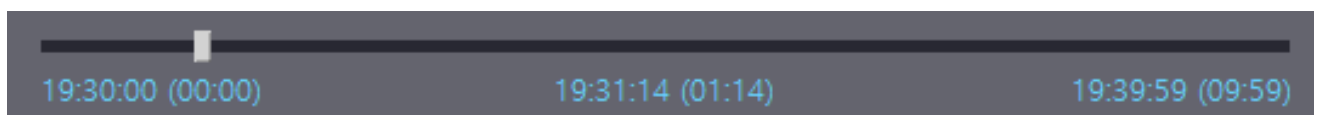
Playback



Alarm Indicator



Playback control bar



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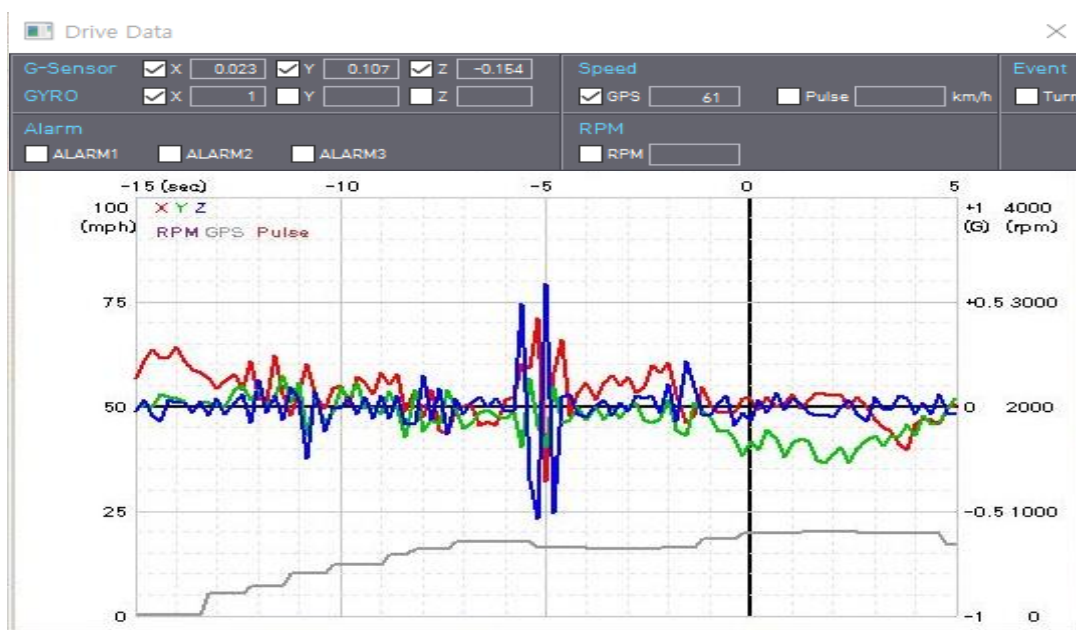
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Drive Data



“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)

GYRO: display the gyro value

Speed: GPS measured speed is displayed in grey. .

RPM: The RPM is displayed in purple.

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

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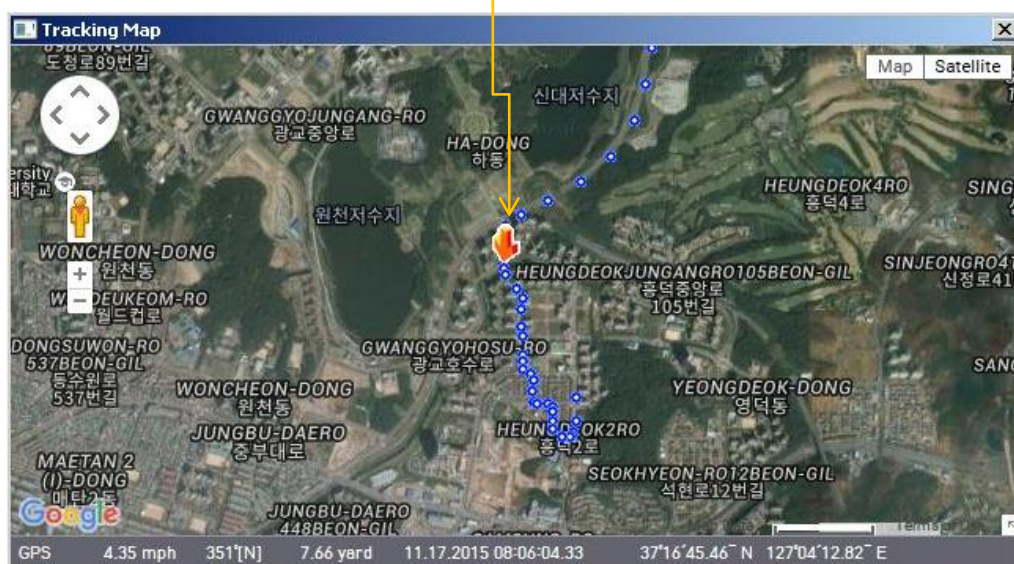
Tracking Map



“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.

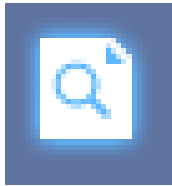
To see the route and position on the Google map, the GPS data should be recorded with video.

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

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Event Search



“Event Search” icon

The “Event Search” help to find a specific data quickly.

Event Search

Search Range

2017-06-22

오후 12:32:55

~

2017-07-11

오후 4:13:25

G-Sensor

☒ Turn
 ☒ Accel
 ☒ Brake
 ☒ Shock

Record

☐ Panic Button
 ☐ Parking Mode

Speed

50

km/h

☒ GPS
 ☐ Speedometer

Alarm

☐ ALARM1
 ☐ ALARM2
 ☐ ALARM3

☐ Sudden Accel/Stop

+-0.4G

No.	Date/ Time	G-Sensor	Panic Button	Alarm	Speed	Sudden Accel/Stop	
13	2017.06.22 13:59:55				53/0	0.0000	C
14	2017.06.22 14:00:05				52/0	0.0000	C
15	2017.06.22 14:03:42				50/0	0.0000	C
16	2017.06.22 14:04:02				50/0	0.0000	C
17	2017.06.22 14:04:09	Accel,Shock			66/0	0.0000	C
18	2017.06.22 14:09:52				50/0	0.0000	C
19	2017.06.22 14:12:10				50/0	0.0000	C
20	2017.06.22 18:53:14				50/0	0.0000	C
21	2017.06.22 18:53:21				50/0	0.0000	C
22	2017.06.22 18:57:11				52/0	0.0000	C
23	2017.06.22 19:06:00				50/0	0.0000	C
24	2017.06.22 19:09:20				52/0	0.0000	C
25	2017.06.22 19:12:11				51/0	0.0000	C
26	2017.06.22 19:13:33				50/0	0.0000	C

Search

Go to Video

Close

Select “Search Range” and select “Search Conditions”

And then click Search button.

Choose an event from the searched list and click “Go to Video” to see the video.

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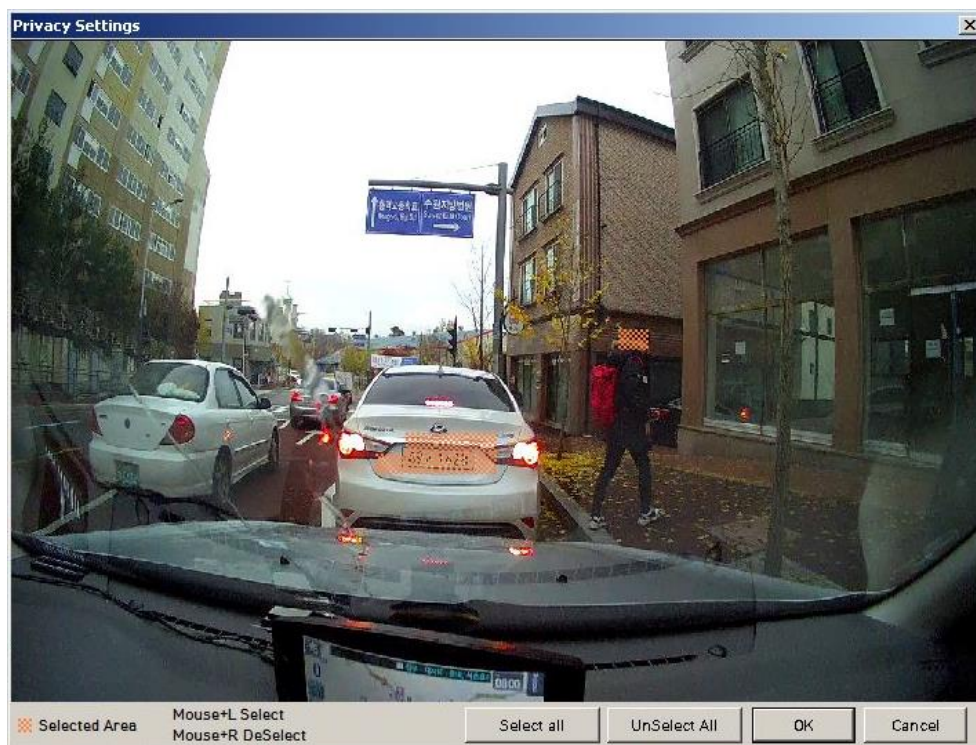
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Privacy Settings



“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.

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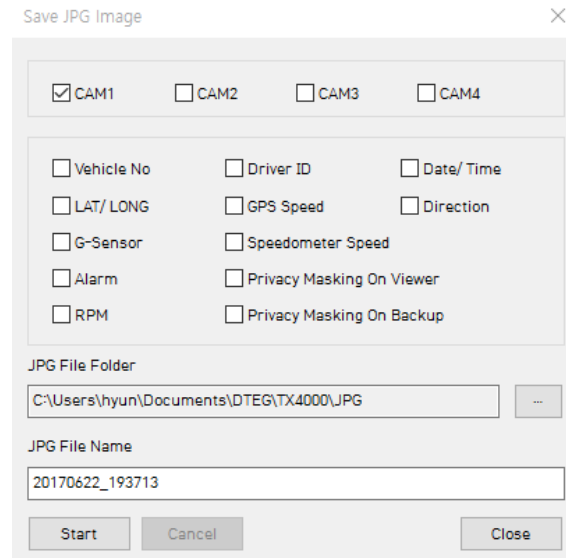
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Save JPEG and AVI File

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



“Save JPG” icon



Save JPG Image

☒ CAM1 ☐ CAM2 ☐ CAM3 ☐ CAM4

☐ Vehicle No ☐ Driver ID ☐ Date/ Time
☐ LAT/ LONG ☐ GPS Speed ☐ Direction
☐ G-Sensor ☐ Speedometer Speed
☐ Alarm ☐ Privacy Masking On Viewer
☐ RPM ☐ Privacy Masking On Backup

JPG File Folder
C:\Users\hyun\Documents\DTEG\TX4000\JPG

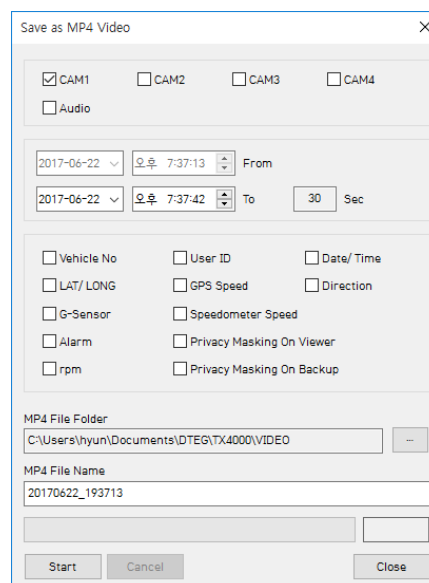
JPG File Name
20170622_193713

Start Cancel Close

Pause the playback and click “Save MP4 Video” icon to make a MP4 file.



“Save MP4 Video” icon



Save as MP4 Video

☒ CAM1 ☐ CAM2 ☐ CAM3 ☐ CAM4
☐ Audio

2017-06-22 오후 7:37:13 From
2017-06-22 오후 7:37:42 To 30 Sec

☐ Vehicle No ☐ User ID ☐ Date/ Time
☐ LAT/ LONG ☐ GPS Speed ☐ Direction
☐ G-Sensor ☐ Speedometer Speed
☐ Alarm ☐ Privacy Masking On Viewer
☐ rpm ☐ Privacy Masking On Backup

MP4 File Folder
C:\Users\hyun\Documents\DTEG\TX4000\VIDEO

MP4 File Name
20170622_193713

Start Cancel Close

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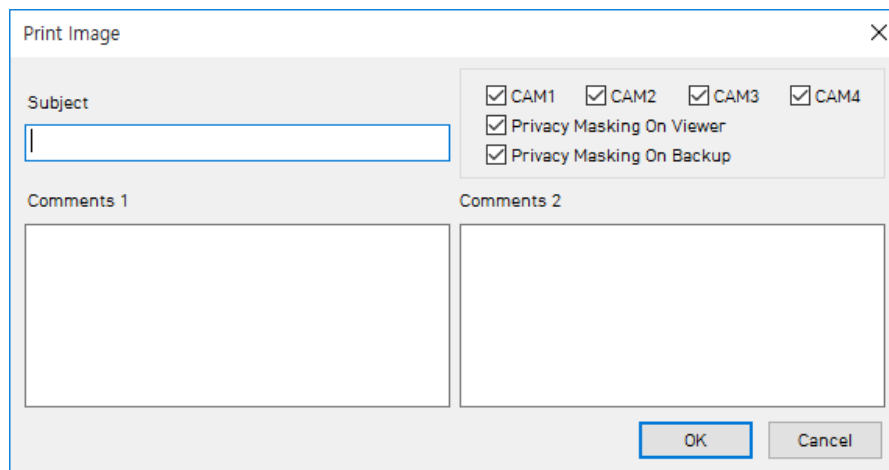
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Print Image

Pause the playback and click “Print Image” icon.



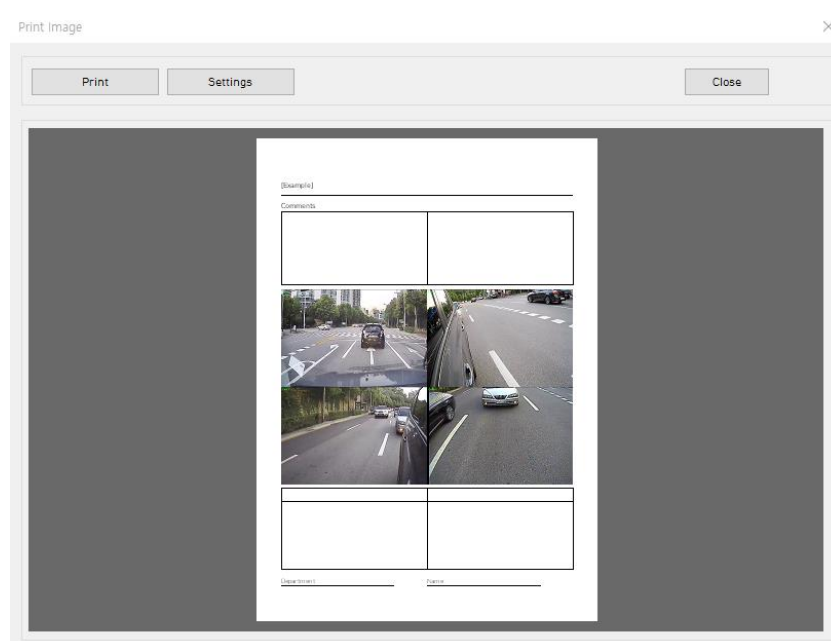
“Print Image” icon



The 'Print Image' dialog box contains the following elements:

- Subject:** A text input field.
- Comments 1:** A large text area for the first comment.
- Comments 2:** A large text area for the second comment.
- Checkboxes:**
 - ☒ CAM1
 - ☒ CAM2
 - ☒ CAM3
 - ☒ CAM4
 - ☒ Privacy Masking On Viewer
 - ☒ Privacy Masking On Backup
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

Type Subject and Comments1 and Comments 2



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

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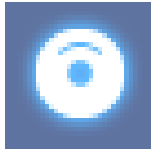
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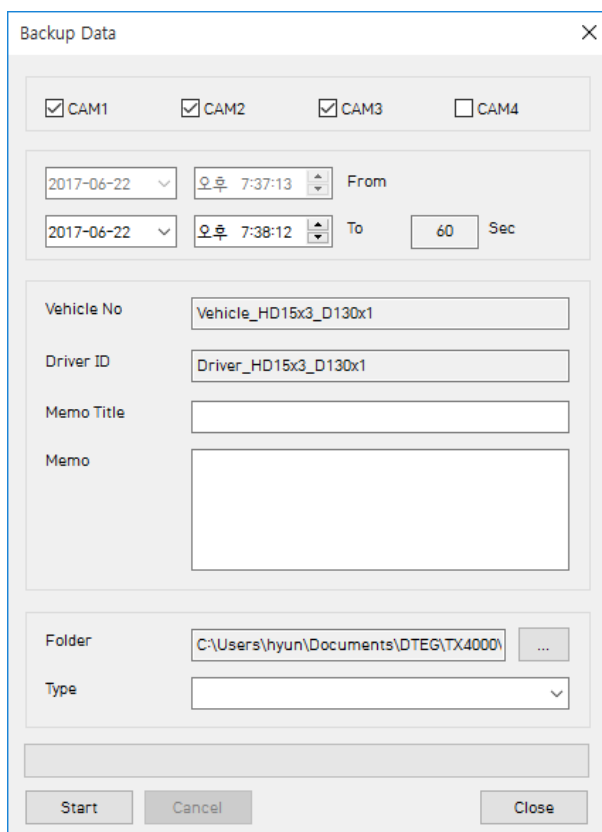
Backing Up Files

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

A screenshot of the 'Backup Data' dialog box. It features a title bar with a close button. The main area contains several sections: a row of checkboxes for CAM1, CAM2, CAM3, and CAM4; a 'From' section with date and time pickers; a 'To' section with date, time, and duration pickers; a 'Vehicle No' text field; a 'Driver ID' text field; a 'Memo Title' text field; a 'Memo' text area; a 'Folder' text field with a browse button; and a 'Type' dropdown menu. At the bottom, there are 'Start', 'Cancel', and 'Close' buttons.

Backup Data

☒ CAM1 ☒ CAM2 ☒ CAM3 ☐ CAM4

2017-06-22 오후 7:37:13 From
2017-06-22 오후 7:38:12 To 60 Sec

Vehicle No Vehicle_HD15x3_D130x1
Driver ID Driver_HD15x3_D130x1
Memo Title
Memo

Folder C:\Users\hyun\Documents\DTEG\TX4000\ ...
Type

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.

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