TX4000 3G ENABLED VEHICLE RECORDER USER GUIDE



D-TEG Security Co., Ltd.

- Thank you for purchasing the TX4000 Vehicle Recorder.
 Model: TX4000GE (with 3G module for WCDMA Band1(2,100MHz)/ Band8 (900MHz))
 - Model: TX4000B (without 3G module)
- 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.

INDEX

SAFETY ADVICE	3
GPS RECEPTION	4
CONTENTS	5
INTRODUCTION	6
FUNCTIONS	8
LEDS &BUZZER SPECIFICATION	11
INSTALLATION	12
Operation – On Screen	13
Axis Adjustments by Device Positions	14
CONFIGURATION TOOL USER GUIDE	17
SOFTWARE INSTALLATION	18
INITIALIZE SD CARD	19
DEVICE SETTINGS	20
RECORD SETTINGS	21
EVENT SETTINGS	23
SYSTEM SETTINGS	25
NETWORK SETTINGS	26
DMS5 SETTINGS	19
SOFTWARE USER GUIDE	28
PC VIEWER SOFTWARE SETTINGS	30
OPEN THE SD CARD	31
OPEN FILES PLAYBACK	32 33
DRIVE DATA	35
TRACKING MAP	36
EVENT SEARCH	37
PRIVACY SETTINGS	38
SAVE JPEG AND MP4 FILE	39
PRINT IMAGE	40
BACKING UP FILES	41
BACKUP DATA LIST AND EXPORT	42
SPECIFICATION	43
APPENDIX RECORDING TIME TABLE	44
APPENDIX UPGRADE	45
TECHNICAL SUPPORT AND WARRANTY	46

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.



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 $-10 \sim 50$ °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



TX4000 Vehicle Recorder



Power Cable



Remote Controller (with double sided tape)



Audio/Video out cable



GPS Antenna module



Camera input cable

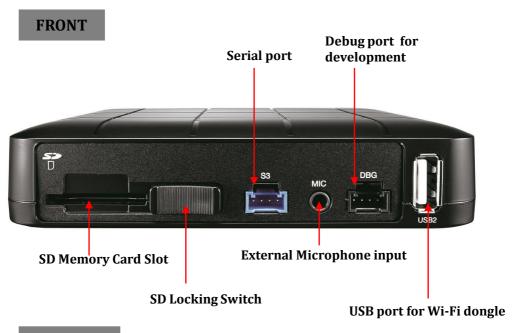


3G Antenna (only for TX4000GE)

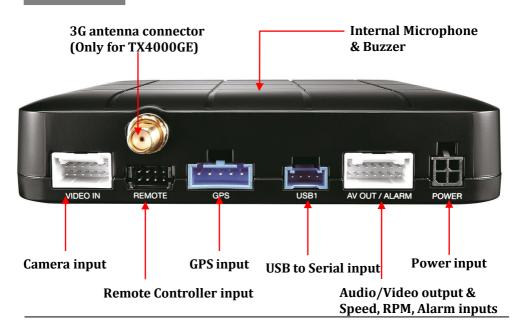


Wire Splice clip and Velcro Sticker

INTRODUCTION



REAR



INTRODUCTION

Remote Controller



POWER CABLE

Black (Ground)
Red (Power Battery +)
White (Power ACC +)

Alarm in/out Cable

White (Alarm In1, Voltage on/off (3~70V))

Purple (Alarm In2, Voltage on/off (3~70V))

Green (Alarm In3, Voltage on/off (3~70V))

Gray (RPM)

Blue (Speed)

Orange (Alarm out1), Low(0V) to High (5V)

Brown (Alarm out2), Low(0V) to High (5V)

3 x Black (Ground)

FUNCTIONS

Automatic Booting

Make sure the main unit and all component are properly connected. Once the TX4000 has been wired to your car power source the TX4000 will be boot up, this will take around 30 seconds for the unit to be ready to record.

NOTE: The unit will not start recording immediately after power on. It takes around 30 seconds for the built-in power backup system to charge. Thereafter, the SD card 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 TX4000 configuration Tool. To do this, please see the 'Settings' section on page 21.

Event Record (When Record mode set as "Event")

The unit will record when triggered by an impact(G-Sensor) or a push of the 'PANIC' button or Over speed or Alarm In1 \sim 3. 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

Do not Record

The DRV (Drive Data) file will be recorded during driving at "Do Not Record" mode. And the unit can send limited API like live track to Server.

NOTE: 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 TX4000.

- 1. Set G-Sensor Axis using the configuration tool.
- 2. "selfadj.ini" should be in the config folder of the SD card.
- 3. Install the unit and park the vehicle on a flat surface.
- 4. Turn on the unit and wait until it start record.
- 5. Press and hold the "M1" button more than 2 seconds.
- 6. You will hear "beep" when you press "M1" button and then you will hear another "beep" after 2seconds. Then release "M1" button.
- 7. Then calibration will be done within 2 seconds.

Built-in power backup (Super Capacitor)

When power to the unit is interrupted, TX4000 creates the last file using the internal Super Capacitor.

Time and Date

Set your time zone using the configuration tool then TX4000 get's time from the GPS satellite's

SD Memory Card Format

Please format [initialize] the SD card using the "Configuration Tool TX4000" 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.

FUNCTIONS

Parking Mode Recording

With parking mode activated and on normal recording mode, the TX4000 will change to parking mode when the vehicle is not moving for more than 5 minutes, recording at 1 FPS.

Live Screening

With an external monitor attached, the TX4000 offers the option to screen video live.

Delayed Power Shutdown

Control the duration of time using the configuration tool. TX4000 stays powered and recording/networking after shutdown.

Precautions for SD cards

To optimize use and prolong life of your SD cards please follow the below instructions.

- 1. Use only compatibly tested SD cards.
- 2. Only use dry and clean SD cards.
- 3. Format SD cards at least once every month or when the SD card seems corrupted. This will wipe all data, images, and file names on the card reducing recording errors.
- 4. Insert or remove SD cards only when the device is completely powered off. Wait until the blue LED is completed off before removing SD card.
- 5. SD cards used for continuously recording equipment such as a drive record er, typically last only $6\sim12$ months. Exchange SD cards periodically

LEDS & BUZZER SPECIFICATION

		LED			Buzzer	Voice	
Status/Step		Warning	Record	Network		[Remark] To hear the Voice, please	
		(Red)	(Blue)	(Green)		audio output cable	
			_ 0			to speaker.	
	Bootin	g step1 (0~20)	On	Off	Off		
	Booting	step2 (20~30)	On	On and Off	Off		
Start-up	Booting Finished (30, 1second)		On	On	On	[Beep] (1000Hz, 200msec)	「Beep」(1time)
Power off	Durir	ng Power off	Off	Simultaneous Flashing (Blink rate: fast)			
	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		Continuous recording		On			
	Dual record	Event recording		Flashing (Blink rate: fast)			
	No record	Not record		Off			
Network	3G Netwo	rk Device Ready			On		
HOLIVOIR	Communication				On		
	SD Init	ialize (Format)	Off	On and Off	Off and On		(Beep, 1time) continuously
	G-Sens	sor Calibration					「Beep→(after 2 seconds) Beep、Beep」
Function	FV	/ 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)
**aililig		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, Pa	anic Button, Alarm-In					rdingdong x2 _J (1time)
Trigger	0	Over Speed					rbeep, beep x2 _J (1time)

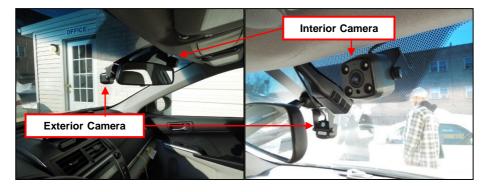
INSTALLATION

Park your vehicle on a flat level surface. Turn off the engine before installing the TX4000.

- 1) Find installation location for TX4000 like Glove box, under dash, trunk.
- 2) Use provided Velcro adhesive to secure TX4000 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.

3) Install the cameras(sold separately) with double side tape to the windshield or other flat surfaces as been below. Adjust camera view. Make sure the lens has an unobstructed view.



- 4) Install the remote controller onto dash within reach of the driver using provided double side tape.
- 5) Arrange the power cable neatly alongside of the windshield and door pillar trim. The TX4000 requires a continuous 12/24volt power source from the vehicle.



Connect the "Red cable (Battery+)" to a fuse (see picture below). It should be connected to a fuse that has power all the time from car battery. And the "White cable(ACC+)" 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.

Operation - On Screen Display

The following displays can only be seen when a monitor is connected.

The default display is 2*2 with all cameras shown, to change, press [M2] button to select which camera to view. Each press will change the camera on display with the last option being all camera views.





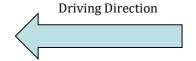






4Cameras(2x2) => Camera1 => Camera2 => Camera3 => Camera4

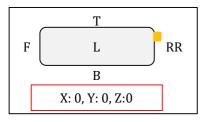
Axis Adjustments by Device Positions

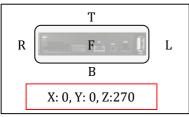


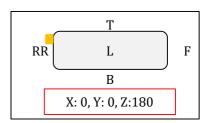


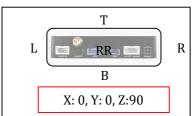
F: Front	RR: Rear	Т: Тор	
B: Bottom	R: Right-side	L: Left side	

1) When device is in an upright position

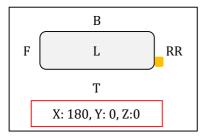


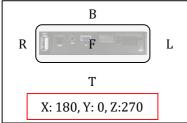


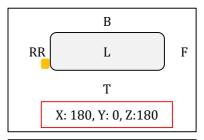


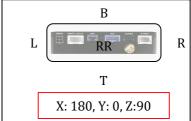


2) When device is in an upside down position



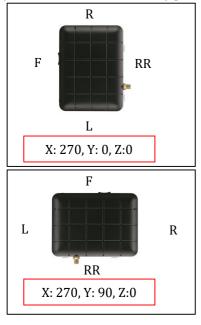


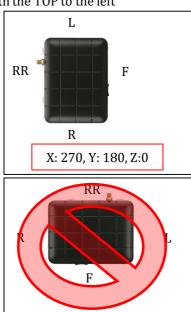




Axis Adjustments by Device Positions

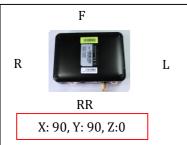
3) When device is in a sideway position with the TOP to the left





4) When device is in a sideway position with the TOP to the right



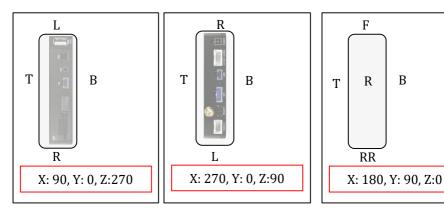




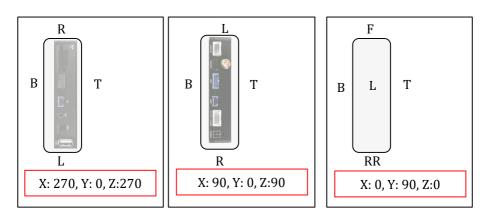


Axis Adjustments by Device Positions

5) When device is in a sideway position with the TOP facing front



6) When device is in a sideway position with the TOP facing rear



REMARK: Do no install the device with the Front facing down position.

CONFIGURATION TOOL USER GUIDE

Configuration Tool TX4000 Software



PC SYSTEM REQUIREMENT

Recommended PC specifications for Configuration Tool Software

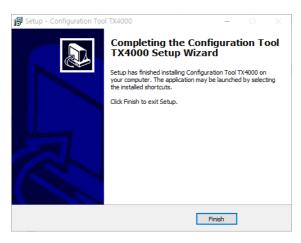
os	Windows Vista. Windows 7, Windows 8/8.1	
СРИ	Core 2 Duo 2.5GHz or Higher	
RAM	2GB or Higher	
Interface	SD Memory Card Reader	
HDD Free space	Install : 55MB or Higher Backup : 4GB or Higher	
Display	1024 x 768 pixel/True Color or higher	

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

SOFTWARE INSTALLATION

Please ask the Configuration Tool TX4000 Software to your distributor.

- 1. Double click [setup.exe]
- 2. Select the language
- 3. Select destination location
- 4. Select Start Menu Folder then follow the dialog box prompts.



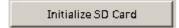
5. The "Configuration Tool TX4000" icon will be displayed on your desktop.



NOTE: To Un-install the Configuration Tool TX4000 Software

Make sure the program is not running and open the 'Control Panel' Select 'Remove Program' and remove the Configuration Tool TX4000 Software.

INITIALIZE SD CARD

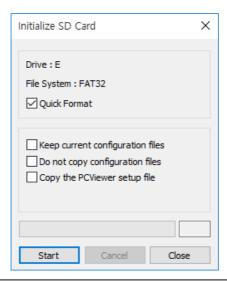


Click!

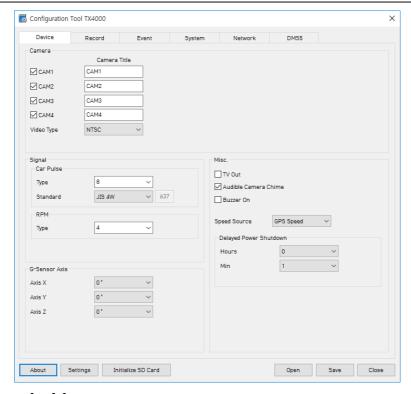
To initialize the SD card quickly, click on the above icon and you will be presented with the following screen to choose the SD card to initialize. Click 'OK' when selected.



On the following screen, check the 'Quick Format' button and uncheck the 'Keep current configuration files' and Click 'Start' to begin initialization.



DEVICE SETTINGS



Camera check box

Check all the cameras you wish to use.

Camera Title

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

Video Type: Set the video type "NTSC or PAL" **Car Pulse Type**: Select the vehicle's car pulse type.

Car Pulse Standard: Select the vehicle's car pulse standard.

RPM Type: Select the vehicle's RPM type.

G-Sensor Axis: Refer to page 14 in this manual and set Axis.

TV out: Check it to see live screen.

Audible Camera Chime: Turn the Chime on or off

Buzzer On: Turn the Buzzer on or off

Speed Source: Choose the speed source "GPS or Pulse" to use it on the unit.

Delayed Power Shutdown: Set delayed power shutdown time.

RECORD SETTINGS



Resolution

NTSC: D1 (720x480), HD (1280x720), FHD (1920x1080). PAL: D1 (720x576), HD (1280x720), FHD (1920x1080).

FTS (Frame Rate)

Adjust the frame rate from NTSC: 30fps, 15fps, 10fps, $5\sim1$ fps

PAL: 25fps, 12fps, 10fps, 5~1fps

Quality

Adjust the picture quality from Standard, High, Super

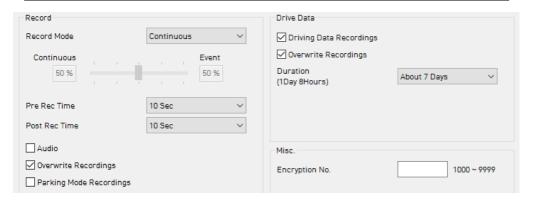
Record Frame Rate (FPS) Rules & Bitrates

- 1. FHD: 2Channels total max 30fps(NTSC) or max 25fps(PAL)
- 2. HD: 3Channels total max 60fps(NTSC) or max 50fps(PAL)
- 3. D1: 4Channels total max 120fps(NTSC) or max 100fps(PAL)
- 4. Channel 3 (Camera No.3): Support HD or D1 camera
- 5. Channel 4 (Camera No.4): only support D1 camera.
- 6. Total FPS calculation NTSC: (FHD total fps x 4) + (HD total fps x 2) + (D1 total fps) \leq 120fps PAL: (FHD total fps x 4) + (HD total fps x 2) + (D1 total fps) \leq 100fps

Maximum bitrates (Video Quality)

Resolution	FPS	Bitrates (bit/sec)			
Resolution		Super	High	Standard	
Full HD	30	6Mbps	5Mbps	4Mbps	
HD	30	3Mbps	2.5Mbps	2Mbps	
D1	30	2Mbps	1.5Mbps	1Mbps	

RECORD SETTINGS



Record Mode

- Continuous (Always recording when powered by DC 12/24V.)
- · Event (Automatically starts recording by G-sensor or Panic button or Alarm In.)
- Dual (The continuous record fps is 1fps and Event record will work according to the Fps setting.)
- · Do not record

Pre Rec Time / Post Rec Time

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

Audio: Check it for record audio

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.

Parking Mode Recordings

If your vehicle is parked for more than 5 minutes, recording FPS will be at 1fps. When the vehicle starts moving again, the recording FPS will return to its original setting.

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)'. Check Driving Data Recordings for this feature.

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

Encryption No. (Stream password)

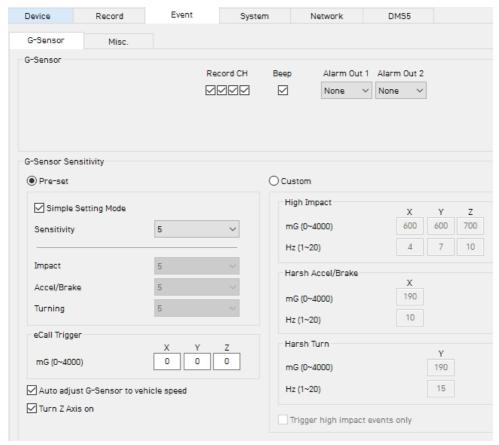
An Additional password can be set for the recorded data using a 4 digit password from 1000~9999. If a password is set, keep a record in a safe place, Without the password, you will not be able to view the recorded video.

EVENT SETTINGS

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.



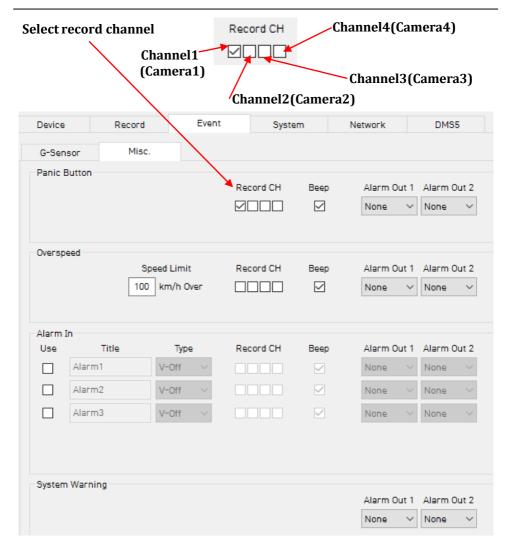
G-Sensor Sensitivity: The shock sensor sensitivity can be set to 'Simple setting Mode' or 'Custom'. Set to easy allows you to set the sensitivity to 9 (High), 5 (Medium) or 1 (Low).

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

Auto adjust G-Sensor to vehicle speed

Once it checked, TX4000 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.

EVENT SETTINGS

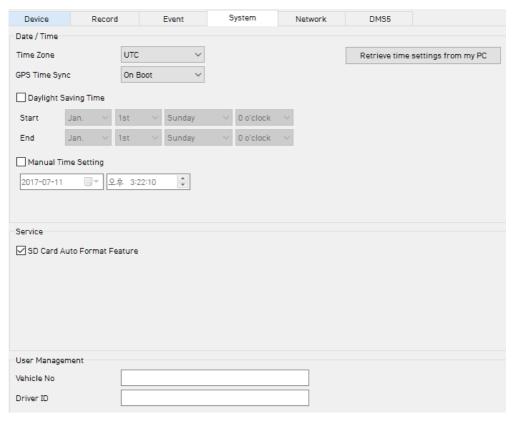


Over Speed: When the vehicle speed over the speed limit more than 5 seconds.

System Warning: SD card error, Video loss, Video Standard error

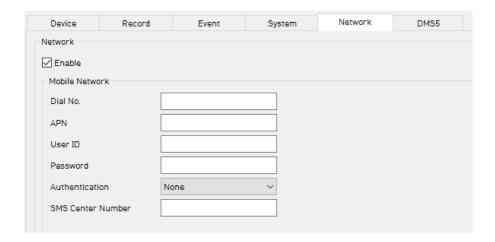
SYSTEM SETTINGS

This option allows you to adjust the Time Zone, GPS Time synchronization, set your Vehicle No and also the Driver ID.



SD Card Auto Format Feature: When the SD card has an error and cannot record, the card will be formatted and all data will be erased.

NETWORK SETTINGS

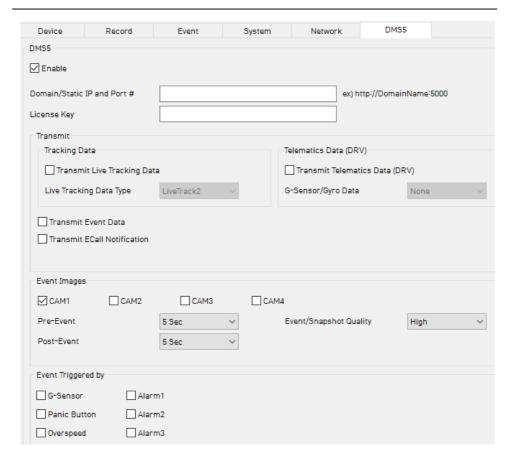


Check Enable to use 3G connection.

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

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

DMS5 SETTINGS



Set Domain/Static IP and Port number

Default License Key is "DASKEY_001"

And check the options

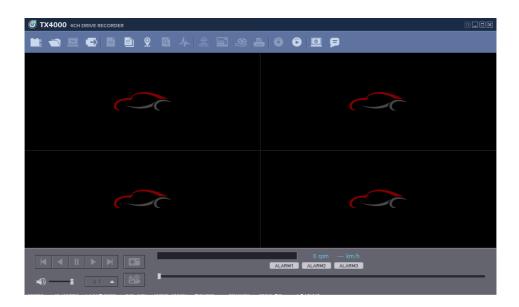
- Transmit Live Tracking Data
- Transmit Telematics Data (DRV)
- Transmit Event Data.

And then select events

Please contact your distributor to set DMS5 setting it's related with server.

SOFTWARE USER GUIDE

PC Viewer Software



PC SYSTEM REQUIREMENT

Recommended PC specifications for PC Viewer Software

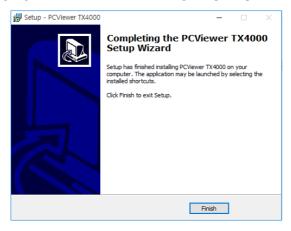
1. commended 1 coppositions for 1 control continues		
OS	Windows Vista. Windows 7, Windows 8/8.1	
СРИ	Core 2 Duo 2.5GHz or Higher	
RAM	2GB or Higher	
Interface	SD Memory Card Reader	
HDD Free space	Install : 55MB or Higher Backup : 4GB or Higher	
Display	1024 x 768 pixel/True Color or higher	

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 and 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 TX4000" 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.

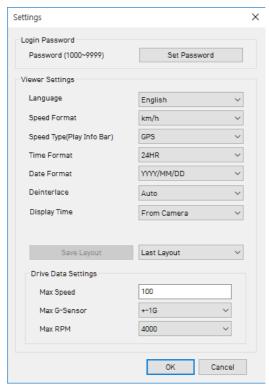
PC VIEWER SOFTWARE SETTINGS



Viewing settings

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

page 17.



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

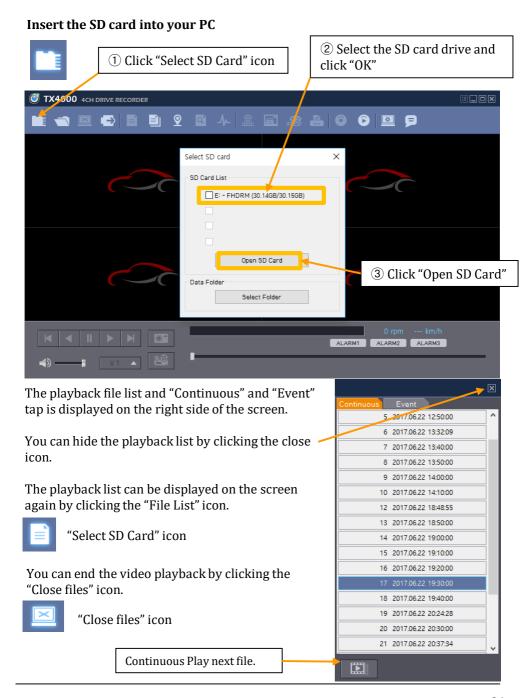
The 'speed' & 'date' formats will be set automatically according to the PC Windows setting. However it can be changed with this software setting menu.

Display time: Select time to see. Recorded time by TX4000 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.

OPEN THE SD CARD

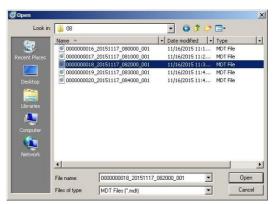


OPEN FILES

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.

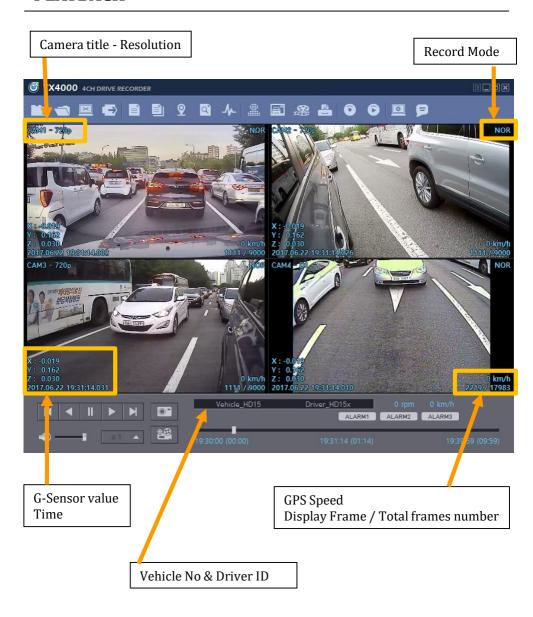


"Eject SD Card" icon

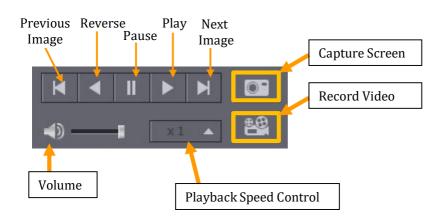
When finished, click "Eject SD Card" icon and remove the SD card from your PC.

Or please use 🐞 "Safely Remove Hardware and Eject Media" button in your PC.

PLAYBACK



PLAYBACK





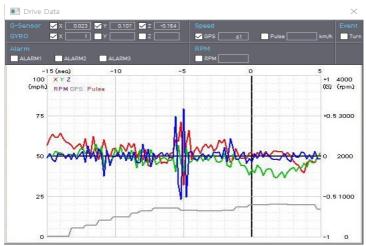


DRIVE DATA



"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)

GYRO: display the gyro value

 $\boldsymbol{Speed} : \mathsf{GPS}$ measured speed is displayed in grey. .

 $\ensuremath{\mathbf{RPM}}$: 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.

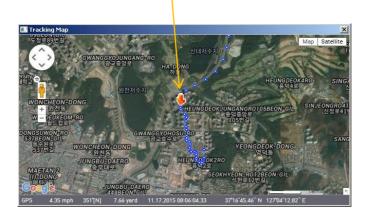
TRACKING MAP



"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.

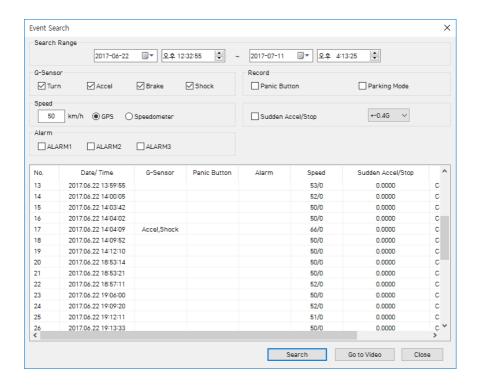
To see the map, the PC should be connected to the internet.

EVENT SEARCH



"Event Search" icon

The "Event Search" help to find a specific data quickly.



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.

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.

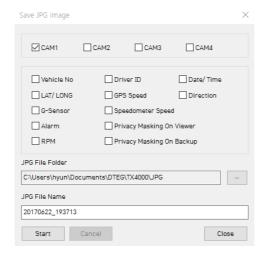
To select all or clear all, click on the 'Select all' or 'UnSelect All' buttons on the bottom, respectively.

SAVE JPEG AND MP4 FILE

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



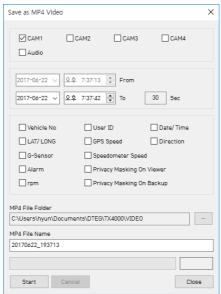
"Save JPG" icon



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



"Save MP4 Video" icon

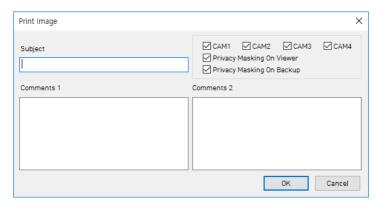


PRINT IMAGE

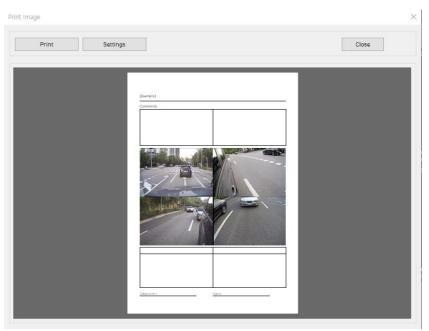
Pause the playback and click "Print Image" icon.



"Print Image" icon



Type Subject and Comments 1 and Comments 2



Alter the printer settings to change paper size/orientation etc. $\label{eq:change_paper}$

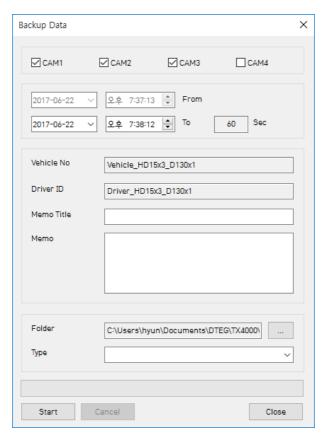
BACKING UP FILES

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

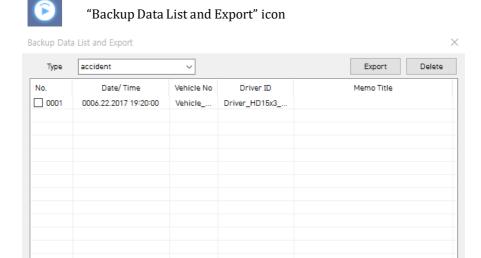
Set the time you wish to backup and input Title and Memo.

And input Type and then click [Start].

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

BACKUP DATA LIST AND EXPORT

You can use the data backup list to play data files easier that have been backed up.



Choose the folder where the backup files are at the bottom of the screen.

(It will automatically show the last folder that was accessed.)

Then, select the type by scrolling down the options.

C:\Users\hyun\Documents\DTEG\TX4000\BACKUP

Folder

The files are listed showing the "Date/Time, Vehicle No, Driver ID, Memo Title".

0K

Cancel

Check the box next to the file you wish to play back and click 'OK'.

SPECIFICATION

	•	
Video In	CH1, CH2: 5V 1080P or 720p AHD camera in CH3: 5V 720P AHD camera in CH4: 5V D1 camera in	
Audio In	1CH (Internal or External Microphone)	
AV Out	1 Video out, 1 Audio out	
Band support	WCDMA Band1(2,100MHz)/ Band8 (900MHz)	
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	
Memory	Support 32GB, 64GB(FAT32), 128GB(FAT32)	
GPS/GLONASS	External GPS /GLONASS	
G-Sensor	Internal 3-axis G-sensor	
Gyro	3Axis(X,Y,Z), output rate:100 Hz,	
RTC	Internal battery	
Alarm In/Out	3 x Alarm In, 2 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	
Power consumption	Max. 36W	
Size / Weight	120mm X 28mm X 90mm / 166g	
Operation Temp.	-10℃~55℃	

APPENDIX Recording time table

DRV f	ile size	Reserved sp	Space for Video / Audio (MB)				
hours	Size	ace for overwriting	16GB	32GB	64GB	128GB	256GB
24	106.8MB	300 MB	15,593	31,593	63,593	127,593	255,593
168	748 MB		14,952	30,952	62,952	126,952	254,952
240	1068 MB		14,632	30,632	62,632	126,632	254,632
336	1200 MB		14,500	30,500	62,500	126,500	254,500

resolution	quality	fps	16GB	32GB	64GB	128GB
FHD(1080P) 1920x1080	Super	30	5hours	10hours	19hours	39hours
		1	21hours	44hours	90hours	167hours
	High	30	6hours	11hours	23hours	47hours
		1	25hours	52hours	106hours	167hours
	Standard	30	7hours	14hours	29hours	58hours
		1	31hours	63hours	129hours	167hours
HD(720P) 12 80x720	Super	30	9hours	19hours	38hours	76hours
		1	39hours	80hours	163hours	167hours
	High	30	11hours	22hours	45hours	90hours
		1	45hours	93hours	167hours	167hours
	Standard	30	13hours	27hours	55hours	111hours
		1	53hours	110hours	167hours	167hours
D1 720x480	Super	30	13hours	27hours	55hours	111hours
		1	53hours	110hours	167hours	167hours
	High	30	17hours	35hours	71hours	144hours
		1	66hours	136hours	167hours	167hours
	Standard	30	24hours	50hours	101hours	167hours
		1	85hours	167hours	167hours	167hours

This table is a guideline only.

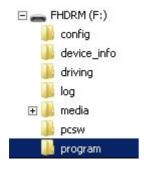
Actual results may vary depending on a variety of factors on the road.

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 TX4000

Insert the prepared SD card to TX4000 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 TX4000 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.

Optional Item

Model	Descriptions
SH-300	Locking Steel Housing for TX4000 Dimension: 155.00 x 130.00 x 24.00 mm, 330g
MIC-100	External Omni-directional microphone with 8.5 ft. cable
DTR-100A	1.3Mega-Pixel 1/4" CMOS Sensor, Resolution: 720P, Angle of View: 100° Min. Illumination: 0.5 lux Operating Temperature: -10°C ~ 55°C Input Voltage: DC 12V 31mm(W) x 33.5mm(H) x 25mm(D)
STR-950AHDIR	1.3Mega-Pixel Sony Exmor CMOS Sensor Resolution: 720P, Angle of View: 120° Min. Illumination: 0.1 lux// IR LED On 0 lux Operating Temperature: -20°C ~ 60°C Input Voltage: DC 12V, 9pcs LEDs 80.5mm(W) x 50.5mm(D) x 61.0mm(H)
STR-900AHDIR	1.3Mega-Pixel Sony Exmor CMOS Sensor Resolution: 720P, Angle of View: 120° Min. Illumination: 0.1 lux// IR LED On 0 lux Weather-proof Housing (IP69K) Operating Temperature: -20°C ~ 60°C Input Voltage: DC 12V, 12pcs LEDs 59.2mm(W) x 56mm(D) x 62.1mm(H)
DTR-200BN	2.12Mega-Pixel Sony Exmor CMOS Sensor Resolution: 1080P, Angle of View: 120° Min. Illumination: 0.1 lux// IR LED On 0 lux Weather-proof Housing (IP66) Operating Temperature: -10°C ~ 55°C Input Voltage: DC 12V, 12pcs LEDs 63.5mm(W) x 57.7mm(D) x 56.00mm(H)

D-TEG Security Co., Ltd.

http://www.d-teg.com