

User's Manual

DrivePro 220

Car Video Recorder



(Version 2.0)



Table of Contents

1. Introduction 	2
2. Package Contents 	3
3. Features 	5
4. System Requirements 	5
5. Safety Precautions 	6
6. Getting Started 	7
Inserting a microSD Memory Card.....	7
Mounting the DrivePro.....	9
Connecting to Power.....	10
Recording Screen.....	12
Function Buttons.....	12
Setting the Date and Time.....	13
7. Recording Videos 	13
Emergency Recording.....	14
Low Battery.....	15
8. Browse and Play Videos 	15
Playing Videos / Browsing Photos.....	15
Protecting Videos.....	16
9. Settings 	17
10. Using the DrivePro App 	21
Downloading and Installing the App.....	21
Connecting to the DrivePro.....	21
11. DrivePro Toolbox Software 	22
12. Transferring Files to a Computer 	23
13. Troubleshooting 	26
14. Specifications 	27
15. Recycling and Environmental Protection 	29
16. Federal Communications Commission (FCC) Statement.....	30
17. Two-year Limited Warranty 	31
18. GNU General Public License (GPL) Disclosure.....	32
19. End-User License Agreement (EULA).....	32

1. Introduction |

Thank you for purchasing Transcend DrivePro 220 - an advanced car video recorder (CVR) that is specifically designed to capture real time video of events happening outside your vehicle while driving. Mounted on your car's windshield, the DrivePro uses a 130° Wide Angle Lens for the best field of view, and records videos in crystal clear Full HD 1080P to ensure all the important details of your trip are recorded. DrivePro 220 has built-in GPS receivers to record your driving history. In addition, the WI-FI connection allows you to adjust the settings and download the recorded videos from your mobile devices. Videos are saved on a microSD memory card as the vehicle is driven. The DrivePro bundles with a 16GB Transcend microSD memory card, letting you record around 2 hours of a Full HD footage without the need to purchase additional storage. In addition, its built-in camera allows you to take photos while recording by just one click. This User's Manual will give you step-by-step instructions and advices to help you get the best experience from your new device. Please read it carefully before using the DrivePro.

2. Package Contents |

The DrivePro Car Video Recorder package includes the following items:

- A DrivePro Car Video Recorder



- An Adhesive Mount or a Suction Mount



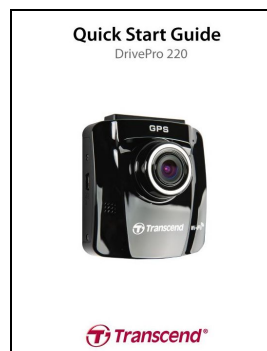
- A Car Adapter



- A 16GB microSD Memory Card



- A Quick Start Guide



- A Warranty Card



3. Features |

- Smooth, detailed Full HD 1080P recording at 30fps resolution
- Built-in GPS receivers to locate your position
- Built-in Wi-Fi function to let you operate the DrivePro on your mobile device
- Bright 2.4-inch color LCD screen
- 130 degree wide angle lens
- Bundled with a 16GB Transcend microSD memory card
- Built-in camera to capture real-time images while recording
- Hi-Speed USB 2.0 connector for easy computer connectivity and fast file transfers
- Record videos in .MOV file format
- Built-in microphone
- Built-in Li-ion battery
- Built-in speaker
- Support 13 languages

4. System Requirements |

System requirements for connecting the DrivePro to a computer:

- A desktop or a laptop with a working USB port
 - Windows® 7
 - Windows® 8
 - Windows® 8.1
 - Windows® 10
 - Mac® OS X 10.8.2 or later

5. Safety Precautions |

These usage and safety guidelines are **IMPORTANT!** Please follow them carefully to ensure your own personal safety, and help protect your DrivePro from potential damages.

■ General Use

- For in-car use only.
- For your safety, do not operate the DrivePro, or use the DrivePro App while driving.
- Avoid placing the DrivePro in an extreme temperature environment.
- Avoid splashing water or any other liquids on the DrivePro and accessories.
- Do not use the DrivePro in an environment with strong magnetic fields or excessive vibration.
- Only use the car adapter provided by Transcend. Other car adapters may not compatible with the DrivePro.
- Lighter sockets of some types of vehicles will still supply power after the car engine is turned off. If your car is of this type, please unplug your car video recorder from the lighter socket to avoid unnecessary power consumption and unexpected issues.
- The GPS system is subject to changes which could affect its accuracy and performance. Transcend does not guarantee the accuracy of GPS data, which should not influence your personal judgment while driving.
- GPS signals cannot penetrate buildings and metallic tinted films. The accuracy of GPS data depends on the surroundings including the weather and the location it is being used (e.g. high buildings, tunnels, undergrounds and forests).

■ Mounting Location

- Never place the DrivePro where the driver's view or deployment of airbags is obstructed.
- Mount the DrivePro within the range of the windshield wipers to ensure clear visibility in rain.



WARNING: Remove the DrivePro carefully if it is mounted on a tinted window to prevent damages to the tint film.

■ Backing up Data

- **Transcend does NOT take any responsibility for data loss or damage during operation.** We strongly advise that you regularly back up data in your memory card to a computer or other storage medium.
- To ensure Hi-Speed USB 2.0 data transfer rates when connecting your DrivePro to a computer, please check if the computer is installed correct USB drivers. If you are not sure how to check this, please refer to the User's Manual of the computer or motherboard for USB driver information.

6. Getting Started |



A	Wide Angle Lens
B	GPS Receivers
C	2.4" LCD Display
D	Function Buttons
E	LED Indicator
F	Reset Button
G	Emergency Button
H	Memory Card Slot
I	Bracket Socket
J	USB Connector
K	Built-in Microphone
L	Built-in Speaker

Inserting a microSD Memory Card

You must insert a microSD memory card into the DrivePro before you can start recording. Please use a

MLC-based microSD memory card with 8GB, 16GB, 32GB or 64GB capacity (Class 10 or above).

1. Insert a microSD memory card into the appropriate card slot on the left-hand side of the DrivePro.

Note: Always format new memory cards in the DrivePro before using them for the first time. To format a new memory card, press the Settings button during recording, and select **Format Card**.



WARNING: TS16GDP220 can only support FAT32 and exFAT file format, but not NTFS.



2. To remove, push to eject the memory card out of the slot



WARNING: Do not remove the memory card during shutdown to avoid damages to the memory card and loss of recorded videos

- The following table shows approximate recording time according to capacity and resolution (for reference only):

Card Capacity (FAT32)	Full HD 1080P 30fps	HD 720P 30fps
8GB	1 hr	2 hr 25 min
16GB	2 hr 15 min	4 hr 50 min
32GB	4 hr 30 min	9 hr 40 min
64GB	9 hr	19 hr 20 min

■ Mounting the DrivePro

1. Insert the mount bracket into the top of the DrivePro, and slide sideways until you hear a click.



2. Thoroughly clean and dry the area of the windshield you wish to mount the DrivePro. If possible, mount the DrivePro in the middle of the windshield near the rear-view mirror for the best field of view.
3. Peel off the protective film from the mount bracket's foam sticker, and firmly attach the DrivePro to the windshield.
4. Turn the adjustment knob anticlockwise to loosen, and then adjust the DrivePro's position.



5. After the DrivePro is in the best position, turn the adjustment knob clockwise to make sure that the DrivePro is securely locked in place.



■ Connecting to Power

Note: Insert a microSD memory card before connecting the DrivePro to your car's lighter socket.

1. Connect the small end of the car adapter to the USB connector of the DrivePro.



2. Connect the other end of the car adapter to your car's lighter socket.



3. After the car engine is switched on, the DrivePro will automatically turn on and start recording.
4. After the car engine is switched off, the DrivePro will automatically save the current recording, and power off.

Note: Lighter sockets of some types of vehicles will still supply power after the car engine is turned off. If your car is of this type, please unplug your car video recorder from the lighter socket to avoid unnecessary power consumption and unexpected issues.

■ Recording Screen

1. Recording status indicator
2. Video resolution
3. WIFI on indicator
4. GPS fix indicator
5. Voice record status
6. Battery status
7. Time



■ Function Buttons



Mode	A	B	C	D
Video Recording	Power/WiFi	Browse Files	Settings	Take Photos
Browse/Settings	Back*	Up	Down	OK OK
Video Playback	Back*	Play/Pause	Protected/Unprotected	Delete
View Photos	Back*	Up	Down	Delete

*Press and hold the Power On/Off button for 3 seconds to manually turn on/off the DrivePro in any mode.

■ Emergency Recording

During video recording, press the emergency button on the left-hand side of the DrivePro to manually activate emergency recording mode.



■ LED Indicator Reference Chart

LED Status	Definition
Solid Red	Standby
Flashing Red	Recording

■ Setting the Date and Time

To set the current date and time:

1. During video recording, press the Settings button .
2. Use  /  to select **Date/Time Settings**, and press .

Date/Time

2016 / 02 / 25
11 : 46 : 08

3. Use  /  to adjust values, and press  to move to the next block.
4. Repeat step 3 above until the date and time settings are complete.

7. Recording Videos |

After the car engine is switched on, the DrivePro will automatically turn on and start recording.

By default, one video file is saved for every 3 minutes of recording. To adjust the recording length, please refer to the **Settings** section in this manual.



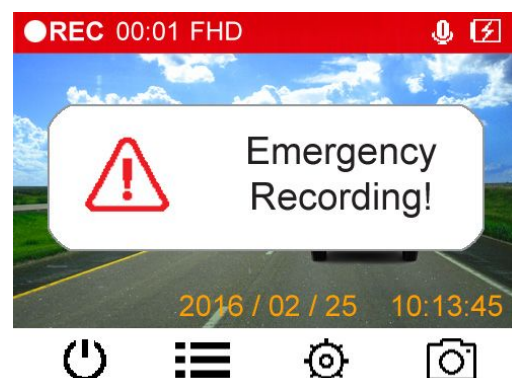
After the car engine is switched off, the DrivePro will automatically save the current recording and power off.

Note: Lighter sockets of some types of vehicles will still supply power after the car engine is turned off. If your car is of this type, please unplug your car video recorder from the lighter socket to avoid unnecessary power consumption and unexpected issues.

■ Emergency Recording

30% of the storage space will be saved for emergency video files. Video files recorded in emergency mode are protected from being overwritten.

Manual Event Recording: During video recording, press the emergency button on the left-hand side of the DrivePro to manually activate emergency recording mode. The emergency icon will appear on the screen when activated.



G-Sensor Event Recording: During video recording, the DrivePro will automatically activate Emergency Recording mode when detecting a collision.

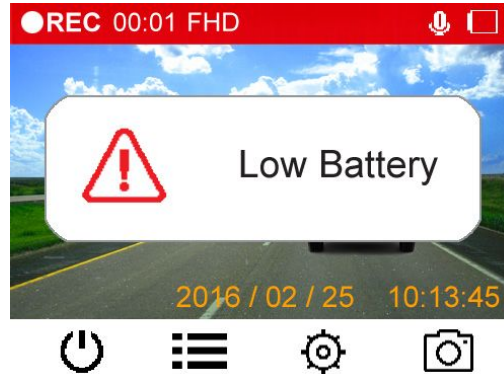
- If the G-Sensor sensitivity is set to “High”, even minor shocks will activate Emergency Recording mode.
- If the G-Sensor sensitivity is set to “Low”, only significant shocks will activate Emergency Recording mode.

G-Sensor sensitivity can be adjusted or disabled in the **Settings** menu.

Note: The earliest emergency file will be overwritten by the latest emergency file recorded.

■ Low Battery

Please charge the DrivePro immediately after viewing the Low Battery warning to avoid errors happening to the system time. Please avoid using the built-in battery to record videos directly.

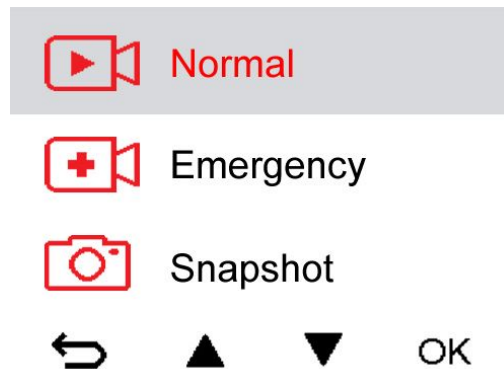


Note: Please fully charge DP220 before using.

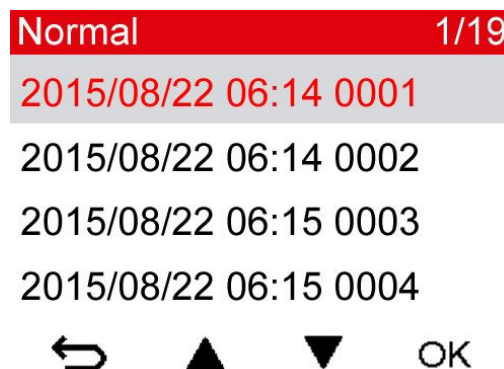
8. Browse and Play Videos |

■ Playing Videos / Browsing Photos

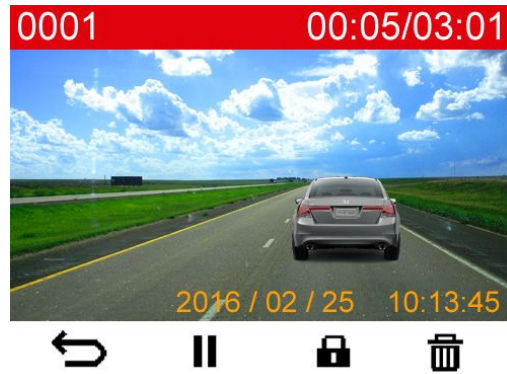
1. During video recording, press the Browse button .
2. Use  /  to select either **Normal**, **Emergency** or **Snapshot**, and press .



3. Use  /  to select the desired video file, and press .



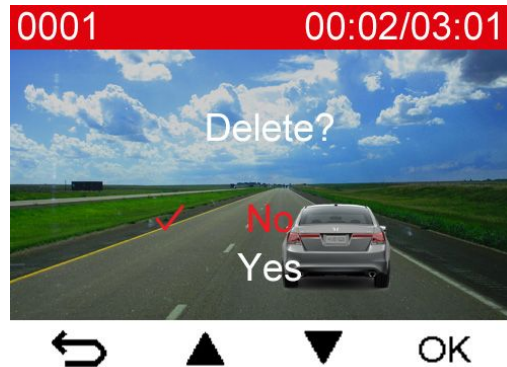
4. Press  to pause playback. Press  again to resume playback.



5. Press  to return to the video file list.

■ Deleting Videos

1. During playback of a video file, press . The message, "Delete?" will pop up.
2. Use  /  to select "Yes," and press  to delete the file.



■ Protecting Videos

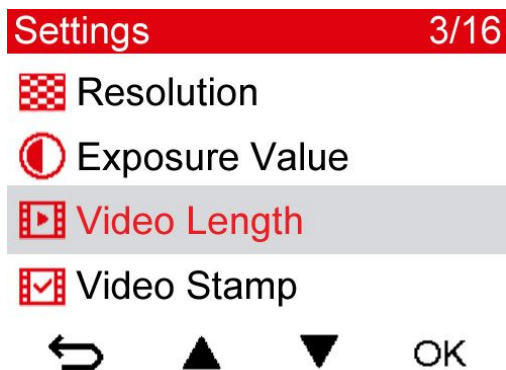
1. During playback of a normal video file, press . The message, "Lock?", will pop up.
2. Use  /  to select "Yes," and press  to protect the file.



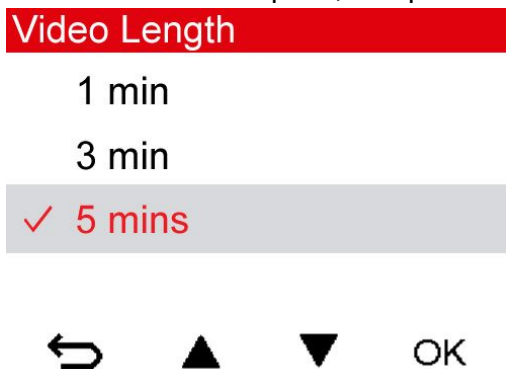
9. Settings |

In the Settings menu, you can adjust settings of video resolution, recording time and G-Sensor sensitivity. You can also set the date/time, change the interface language, format the memory card, and upgrade firmwares.

1. During video recording, press the Settings button  .



2. Use  /  to select the desired menu option, and press  .



3. Use  /  to select the desired setting, and press  .
4. Press  to return to the Settings menu.

Menu Options



Resolution: Set the resolution/quality for video recording.

Available options: **1080P (FHD) / 720P (HD)**



Exposure Value: Adjust exposure composition value to lighten or darken the preview screen.

Available options: **+2.0 / +1.5 / +1.0 / +0.5 / 0 / -0.5 / -1.0 / -1.5 / -2.0**



Video Length: Set the recording length of each recorded video file.

Available options: **1 min / 3 mins / 5 mins**



Video Stamp: Display the current time of the event or GPS information of the video being recorded.

Available options: **Disable / Enable**



Voice Recording: Turn on/off the microphone during video recording.

Available options: **Enable / Disable**



Volume: Set the speaker volume level.

Available options **0 ~7 (You can choose 0 to switch on Silent Mode)**



Light Frequency: Select the appropriate frequency to avoid flashing A/C light.

Available options: **50Hz / 60Hz**



G-Sensor: Adjust the sensitivity of the G-Sensor.

Available options: **Disable / Low / Medium / High**



Speed Unit: Set the measurement unit of speed.

Available options: **Kilometer / Mile**



Lane Departure Warning System (LDWS): Alert the driver if the driving speed exceeds the value set ahead.

Available options: **Disable / 60 kmh ~120 kmh (40 mph~70 mph)**



Forward Collision Warning System (FCWS): Alert the driver if the driving speed exceeds the value set ahead.

Available options: **Disable / 60 kmh ~120 kmh (40 mph~70 mph)**



Speed Alarm: Alert the driver with warning beeps if the driving speed exceeds the value set ahead.

Available options: **Disable / 60 kmh (40 mph) / ... / 120 kmh (100 mph)**



Parking Mode: Determine if continuous recording is necessary according to motion detection after the car engine is switched off (**this mode will drain DP220 battery**).

Available options: **Enable / Disable**



Delay Power Off: Schedule the DrivePro to shut down at a certain time.

Available options: **Disable / 10 secs / 30 secs**



Auto Turn Off Display: Set duration for display to automatically turn off after recording begins.

Available options: **Never / After 1 min / After 3 mins**



GPS Status: Display the number of GPS satellites received and GPS signal intensity.



Navigation System: Select a navigation system according to your preference.

Available options: **GPS / Glonass**



Date/Time Settings: Set the current date and time.



Language: Set the on-screen display menu language (13 languages are available).

Available options: **English / 繁體中文 / 简体中文 / 日本語 / Deutsch / Español / Ελληνικά / Français / Italiano / Россия / Português / Türkçe / 한국어**



Format: Format the microSD memory card.

Available options: **No / Yes**



WARNING: Formatting will erase all the data stored in the card.



Firmware Upgrade: Keep your DrivePro up-to-date with the latest version downloaded from Transcend website <http://www.transcend-info.com/Support/service>.

1. After downloading the firmware from Transcend website, decompress it and put it in the "SYSTEM" folder in the microSD memory card.

名稱	修改日期
N-VIDEO	2013/11/18 下午 01...
P-VIDEO	2013/11/18 下午 01...
SYSTEM	2013/11/18 下午 01...

2. Insert the microSD memory card that contains the latest firmware version.
3. Select Firmware Upgrade from the Settings menu, and press **OK** to start the firmware detection process. The DrivePro will automatically find the latest firmware file.

Settings 16/16

-  Information
-  Format Card
-  Restore Defaults

 Upgrade Firmware

   OK

Upgrade Firmware

Upgrade firmware?

✓ Cancel
Confirm

   OK



WARNING: NEVER remove the power cord or the microSD memory card while the firmware is being upgraded.

If the DrivePro cannot be turned on due to firmware upgrade failure, please contact Transcend customer service for technical support.



Restore Defaults: Reset all settings to factory default settings.

Available options: **No / Yes**



Information: Display the DrivePro's current firmware version, card capacity and free space.

10. Using the DrivePro App |

Developed specifically for iOS and Android devices, the free download DrivePro App allows you to wirelessly view real-time video footages during recording, control DrivePro functions and play videos directly from your mobile devices.

■ Downloading and Installing the App

1. Search “DrivePro220” on your App Store or Google Play.



2. Download and install the DrivePro App.

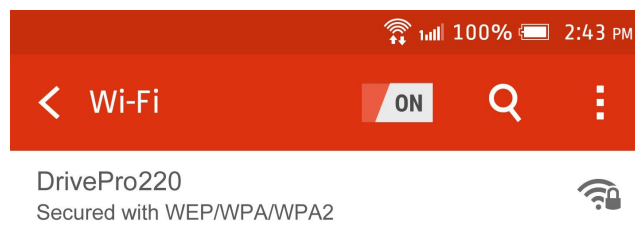
Once the installation is complete, the App will be displayed on the home screen of your device. Before using the App, please refer to the DrivePro instructions.

■ Connecting to the DrivePro

1. During video recording, press the  button to turn on the Wi-Fi function.



2. When the icon  is displayed, you can connect your mobile device to the DrivePro220.
3. After turning on the Wi-Fi, please wait for a few seconds for the network to appear.
4. Tap Settings > Wi-Fi from your mobile device.
5. Select the DrivePro220 Wi-Fi link (default password is 12345678)



6. Tap the DrivePro220 icon on the home screen of your mobile device to use the App.



7. The image above will be displayed when you are connecting to the DrivePro.

Note: To change the default SSID and the password, go to Settings in the DrivePro App.

11. DrivePro Toolbox Software |

The DrivePro Toolbox, developed for Windows, features a user-friendly interface that allows you to select and play videos recorded on your DrivePro, and see your driving paths of the recorded videos displayed on maps without the need to install separate codecs.

1. Download the installation files from: <http://www.transcend-info.com/downloads>
2. Install DrivePro Toolbox software on your desktop or laptop.

The useful features include:

1. Video Sorting
Easily sort videos by filename, recording date or group.
2. Smooth Video Playback
Connect the DrivePro or use a microSD card slot supported card reader or adapter to play back recorded video events on your Windows OS computer.
3. Show Your Driving Paths
See your driving paths of the recorded video displayed on maps (this feature only works with DrivePro 220 & DrivePro 520's GPS receiver).

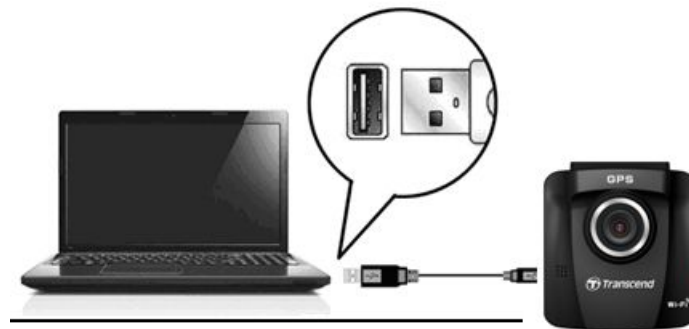
12. Transferring Files to a Computer |

To transfer files between the DrivePro's memory card and your computer:

Option 1: Take the microSD memory card out of the DrivePro, and insert to a compatible card reader to transfer files to your computer.

Option 2:

1. Insert the microSD memory card into the DrivePro.
2. Plug the small end of a USB cable into the Mini-B USB port located on the right-hand side of the DrivePro.
3. Plug the large end of the cable into an available USB port on your desktop or laptop.



DP220 package does not contain any USB cable.

The DrivePro will display the following screen when connected to a computer:



■ Windows 7, 8, 8.1 and 10

No drivers are required for connecting the DrivePro to your desktop or laptop. Windows® Operating Systems have built-in drivers to support your DrivePro. Upon successful connection to your computer, a new **Removable Disk** drive with a newly assigned drive letter representing the DrivePro will automatically appear in **My Computer**, and a Removable Hardware  icon will appear in the Windows System Tray.

Name	Type	Total Size	Free Space
Hard Disk Drives (2)			
Local Disk (C:)	Local Disk	976 GB	237 GB
Local Disk (D:)	Local Disk	886 GB	3.19 GB
Devices with Removable Storage (1)			
Removable Disk (E:)	Removable Disk		

*Note: (I:) is an example drive letter – the letter in your “My Computer” window may differ.

Your DrivePro is now ready to transfer data just like an external hard drive. To transfer videos, simply drag-and-drop files from the folder that represents the DrivePro.

Proper removal of your DrivePro from Windows:

1. Click once on the **Removable Hardware** icon  in the system tray.
2. A **Safely Remove Hardware** window will pop up. Click to continue.
3. A window stating, “The ‘USB Mass Storage Device’ device can now be safely removed from the system,” will pop up. Unplug your DrivePro from the USB port after seeing this message.



Mac® OS X 10.8.2 or later

No drivers are required. Plug your DrivePro into an available USB port directly, and your computer will automatically detect it.



Proper removal of your DrivePro from Mac OS:

Drag-and-drop the Disk icon corresponding to your DrivePro into the trashcan, and then unplug your DrivePro from the USB port.



1. **WARNING:** To prevent data loss, always follow the proper removal procedures when disconnecting the DrivePro from your computer.
2. When the DrivePro is connected to a computer, it can only be used for transferring files. You will not be able to use any of the DrivePro's features at this time. Please disconnect your DrivePro from the computer to resume normal function.
3. **NEVER** use the "format" or "initialize disk" function while the DrivePro is connected to your computer, even if prompted to do so.

13. Troubleshooting |

If a problem occurs to your DrivePro, please first check the instructions listed below before sending your DrivePro for repair. If you cannot find any ideal solution to your question below, please consult your dealer, service center, or local Transcend branch office for further help. You can also visit Transcend website for FAQ and Technical Support services. For any Hardware issues, please refer to the DrivePro User's Manual.

■ **My computer operating system cannot detect my DrivePro**

Please check the followings:

1. Is your DrivePro properly connected to the USB port? If not, unplug and connect it again. Make sure that both ends of the USB cables are properly connected as shown in the User's Manual.
2. Is your DrivePro connected to the Mac keyboard? If yes, try to plug it in an available USB port on your Mac Desktop directly.
3. Is the computer's USB ports enabled? If not, refer to the user's manual of your computer (or motherboard) to enable them.

■ **None of the DrivePro buttons are responding (hangs / lags / stalls)**

Try unplugging the car adapter from your DrivePro, and reconnecting it to your DrivePro again.

■ **My DrivePro cannot play videos stored in my memory card.**

Edited videos may not be displayed properly on your DrivePro.

■ **Nothing happens when I press the "Emergency Recording" button.**

Emergency Recording only works in the recording mode.

14. Specifications |

Panel:	2.4" color LCD
Speaker / Microphone:	1.0 Watt / 0.5 mA (built-in)
Connect Interface:	USB2.0
Storage Capacity:	MLC-based MicroSD, 8GB / 16GB / 32GB / 64GB (Class 10 or above)
Control buttons:	4 function buttons 1 emergency recording button 1 reset button
Dimensions:	70.2 mm (L) × 63.1mm (W)× 34.5mm (H)
Weight:	85g
Power Supply (car charger):	Input DC12V~24V Output DC5V / 1A
Operating Temperature:	-20°C (-4°F) ~ 65°C (149°F)
Video Formats:	H.264 (MOV: up to 1920x1080 30fps)
Lens:	F/1.8, 130° wide angle
Resolution / Frame Rate	Full HD (1920 x 1080) 30fps HD (1280 x 720) 30fps
Global Navigation Satellite System	GPS/Glonass
WiFi	802.11b/g/n
Certification:	CE, FCC, NCC, BSMI
Warranty:	2 years

Note:

1. We strongly recommend the use of MLC-based memory cards to reach the optimal recording performance as car video recorders require extensive read/write. Using TLC-based memory cards on your car video recorder might result in unstable performance.

2. Besides the bundled microSD card, we recommend Transcend's High Endurance microSD card as an additional purchase to reach the most stable recording performance. Please see below for the recommend microSD cards:

- 16/32GB High Endurance microSDHC
(TS16G/32GUSDHC10V)
 - 64GB High Endurance microSDXC
(TS64GUSDXC10V)
-

15. Recycling and Environmental Protection |



Recycling the Product (WEEE): Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. When you see the crossed-out wheel bin symbol attached to a product, it means that the product is covered by the European Directive 2002/96/EC:

Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potential negative consequences on the environment and human health.



Battery Disposal: Your product contains a built-in rechargeable battery covered by the European Directive 2006/66/EC, which cannot be disposed of with normal household waste. Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences on the environment and human health.

For products with non-exchangeable built in batteries: The removal of (or the attempt to remove) the battery invalidates the warranty. This procedure is only to be performed at the end of the product's life.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

16. Federal Communications Commission (FCC) Statement

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received including interference that may cause undesired operation.

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

17. Two-year Limited Warranty |

This product is covered by a Two-year Limited Warranty. Should your product fail under normal use within two years from the original purchase date, Transcend will provide warranty service pursuant to the terms of the Transcend Warranty Policy. Proof of the original purchase date is required for warranty service. Transcend will inspect the product and in its sole discretion repair or replace it with a refurbished product or functional equivalent. Under special circumstances, Transcend may refund or credit the current value of the product at the time the warranty claim is made. The decision made by Transcend shall be final and binding upon you. Transcend may refuse to provide inspection, repair or replacement service for products that are out of warranty, and will charge fees if these services are provided for out-of-warranty products.

Limitations

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