User's Manual

DrivePro 520
Car Video Recorder

(Version 0.6)

Transcend®

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1. Introduction |

Transcend's DrivePro 520 Car Video Recorder is an advanced dual-lens in-car recorder that is specifically designed to capture real time videos and photos of events happening outside and inside your vehicle. Mounted on your car's windshield, the DrivePro 520's front lens uses a 130° wide angle lens for the best field of view, and records videos in crystal clear Full HD 1080P (30 FPS) with its F/1.8 large aperture to ensure all the important details of your trip are recorded; the rear lens also features a rotatable 110° angle lens and F/2.8 aperture that records videos in 720P (30 FPS) resolution. The rear lens built-in Infrared LEDs will be automatically turned on in low light conditions, allowing recording at night. The DrivePro 520's built-in GPS receiver can log GPS coordinates, date and time into the recorded video footage. During an incident, the GPS coordinates can help you precisely locate where you are so as to contact the Emergency Road Service, police or insurance company. In addition, the video files recorded in G-Sensor emergency recording mode are protected from being overwritten. The built-in Wi-Fi and battery and the handy snapshot feature also ensure optimal user-experience.

2. Features |

- Smooth and detailed Full HD 1080P and 720P recording at 30fps resolution
- Front and rear lenses to record what happens outside and inside your vehicle
- Rear lens with Infrared LED for clear night vision and low light conditions
- 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 32GB Transcend microSD memory card
- Built-in dual-lens 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 .MP4 file format with 15Mbps high video bit rate
- Built-in speaker and microphone
- Built-in Li-Polymer battery
- Support 13 languages

3. Package Contents

The DrivePro Car Video Recorder package includes the following items:

- DrivePro Car Video Recorder

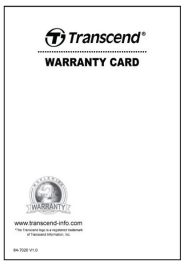
- Adhesive Mount or Suction Mount

- Car Adapter

- 32GB microSD Memory Card

- Quick Start Guide

- Warranty Card



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
- Mac® OS X 10.8.2 or later
- Linux® Kernel 2.6.38 or later

System requirements for using the DrivePro Toolbox:

- Windows® 7
- Windows® 8
- Windows® 8.1

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

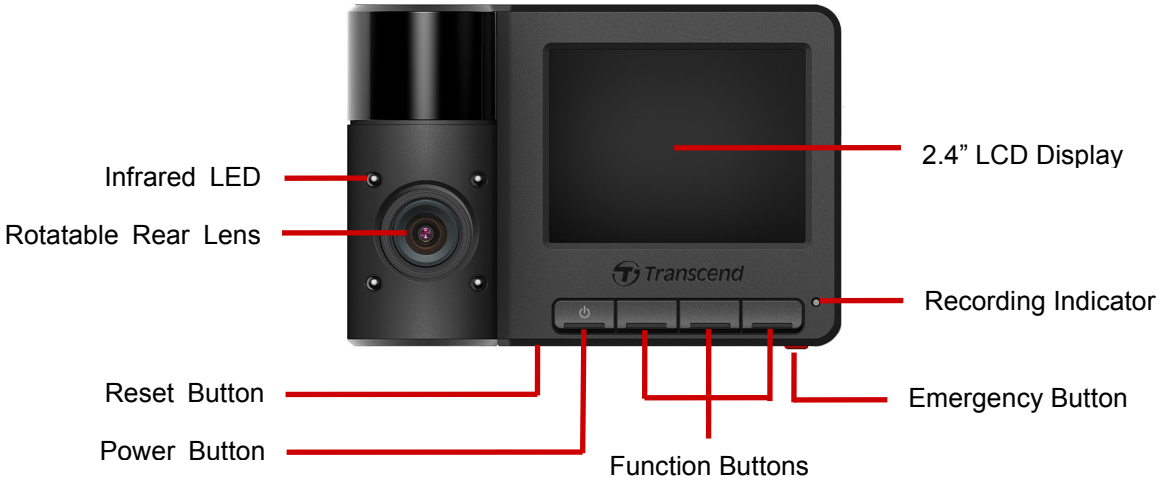
- Never place the DrivePro where the driver's view or deployment of airbags is obstructed.
- Mount the DrivePro within the range of the windshield wipers to ensure clear visibility in rain.

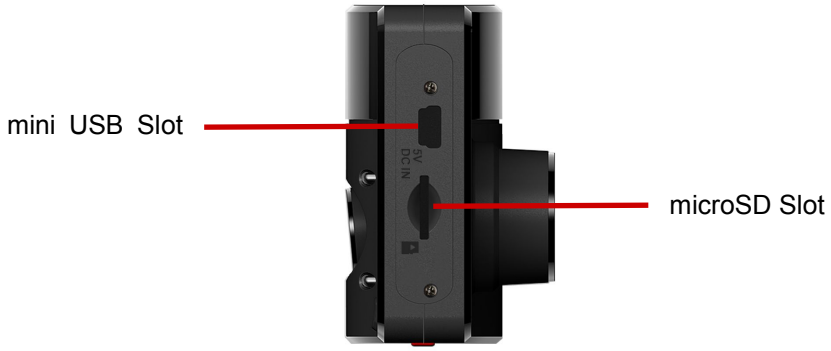
WARNING: Remove the DrivePro carefully if it is mounted on a tinted window to prevent damages to the tinted film.

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





Inserting a microSD Memory Card

You must insert a microSD memory card into the DrivePro before you can start recording. Please use a Class 6 or above microSD memory card with 8GB, 16GB or 32GB capacity.

1. Insert a microSD memory card into the appropriate card slot on the bottom 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:** DrivePro 520 can only support FAT32 file format, but not NTFS.

- 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 10 min	2 hr 10 min
16GB	2 hr 20 min	4 hr 20 min
32GB	4 hr 40min	8 hr 50 min

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

Mounting the DrivePro

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

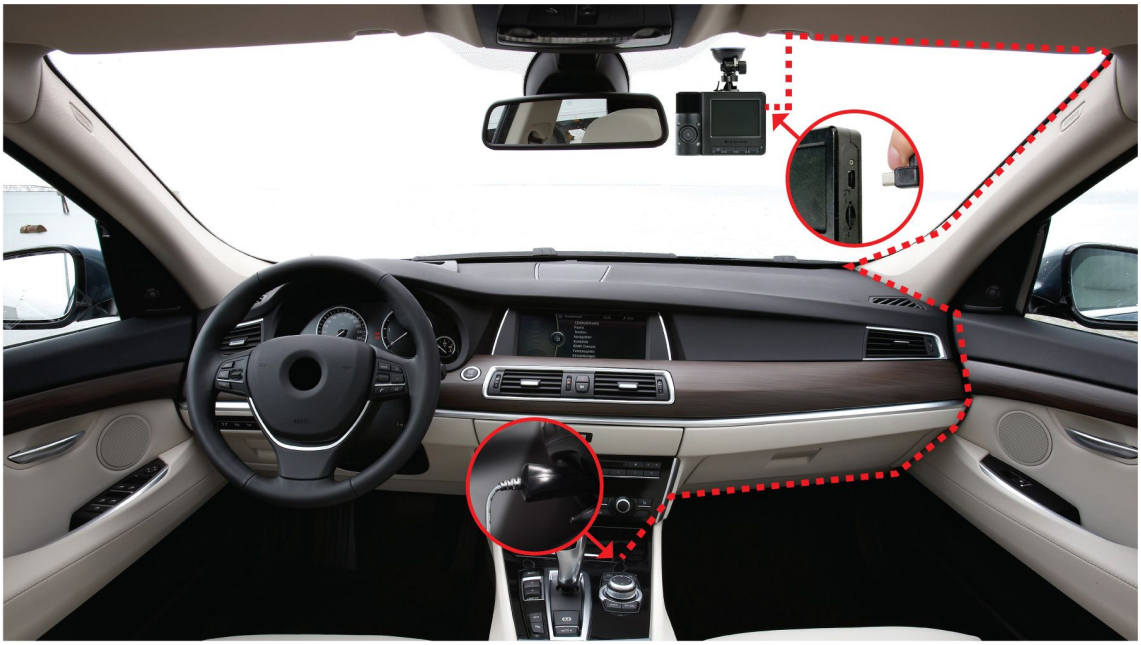
2. Thoroughly clean and dry the area of the windshield you wish to mount the DrivePro. If possible, mount the DrivePro in the middle of the windshield near the rear-view mirror for the best field of view.
3. Peel off the protective film from the mount bracket's foam sticker, and firmly attach the DrivePro 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. Plug the other end of the car adapter in your car's lighter socket.
3. After the car engine is switched on, the DrivePro will automatically turn on and start recording.

   Note: To use for the first time, please set the date, time and time zone.

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/Speed

Function Buttons

Mode	A	B	C	D
Video Recording	Power / Wi-Fi	Browse Files	Settings	Snapshot
Browse/Settings	Back*	Up	Down	OK
Video Playback	Back*	Delete	Protected/Unprotected	Play/Pause
View Photos	Back*	Left	Right	Delete

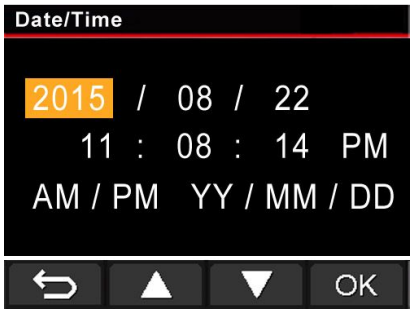
*Press and hold the Power button to manually turn on/off the DrivePro in any mode.

LED Indicator Reference Chart

LED	Wi-Fi	Status	Definition
●	On	Flashing	Recording with Wi-Fi
		Solid	Standby with Wi-Fi
●	Off	Flashing	Recording
		Solid	Standby

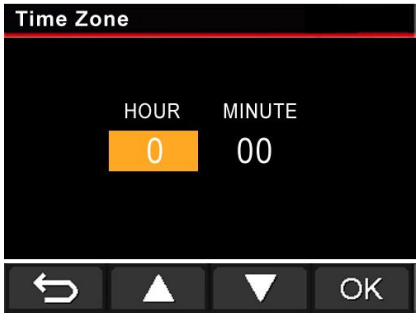
Setting the Date, Time and Time zone

- To set the current date and time:
  1. During video recording, press the Settings button ⚙.
  2. Use ▲ / ▼ to select **Date/Time Settings**, and press OK.



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

- To ensure the accuracy of GPS data, set the time zone:
  Use ▲ / ▼ to adjust values, and press OK.



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 minute of recording. To adjust the recording length, please refer to the **Settings** section in this manual.

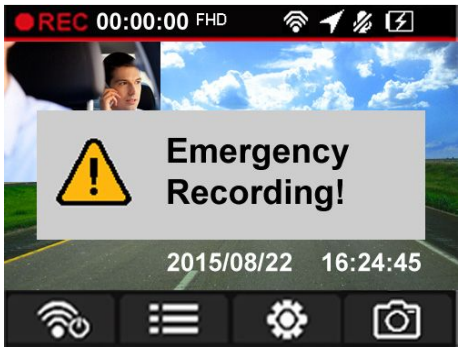
After the car engine is switched off, the DrivePro will automatically save the current recording and power off.

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

The DrivePro can save up to 15 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 bottom 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.

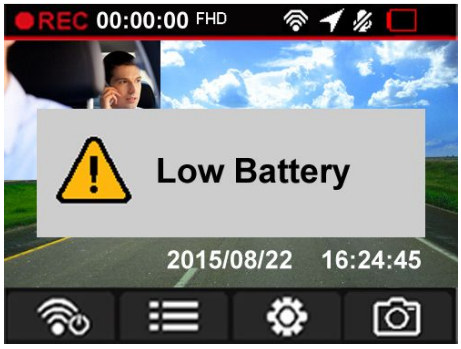
- If the G-Sensor sensitivity is set to “High”, even minor shocks will activate Emergency Recording mode.
- If the G-Sensor sensitivity is set to “Low”, only significant shocks will activate Emergency Recording mode.

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

Note: The message, “Max number of emergency files reached,” will pop up when 15 emergency files have been saved. The earliest emergency file will then 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:

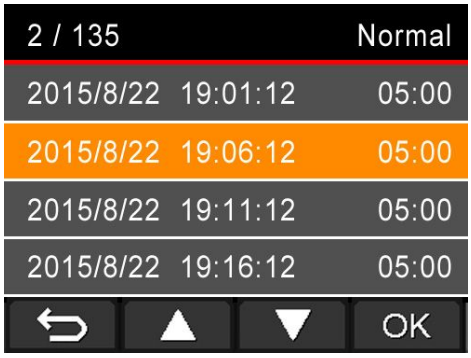
1. If you want to record by the built-in battery, please make sure that it has sufficient power supply.
2. It takes at least 5 hours to charge the battery from low to full by an AC/DC adapter (Output: DC5V1A).

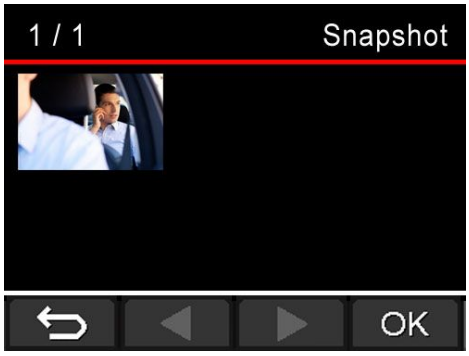
8. Playing Videos and Browsing Photos

Playing Videos / Browsing Photos

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

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

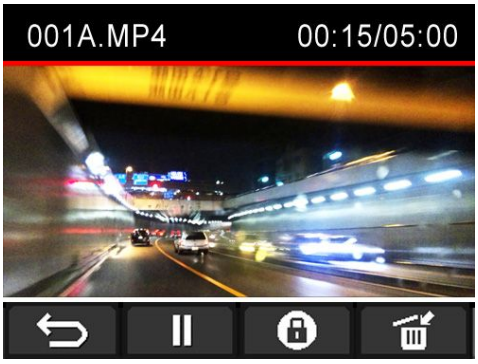


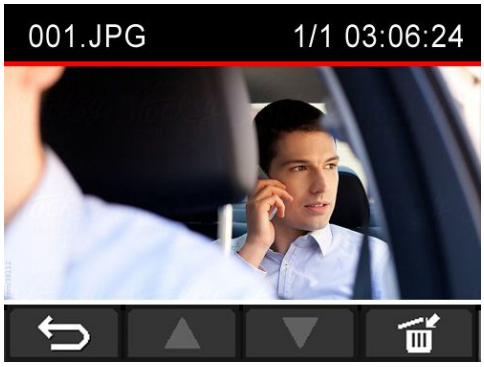


4. Press to return to the video file list.

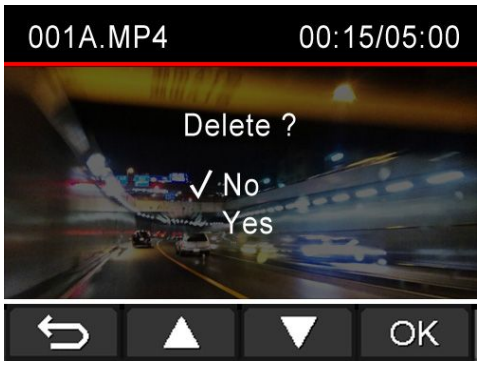
Deleting Videos/Photos

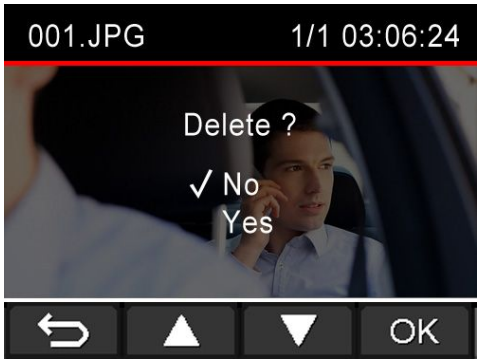
1. During playback of a video/photo file, press .





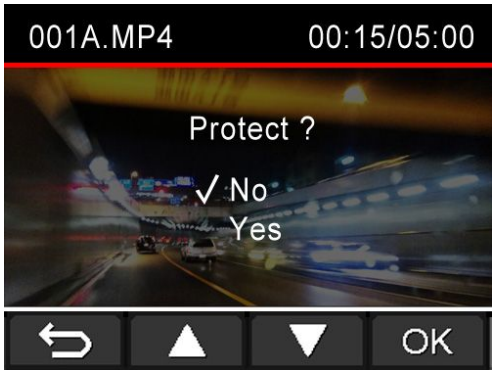
2. Use / to select the desired option and press OK.





Protecting Videos

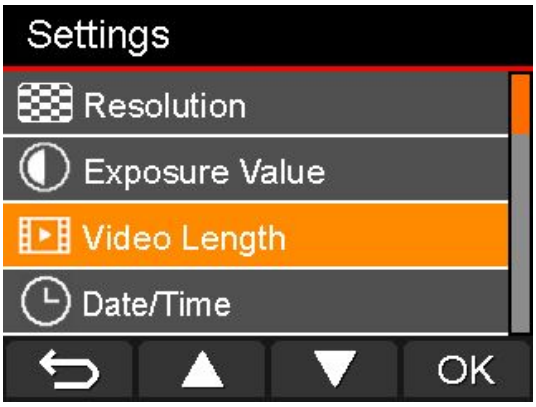
1. During playback of a normal video file, press .
2. Use / to select the desired option and press OK.



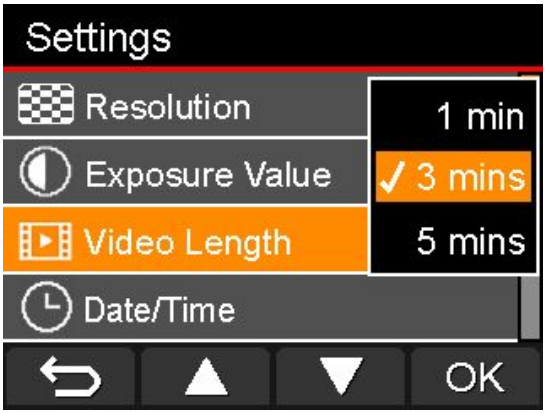
9. Settings

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 etc..

1. During video recording, press the Settings button .



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



3. Use / to select the desired setting, and press OK.
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 ~ -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: **Enable / Disable**

G-Sensor: Adjust the sensitivity of the G-Sensor.
Available options: **Disable / Low / Medium / High**

Microphone: Turn on/off the microphone during video recording.
Available options: **Enable / Disable**

Volume: Set the speaker volume level.
Available options **0 / 1 / 2 / 3 / 4 / 5 (You can choose 0 to switch on Silent Mode)**

Display: Display both lenses or the front / rear lens only.
Available options: **Both / Front / Rear**

Auto Display Off: Set duration for display to automatically turn off after recording begins.
Available options: **Never / After 1 min / After 3 mins**

Delay Power Off: Schedule the DrivePro to shut down at a certain time.
Available options: **Disable / 10 secs / 30 secs**

Date/Time: Set the current date, time, format and time zone.

Light Frequency: Select the appropriate frequency to avoid flashing A/C light.
Available options: **50Hz / 60Hz**

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**

Speed Unit: Set the measurement unit of speed.
Available options: **Kilometer / Mile**

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

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

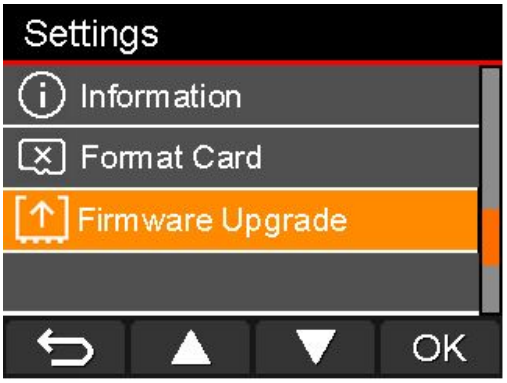
Format Card: Format the microSD memory card.
Available options: **No / Yes**

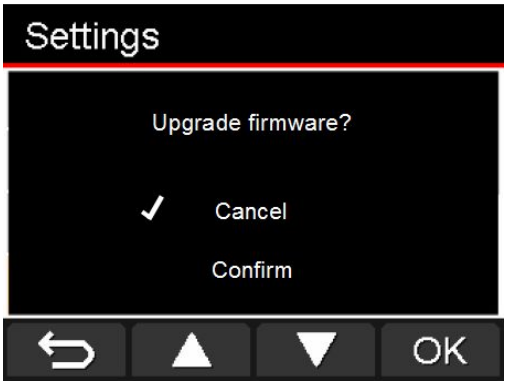
WARNING: Formatting will erase all the data stored in the card.

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.

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.





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

1. The DrivePro 520 will shut down and the red LED light will flash while the firmware is being upgraded. After the upgrade is complete, the DrivePro will restart automatically.
2. 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**

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

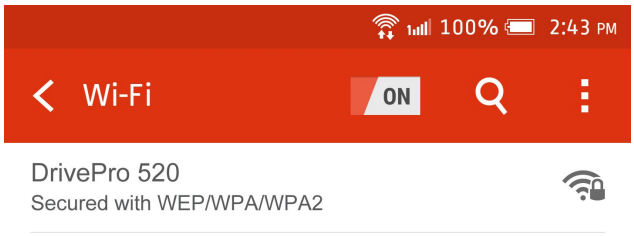
1. Search the DrivePro App on your App Store or Google Play.
2. Download and install the DrivePro App.

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 DrivePro.
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 DrivePro Wi-Fi link (default password is 12345678)



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

7. The image above will be displayed when you are connected 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 playback 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:

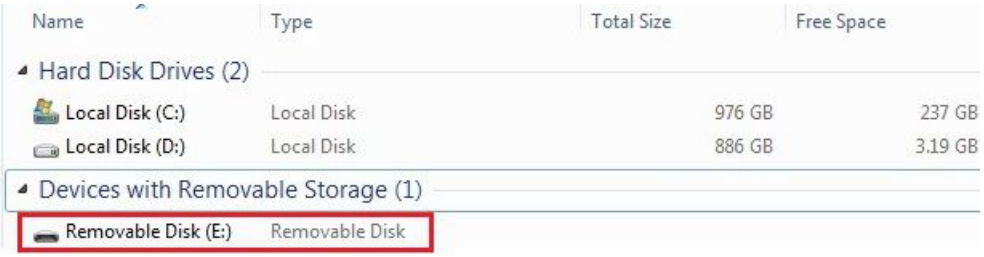
1. Insert the microSD memory card into the DrivePro.
2. Plug the small end of a USB cable into the Mini-B USB port located on the right-hand side of the DrivePro.
3. Plug the large end of the cable into an available USB port on your desktop or laptop.

DrivePro package does not contain any USB cable.

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

Windows® 7, 8 or 8.1

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.



*Note: (E:) 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.

WARNING:

3. To prevent data loss, always follow the proper removal procedures when disconnecting the DrivePro from your computer.
4. 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.
5. **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 |

Display Type & Size	2.4" color LCD
Connect Interface:	USB 2.0
Storage Capacity:	microSD, 8GB / 16GB / 32GB (Class 6 or above)
Dimensions:	96.2 mm (L) × 64.5mm (W)× 43.9 mm (H) 3.79” (L) x 2.54” (W) x 1.73” (H)
Weight:	108g 3.81 oz
Battery	Li-Polymer 470mAh
Power Supply	Input: DC 12V~24V Output: DC 5V 1A
Operating Temperature:	-20°C (-4°F) ~ 65°C (149°F)
Video Format:	H.264 (MP4: up to 1920x1080P 30fps)
Lens:	Front: F/1.8, 130° wide angle
	Rear: F/2.8, 110° angle
Resolution / Frame Rate	Front: 1920 x 1080P (30fps) Max.
	Rear: 1280 x 720P (30fps)
Global Navigation Satellite System	GPS/Glonass
WiFi	802.11b/g/n
Certification:	CE, FCC, BSMI, NCC, MIC
Warranty:	2-Year Limited

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.

FCC RF Radiation Exposure Statement:

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

Any software or digital content included with this product in disc, downloadable, or preloaded form, is not covered under this Warranty. This Warranty does not apply to any Transcend product failure caused by any accident, abuse, mishandling or improper usage (including use contrary to the product description or instructions, outside the scope of the product's intended use, or for tooling or testing purposes), alteration, abnormal mechanical or environmental condition (including prolonged exposure to humidity), acts of nature, improper installation (including connection to incompatible equipment), or problems with electrical power (including undervoltage, overvoltage, or power supply instability). In addition, damage or alteration of warranty, quality or authenticity stickers, and/or product serial or electronic numbers, unauthorized repair or modification, or any physical damage to the product or evidence of opening or tampering with the product casing will also void this Warranty. This Warranty shall not apply to the transferees of Transcend products and/or anyone who stands to profit from this Warranty without Transcend's prior written authorization. This Warranty only applies to the product itself, and excludes integrated LCD panels, rechargeable batteries, and all product accessories (such as card adapters, cables, earphones, power adapters, and remote controls).

Transcend Warranty Policy

Please visit **www.transcend-info.com/warranty** to view the Transcend Warranty Policy. By using the product, you agree that you accept the terms of the Transcend Warranty Policy, which may be amended from time to time.

Online Registration

To expedite warranty service, please access **www.transcend-info.com/register** to register your Transcend product within 30 days of the purchase date.

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www.transcend-info.com

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10. **Miscellaneous.** (a) This Agreement constitutes the entire agreement between Transcend and Customer concerning the subject matter hereof, and it may only be modified by a written amendment signed by an authorized executive of Transcend. (b) Except to the extent applicable law, if any, provides otherwise, this Agreement will be governed by the law of the Republic of China, excluding its conflict of law provisions. (c) If any part of this Agreement is held invalid or unenforceable, and the remaining portions will remain in full force and effect. (d) A waiver by either party of any term or condition of this Agreement or any breach thereof, in any one instance, will not waive such term or condition or any subsequent breach thereof. (e) Transcend may assign its rights under this Agreement without condition. (f) This Agreement will be binding upon and will inure to the benefit of the parties, their successors and permitted assigns.