NEOLINE

NEOLINE PULSE 4K

DUAL-CHANNEL DASH CAMERA WITH 4G LTE AND GPS LOCATION TRACKING



User Manual

Dear customer!

Thank you for purchasing NEOLINE PULSE 4K car digital video recorder (DVR)! Please read this manual carefully and all through to ensure proper use and longer service life of the device. Keep the user manual to consult it when necessary.

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1. Operation Conditions

• Please read the warranty terms carefully.
• In case of any inadequate operation of your Neoline DVR, please be sure to have the device software updated before contacting your service centre/vendor/other authorized institution.
The latest FW version is available at http://neoline.com/update/ and here you can also find how to get the update. If you still have any questions, please feel free to use one of those phone numbers at the site or just leave your request at http://neoline.com/support/
• Never insert or remove a memory card while the DVR is on. It may cause damage to the device, memory card and recorded video files.

IMPORTANT! Inserting a brand new SD card may sometimes bring no DVR response. In this case, just format the memory card with a PC.

• Since this DVR utilizes h.264 codec, some properties of the recorded files (such as bitrate) can only be viewed with an h.264 supporting applications. These are, Windows 10 media player or VLC Player.
• This device shall only be used with the accessories supplied. Where third-party accessories are used, Neoline bears no responsibility for any damage to the product.
• Do not expose the product to fire, moisture or chemicals (gasoline, solvent, reagents, etc.).
• Do not disassemble or modify the product.
• Neoline is not responsible for any data loss and/or direct or indirect damage caused to the user or a third party by incorrect use of the device or software, their incorrect installation, or the use of accessories not included in the package.
• **NOTE!** In some cars, the power is supplied to the 12/24V socket even when the ignition is off. It is recommended to disconnect the device from the vehicle network to avoid the battery discharging.
• Format the microSD card at least once every two months to avoid damage to its file system.

• Observe the storage and operation temperature conditions (see specifications). Do not expose the unit to sunlight for too long.
• The device is designed to be used in cars with a transparent windshield or light tone heat shield for glass. Where the windshield is tinted or covered with dark heat shield film, the video quality decreases.
• Install the DVR in such a way as to get the maximum field of view. DO NOT place the DVR in a place where it can block the view and compromise your safe driving. Neoline and its authorized partners take NO responsibility for any data lost or damaged due to improper installation of the holder.

• The built-in supercapacitor helps you finish your recording correctly. Normal operation of the device requires an external power source.

• Do not use the device while driving to be sure you are driving safe in accordance with local law.
• Set the correct date and time before using the device.
• Heating of the case during operation is normal.
• Handle the device with due care; avoid dropping/crushing the device.
The manufacturer reserves the right to change the equipment list, hardware and software of the device without prior notice.

It is assumed that you agree with the provisions above before you start using the system.

This user manual is valid at the time of printing. Please check for any updates at www.neoline.com You may download this manual by pressing Download button on product page.

2. Specifications:

- Resolution: Main camera: 3840x2160 (30fps)
  Rear camera: 1920x1080 (30fps)
- View angle: Main camera: 155°
  Rear camera: 145°
- Rear camera cable length: 6.5 m
- Content control via Wi-Fi (App for iOS and Android)
- Real-time tracking of the device's location via GPS
- Live video streaming
- Parking mode
- Shock, anti-theft, geofence, over-speed alarms
- Built-in supercapacitor
- MicroSD card up to 512 GB
- Input voltage: DC 5V, 2A
- Operating temperature: -20°C to +65°C
- Storage temperature: -30°C to +80°C
- Dimensions:
  Main cameras: 109 x 33 x 54 mm,
  Rear camera: 55 x 27 x 34 mm
- Weight: 147 g

The DVR is designed to operate under a wide range of temperatures. Unlike a battery, a supercapacitor is more durable and can work more efficiently both at low and high ambient temperatures.

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3. Equipment








- Neoline Pulse 4K dash camera
- Rear camera
- GPS antenna
- Rear camera extension cable 6,5 m
- Holder with 3M tape
- 3 pin fuse cord with low battery protection
- Glass protection sheet
- Manual

4. Product Description

Main key:
Wi-Fi ON&OFF - Press 3 seconds to disable / enable Wi-Fi.
Wi-Fi Restart - press 10 seconds.
Mic: Microphone.
R Key: Press to reset and restart the device.



SIM card and Micro SD card:
Insert SIM card and the Micro SD card as shown in the picture, maximum support 512GB Micro SD Card.



Note: Insert SIM Card only when the device is power off.

5. Installation

Installation on the windshield

- Choose the installation location in advance, as the adhesive tape on the mount is of single use. The included glass protection sheet can be used in addition.

- Degrease the mounting location and warm it up to ensure strong adhesion.

- Place the video recorder on the mount and switch on the video recorder. Make sure that the horizontal is kept and the lens captures the image symmetrically both on the left and right when evaluating the display image. Then remove the protective sheet from the surface of the adhesive tape and press the holder against the windscreen.

Note: Please ensure proper placement of the device before attaching it, so that nothing obstructs its removal or reattachment, such as the rear-view mirror.

Installation steps

1. Insert the SIM Card and Micro SD Card into the Slots. (**Note** the direction.)
2. Stick the base bracket onto the front windshield (**Note** the direction and position.)
3. Connect the Power cable with 4G Cloud Dash Camera and Car power fuse box (Note the difference between Power Supply(B+) and ACC, GND is connected to the car metal part.)

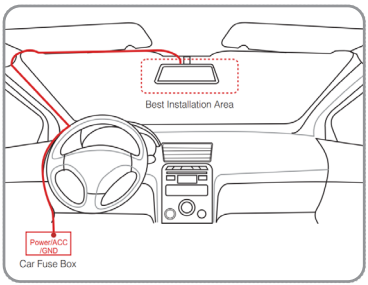
Adjusting the viewing angle

NOTE! Adjusting the viewing angle can only be done along the vertical line, so be sure to position the device correctly on the windshield along the horizontal line as close as possible to the windshield's center.
While pulling or pushing the device in the holder, ensure that the camera captures the image in proportion of 30% sky / 70% road.

Note: The lens of the video recorder can rotate up to 80 degrees.

Power connection

Use only the power adapter included to power the device and charge the battery. Connect the power cable to the DVR, then connect power cable in to the car fues box.
The device turns on automatically when the car engine starts.



Note!
For best view, the device should be installed near the rear-view mirror in the center top of the windshield. Please ensure that the camera captures the image in proportion of 30% sky/ 70% road to get the best record.

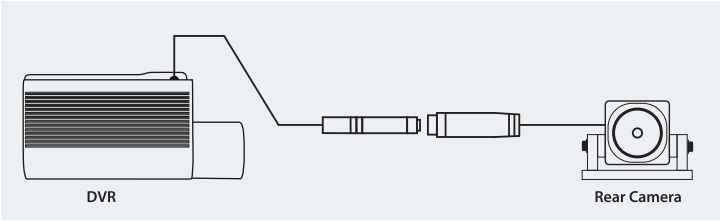
Dismounting

Hold the video recorder at the bottom and slide it to the left.

Rear Camera Connection

Use the rear camera connector with the DVR.

NOTE! The rear camera is designed only to record events behind the car and cannot be used as a parking camera.



Setting the rear camera FOV angle

Please determine in advance a location for installation of the rear camera inside or outside the vehicle (bumper, license plate bracket, etc.).
Please try to put the camera in the center to get the best FOV. Determine the optimal angle of the camera based on the DVR image, fix the position of the camera, mount it and then screw it hard using the screws provided.

6. Device Operation

Loop recording

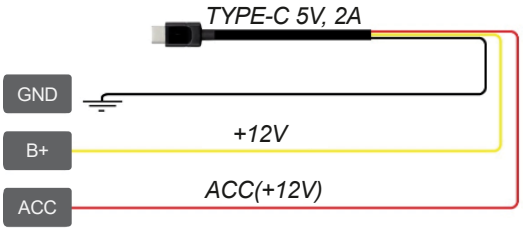
1) Please insert the microSD card into the memory card slot; the Loop Recording mode turns on automatically.
2) It is recommended to set a 3-minute cycle (see Settings).
3) The device will automatically replace the oldest video file with the newest one when there is no more space left on the memory card; exception is the files

protected from deletion.
4) Loop records are stored in F _Driving and R_Driving folders, one for each camera.

Parking mode

To activate the parking mode, you will need to connect a original cable (check the package information on the box), which will allow you to activate Time Lapse or emergency recording while the engine is off. Loop recording is not available in parking mode. Emergency recording begins 5 seconds after the G-Sensor is triggered.

Attention! Route the power cable to the fuse block as shown in the scheme below. The function will not work if the connection is incorrect!



Connect the BATT (+) power cord to the source providing stable 12V voltage.
Connect the ACC cord to the power source (ignition circuit).
Connect the GND (-) cord to the car earth.

7. Application settings

APP download and installation

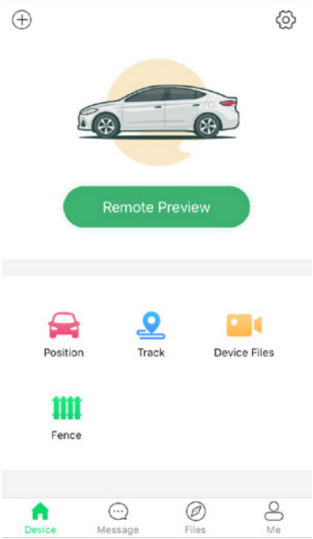
Please scan QR code by smart phone (iOS & ANdroid), download and install APP “iCloudCar”, or search “iCloudCar” from App Store and Google Play to download and install directly.

iOS APP

Android APP

Main Interface

Open APP, when the device isn’t conecetd, the main interface is as in the picture:



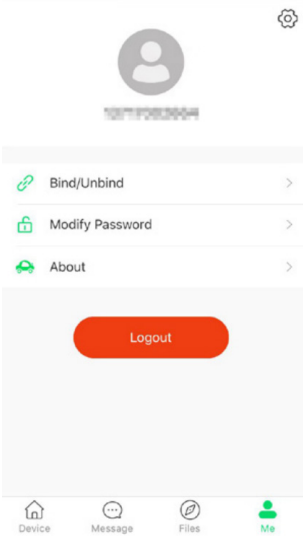
Real-time Video Preview

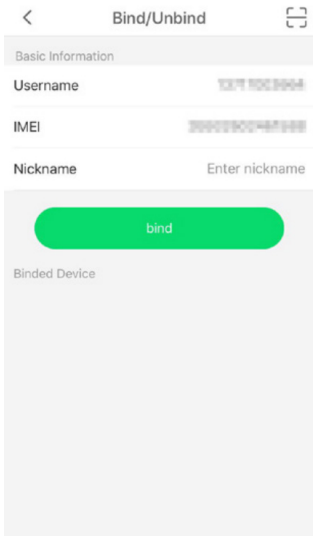
Wi-Fi connect/Remotely connect and Device pairing:

1. Wi-Fi connect: Press the main key for 3 second to enable Wi-Fi, searching Wi-Fi on phone, find the Wi-Fi hotspot named by the last four digits of the device IMEI number. Default password: 12345678, then connect.
2. Remote connection and device pairing: Scan or type in the IMEI number, then pair the device.

Note: Login the account before pairing the device.

The steps are as shown below:





Preview:

After connecting, click on the play button in the video viewer window, and it will be displayed (as in the image below), with the functions corresponding to the icons shown below:



1. GPS Signal
2. Micro SD Card Icon
3. Cloud Server Icon
4. SIM Card Signal
5. “Take Picture” button
6. “Video Record” button
7. Switching between front and rear cameras
8. “Full Screen” button
9. Exit

GPS Signal: The device detected the GPS location.

Micro SD Card Icon: Micro SD Card detected.

Cloud Server Icon: Connected with cloud server.

SIM Card Signal: Sim Card signal value strength.

“Take Picture” button: Click the button to save the current image to the phone. User can check it from “Images” of “Files”.

“Video Record” button: Click the button for video record to save the video to the phone. User can check it from “Video” of “Files”.

Switching between front and rear cameras: When connecting rear camera, click the button to switch front and rear camera preview.

“Full Screen” button: Click it to change preview image into full screen.

Exit: Click the button to return to the main menu.

Position

Click “Position” on the main interface. User can get the current GPS location information and the real-time picture of the device.





Playback

Click “Device Files” on the main interface, to check the record files in the Micro SD card.

- **Normal:** Normal Driving Record (F: Front Camera, R: Rear Camera.
- **Event:** Important Records. Collision recordings, recordings of theft incidents, SOS alert recordings.
- **Parking:** Parking Record (Time-Lapse photos of recordings)
- **Photo:** Alarm Picture

Note: User can playback the video in both Wi-Fi and Remote mode.



Track

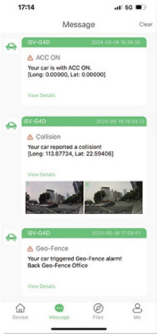
Click “Track” on the main interface. User can view the track record of driving. Save track records for up to one month.



Geo-Fence

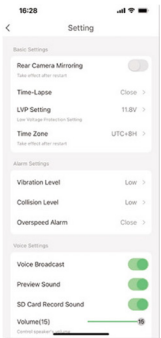
Click “Geo-Fence” on the main interface, to access to the interface of setting Geo-Fence. As shown in the picture.

Click “Draw” to set up a Geo-Fence in the corresponding area on the map, can set 5 pcs Geo-Fence mostly. When the car enter in or out of the Geo-Fence area, there will be alarm message on the APP.



Message

Click “Message” on the main interface. User can view all the alarm message of the device, including Collision / Anti-theft / ACC ON&OFF / Geo-fence alarm / Over-speed alarm message.



Setting Menu

Click “⚙” on the main interface, then user can modify device parameter. As shown in the picture.

TM-Lapse: Time-lapse function ON / OFF. After turning off ACC, the dash cam records 1 frame per second. Recording duration including 8 / 12 / 24 / 48 Hours or Unlimited.
Note: Leaving the recording indefinitely in this setting “Unlimited” can lead to a risk of draining the car battery.

LVP Setting: Low Voltage Protection Setting - the device will shut down once the Vehicle Voltage is lower than the set LVP Voltage.
Note: Recommended default value.

Time Zone: Set the local Time Zone on the device.

Vibration Level: Low / Middle / High. The anti-theft alarm is activated in Parking mode.

Collision Level: Low / Middle / High. The collision alarm is activated in driving mode.

Voice Broadcast: ON / OFF.

Preview Sound: Remote Preview Sound ON / OFF.

SD Card Record Sound: Recording sound ON / OFF

APN: Set the correct network APN.

SD Card Formatting: Format Micro SD Card.

Device Infomation: Check the device GPS information / SD Card / IMEI Number / Software Version. Hold down "Device Information" for 3 seconds to access the device set-up menu.

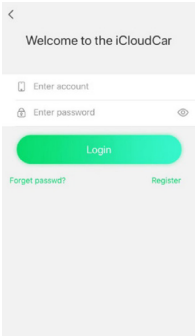
Device Self-Checking: Check the configuration of the device, including SIM Card / SD Card/ GPS / GSM Signal / Cloud Server / ACC / Vehicle Voltage.

Files



Cilck “Files” on the main interface, then you can view the files which saved in the phone. As shown in the picture.

Click “Select” button in the upper right corner, then user can delete the file.



User Center

User Login

It require to login the account for remotely connect.
1. The account must contain only numbers, not less than 6 digits.
2. The password must be a numbers or letters, with a minimum of 6 characters.

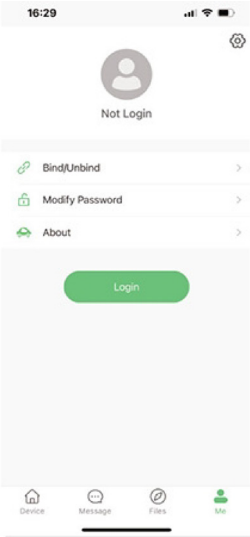
Personal Center

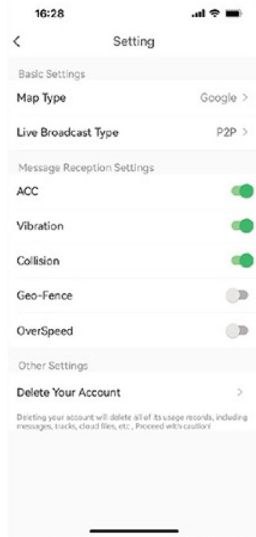
Click “Me” to personal center.
Setting: Setting parameters for linked accounts.
1. Map Type: Google / Leaflet / AMap Map Optional.
2. Message Reception Settings: ACC / Vibration / Collision / SOS / Geo-Fence / Speeding On / Off alarm message related to account setting.
3. Delete account.

Bind / Unbind: Bind / Unbind the IMEI number of the device.

Modify Password: Change the password for the login account.

About: To check the app version information.





8. Troubleshooting

This section helps you to eliminate problems the device may have under normal operation.

- Failure to photograph/record video.

Check if there is enough free space on the microSD card and if it is not blocked.

- Spontaneous stop at recording.

Too many video files are stored. Use at least class 10 high-speed microSD cards by proven manufacturers.

- When you try to view a photo/play a video file, the "wrong file" message appears.

File writing failure due to microSD card file system error. Format the microSD card.

- Blurred image.

Check for dirt on the lens and the CPL filter. Wipe the lens with a soft cloth before use if any (it is recommended to use special care products for the optics in order not to damage the surface of the lens).

- Darkened image when photographing the sky or water.

Too much contrast in the scene may affect the exposure. Change the exposure in the settings menu.

- Hangup (no image, no button response).

Please, press RESET button to reboot the device.



This sign on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headphones, USB cable) must not be disposed of with other household waste after their lifetime. To avoid potential damage to the environment or human health due to uncontrolled waste disposal, separate these items from other types of waste and recycle them in a responsible way to promote the sustainable recycling and reuse of material resources. Household consumers should contact the retailer where they bought the product or their local authority to find out where and how they can take these products for environmentally safe recycling. Business users should contact their supplier to check the terms of the purchase agreement. This product and its electronic accessories must not be mixed with other commercial waste.

CE EAC FC RoHS

Manufacturer for "Neolainas" LTD
Vilnius, Lithuania

Made in PRC

Technical support: support@neoline.com

Warranty: 24 months

5V DC, 2 A
Operating temperature: -20 ° to +65 ° C