



NEOLINE

NEOLINE G-TECH X83
CAR DIGITAL VIDEO RECORDER



User Manual

Dear customer!

Thank you for purchasing the Neoline G-Tech X83 car digital video recorder! 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. Operating Conditions

- Please read the warranty terms carefully.
- Never insert or remove a memory card while the DVR is on. It may cause damage to the device and recorded video files.
- Use only high-quality microSD cards of at least Class 10 providing for the UHS-I communication to avoid recording failures and playback delays.
- It is recommended to use 8GB to 128GB memory cards.
- 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.

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

- 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.
- The 3M Adhesive Tape holder is designed for permanent installation. So, please determine the location of the video recorder in advance.
- 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 ARE NOT responsible for any damage or data loss 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.
- In accordance with local law, do not manipulate the device while driving to be sure you are driving safe.
- Set the time zone before using the device. Set the correct date and time if necessary.
- Heating of the case during operation is normal.
- Please handle the device with due care and 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. You can download the most up-to-date version of this manual at the official website www.neoline.com
Please see the page of a specific product.

2. Specifications

- Video resolution: 2592x1520, 30 fps with HDR
- Codec: H.265 / H.264
- Viewing angle: 150°
- Lens aperture: F1.5
- Display: IPS, 2.45", touchscreen
- Built-in supercapacitor*
- Magnetic mount with active charging
- Built-in microphone/speaker
- Triaxial shock accelerometer (G-sensor)
- Parking mode

- Motion sensor
- Loop recording
- Continuous recording
- Auto switch-off
- Date/time stamp
- State number stamp
- 8GB to 128GB MicroSD (Class 10)
- Storage temperature: -20° to +70°
- Operating temperature: -10° to +60°
- Power cable connector: USB, Type-C
- Input voltage: 5VDC, 2A
- Charging input voltage: 12-24VDC
- Dimensions: 78*36*44 mm
- Weight: 75g

*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.

This user manual is valid at the time of printing. The current version of the instructions can be found at www.neoline.com in the Download section.

3. List of Equipment:

- Neoline G-Tech X83 DVR
- Mount holder with active power supply (3M adhesive tape)
- USB Charger
- User Manual
- Warranty Card



4. DVR/Buttons Description



1. USB Type-C connector
2. ON / OFF key
3. Memory card slot
4. Contact area
5. Lens
6. Speaker

7. Microphone
8. Touchscreen display
9. Operation indicator
10. USB Type-C connector
11. Contact area

Description of the Keys

Key	Description
ON/OFF (It is active only when external power is connected)	Press and hold to turn the device on/off. Press to stop/start recording in Video Recording mode.

Touchpad

You can control the settings and functions of the DVR using this touch panel. Press the touch screen after turning on the device, and 3 icons will appear on the display.



	Tap the icon to stop/resume video recording
	Tap the icon to save the current frame as a photo.
	While recording a video, tap to prevent a section of the video file from overwriting. CAUTION! This file is stored in the Event folder. Tap the icon to enter the settings menu after stopping video recording.

Navigating the Device Menu

After entering the settings menu, a submenu will appear on the screen:



	Tap the icon to access Video Settings.
	Tap the icon to access System Settings.
	Tap the icon to view files on the memory card.
	Tap the icon to return to the Main Screen.

Operation Description

Status	Description
Flashing blue	Recording
No display	Recording stopped
Blinking blue	Updating the firmware

5. Mounting the DVR

Installation on the windshield

Please determine the location of the video recorder in advance. Hold the holder base firmly and secure it to the windshield.



CAUTION! 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 centre.

Adjusting the Viewing Angle

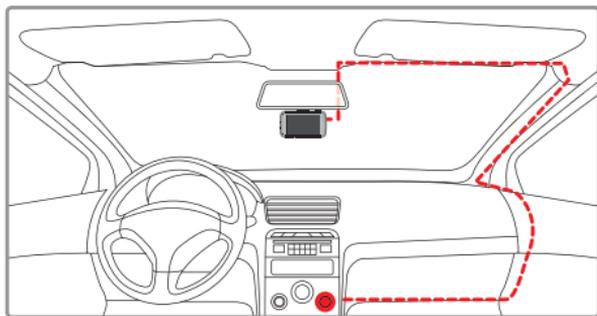
To get the best record, ensure that the camera captures the image in a proportion of 30% sky / 70% road. Fix the position of the holder after adjusting the viewing angle along the vertical line.



Power connection

Use only the power adapter included to power the device and to charge the battery. Connect the power cable to the mount or DVR, and then plug the charger plug into the car's cigarette lighter/socket.

When the car engine starts, the device turns on automatically.



Note:

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

6. DVR Operation

Device preparation

A. Insert the microSD card into the memory card slot.

Turn off the device before installing a memory card; insert the memory card until it is locked.

Installing the card:

Turn the microSD card to the slot as shown in the picture and insert it until it clicks.

Removing a card:

Press the card slightly and then remove it from the slot.



CAUTION! Attempting to insert a memory card wrong may damage the device and/or the memory card itself. Make sure the memory card is in the correct position.

Warning: Do not apply excessive force when inserting a memory card to avoid damage to the device. To insert a memory card, insert the microSD card into the slot until it locks (clicks); if necessary, use a needle to push the card further. To remove the memory card, push the card until it clicks and remove the card from the slot, if necessary, use a needle to push the card.

Turning the Device ON/OFF

When the car engine starts, the device turns on automatically.

Turning ON/OFF

Press and hold the power key for 3 seconds to turn on the device manually.

Press and hold the power button for 3 seconds to turn the device off.



Loop recording

- 1) Insert the microSD card into the memory card slot; the Loop Recording mode turns on automatically.
- 2) Set the duration of video recordings in the appropriate section of the menu of Loop recording. It is recommended to set a 3-minute cycle (see Settings).
- 3) When there is no more space left on the memory card, the device will automatically replace the oldest video file with the newest one; an exception is the files protected from deletion.
- 4) The video recordings taken in Loop Recording mode are stored in the Video folder.

Emergency recording

The Emergency recording is designed to create a video file protected from overwriting and deletion. Tap the icon during video recording to create such a video file. Now the current video file is marked to prevent it from being deleted/overwritten.

The recording status of this file (timeline) is displayed at the bottom of the screen

2021-03-04 14:05:37

The Emergency recording is activated automatically when the G-sensor triggers (sudden acceleration/deceleration), or at a collision. The Emergency recording is locked automatically to avoid erasing during loop recording. The files protected

from overwriting are stored on the memory card in the Event folder.

Updating the firmware

- 1) Please download the firmware file at www.neoline.com and extract the file.
- 2) Then format the memory card and move the extracted file(s) to the microSD memory card.
- 3) Insert the memory card with the file into the DVR memory card slot.
- 4) Press and hold the ON/OFF key meanwhile connecting the device to the power source.
- 5) While the firmware file is downloading, the indicator flashes.) Release the ON/OFF key.
- 6) Once the update is complete, the device restarts automatically.
- 7) Enter Settings menu and check whether the correct firmware version is displayed)
- 8) Format the memory card (use the DVR menu).

CAUTION! Do not turn off the DVR power during the firmware update.

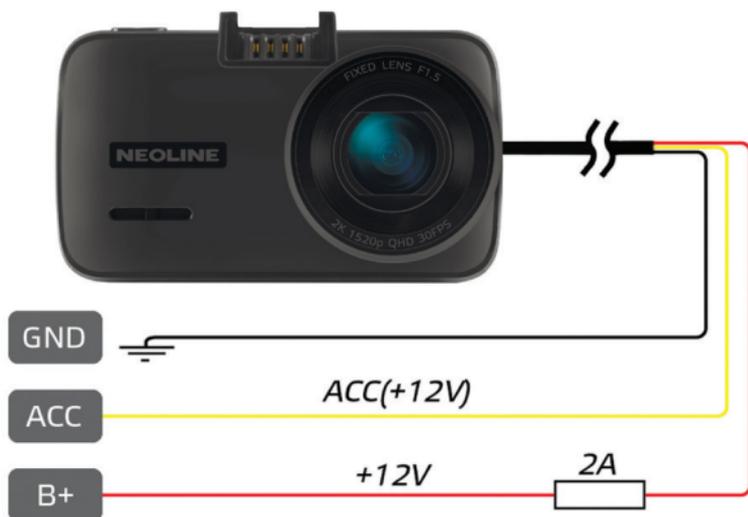


Parking mode

CAUTION! The device can be used in Parking mode when it is connected to the vehicle's auxiliary power outlet using the Neoline Fuse Cord X81/X83.

You can purchase this cable at the official online store www.neoline.com or at any authorized retailer.

Wiring Diagram— Connecting Device via Fuse Cord X81/83



When the ignition is turned off, provided that the connection is correct, the device will enter the Standby mode, following the G-sensor (shock sensor). When the G-sensor is triggered, the device will turn on and start recording.

The first 30 seconds of video recording after triggering is recorded into the Event folder, and the following videos are saved in the VIDEO folder. Recording will continue as long as the G-sensor is repeatedly triggered after switching on the Video Recording mode instead of the Standby mode. The device will enter the Standby mode if the G-sensor is not triggered for 1 minute.

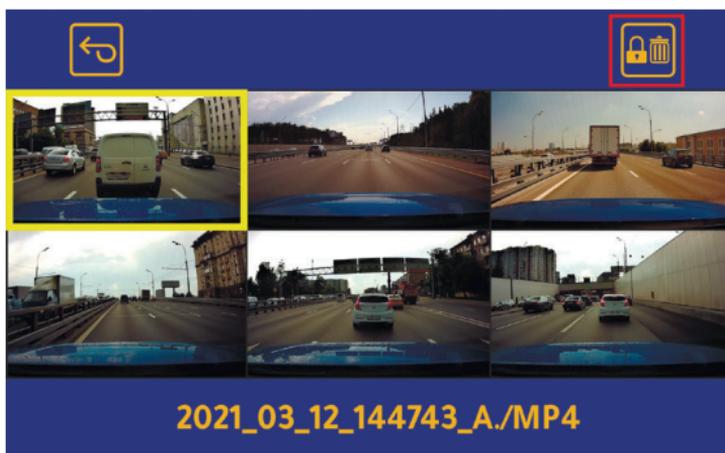
Playback/Delete Files

Playback

Go to the View Files menu when in standby mode and select one of the available folders to view the files: Event (for emergency recording), Video (for normal recording), Photo. Select the file to view using the touch panel and touch the file icon to start its playback. Tap the touchscreen to pause/resume playback. Swipe right to speed up playback (x1, x2, x4, x8). Tap  to return to the previous menu.

Deletion

While viewing a list of files in one of 3 folders, tap in the upper right corner



The following options will appear: Delete files. When entering this menu item, the user can delete all files or only the file that selected when the icon was tapped.



Lock (for the Video folder). When entering this menu item, the user can lock the current file, i.e. make it unrecordable. In this case, such a file will be moved to the Event folder.

Unlock (for the Event folder). When entering this menu item, the user can unlock the current file, i.e. make it recordable. In this case, such a file will be moved to the Video folder.

Note:

Deleted files cannot be restored. Backup all necessary files before deletion.

Menu Items

Video Settings

- Video resolution
- Video codec
- Loop recording
- Sound recording
- G-sensor
- WDR
- Exposition
- Reg.number (slide your finger up or down the corresponding block to select the desired character and enter the number)
- Parking mode
- Image rotation
- Interval recording
- Stamp

System Settings

- Language
- Formatting
- Time and date
- Time zone
- Speed units
- Auto display off
- Sound

- Auto power off
- Reset
- System information

View Files

- Event
- Video
- Photo

7. Troubleshooting

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

- **Cannot take pictures/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 stored. Only use at least class 10 high-speed microSD cards by proven manufacturers.

- **"Wrong file" message appears when trying to view a photo/play a video file**

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

- **Blurred image**

Check the lens for dirt and greasy fingerprints. If there is any, wipe the lens with a soft cloth before use (it is recommended to use special care products for the optics in order not to damage the surface of the lens).

- **Darkened image when taking pictures of the sky or water.**

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



Manufactured for "Neolainas" LTD Vilnius, Lithuania
Made in PRC

Official site: www.neoline.com
Tech.Support: support@neoline.com

Warranty: 24 month

5V DC, 1.5A
Operation environment temperature: -10 ° C...+60 ° C

Importer and authorized service organization:
please see the package