

INTRODUCTION

Congratulations on purchasing your Minolta Camcorder! The contents of this manual are subject to change without notice. Note that the example screens and product illustrations shown in this User's Guide may differ somewhat from the screens and configuration of the actual camera. Please visit our website at www.minoltadigital.com for the latest updates.

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The Minolta MNCD450 Car Camcorder integrates multi-functions of 1080p HD video capture, high resolution photo capture and a compact form factor. It adopts video decoding technology of high performance and compression ratios to deliver excellent video quality. This camcorder is intended for in-vehicle shooting, which effectively enables the collection of evidence for driving accidents, daily life, traveling and outdoor activities. The Minolta MNCD450 allows you to record video when mounted to your car's windshield in a wide, large angle. This quick guide explains how to use your camcorder and provides additional information, including precautions and technical specifications. Please read through it carefully and understand this quick guide before use. Keep it properly stored away for reference.

Safety and Handling Precautions

- Do not take apart or attempt to service the camcorder yourself.
- Do not expose the camcorder to moisture, or extreme temperatures.
- Allow the camera to warm up when moving from cold to warm temperatures.
- Do not touch and put pressure on the camera lens.
- Do not expose the lens to direct sunlight for extended periods.
- Do not use abrasive chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.
- When the camera is used for an extended period of time, it is normal for the camera body to feel warm.
- Do not subject the LCD monitor to impact.
- To prevent the risk of fire or electric shock, do not expose this appliance to rain or moisture.

1. GETTING STARTED

1.1 Overview



1	Display
2	Power Mode
3	Up
4	OK Record
5	Down
6	Menu
7	Microphone

8	USB Port
9	LED Flash Light
10	Mount Port
11	Memory Card Slot
12	Speaker
13	Lens
14	Reset Button



1.2 Button and Functions Explanation

Button	Function	Description
1	Display	Shows the current view and menu, options and different statuses of each mode.
2	Power Mode	Press for 3 seconds to power on or off. Tap once to cycle between Video, Photo and Playback modes.
3	Up	Button used during menu navigation and playback use.
4	OK Record	OK button in menus. Record button in shooting modes.
5	Down	Button used during menu navigation and playback use.
6	Menu	Button used for accessing and exiting all menus and submenus.
7	Microphone	Built-in microphone for audio capture during video recording.
8	USB Port	Power port and data transfer port for transferring media to your computer.
9	LED Light	LED to aid with additional lighting.
10	Mount Port	Mount port for attaching the windshield suction cup mount.
11	Memory Card Slot	Storage slot for inserting your MicroSD memory card.
12	Speaker	Built-in speaker output for playback of video files when audio recording is enabled.
13	Lens	Front capture device for all video and photo.
14	Reset Button	Button for power cycling your camcorder if it freezes or becomes unresponsive

1.3 Memory Card Insertion and Removal

1. Ensure the camcorder is powered off.
2. Insert a MicroSD memory card into the MicroSD card slot with the gold pins facing the display screen. Do not force it through the MicroSD card into the slot as it can only be inserted in one direction. Once successfully inserted, it will click in.
3. To remove the MicroSD card, simply push the MicroSD card in and it will bounce back out of the slot.

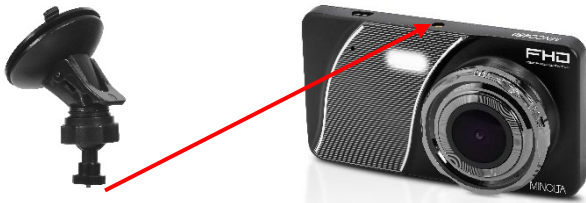


Do not remove or insert the memory card when recording. Doing so may cause the card to become damaged or cause data loss.

1.4 Windshield Suction Cup Mount

The included windshield mount is included for mounting your camcorder to your windshield. Simply screw in the mount's adaptor clockwise to fasten it to your dashcam, or counterclockwise to loosen it from the dashcam. Apply the suction cup side to the top of your windshield. Before applying to your windshield, make sure that your windshield is clean and free of any dirt or debris.

NOTE: If the suction cup loses its grip over time, thoroughly clean the clear suction are with soap and water. After cleaning, allow it to dry for 2 hours and reapply it to your windshield.



1.5 Startup

1.5.1 In-Car Use

Connect the included auxiliary DC power adaptor to your car's power port. Plug the USB plug into the camcorder's USB port. Charging will begin immediately. Please note that the camcorder's internal battery has a very limited capacity and is only intended for use in emergency use situations.

1.5.2 USB Cord / Computer Use

Connect the included USB cable to a free USB port on your computer, and connect the other end of the cable into the camcorder's USB port. The battery may be charged while the camcorder is powered on or off.

While charging, the LCD monitor will display the battery's status as follows:



Dashcam is connected to auxiliary power and battery is fully charged.



Dashcam is connected to auxiliary power and is charging.



Dashcam is disconnected from auxiliary power and running on battery.

2. USING YOUR CAMCORDER

Quick Use Instructions

Simply insert the memory card into the card slot, and insert the auxiliary power adaptor into the camcorder's USB port and your car's power port. The camcorder will automatically power on and begin recording a video file.

To start or stop recording at any time, press the **OK** button. You may also remove the auxiliary DC power adaptor at any time to automatically save a recording and power the camcorder off. Just mount it to your windshield, plug in the power and drive!

3. CAMCORDER OPERATION

Once you have inserted the MicroSD memory card and plugged your camcorder into a power source, your camcorder will automatically power on. You may also manually power your camcorder on or off by pressing the **POWER** button for 3 seconds.

There are 3 operation modes available for use. To cycle through the different modes, simply short press the **POWER / MODE** button. Your camcorder's screen will show the current mode in the display's upper left corner. **Modes cannot change while a video is being recorded. The recording must stop first before changing to another mode.**

3.1 Video Capture Mode



Once your camcorder powers on, it will default to Video Mode and will begin recording automatically. To start or stop recording at any time, press the **OK** button. To manually capture video when changing from another capture mode, enter VIDEO Mode and press the **OK** button to begin recording video again.

3.2 Photo Capture Mode



To capture a photo, enter PHOTO Mode by short pressing the **POWER / MODE** button until a camera icon is shown in the upper left hand corner of the screen. Press the **OK** button to instantly capture a photo. You may also capture a photo during a video recording by pressing the **UP** button.

3.3 Playback Mode



To review your video and photo files, enter PLAYBACK Mode. Short press the **POWER / MODE** button until a previously captured file is shown on the screen. The most recent file captured will be displayed first.

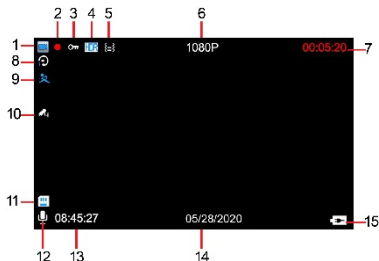
- Press the **UP** and **DOWN** buttons to cycle through available playback files of photos and videos.
- To delete a file or to protect a file from deletion, press the **MENU** button.
- Press the **POWER / MODE** button again to exit PLAYBACK mode.

Playing Back Video Clips

- Press the **OK** button to play or pause a video clip in PLAYBACK mode.
- To delete a file or to protect a file from deletion, press the **MENU** button.

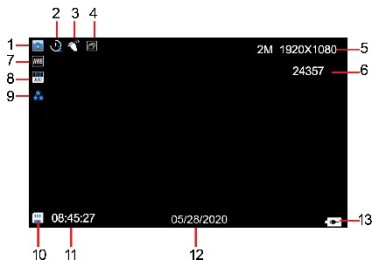
3.4 Main Screen and Icons Explanation

VIDEO MODE



1. **VIDEO** Mode
2. Recording Active
3. Gravity Sensor Enabled
4. High Dynamic Range (HDR)
5. Collision Sensitivity
6. Video Size (Resolution)
7. Recording Time Elapsed
8. Loop Recording Enabled
9. Motion Detection Enabled
10. Parking Guard
11. Memory Card Inserted
12. Microphone Enabled
13. Current Time
14. Current Date
15. Power Status

PHOTO MODE



1. **PHOTO** Mode
2. Self-Timer Delay
3. Image Stabilization Status
4. Photo Burst
5. Picture Size (Resolution)
6. Number of Pictures Remaining
7. Automatic White Balance
8. Automatic ISO Enabled
9. Current Image Quality
10. Memory Card Inserted
11. Current Time
12. Current Date
13. Power Status

4. MENU & SETTINGS INTERFACE

4.1 Video Mode Settings

Overview

Your camcorder comes preset with some user-adjustable settings to fine tune and customize how you would like your videos to be captured. The settings are already optimized and preset for the easiest experience.

Before you begin, ensure you are in VIDEO mode . From the main screen, short press the **POWER / MODE** button once. The current mode will be displayed in the upper left corner of the display. To cycle through the different modes, simply short press the **POWER / MODE** button again.

NOTE: *The settings menu cannot be accessed while the camcorder is recording a video file. If the camcorder is recording a file, you must stop recording before the settings menu can be accessed. To stop recording at any time, press the **OK** button.*

4.1.1 Video Resolution

Your camcorder has a number of preset resolution and frames per second rates. A higher resolution will produce a higher quality and larger video file.

1. In VIDEO mode, press the **MENU** button. Select 'Video Resolution' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the 'Video Resolution' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from 1080p (highest quality), 720p (medium quality), and 480p (low quality).
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.1.2 Loop Recording

This setting allows you to set a maximum duration for each video clip recorded. Once you select an option, your camcorder will record video clips in this time interval only. Once your selected duration recording time is reached, the camcorder will end the recording and begin recording a new video file seamlessly.

1. In VIDEO mode, press the **MENU** button. Select '*Loop Recording*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Loop Recording*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off*, *1 Minute Loop*, *3 Minute Loop* and *5 Minute Loop*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.1.3 High Dynamic Range

This setting allows you to turn High Dynamic Range on and off. HDR improves the range of color and contrast in a digital image and video.

1. In VIDEO mode, press the **MENU** button. Select '*High Dynamic Range*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*High Dynamic Range*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.1.4 Motion Detection

This setting automatically begins recording if movement is detected in front of the camcorder lens. Once recording, the camcorder will stop recording if not further movement is detected within a 10-second period of the last movement registered. You may also manually stop recording anytime by pressing the **OK** button during a recording.

1. In VIDEO mode, press the **MENU** button. Select '*Motion Detection*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Motion Detection*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.
4. To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

Note: When selecting *OFF*, your camcorder will still automatically record upon startup if you power it off.

4.1.5 Audio Recording

This setting allows you to set the built-in microphone ON or OFF during a video recording. Once you select an option, your camcorder will either record audio within the video file, or record a video file without audio captured.

1. In VIDEO mode, press the **MENU** button. Select '*Audio Recording*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Audio Recording*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.1.6 Date & Time Stamp

This setting allows you to imprint a date & time onto your recorded video files. Once a video file is recorded with the imprint, the imprint cannot be removed.

1. In VIDEO mode, press the **MENU** button. Select '*Date & Time Stamp*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Date & Time Stamp*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.1.7 Collision Sensitivity

This setting allows you to set the sensitivity level for automatic recording upon collision.

When triggered or when the camcorder thinks a collision occurred, it will automatically begin recording and the recording will be stored with the  icon. The video file will be locked and protected from deletion.

1. In VIDEO mode, press the **MENU** button. Select '*Collision Sensitivity*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Collision Sensitivity*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off*, *Low*, *Medium* and *High*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.1.8 Parking Guard (Park Mode)

This setting allows the camcorder to automatically power on and record a video clip if the camcorder detects a collision while parked and is powered off. You can set the sensitivity level setting in this menu. This setting will only activate if there is sufficient battery power remaining in the camcorder's built-in battery. When triggered or when the camcorder thinks a collision occurred, it will automatically begin recording and the recording will be stored with the  icon. The video file will be locked and protected from deletion.

1. In VIDEO mode, press the **MENU** button. Select '*Parking Guard*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Parking Guard*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

Note: When selecting *Off*, your camcorder will still automatically record upon startup if you power it off.

4.1.9 Headlight Monitor

This setting will alert you to turn on your car's headlights if the road appears too dark.

1. In VIDEO mode, press the **MENU** button. Select '*Headlight Monitor*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Headlight Monitor*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2 Photo Mode Settings



Overview

Your camcorder comes preset with some user-adjustable settings to fine tune and customize how you would like your photos to be captured. The settings are already optimized and preset for the easiest experience.

Before you begin, ensure you are in PHOTO mode . From the main screen, short press the **POWER** button once. The current mode will be displayed in the upper right corner of the display. To cycle through the different modes, simply short press the **POWER** button again.

NOTE: The settings menu cannot be accessed while the camcorder is recording a video file. If the camcorder is recording a file, you must stop recording before the settings menu can be accessed. To stop recording at any time, press the OK button.

4.2.1 Photo Resolution

Your camcorder has a number of preset photo resolution sizes. A higher resolution will produce a higher quality and larger file size photo.

1. In PHOTO mode, press the **MENU** button. Select 'Resolution' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the 'Resolution' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *12 Mega Pixels* (highest quality), *10 Mega Pixels*, *8 Mega Pixels*, and *5 Mega Pixels* (lowest quality).
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.2 Photo Burst

This setting allows the camcorder to take 3 consecutive pictures at once.

1. In PHOTO mode, press the **MENU** button. Select 'Photo Burst' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the 'Photo Burst' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Off* and *3 Photos*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.3 Photo Quality

This setting determines the level of compression the camera uses when saving photos to your memory card. A high level of compression will produce a lower quality photo, and will also use less space when saving your photos.

1. In PHOTO mode, press the **MENU** button. Select '*Photo Quality*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Photo Quality*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Fine* (highest quality), *Normal*, and *Economy* (lowest quality).
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.4 Photo Sharpness

This setting determines the visible detail of the photos being captured.

1. In PHOTO mode, press the **MENU** button. Select '*Photo Sharpness*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Photo Sharpness*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Strong* (sharp, saturated photo), *Normal* (medium sharpness), and *Soft* (soft, duller photo).
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.5 White Balance

This setting determines the color of light present in your photos. It can make scenes seem warmer or cooler in lighting depending on how the scene you're shooting in affects the frame.

1. In PHOTO mode, press the **MENU** button. Select '*White Balance*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*White Balance*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Auto*, *Daylight*, *Cloudy*, *Tungsten*, and *Fluorescent*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.6 Photo Color Filter

This setting determines the filter color effect of the photo.

1. In PHOTO mode, press the **MENU** button. Select '*Photo Color Filter*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Photo Color Filter*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Normal*, *Black and White*, and *Sepia*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.7 ISO

This setting determines the light sensitivity in the photos being captured.

1. In PHOTO mode, press the **MENU** button. Select '*ISO*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*ISO*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Auto*, *100*, *200* and *400*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.8 Image Stabilization

This setting enables image capture in shaky or low-light settings by electronically eliminating motion blur and canceling shake.

1. In PHOTO mode, press the **MENU** button. Select '*Image Stabilization*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Image Stabilization*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.9 Quick Review

This setting allows you to review the photo after it's taken before returning back to Photo Mode.

1. In PHOTO mode, press the **MENU** button. Select '*Quick Review*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Quick Review*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off*, *2 Seconds* and *5 Seconds*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.10 Self-Timer

This setting enables the camcorder to capture a photo using a preset count down.

1. In PHOTO mode, press the **MENU** button. Select '*Self-Timer*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Self-Timer*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off*, *2s Delay*, *5s Delay*, and *10s Delay*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.2.11 Date & Time Stamp

This setting allows you to imprint a date & time onto your captured photos. Once a photo is captured with the imprint, the imprint cannot be removed.

1. In PHOTO mode, press the **MENU** button. Select '*Date & Time Stamp*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Date & Time Stamp*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.3 Playback Mode Settings



Overview

Before you begin, ensure you are in **PLAYBACK** mode . From the main screen, press the **POWER / MODE** button three times. The current mode will be displayed in the upper right corner of the display. To cycle through the different modes, simply press the **MODE** button again.

4.3.1 Delete

Your camcorder gives you the option of deleting your recording video and photo files right from your camcorder.

1. In **PLAYBACK** mode, press the **MENU** button. Select '*Delete*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Delete*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Delete Current?* and *Delete All?*
3. Press the **OK** button to confirm your selected setting.
4. Press the **MENU** button to exit the menu without deleting any images.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

NOTE: There is no way to recover deleted media. Once you delete a single file or all files, they cannot be recovered. Only files that are locked are protected from deletion in **PLAYBACK** mode.

4.3.2 File Lock

Your camcorder gives you the option of protecting your recording video and photo files right from your camcorder. This will lock your files and prevent them from being deleted in **PLAYBACK** mode.

1. In **PLAYBACK** mode, press the **MENU** button. Select '*File Lock*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*File Lock*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *Lock Current*, *Unlock Current*, *Lock All* and *Unlock All*.
3. Press the **OK** button to confirm your selected setting.
4. Press the **MENU** button to exit the menu without making a selection.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.4 Setup Settings Menu

Overview

The Setup Settings Menu can be accessed while in any mode. From the main screen, press the **MENU** button twice. The menu will move right and switch tabs from the current mode's icon to the  Setup Settings menu.

NOTE: The settings menu cannot be accessed while the camcorder is recording a video file. If the camcorder is recording a file, you must stop recording before the settings menu can be accessed. To stop recording at any time, press the OK button.

4.4.1 LED Flash

This setting controls the LED photo light for your dashcam.

1. In any mode, press the **MENU** button twice. Select '**LED Flash**' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '**LED Flash**' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Off*, *On* and *Auto*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.4.2 Screen Auto Shut Off

This settings allows you to set the length of time before the LCD Screen turns off automatically.

1. In any mode, press the **MENU** button twice. Select '**Screen Auto Shut Off**' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '**Screen Auto Shut Off**' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Off*, *1 Minute*, *3 Minutes* and *5 Minutes*.
3. Press the **OK** button to confirm your selected setting.
4. After the selected amount of time the screen will power off. To wake the screen back on, press any button.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.4.3 Frequency

This setting allows you to set the power frequency of your camcorder. This setting is dependent on the region that the camcorder is being used in.

1. In any mode, press the **MENU** button twice. Select '*Frequency*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Frequency*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *50Hz* and *60Hz*. The setting for North America is *60Hz*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode

4.4.4 Beep Sound

This setting allows you to enable or disable the sound when pressing a button.

1. In any mode, press the **MENU** button twice. Select '*Beep Sound*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Beep Sound*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Off* and *On*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.4.5 Language

This setting allows you to set the language for your camcorder's menus.

1. In any mode, press the **MENU** button twice. Select '*Language*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Language*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from several different languages.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.4.6 Date & Time Setup

This setting allows you to set a date and time for display on videos and photos.

1. In any mode, press the **MENU** button twice. Select '*Date & Time Setup*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Date & Time Setup*' submenu.
2. The menu is presented as follows:

Date: MM / DD / YYYY (the date can only be displayed in this format)

Time: HH:MM:SS (the time can only be displayed in a 24-hour format)

3. Press the **UP** or **DOWN** buttons to change the any of the values of the date and time.
When you are satisfied with the highlighted value, press the **OK** button to confirm that value and proceed to the next value.

Once you are completed, press the **MENU** button twice to save your setting and exit. Your camcorder will return to the main status screen of the current mode.

4.4.7 Format Memory Card

This setting allows you to erase all video and photo files stored on your memory card.

1. In any mode, press the **MENU** button twice. Select '*Format Memory Card*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Format Memory Card*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *No* and *Yes*.
3. Press the **OK** button to confirm your selected setting.
4. To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

NOTE: Use extreme caution when accessing this setting. There is no way to recover formatted media. Once you format your memory card, the previously stored files cannot be recovered.

4.4.8 Reset To Default Settings

This setting allows you to reset all menu settings to the factory default settings. This function will not delete any media stored on your memory card.

1. In any mode, press the **MENU** button twice. Select '*Reset To Default Settings*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Reset To Default Settings*' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting.
You can select from *No* and *Yes*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

4.4.9 Firmware Version

This setting displays the current firmware version of your camcorder.

1. In any mode, press the **MENU** button twice. Select '*Firmware Version*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Firmware Version*' submenu.
2. The menu will display the current firmware version.

To exit the settings menu, press the **MENU** button twice and your camcorder will return to the main status screen of the current mode.

5. MEDIA TRANSFER & RESET

Connecting to a Computer

Connect your camcorder to a computer with the included USB cable. When the camcorder automatically powers on, it will automatically begin downloading any necessary compatibility drivers required for your camera to sync with your PC.

Your camcorder acts like a memory card reader when connected and your videos and photos stored on your dashcam memory can easily be accessed this way

To access the files on your PC, go to *Start (or File Explorer)* → *This PC* → and find *Removable Disk*. Your media will be stored in a folder on this drive.

Reset

If your camcorder freezes or becomes unresponsive, press the **RESET** button to reset and power cycle the camcorder. Insert a pointy object into the reset hole on the front body of the camcorder to fully reset it. Refer to the Section 1 of the user manual's illustration.

6. TECHNICAL SPECIFICATIONS

Model Number	MNCD450
LCD Display Screen	4.0 Inch LCD Screen (800x480 pixels resolution)
Anti-Shake Technology	Electronic Image Stabilization (Photo Mode only)
Field of View	Super wide angle; 120 Degrees
Video Resolution	1920x1080@30fps, 1280x720@30fps, 848x480@30fps
Photo Resolutions	12 Mega Pixels; 10 Mega Pixels; 8 Mega Pixels; 5 Mega Pixels;
File Format	Picture: JPEG, Video: AVI
Loop Recording	Support
Collision Auto Recording	Support
Motion Detection Recording	Support
Time & Date Stamp	Support
External Storage	MicroSD, MicroSDHC, MicroSDXC Card (64GB max.) – Class 10 Recommended
Languages	English, Spanish, Chinese (simplified), Korean, French, Hebrew, Russian
USB Function	USB 2.0 Built-in
Microphone and Speaker	Built-in
Built-in Battery	3.7v 200mAh - for use as a backup power source during power outage



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