



MNCD337N
Dash Cam



MNCD337N User Manual

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 MNCD337N 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 MNCD337N 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	In-Car Camera Cable
2	Display
3	In-Car Camera Lens
4	In-Car Camera IR LEDs
5	USB Port
6	OK Record
7	Mode
8	Lock / Unlock File
9	Power Display On/Off
10	Speaker
11	Lens
12	Windshield Mount
13	Memory Card Slot
14	Up Display View
15	Menu
16	Down
17	Reset Pinhole
18	Microphone



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1.2 Button and Functions Explanation

Function	Description
Display	Shows the current view and menu, options and different statuses of each mode.
Power	Press and hold for 3 seconds to power on and off. Tap once while power is on to turn off the display, tap again to turn the display on,
Mode	Tap once to cycle between Video, Photo and Playback modes.
Down	Button used during menu navigation and playback use. Tap to turn audio recording on and off.
OK Record	OK button in menus. Record button in shooting modes.
Up Display View	Button used during menu navigation and playback use. Tap to change the view on the LCD Display.
Menu	Button used for accessing and exiting all menus and submenus.
Lock File	Tap to protect a video while recording and in playback mode.
Microphone	Built-in microphone for audio capture during video recording.
USB Port	Power port and data transfer port for transferring media to your computer.
IR LEDs	IR LEDs to aid with night vision.
Windshield Mount	Mount used to connect the camcorder to your windshield.
Memory Card Slot	Storage slot for inserting your MicroSD memory card.
Speaker	Built-in speaker output for playback of video files when audio recording is enabled.
Lens	Front capture device for all video and photo.
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 Mount

The windshield mount is included for mounting your camcorder to your windshield. Simply attach the smaller plastic end of the mount to the top of your camcorder, make sure that the red tape covering can be seen when looking at the front of the camcorder. When picking the spot to mount the camcorder, power the camcorder on and test the location on the windshield. This will allow you to pick the spot where the camcorder does not block your view while driving and where the camcorder has the best view of the road. Once you choose the best location, make sure that your windshield is clean and free of any dirt or debris. Then peel off the red adhesive covering on the mount and press firmly onto your windshield and hold the mount for 30 seconds to ensure a strong bond.



1.5 Swivel Lens

The front lens of your dashcam can swivel and adjust to your preferred point of view. Simply move the front lens housing in any direction until satisfied with the front view. Be sure to adjust the front lens only after applying the mount and dashcam combined to your windshield and it is fixed firmly in place.

1.6 Display Mirror

The camcorder display has a mirror finish that allows you to use the camcorder as a mirror when the display is off.

NOTE: The camcorder is not and should not be used as a replacement for your car's rearview mirror.

1.7 Startup

1.7.1 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.

1.7.2 In-Car Camera

The camcorder comes with a second camera that can be attached to the camcorder. This camera is used to record the interior of your vehicle at the same time as the front camera is recording the road in front of you. The lens can be rotated allowing you to choose the best view. To attach the in-car camera to your camcorder, simply attach the smaller plastic end of the in-car camera to the bottom of your camcorder, make sure that the wire from the in-car camera is pointing towards the longer edge of the camcorder. Then plug the cable from the in-car camera into the port on the top of the camcorder. Press the **UP** button to change the view on the LCD screen to the in-car camera. Video files from the in-car camera are saved as separate files on the memory card.



1.7.3 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. The camcorder will automatically power on and show three different modes you can select from. The modes are 'Memory', where you can access stored videos and images, 'PC camera', where the camcorder will function like a web cam, and 'Video', where the camcorder will function normally. Use the **UP** or **DOWN** buttons to select your desired mode and press the **OK** button to enter that mode.

Your camcorder acts like a memory card reader when connected and your videos and photos stored on your camcorder 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.

1.7.4 Using the IR Night Vision Mode

This camcorder has built-in infrared (IR) LEDs for night vision recording - giving you the ability to capture photos and videos in a dark environment.

The infrared LEDs automatically activate when the level of ambient light is low and will turn off when the level of ambient light is high.

1.7.5 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.

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 and begin recording. Press the **OK** button to stop recording. You may also manually power your camcorder on or off by pressing the **POWER** button for 2 seconds.

There are 3 operation modes available for use. To cycle through the different modes, simply press the **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. Press the **DOWN** button to change the view of the rear camera.

3.2 Photo Capture Mode

To capture a photo, enter PHOTO Mode by pressing the **MODE** button until a camera icon is shown in the upper left corner of the screen. Press the **OK** button to instantly capture a photo.

3.3 Playback Mode

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

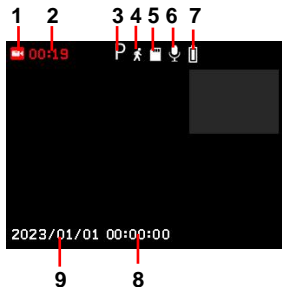
1. Press the **UP** and **DOWN** buttons to cycle through available playback files of photos and videos.
2. To delete a file or to protect a file from deletion, press the **MENU** button.
3. Press the **MODE** button again to exit PLAYBACK mode.

Playing Back Video Clips

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

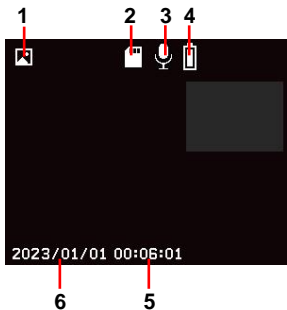
3.4 Main Screen and Icons Explanation

VIDEO MODE



1. **VIDEO** Mode
2. Recording Time Elapsed
3. Park Mode
4. Motion Detection
5. Memory Card Inserted
6. Audio Recording
7. Battery Level
8. Current Time
9. Current Date

PHOTO MODE



1. **PHOTO** Mode
2. Memory Card Inserted
3. Beep Sound
4. Battery Level
5. Current Time
6. Current Date

4. MENU & SETTINGS INTERFACE

4.1 Video & Photo 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.

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 or PHOTO modes, 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 *1080FHD* (highest quality), *1080P* (higher quality) and *720P* (lowest quality).
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button 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 or PHOTO modes, 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*, *2 Minutes*, *3 Minutes* and *5 Minutes*.
3. Press the **OK** button to confirm your selected setting.

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

4.1.3 Exposure

This function adjusts the frame brightness in your video.

1. In VIDEO or PHOTO modes, press the **MENU** button. Select 'Exposure' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the 'Exposure' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from +2.0, +5/3, +4/3, +1.0, +2/3, +1/3, +0.0, -1/3, -2/3, -1.0, -4/3, -5/3, and -2.0.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button 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 or PHOTO modes, press the **MENU** button. Select 'Motion Detection' by using the **UP** or **DOWN** buttons.
2. Press the **OK** button to turn Motion Detection on or off, a check indicates that the option is activated.

To exit the settings menu, press the **MENU** button 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 Beep Sound

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

1. In VIDEO or PHOTO modes, press the **MENU** button. Select 'Beep Sound' by using the **UP** or **DOWN** buttons.
2. Press the **OK** button to turn Beep Sound on or off, a check indicates that the option is activated.

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

4.1.6 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 a lock icon. The video file will be locked and protected from deletion.

1. In VIDEO or PHOTO modes, 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, High, Medium* and *Low*.
3. Press the **OK** button to confirm your selected setting.

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

4.1.7 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 VIDEO or PHOTO modes, 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*, *5 Mega Pixels*, *3 Mega Pixels*, *2 Mega Pixels*, *1.3 Mega Pixels*, and *VGA* (lowest quality).
3. Press the **OK** button to confirm your selected setting.

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

4.1.8 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 or PHOTO modes, press the **MENU** button. Select '*Audio Recording*' by using the **UP** or **DOWN** buttons.
2. Press the **OK** button to turn Audio Recording on or off, a check indicates that the option is activated.

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

4.1.9 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 VIDEO or PHOTO modes, 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 *Super Fine* (highest quality), *Fine*, and *Normal* (lowest quality).
 3. Press the **OK** button to confirm your selected setting.
- To exit the settings menu, press the **MENU** button and your camcorder will return to the main status screen of the current mode.

4.1.10 Photo Sharpness

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

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

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

4.1.11 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 VIDEO or PHOTO modes, 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 and your camcorder will return to the main status screen of the current mode.

4.1.12 ISO

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

1. In VIDEO or PHOTO modes, 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* and *200*.
3. Press the **OK** button to confirm your selected setting.

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

4.1.13 Image Stabilization

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

1. In VIDEO or PHOTO modes, press the **MENU** button. Select '*Image Stabilization*' by using the **UP** or **DOWN** buttons.
2. Press the **OK** button to turn Image Stabilization on or off, a check indicates that the option is activated.

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

4.1.14 Quick Review

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

1. In VIDEO or PHOTO modes, 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 and your camcorder will return to the main status screen of the current mode.

4.1.15 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 or PHOTO modes, 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 and your camcorder will return to the main status screen of the current mode.

4.1.16 Date & Time Setup

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

1. In VIDEO or PHOTO modes, press the **MENU** button. 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:
 3. Date: YYYY / MM / DD(the date can only be displayed in this format)
 4. Time: HH:MM:SS (the time can only be displayed in a 24-hour format)
 5. 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 to save your setting and exit. Your camcorder will return to the main status screen of the current mode.

4.1.17 Parking Monitoring

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 a lock icon. The video file will be locked and protected from deletion.

1. In VIDEO or PHOTO modes, press the **MENU** button. Select 'Parking Monitoring' by using the **UP** or **DOWN** buttons.
2. Press the **OK** button to turn Parking Monitoring on or off, a check indicates that the option is activated.

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

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

4.1.18 Auto Power Off Delay

This setting allows you to set the length of time before the camcorder powers off automatically.

1. In VIDEO or PHOTO modes, press the **MENU** button. Select 'Auto Power Off Delay' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the 'Auto Power Off Delay' submenu.
2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *Off*, *1 Minute* and *3 Minutes*.
3. Press the **OK** button to confirm your selected setting.
4. After the selected amount of time the camcorder will power off.

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

4.1.19 Language

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

1. In VIDEO or PHOTO modes, press the **MENU** button. 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 and your camcorder will return to the main status screen of the current mode.

4.1.20 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 VIDEO or PHOTO modes, press the **MENU** button. 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 and your camcorder will return to the main status screen of the current mode.

4.1.21 Format Memory Card

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

1. In VIDEO or PHOTO modes, press the **MENU** button. 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 *OK* and *Cancel*.
3. Press the **OK** button to confirm your selected setting.

To exit the settings menu, press the **MENU** button 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.

4.1.22 Restore Factory Setting

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 VIDEO or PHOTO modes, press the **MENU** button. Select '*Restore Factory Setting*' by using the **UP** or **DOWN** buttons. Press the **OK** button to enter the '*Restore Factory Setting*' submenu.
 2. Press the **UP** or **DOWN** buttons again to navigate the submenu and select a setting. You can select from *OK* and *Cancel*.
 3. Press the **OK** button to confirm your selected setting.
- To exit the settings menu, press the **MENU** button and your camcorder will return to the main status screen of the current mode.

4.1.23 Firmware Version

This setting displays the current firmware version of your camcorder.

1. In VIDEO or PHOTO modes, press the **MENU** button. Select '*Firmware Version*' by using the **UP** or **DOWN** buttons.
 2. The menu will display the current firmware version.
- To exit the settings menu, press the **MENU** button and your camcorder will return to the main status screen of the current mode.

4.2 Playback Mode Settings

Overview

Before you begin, ensure you are in PLAYBACK mode. From the main screen, press the **MODE** button two 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.

4.2.1 Delete

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

1. In PLAYBACK mode, press the **MENU** button.
2. Press the **UP** or **DOWN** buttons again to navigate the menu and select a setting. You can select from *OK* and *Cancel*.
3. Press the **OK** button to confirm your selected setting.
4. If the file you are trying to delete is locked, exit the Delete menu and press the **UNLOCK** button, you will then be able to delete the file.
5. Press the **MENU** button to exit the menu without deleting any images.

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.

5. TECHNICAL SPECIFICATIONS

Model Number	MNCD337N
LCD Display Screen	3.0 Inch LCD Screen
Anti-Shake Technology	Electronic Image Stabilization (Photo Mode only)
Field of View	Front Lens - Super wide angle; 120 Degrees In-Car Lens - Super wide angle; 90 Degrees
Video Resolution	1080FHD, 1080P, 720P
Photo Resolutions	12 Mega Pixels; 10 Mega Pixels; 8 Mega Pixels; 5 Mega Pixels; 3 Mega Pixels; 2 Mega Pixels; 1.3 Mega Pixels; VGA;
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 (32GB max.) – Class 10 Recommended
Languages	English, French, German, Italian, Portuguese, Spanish, Chinese (simplified), Korean, Russian
USB Function	USB 2.0 Built-in
Microphone and Speaker	Built-in
Built-in Battery	3.7V 150mAh - for use as a backup power source during power outage



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