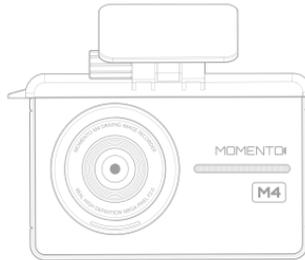


MOMENTOCAM

M4



MD-4200 USER'S MANUAL

HD Driving Image Recorder

www.momentocam.com

Before Using MOMENTO's MD-4200

- Copyright laws prohibit this manual to be copied, modified or translated without the written consent of MOMENTO.
- The contents in this manual can be changed or modified due to technical errors or improvements therefore we cannot guarantee the manual's precise information.
- MOMENTO has the right to change or modify the product and manual contents at anytime without prior notice for improvements or customization.

< CAUTION >

- MOMENTO is not responsible for damages that can occur from using unauthorized parts and accessories other than from the manufacturer.
- It is dangerous to operate this device while driving.
- The device and the recorded videos are intended for personal use and reference only.
- Based on the user's setting and environment, please be informed that the device may NOT record videos of all accidents.
- Please test the Micro SD card for errors frequently and because it is a consumable item, it should be replaced periodically.
- Handle the device with care.
- Install the device where it doesn't interfere the driver's vision.
- Check for local driving rules before installing the device (as it may be different according to each region).
- Do not use wet hands when operating this device.
- Please use this device with the original parts provided from the manufacturer.

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01

Warning and Caution

Warning and Caution



These cautions are provided for user's safety and prevent damages in the device.
Please take the time to read the manual for proper product usage.



Warning

Information to prevent factors that can cause physical damage



Caution

Information to prevent service errors or system damage



- Do not disassemble, repair, or remodel the device – this can cause an electric shock.
- Unplug the power cable if you smell something burning , smoke coming out or anything unusual.
- Do not spray water or liquid on the device as the device will not function properly.
- Handle the device with care.
- Plug the power cable all the way in to make sure it is connected to the device.
- Do not use damaged power cable.
- Do not cut, bend, or mishandle the power cable.
- Place the device and the cables away from heat or expose to high temperature.
- If the device is not being used for a long period of time disconnect the power cable from the main device.
as this can cause battery discharge in the vehicle.
- Do not use the device next to flammable liquids or gas.
- It is dangerous to operate this device while driving.
- Use only the voltage that is provided for this device.
- Do not apply extreme force and place heavy items on the device and the power cable.
- Do not use wet hands when operating this device.

Warning and Caution



- Always keep the camera lens cleaned.
- Make sure the device is firmly mounted during installation as it has a tendency to shift when driving over speed bumps or unpaved roads.
- If the device breaks, call or bring it to a service center.
Do not touch the device as your hands might get hurt from the broken parts.
- Do not use the device for a long period of time with the vehicle's engine turned off.
- Collision recording may not be enabled if the impact is very minor.
- Install the hardwire cable through a professional installer.
- Use this device only with the original parts provided from the manufacturer.
- Reception of the GPS signal can be affected by the weather, environment, or road conditions.
- Install the device where it does not interfere with the driver's view.
- Do not apply excessive force on the Micro SD card or insert it in the wrong direction.
- Store Micro SD card separately when an accident occurs or if the device is not operating properly.
- Stay away from parking in areas with direct sunlight.
- The resolution quality of the video can be affected by the environmental conditions.
- Maintain the device and the power cable in a safe area.
- Do not use the device in high temperature or humidity.
- The recommended operating temperature is -20° ~ 60°C / -4° ~ 140°F.
- Windows of the vehicle should be always cleaned to use the device at best.
- Contact customer service if you feel the device is not working properly.

Warning and Caution



- Do not use a pin or a nail to push the LCD.
- Do not use excessive force when using the control buttons.
- Do not use chemicals to clean the device.
- Keep the product away from children and pets.

02

Product Features

Product Features

■ 3.5" TFT LCD

Provides high clarity and extreme brightness.

■ Format Free Technology

Provides automatic memory format and maximizes the stability and minimizes file errors of Micro SD Card.

Automatically overwrites files when storage capacity is needed.

■ PIP Multi Screen

Multi Screen feature allows you to view front / rear view screens simultaneously.

■ Audio / Voice Guide

Provides voice guide and alert sounds / messages.

■ Micro SD Card Format

Micro SD card can be formatted directly using the device

■ Front / Rear LED

Notifies the driver recording mode while driving, or parking.

■ 3 Axis Acceleration Sensor

Embedded G-Sensor senses the collisions and records them.

■ Various Recording

Continuous, Incident-Continuous, Incident-Parking, Parking, Manual Recording types.

■ Battery Discharge

Measures the voltage (battery) real time and prevents the vehicle from being discharged.

Product Features

■ Operation Temperature Sensor

Automatically senses over heating and high temperature of the devices and shuts off the power for protection.

■ PC Viewer

PC Viewer for Windows is used to watch recorded videos.

■ Location and Speed Limit Sensor

Provides information about the vehicle's location and speed.

Compatible with Google Map and allows to check travel routes.

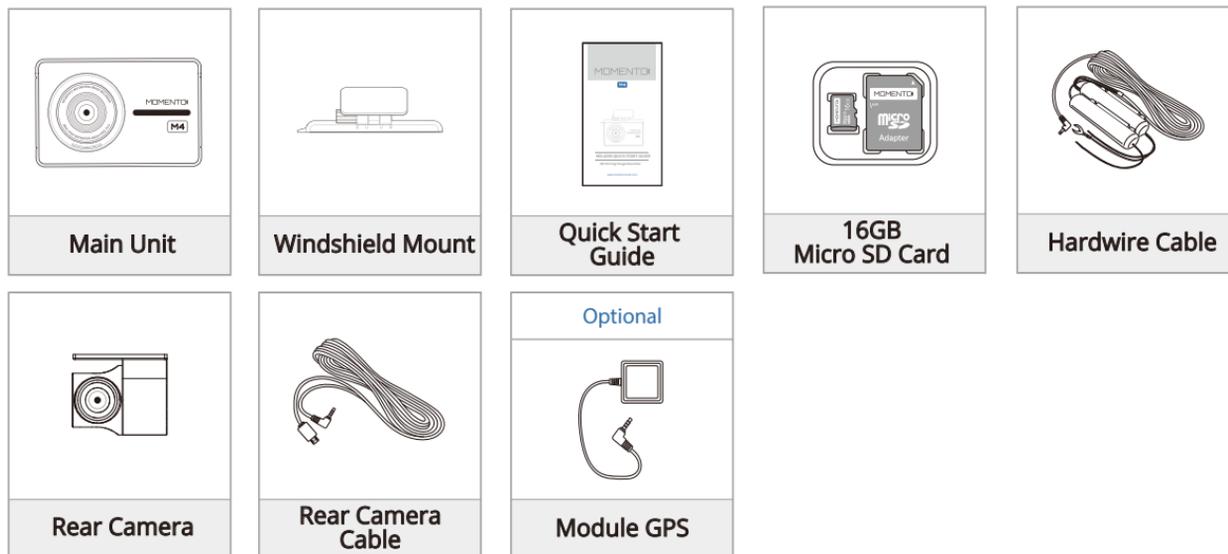
■ Front Vehicle Move Alert (FVMA)

Alerts the driver when the front vehicle starts to move from a complete stop.

03

Product Overview

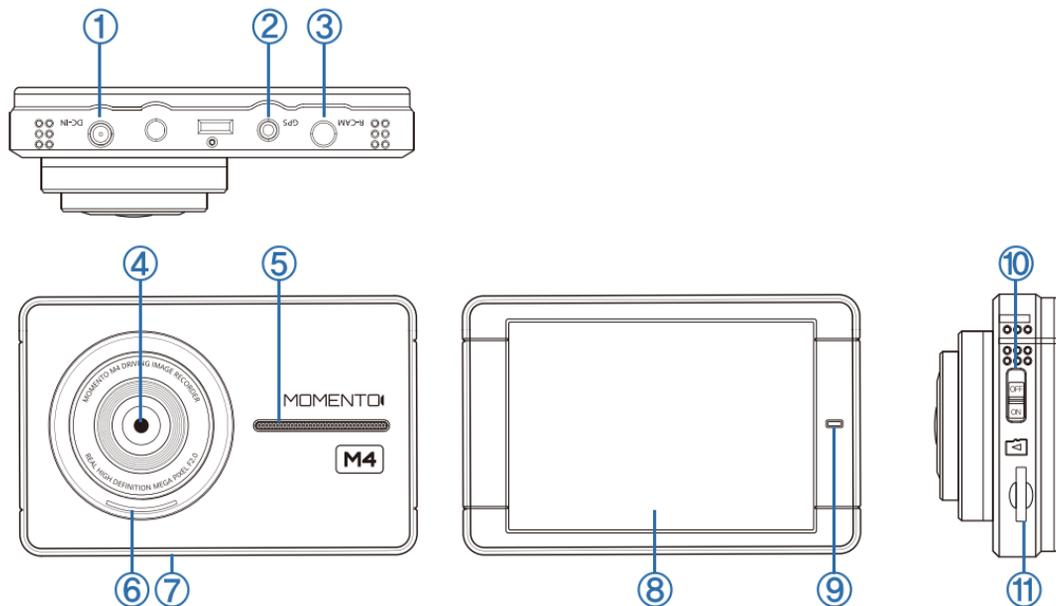
■ Package Components



- ※ Check for any missing components.
- ※ The product and manual contents can be changed or modified at anytime without prior notice for improvements or customization.
- ※ Additional components are sold separately.

Product Overview

■ Main Unit (Front Camera)



Product Overview

① DC-IN	Power cable port
② GPS Port	GPS module port
③ R-CAM	Rear camera port
④ Camera Lens	Front camera for video recording
⑤ Speaker	Voice guidance
⑥ Front LED	Indicates vehicle is equipped with dash cam
⑦ Microphone	Voice and audio record
⑧ LCD Screen	Live view, playback, menu operation
⑨ LED	Feature operation indicator light
⑩ Power Button	ON/OFF button
⑪ Micro SD Card	Memory card slot (please check for insert/remove direction)

04

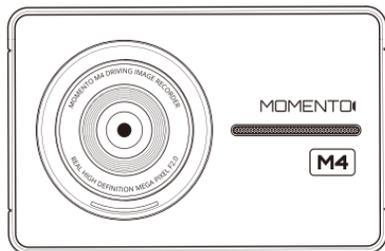
Device Installation

< CAUTION >

- It is dangerous to operate this device while driving.
- Please check if the Micro SD card is inserted correctly before connecting to power.
- Make sure the installation area is clean.
- Disconnect the power cable if you are not using the device for a long period of time.
- Handle the device with care.
- Do not drop the product as it may not function properly.
- Please make sure that the device is used in the suggested operating temperatures between -4° ~ 140°F.
- During extreme high temperatures or hot weathers, parking indoors is suggested.

1) Main Camera Installation

■ Insert / Remove Micro SD Card



Do not apply excessive force on the Micro SD card or insert it in the wrong direction.



Insert



Remove

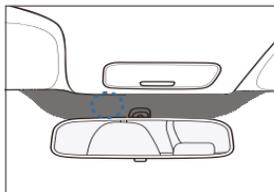
- ▶ Refer to the above image and check the direction before inserting the Micro SD card into the slot.
- ▶ Push the Micro SD card all the way.
- ▶ You will here a voice guide that the Micro SD card has been inserted correctly when the power is on.



- ※ Push the Micro SD card until you here a click sound or recording will not start.
- ※ Make sure there are no particles on the Micro SD card.
- ※ It is recommended to use the Micro SD card with this device only.
- ※ Do not remove the Micro SD card when the device is operating.

Device Installation

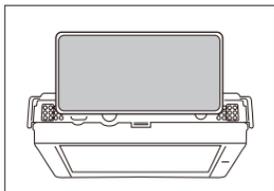
1) Main Camera Installation



① Installation Location

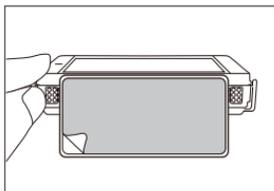
Before installation, make sure the engine is turned off. Clean the area where the product will be installed.

※ Do not install the device where it interferes with the driver's vision.



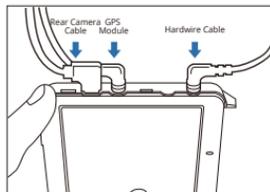
② Connecting the Device and Mount

Align and attach the device to the bottom holes of the mount.



③ Attaching the Camera

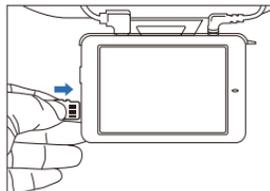
Remove the double-sided tape and attach the camera.



④ Connecting Cables

Connect all the related cables (rear camera, GPS, power) and adjust the camera angle accordingly.

※ Make sure the cables of different devices (navigation, GPS, and others) do not overlap with each other.

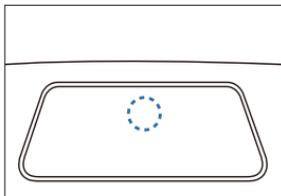


⑤ Inserting the Micro SD Card

Insert the Micro SD card into the Micro SD card slot in the direction as shown in the left image.

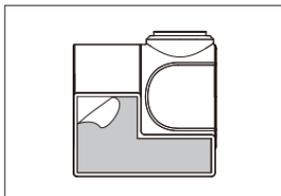
※ Do not apply excessive force on the Micro SD card or insert it in the wrong direction.

2) Rear Camera Installation



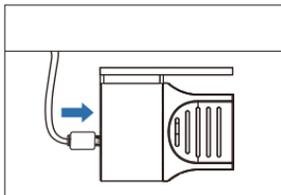
① Installation Location

Before installation, make sure the engine is off. Clean the area where the camera will be installed.



② Attaching the Camera

Remove the double-sided tape and attach the camera.



③ Connecting Cables

Connect rear camera cable and adjust the camera angle accordingly.

05

Basic Operation

1. Using the Touch Screen

1) Live View



- ※ Touch the LCD to use front view / rear view / PIP features
(Rear camera needs to be connected for rear view feature to work).

①	Current Date and Time Main Menu → System Settings → Time Settings * Automatic setting if GPS is connected
②	GPS Status GPS ON / OFF
③	Voice & Audio Record Main menu → MIC ON/OFF MIC ON : recording / MIC OFF : not recording
④	Main Menu Main menu screen
⑤	Manual Recording Start manual record

1. Using the Touch Screen

2) Screen Saver



- ▶ Turn ON Screen Saver Mode → Main Menu → LCD Time Out : Clock
- ▶ Touch screen to go back to Live View Screen

①	Recording Status REC : continuous record EVENT : incident / manual record
②	Voice & Audio Recording Status MIC ON : recording MIC OFF : not recording
③	GPS Signal Status GPS ON / OFF
④	Current Time and Date Shows current time and date

1. Using the Touch Screen

3) Main Screen



※ Recording stops in Settings, ADAS, File List.

①	Settings Main menu settings → System Settings / Dashcam Settings / F/W version
②	ADAS ADAS menu settings → FVMA
③	File List List of recorded files
④	LCD Time Out LCD screen off setting menu → 30sec / 1min / 3min / clock / always on
⑤	Volume Changes the volume level (5=loudest) → OFF / 1 / 2 / 3 / 4 / 5
⑥	MIC Audio/voice record using the microphone → ON / OFF
⑦	LIVE Go to Liveview

1. Using the Touch Screen

4) System Settings

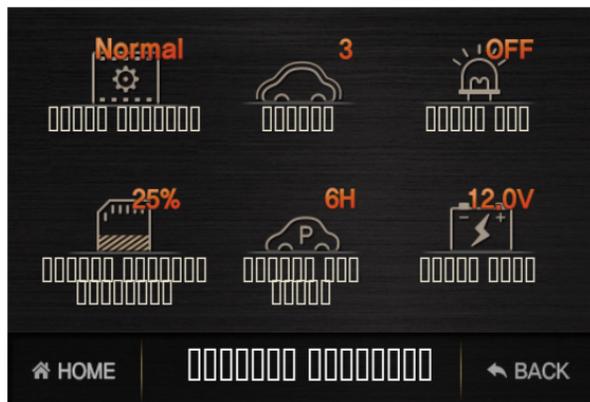


► Main Menu → Settings → System Settings

①	Language Language setting → English / Francais
②	Time Settings System's time setting * Automatic setting if GPS is connected
③	Touch Calibration Resetting touch screen
④	SD Card Format Micro SD Card Format * Saved files will be deleted. Backup the files before formatting
⑤	Factory Reset Reset settings to factory settings (except for recorded files)
⑥	HOME Move to Main menu screen
⑦	BACK Back to previous screen

1. Using the Touch Screen

5) Dashcam Settings

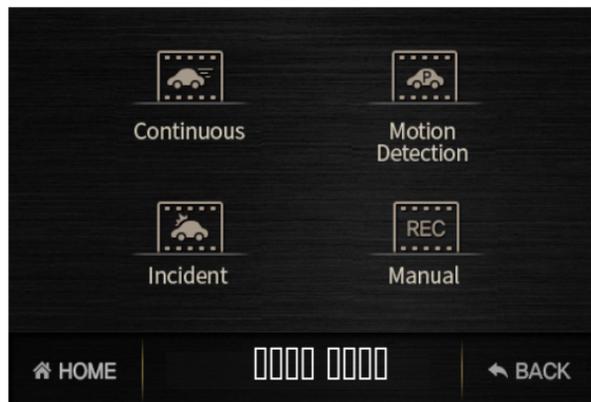


► Main Menu → Settings → Dashcam Settings

①	Video Quality Able to select the recording video quality → Low / Normal / High ※ If the Video Quality is changed, the SD card will be formatted.
②	Impact This feature senses incidents while driving and records them. * When a incidents is detected, driver will be notified with a tone alert and incident recording will start. → OFF / 1 / 2 / 3 / 4 / 5 / 6
③	Front LED Enable / disable the LED on the main unit (in parking mode) → ON / OFF
④	Parked Storage Priority Allocating storage capacity on memory card for park recording modes → OFF / 25% / 50% (* OFF : not using parking mode) ※ If the Parked Storage Priority is changed, the SD card will be formatted.
⑤	Parked Cam Timer → 6H / 12H / 24H / 48H / OFF
⑥	Power Save If the vehicle's battery falls below the indicated value, the ignition will not start. → 11.7V / 11.9V / 12.0V / 12.1V / 12.2V

1. Using the Touch Screen

6-1) File List

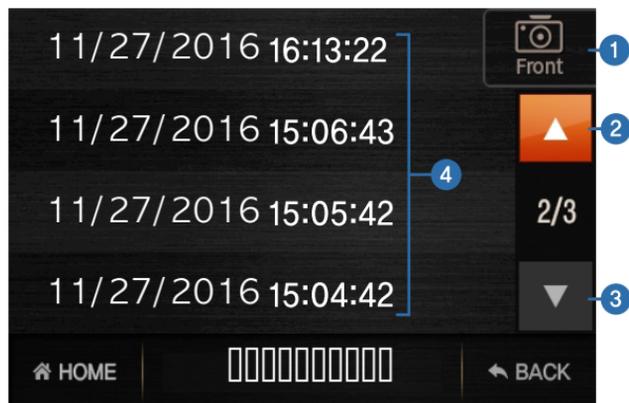


► Main Menu → File List

①	Continuous
	Continuous record
②	Motion Detection
	Motion detection record during parking
③	Incident
	Incident record during driving, Incident record during parking
④	Manual
	Manual record

1. Using the Touch Screen

6-2) File List



①	Front / Rear Camera File List Sorting the file list according to front / rear recordings
②	File List : Up Moving file list up
③	File List : Down Moving file list down
④	File List Select the file to play from the list

1. Using the Touch Screen

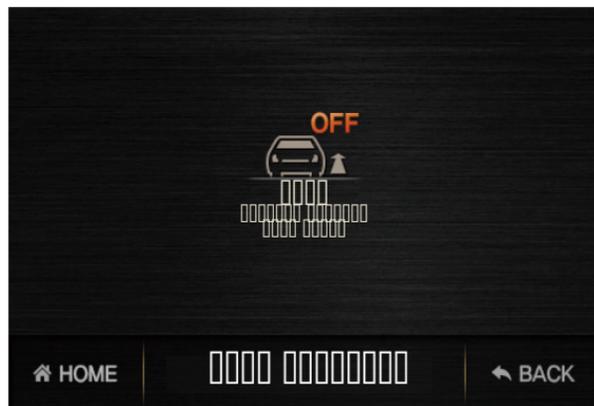
6-3) Video Playback Screen



①	Video Play Time ex) 4/60 : current play time (sec) / total play time (sec)
②	Number of Files ex) 4/200 : 4th file out of 200 files
③	Previous Play previous file
④	Play / Pause Play or pause
⑤	Next Play next file
⑥	BACK Moves to file list

1. Using the Touch Screen

7) FVMA(Front Vehicle Move Alert)



- ▶ Main Menu → File List
- ▶ FVMA feature operates in front camera view mode.
- ✳ GPS needs to be connected for this feature to operate.

① FVMA (Forward vehicle move alert)

Front vehicle move alerts the driver when the front vehicle starts to move from a complete stop.
→ ON / OFF

2. Device Control

No.	Control Function	Description
1	Power ON	<ul style="list-style-type: none">- Main power ON button- Once the device is connected it will automatically turn ON / OFF by vehicle's ignition. Green LED light means the device will start to record. A voice guide will alert the driver "continuous recording mode".- The device will be set at continuous recording mode when the power is connected.
2	Touch LCD	<ul style="list-style-type: none">- TFT Touch LCD is used to control the menus.
3	Event Record	<ul style="list-style-type: none">- Incident Record during continuous record mode when the device senses an impact or a collision.- After the event has been recorded, Continuous Record will start again.
4	Parking Mode Record	<ul style="list-style-type: none">- Motion record during parking.- Battery Discharge features are enabled to prevent the vehicle's battery from being discharged. The device will automatically turn off based on the Parked Cam Timer Settings' duration and Power Save Settings' voltage level.
5	Event Record during Parking	<ul style="list-style-type: none">- Event (incident) record during parking.- The device either senses an impact or a collision and detects a motion while the car is parked and records the event or the motion.

3. LED Indicator Light

No.	Recording Type	Rear Green LED	Front Blue LED	Meaning
1	Driving Continuous	ON	OFF	Continuous record during driving
2	Driving Incident	Blink every 1 sec	OFF	Incident record during driving
3	Parking Motion Detection/ Incident	Blink every 1 sec	Blink every 0.5 sec	Motion Detection/ Incident Record during parking
4	Parking	OFF	Blink every 1 sec	Parking

4. File List Management

- ▶ Recorded files are saved in Micro SD card by date and hour.
- ▶ Files are saved in the following format below.

2016-11-27-11h-30m-29s_F_normal.mp4

Year-Month-Date Hour-Minute-Second Front View Recording_Recording Type

Recording Type	Description	Saved Folder
normal	Continuous Record	Driving
motion	Record during parking(motion detection)	Parking
event parking	Incident Record during driving Incident Record during parking	Event
manual	Manual Record	Manual

4. File List Management

► Recording Time by Memory Size

Chart below is maximized recording time by storage capacity.

HD+D1 2CH Parked Storage Priority : 0% Video Quality : Normal	Memory Size		Driving (80%)	Parking (0%)	Event (15%)	Manual (4%)
	16G	Maximum Storage / Time	11.84GB 192mins	0GB 0min	2.22GB 35mins	592MB 9mins
HD+D1 2CH Parked Storage Priority : 25% Video Quality : Normal	Memory Size		Driving (60%)	Parking (20%)	Event (15%)	Manual (4%)
	16G	Maximum Storage / Time	8.88GB 144mins	2.96GB 47mins	2.22GB 35mins	592MB 9mins
HD+D1 2CH Parked Storage Priority : 50% Video Quality : Normal	Memory Size		Driving (40%)	Parking (40%)	Event (15%)	Manual (4%)
	16G	Maximum Storage / Time	5.92GB 96mins	5.92GB 96mins	2.22GB 35mins	592MB 9mins

► Storage partition can be modified manually : Settings → Dashcam Settings → Parked Storage Priority

※ Reference numbers may vary depending on recording environment and image quality (also after firmware update).

※ Recording time is doubled when 1CH is installed.

5. Firmware Update

1) Select Micro SD Card

Select Micro SD Card (M4) in My Computer
Right click and select "Format"

2) Micro SD Card Format

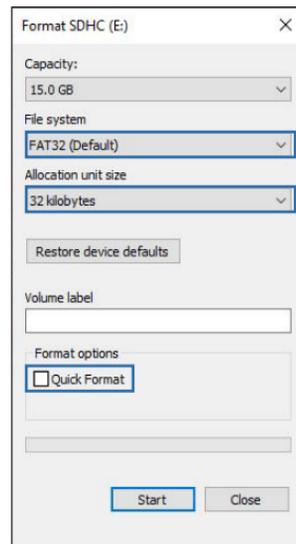
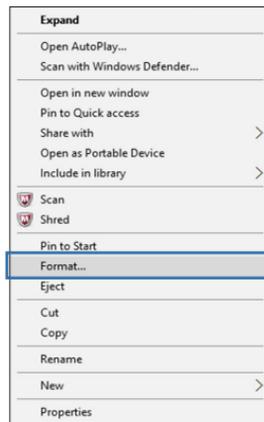
In the Disc Format Window, select the :

- ▶ File System : FAT32
- ▶ File Size : 32KB
- ▶ Uncheck "Quick Format"

3) Copy the Update File to Micro SD Card

Place the file MD-4200-V1.00-000.img file into the
Micro SD card that has been already formatted and delete it.

※ File version can change based on each update.



06

PC Viewer

1) Installation

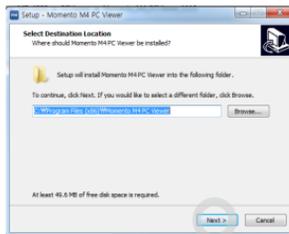
► Download the Setup.exe file at momentocam.com or use the pre-installed file in Micro SD Card and follow the steps like below.

①

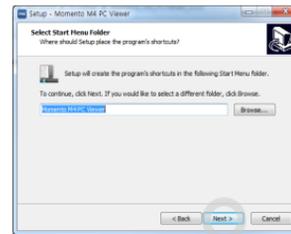


Select Language (English/Franch)

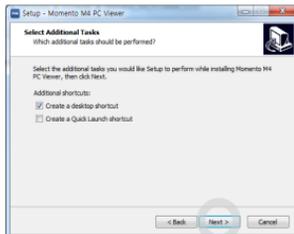
②



③



④



⑤



⑥



2) Main Screen / Control Keys



- ① Configuration / Minimize / Exit
- ② Main Screen
- ③ Control Keys
- ④ Acceleration Sensor Information
- ⑤ Navigation Map
*If GPS is not connected, logo will appear.

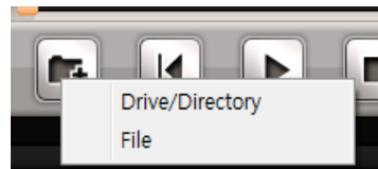


- ① Open
- ② Previous file
- ③ Play / Pause
- ④ Stop
- ⑤ Next Frame
- ⑥ Next file
- ⑦ Capture
- ⑧ Speedmeter(mph,km/h)
- ⑨ Sensor
- ⑩ Defog
- ⑪ Map

3) File List

① Add File

- Click on add file button() and select the directory
- Drag and drop to add the files



② Delete File

- Click on either "trash" () or "delete" button to delete the files

③ Select Record File Type

- Use right click button to select the file type
- Files are sorted by date and time



④ Arrange File List

- Files recorded in the device are sorted in ascending order by date and time
- Files from other sources are added at the end
- Files will re-sort when you click on the file list (either ascending or descending order)

4) File Zoom In / Out

① File Zoom In

- Select the area of the file to zoom in
- The enlarged area is shown on the right screen



② File Zoom Out or Cancel

- Right click on screen to zoom out



5) Full Screen Mode

- ① Double click on the current file for full screen view
- ② Double click the full screen view or click ESC button to cancel the full screen view
- ③ Control keys are at the bottom of the screen

6) G-Sensor Information

Detects collision incidents while driving



7) Map

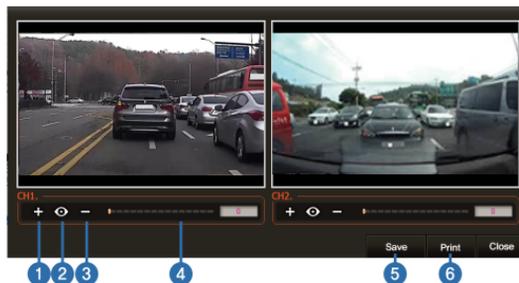
If the GPS is connected, map icon will appear on the bottom right corner. If not, MOMENTO logo will appear.

8) Screen Capture

Click on the “screen capture” button in the playback screen
Can save or print file

9) High Contrast

Able to capture the playback screen for a clearer view
Use the +,- buttons to zoom in / out



- ① + : Zoom In
- ② 👁 : Minimize file size
- ③ - : Zoom Out
- ④ Contrast : 0~15 (0 original image)
- ⑤ Save : save file (image)
- ⑥ Print : print file (image)

10) System Settings

Setting menu for device features.

- A. Complete – save settings and close
- B. Apply
- C. Save as
- D. Reset settings
- E. Cancel – close settings
- F. Open file



11) System Settings

① Language

: English / French

② Mic

: Record : ON / Disable Record : OFF

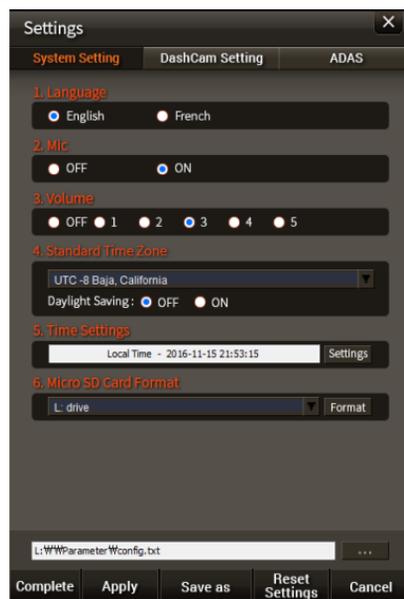
③ Volume

: Set the volume level by OFF / 1 / 2 / 3 / 4 / 5

④ Standard Time Zone

: Time zone based on local time (UTC) / Check to select DST (Daylight Saving Time)

⑤ Micro SD Card Format



12) DashCam Settings

① Video Quality

: Front Cam Video quality by Low / Normal / High

② Impact

: Collision sensitivity by OFF / 1 / 2 / 3 / 4 / 5 / 6

③ Front LED

: ON / OFF

④ Parked Storage Priority

: Allocate the storage capacity for recording modes by OFF / 25% / 50%

⑤ Power Cam Timer

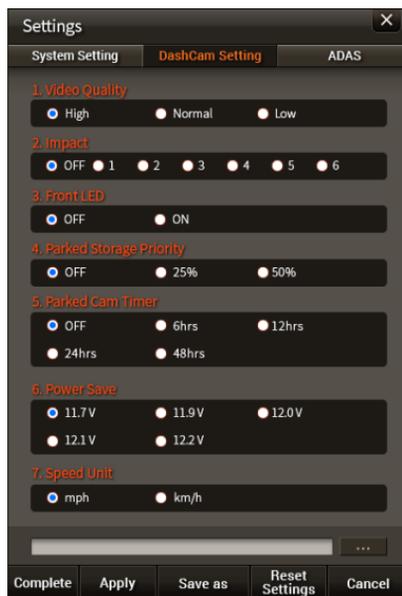
: To prevent the vehicle's battery from being discharged,
set the device to turn off after 6hrs / 12hrs / 24hrs / 48hrs / OFF(disable feature)

⑥ Power Save

: Based on the vehicle's model, enable battery discharge settings by
11.7V / 11.9V / 12.0V / 12.1V / 12.2V

⑦ Speed Unit

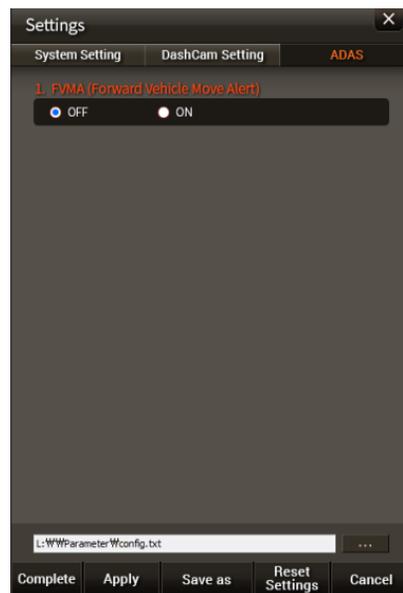
: mph / km/h



13) ADAS

① FVMA

: Enable or disable FVMA feature by selecting OFF / ON



07

Others

1. Product Specifications

Item	Description
Model	MD-4200
GPS	Supports external GPS port
LCD	3.5" TFT LCD
Frame Rate	Up to 30fps (Front: 720p / Rear: 480p)
Acceleration Sensor	3 axis acceleration Sensor
Input Power Source	DC 12/24V
Audio / Speaker	Embedded microphone, speaker
Auxiliary Power Unit	Super Capacitor
Resolution	Front: HD (1280x720p) Rear: D1 (720x480p)

Item	Description
Size / Weight	98 x 63 x 30mm / 95.5g 3.9 x 2.5 x 1.2in / 3.37oz
Capacity	Micro SD Card 16GB / 32GB / 64GB (FAT32 format)
Operation Temperature	-20° ~ 60°C -4° ~ 140°F
Camera	Front : 1Megapixel CMOS Sensor Rear : 0.3Megapixel CMOS Sensor
Recording Mode	Continuous Record, Incident Record, Motion Detection Record, Manual Record, Incident Record during Parking

2. Troubleshooting

Condition	Description
No Power	Check if power cable is properly connected. Check if power is ON. Unplug the power cable and reconnect after 3 mins.
LCD Display doesn't turn ON	LCD display doesn't turn on in parking mode. LCD is ON during continuous mode.
Unable to record Audio / Voice	Check if MIC is not ON in main menu.
Unable to save files in Micro SD Card	Format the Micro SD Card and restart
Unable to record during parking	Check Parked Storage Priority is not OFF in dashcam settings menu.
Unable to hear Audio / Voice	Check if Volume is not OFF in main menu.
Touch Screen is not working	Reset the feature in touch calibration menu.
How do I view recorded files?	Visit www.momentocam.com to download the latest Momento Viewer.
How do I update the camera firmware?	Visit www.momentocam.com to download the latest Momento Camera Firmware.
FVMA is not working	<ol style="list-style-type: none">1. Check if location signal is recognizing the vehicle.2. Check if auto calibration is completed.3. Check if GPS is connected.

2. Troubleshooting

Condition	Description
Display is too dark	Based on the angle of the location of the device, the display can be dark. * Do not install the device on a tinted window.
Unable to see the map in the PC Viewer	Check if the GPS is connected and if it has good coverage. Reconnect the GPS module. Check the PC's internet connection.
Rear camera is not working	Check if there are any substances covering the camera's view. Reconnect the camera's cable and start again.
Video shakes while driving	Check if the device is mounted firmly.
Video quality is unclear or blurry	Clean the camera lens and the vehicle's window.

3. Limited Warranty on Parts & Labor

MOMENTO provides a warranty to the original purchaser of a new Product against defects in workmanship and materials for a period of two (1) years.

If a product covered by this warranty is determined to be defective within the warranty period, MOMENTO will either replace or repair the product at its sole option and discretion.

Products determined defective must be sent to an MOMENTO service center to obtain warranty service.

Proof of purchase in the form of a receipt is required to show that Product is within the warranty period and product must have original and legible serial number information.

To obtain warranty service, please register your system at momentocam.com/warranty

■ warranty@momentocam.com

■ 888-820-3690

This Warranty is subject to change without notice.

FOR COMPLETE AND UPDATED WARRANTY INFORMATION PLEASE VISIT

: momentocam.com/warranty

4. FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions :

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION :

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

MOMENTO

MD-4200 USER'S MANUAL
