AEE MagiCam Magical application

MD10

Easy recording, keep the wonder

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Precautions

When using the MD10 video camera, adhere to the following precautions:

1. Do not drop, knock or shake the video camera.
2. Do not put the video camera close to an object that generates strong magnetic field, such as a magnet or a motor. Do not put the video camera close to an object that emits powerful radio waves, for example, an antenna. Strong magnetic field may cause faults on the video camera or damage the image / voice data.
3. Do not expose the video camera to high temperature or direct sunshine.
4. Do not put the memory card close to an object that generates strong magnetic field, such as a television set, a speaker, or a magnet. Do not put the memory card in a place where static electricity is easily generated.
5. Disconnect the power supply to stop recharging the battery immediately when over heat, smoke, or peculiar smell occurs during recharging.
6. Keep the video camera out of reach of children during recharging, because the power cable may cause asphyxia or electrical shock on children.
7. Store the video camera in a cool, dry, and dust-free place.

Preface

Thank you for purchasing AEE MD10 series compact high-definition (HD) digital video camera, which has the following characteristics:

- Ultra small size and compact structure
- User-friendly interfaces
- Easy operations
- Hand-free shooting to facilitate shooting of real scenarios at any time and place
- Superior recording performance thanks to dynamic HD shooting technologies, providing you with exciting video shooting experience

This manual describes how to install and use the MD10 video camera. It also provides information about use, operations, installation precautions, and technical specifications of the MD10 video camera. Before using the MD10 video camera, read and understand this manual carefully and keep it properly for future use. Designed to meet the professional requirements, AEE MD10 video camera will serve you in a long term.

Warranty

This product has been certified by certification bodies for compliance with related safety regulations and specifications issued by the federal communications commission (FCC) and council of Europe (CE).

Overview

As a small UHD digital video recorder with advanced Wi-Fi function, AEE MD10 provides such industry-leading functions as HD digital photography, voice storage, real-time display, video recording, photo shooting, time display, wireless remote control (optional), Wi-Fi wireless transmission, high-speed mini USB data transmission and mini USB charging. Equipped with professional accessories, MD10 allows you to record whatever you like anytime anywhere. MD10 carries several patents for invention and technology.

Dispose of properly. Recycle it for a greener earth!

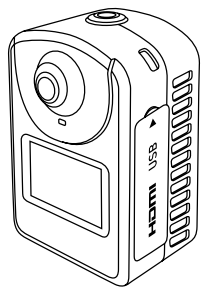
Main functions and features

- Provides a special-purpose HD lens, which supports 1080P and 720P HD video recording.
- Takes 8M pixels pictures in 3200x2400 resolution.
- Long time voice recording;
- Performs 4X digital zooming.
- LCD screen;
- Wi-Fi function and more App application.
- Voice-activated video recording function, to record videos for security purposes; long standby time;
- The multifunctional back clip, dual-pin back clip, sport back clip, multidirectional bracket and other professional accessories are available for your selection;
- Performs shooting in multiple modes, such as Single shot,Fast shot,Timed shooting.
- Provides unique fast-shot feature, up to 8 photos per second.
- Provides better video effects in multiple video output modes (NTSC system):
  1920×1080P 30 frames / second
  1280×720P 60 frames / second
  WVGA 120 frames / second
- Point-and-shoot operation, red and green work indicator;
- Detection of the battery power and free space;
- High-speed dynamic recording, quickly responding to light and shade;

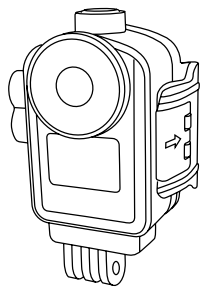
- Provide high color fidelity to present more clear and natural video pictures.
- Small size, suitable for various applications;
- Provides HDMI for easy connecting to HD monitor or TV set to view record files.
- Records video programs in MP4 format to facilitate playback on a PC and uploading to video-sharing websites.
- Provides the 180° photo rollover function.
- RTC function, adding the date and time to photos and videos;
- Supports external T-flash (TF) cards for storage, up to 64 GB capacity.
- Provides automatic standby for power saving, and supports automatic saving of audio and video data.

List of accessories

MD10 main unit

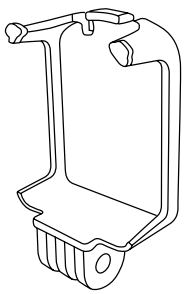


Water-proof housing *

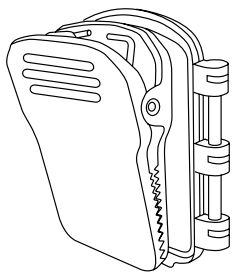


Remote Control *

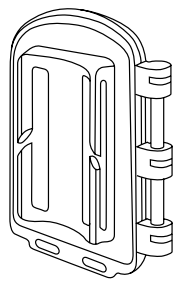
Camera Body Tray *



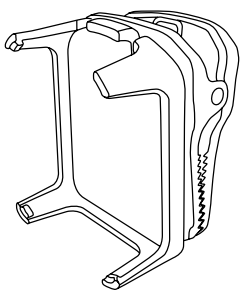
Back Shell for Back Clip *



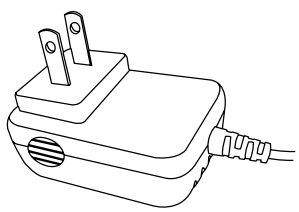
Waterproof Back Shell with Strap *



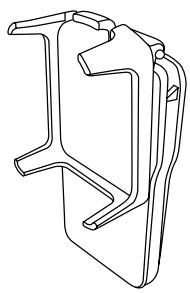
Camera Body Clip Mount



Power Adapter *



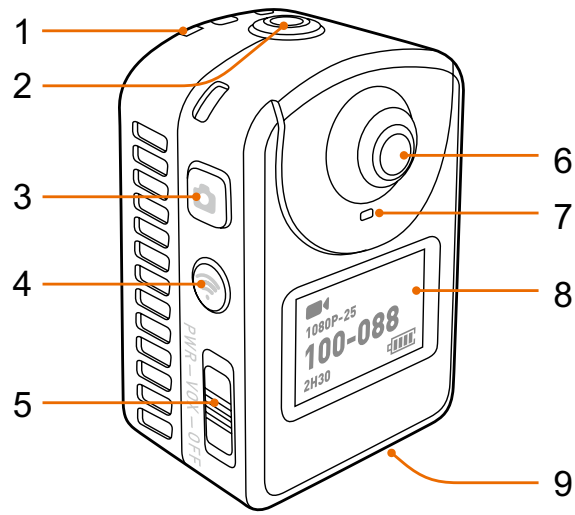
Shoulder Clip *

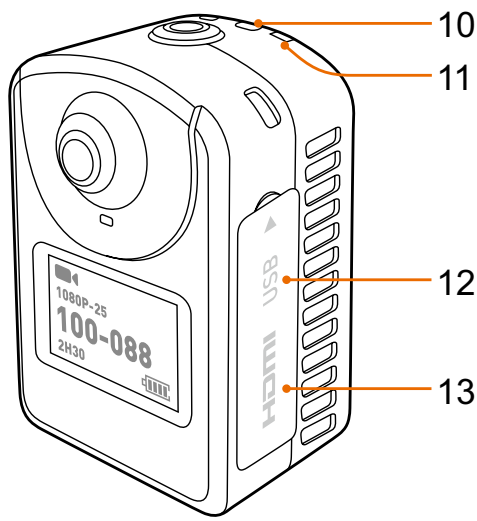


Flat sticker *	Convex sticker *	Quick Release Buckle *
Extended adjusting bolt unit *	Moisture-proof foam *	Hand strap *
Cloth bag *	TF card *	USB data cable
User manual	CD-ROM	

The accessories you've received may be slightly different from above. The package is subject to change without further notice. You can order the optional accessories marked with "*".

Component guideline





1. Recording status indicator
2. Record key
3. Shoot key
4. Wi-Fi key
5. Power key
6. Lens
7. Power/work state indicator
8. LCD screen
9. TF card slot
10. Strap hole
11. Power indicator
12. USB port
13. Mini HDMI port

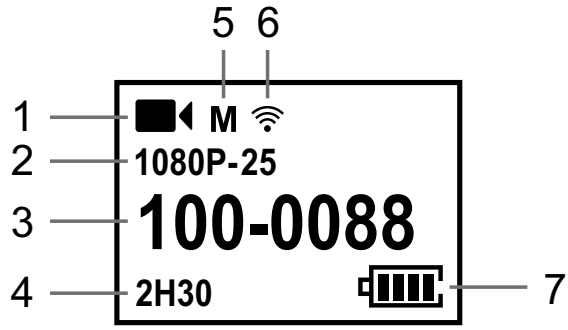
Description of indicators

Indicator / Function	Power Indicator	Recording status Indicator	Power/Work State Indicator
	Red	Green	Red and Green
Powering on	Blink once and remain on	/	Blink once in red
Video recording	/	Blink slowly	Blink slowly in green
Discontinuous recording	/	Blink slowly	Blink slowly in green
Recording stopped	Remain on	/	Remain on in red
Photo shooting	Remain on	Blink once	Remain on in red
Continuous shooting	Remain on	Blink continuously	Remain on in red
Shooting stopped	Remain on	/	Remain on in red
Voice recording	/	Blink slowly	Blink slowly in green
Low power	Blink quickly	/	Blink quickly in red
Being charged	Blink slowly	/	Blink slowly in red
Charging finished	Remain on	/	Remain on in red
Charging finished (powered off)	Remain on	/	Remain on in red

You can long press the Shoot key to switch to Power/Work State Indicator.

LCD segment display

Explanations for Icons on LCD Screen:

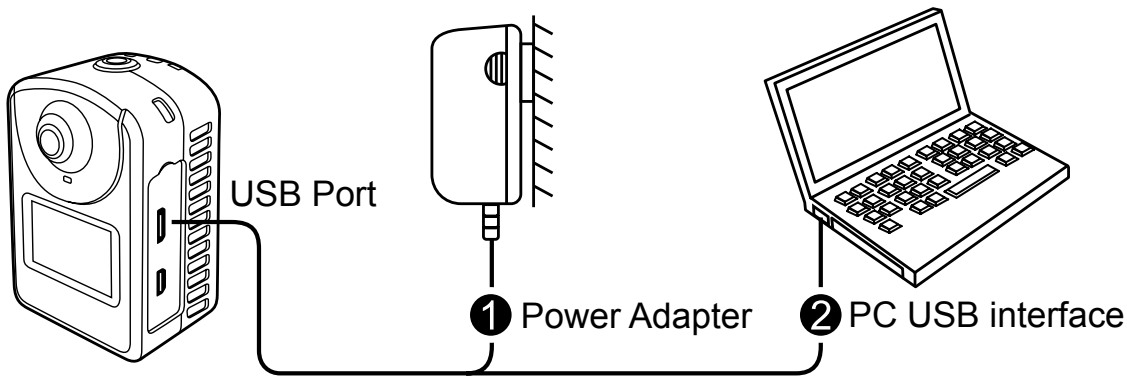


	Icon	Functions
1		Recording mode
		Shooting mode
2	**1080P-25**	Recording resolution
	8M 5M 3M	Shooting resolution
3	**100-088**	Number of recorded files
	00:00:01	Recording timer
4	**2H30**	Remaining recordable time
	1888	Remaining shots
5	**W M N S**	View angle
6		Wi-Fi
7		Battery level

Preparations before use

Charging

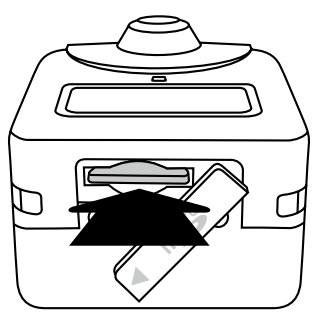
Use the supplied power adapter or USB port of a PC to charge MD10:



When MD10 is charged in power-off state, the red indicator will flash slowly. After the battery is fully charged, the red indicator will stay on.

Insert and remove the memory card

MD10 supports external TF card up to 64G. Though all SD cards above Class 6 can be used on MD10, high-speed card is recommended to perform high-definition shooting. When shooting during dynamic motion, brand SDHC cards are recommended for use in order to ensure smooth shooting.



- Insert the memory card

  Ensure that MD10 is switched off, Insert SD card into the memory card slot in the arrow direction flatly to the end. A "click" can be heard to indicate the card has been well inserted.
- Remove the memory card

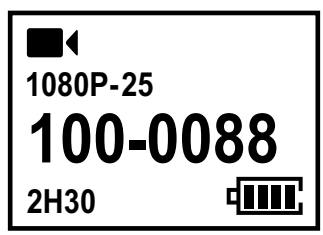
  Press the center of exposed part of SD card andSD card will pop up slightly. Then pull it out flatly.

❗ Before connecting the host to Wi-Fi or the remote control, please first insert the SD card.

Startup

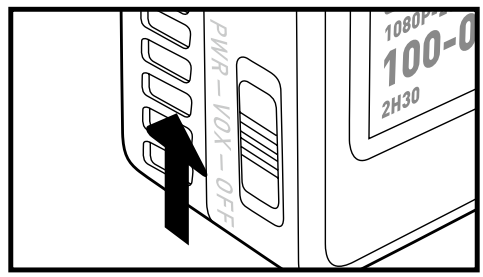
Slide the Power key to "PWR".

- The power indicator will be lit;
- MD10 will enter the recording standby state and display the following interface:



Voice-activated Power-on

Slide the Power key to "VOX", and MD10 will enter the voice-activated mode. When the ambient decibel reaches 75db, MD10 will auto start recording. It may auto stop recording 3min later if the ambient decibel becomes lower than 75db. In the recording process, you can press the Record key to stop recording without influencing any other function.



Language

Select the required language.

1. Long press the Record key for 3s to enter the full screen mode;
2. Press the Shoot key or Wi-Fi key to adjust the menu mode to " M " and then press the Record key;
3. Press the Wi-Fi key to move the cursor to " ⚙ " and then press the Record key;
4. Press the Wi-Fi key to select " ◕ " and then press the Record key;
5. Press the Wi-Fi key to select the required language and then press the Record key to confirm your selection;
6. Press the Shoot key to exit.

Date & Time

1. Long press the Record key for 3s to enter the full screen mode;
2. Press the Shoot key or Wi-Fi key to adjust the menu mode to " M " and then press the Record key;
3. Press the Wi-Fi key to move the cursor to " ⚙ " and then press the Record key;
4. Press the Wi-Fi key to select " ▦ " and then press the Record key;
5. Press the Wi-Fi key to select the required date format and then press the Record key to enter the following interface:
6. Press the Shoot key or Wi-Fi key to adjust each value and then press the Record key to confirm the adjustment. MD10 will auto exit from the above interface when all adjustments have been finished.
7. Press the Shoot key to exit.

Video Mode Selection and Application

Video Mode Selection

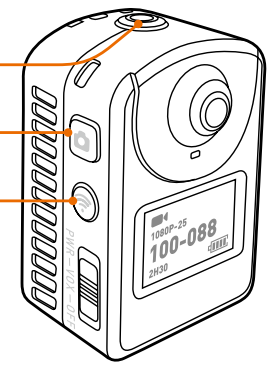
When the menu is displayed in the full screen mode, the main keys can respectively perform the following functions:

Record key: enter the menu item or confirm

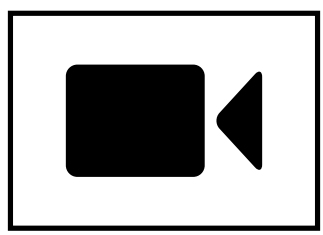
Shoot key: move to the previous option

Wi-Fi key: move to the next option

Note: you can press the Shoot key to exit from the functional parameter setting interface.



1. Long press the Record key for 3s to enter the full screen mode:



2. Press the Shoot key or Wi-Fi key to select a menu mode;
3. If no operation is performed within 3s, MD10 will auto enter the selected menu mode (you can also enter such mode directly by pressing the Record key). See the following explanations for menu icons:

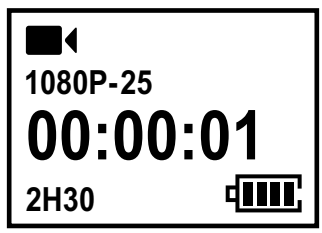
Icon	Functions	Icon	Functions
	Video recording		Video-only
	Voice recording		Time Lapse
	Timed recording mode		Shoot-in-recording
	Single shot		Fast shot
	Continuous shooting		Timed shooting
M	Other basic setting		

- In the shooting mode, you can press the Record key to switch to the last used recording mode.
- In the recording mode, you can press the Shoot key to switch to the last used shooting mode.

Video Recording

> Video Recording

1. Press the Record key to start the video recording and enter the following interface:

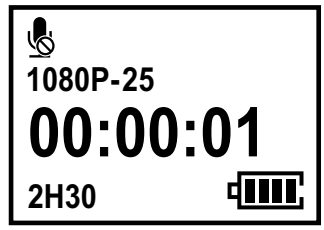


2. Press the Record key again to stop the video recording.

> Video-only

In this mode, you can record a video without voice.

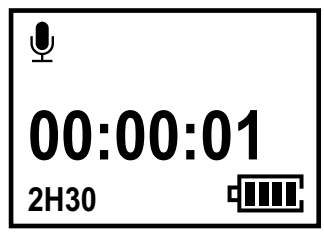
1. Press the Record key to start the video recording and enter the following interface:



2. Press the Record key again to stop the video recording.

> Voice Recording

1. Press the Record key to start the voice recording and enter the following interface:

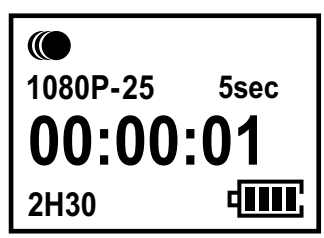


2. Press the Record key again to stop the voice recording.

> Time Lapse

This function allows you to record a photo as one frame of the moving image, so that you can make a leaping video of continuous evolution and motion process easily without the post-editing help of software.

1. Press the Record key to start the video recording and enter the following interface:

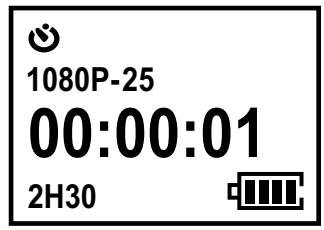


2. Press the Record key again to stop the video recording.

> Timed Recording

You can set a time interval for timed recording. Then when you press the Record key, MD10 will start to count down and will auto start the video recording when the preset time is up.

1. Press the Record key, and MD10 will auto start the video recording and enter the following interface when the preset time is up:

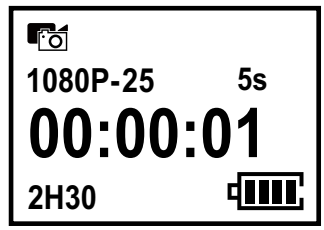


2. Press the Record key again to stop the video recording.

> Shoot-in-recording

In this mode, you can shoot photos in the video recording process.

1. Press the Record key to start the video recording and enter the following interface:



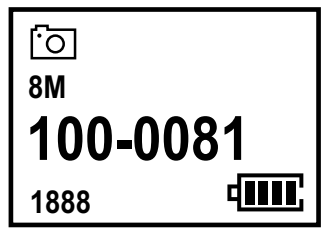
2. Press the Shoot key to shoot a photo (in manual mode).
3. Press the Record key again to stop the video recording.

❗ In auto mode, when you press the Record key, MD10 will start the video recording and auto shoot photos continuously as per the preset time interval until you press the Record key again to stop the video recording.

Photo Shooting

> Single Shot

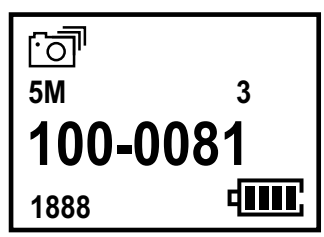
1. Press the Shoot key to shoot one photo and enter the following interface:



> Fast Shot

In this mode, you can shoot several photos in one second;

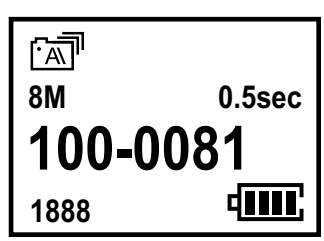
1. Press the Shoot key to shoot a group of photos and enter the following interface:



> Continuous Shooting

In this mode, you can shoot photos continuously as per the preset time interval until you press the Record key.

1. Press the Shoot key to shoot photos continuously as per the preset time interval and enter the following interface:

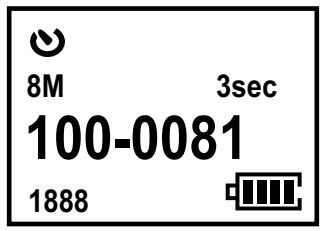


2. Press the Record key to stop the photo shooting.

> Timed Shooting

You can set a time interval for timed shooting. Then when you press the Shoot key, MD10 will start to count down and will automatically take photos when the preset time is up.

1. Press the Shoot key and the system will shoot one photo when the preset time is up, enter the following interface:

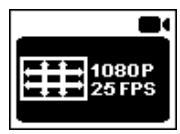


Parameter settings

Recording Parameters

Please follow the steps below to set the recording parameters:

1. Long press the Record key for 3s to enter the full screen mode;
2. Press the Shoot key or Wi-Fi key to adjust the menu mode to " M " and then press the Record key;
3. Press the Wi-Fi key to move the cursor to " ■◀ " and then press the Record key to display the following functional icons:

			
Recording Mode	Resolution setting	View Angle	Bit Rate
Video content loop	180° Image Rollover	Image Time	

❗ You can enter "Recording Mode" to set such parameters as Time Lapse, Timed recording and Shoot-in-recording.

4. Press the Wi-Fi key to select the required functional icon and then press the Record key;
5. Press the Wi-Fi key to select the required functional parameter and then press the Record key to confirm your selection.

6. Press the Shoot key to exit.

> Time Lapse

1sec: Record a picture as a frame of the video every 1s;

2sec: Record a picture as a frame of the video every 2s;

5sec: Record a picture as a frame of the video every 5s;

10sec: Record a picture as a frame of the video every 10s;

30sec: Record a picture as a frame of the video every 30s;

> Timed Recording

5sec: start the video recording 5s after you press the Record key;

10sec: start the video recording 10s after you press the Record key;

20sec: start the video recording 20s after you press the Record key;

> Shoot-in-recording

HM: shoot a photo when you press the Shoot key in the recording process;

5sec: shoot a photo at 5s intervals in the recording process;

10sec: shoot a photo at 10s intervals in the recording process;

30sec: shoot a photo at 30s intervals in the recording process;

60sec: shoot a photo at 60s intervals in the recording process;

> Resolution setting

You can select from the following recording resolutions:

PAL System	NTSC System
1920×1080P 25f 16:9 1280×720P 50f 16:9 WVGA 100f 16:9	1920×1080P 30f 16:9 1280×720P 60f 16:9 WVGA 120f 16:9

> View Angle

You can set the view angle to Wide, Medium, Narrow and Small:

Wide

Medium

Narrow

Small

> Bit Rate

You can set the bit rate to Fine or Normal ("Fine" means clearer image and larger file size).

> Video content loop

You can activate or deactivate loop recording function. If ON, video file will be automatically stored in segment of 10 minutes; If OFF, video file will be stored in segment of 15 minutes.

> 180° Image Rollover

When this function is activated, upright video file can be obtained when using MD10 to shoot video upside down.

❗ This function is not available in WVGA mode.

> Display Time

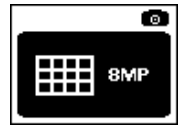
You can choose to display or not display the video recording time at the bottom right corner of the photo.

❗ This function is not available in WVGA mode.

Shooting Parameters

Please follow the steps below to set the shooting parameters:

1. Long press the Record key for 3s to enter the full screen mode;
2. Press the Shoot key or Wi-Fi key to adjust the menu mode to " M " and then press the Record key;
3. Press the Wi-Fi key to move the cursor to " 📷 " and then press the Record key to display the following functional icons:

		
Shooting Mode	Shooting Resolution	Display Time

You can enter "Shooting Mode" to set such parameters as Fast shot, Continuous shooting and Timed shooting.

4. Press the Wi-Fi key to select the required functional icon and then press the Record key;
5. Press the Wi-Fi key to select the required functional parameter and then press the Record key to confirm your selection;
6. Press the Shoot key to exit.

> Fast Shot

3/1s: shoot 3 photos in one second;

6/1s: shoot 6 photos in one second;

8/1s: shoot 8 photos in one second;

> Continuous Shooting

0.5sec: shoot a photo at 0.5s intervals after you press the Shoot key;

1sec: shoot a photo at 1s intervals after you press the Shoot key;

2sec: shoot a photo at 2s intervals after you press the Shoot key;

3sec: shoot a photo at 3s intervals after you press the Shoot key;

5sec: shoot a photo at 5s intervals after you press the

Shoot key;

10sec: shoot a photo at 10s intervals after you press the Shoot key;

20sec: shoot a photo at 20s intervals after you press the Shoot key;

> Timed Shooting

3sec: shoot a photo 3s after you press the Shoot key;

5sec: shoot a photo 5s after you press the Shoot key;

10sec: shoot a photo 10s after you press the Shoot key;

> Shooting Resolution

You can select from the following shooting resolutions:

8mp: 8.0M (3200x2400, 4:3);

5mp: 5.0M (2592x1944, 4:3);

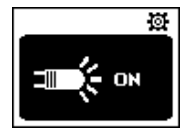
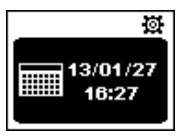
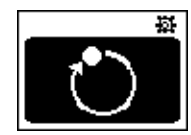
3mp: 3.0M (2048x1536, 4:3);

> Display Time

You can choose to display or not display the photo shooting time at the bottom right corner of the photo.

Basic Settings

1. Long press the Record key for 3s to enter the full screen mode;
2. Press the Shoot key or Wi-Fi key to adjust the menu mode to " M " and then press the Record key;
3. Press the Wi-Fi key to move the cursor to " ⚙ " and then press the Record key to display the following functional icons:

		
Warning tone	Status indicator	On screen display
Auto to standby	TV output format	Language
		
Date & Time	Format	Recover factory setting

4. Press the Wi-Fi key to select the required functional icon and then press the Record key;
5. Press the Wi-Fi key to select the required functional parameter and then press the Record key to confirm your selection;
6. Press the Shoot key to exit.

> Warning tone

You can set the prompt tone to Standard or Off.

> Status indicator

You can set the work indicator to On or Off.

> On screen display

This function allows you to show (On) or hide (Off) the recording icon and video/photo details when you watch videos/ photos on a TV or monitor.

> Auto to standby

You can set the time interval for auto standby to Off, 2min, 5min or 10min. The timer starts to work when there is no shooting, recording or key operation. When the preset time is up, MD10 will auto enter the standby mode. If any operation is performed in the timing process, the timer will be reset. You can press the Record key or shoot key to awaken MD10 from the standby mode.

> TV output format

This function controls the video recording frame rate and the TV system for video playing.

Please select NTSC in North America.

Please select PAL in non-North America areas.

> Format

This function will clear all files from the storage card.

> Recover factory setting

This function will restore MD10 to factory default setting.

Playback

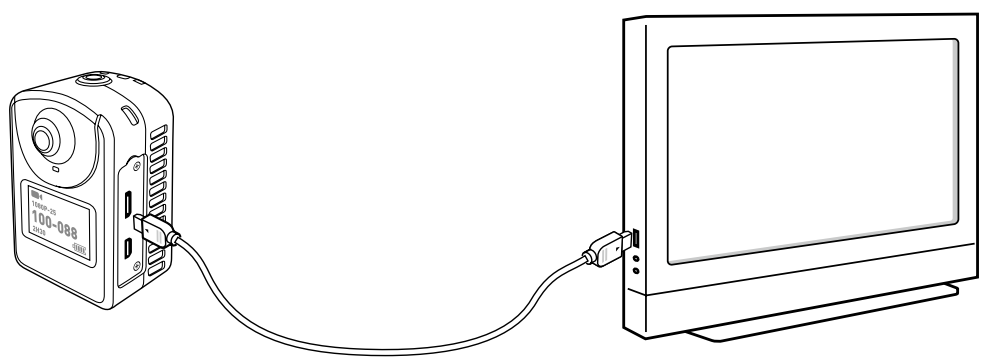
Upload audio/video/photo files to PC

1. Use USB data cable to connect the camera to a PC;
2. Switch on MD10;
3. Click the "My Computer" icon on the desktop and find the "Removable Disc". If the camera is not detected, close "My Computer" window and reopen it after a while. The "removable disc" will be displayed;
4. Double click the "removable disc" icon;
5. Enter the "removable disc" and copy/move the file to the PC's hard disk.

View video / Photo on HDTV

The recorded files can also be played on TV or display with HDMI interface.

Ensure that your camera is properly configured to NTSC (North America) or PAL (Non-North America) video format; otherwise, the video and images on MD10 cannot be properly displayed on TV. Use HDMI cable to connect MD10 to the TV set:



❗ This function is not available when opening Wi-Fi.

Wi-Fi

With integrated Wi-Fi module, MD10 can be connected with Wi-Fi remote control, smartphone or tablet PC to achieve remote control function. First please install appropriate APP software provided by AEE to your device.

> Download a Wi-Fi APP

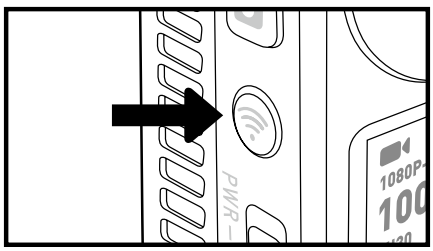
By now, the Wi-Fi APP is already upload to iphone APP store and google play store, customers can freely download it.

1. Android user: Entering the google play store, search "AEE APP" (quotation marks is needed), download and install it, following the user manual to connect the Wi-Fi and operate.
2. Iphone user: Entering the iphone APP store, search AEE , download and install it, following the user manual to connect the Wi-Fi and operate.

APP icon:

> Wi-Fi Starting and Connection

1. Press the Wi-Fi key as shown in the figure below.



If the Wi-Fi function is enabled, the Wi-Fi icon " " will appear on the top of the screen.

Do not perform any key operation when waiting the Wi-Fi function to be enabled or disabled.

2. Turn on your camera,wait until the blue Wi-Fi indicator flashes slowly. Search for Wi-Fi hot spot on a mobile receiving device,select "AEE Magicam" network and connect it (default password: AEE12345). Then the camera and the mobile device are connected.
3. Click the App icon " " on the mobile device to display the icon " " shown in Fig. 1. Enter the interface shown in Fig. 2 to remotely view your camera's screen and set up parameters.

In case of Wi-Fi connection failure, the icon " CONNECTION FAIL! WHETHER OR NOT TO CONNECT? " will appear. Select "Yes" to try to connect again. If you select "No", click the icon " " to enter the WLAN settings interface or click the icon " CONNECTION FAIL! WHETHER OR NOT TO CONNECT? " to enter the main interface to view local files only(Only Android version), no other operation is supported).

Fig. 1 Wi-Fi Connection Interface

Fig. 2 Wi-Fi Control Interface

1. Total number of files
2. Wi-Fi status
3. Battery status
4. Remaining recording time or number of shots
5. Recording Duration
6. Video recording mode
7. Single shot mode
8. Playback mode
9. Maximize preview
10. Current state icon / Start / Stop button
11. Parameter settings
12. Zoom out
13. Zoom in
14. Fast shot mode

You can remotely control your camera by clicking the icons at the main interface.

2H30: Display the remaining recording time in video recording mode;

Display the remaining number of shots in photo shooting mode.

- The mobile device must be used within a distance of max. 100 meters from the MD10 in an obstacle-free and horizontal angle.
- The real-time preview is unavailable for video recording 720P and WVGA mode.

Operating Instructions for Wi-Fi Control Interface

1. Video Recording

Click the Video recording mode icon " ". The current state icon will dispaly as " ", click it to start / stop video recording. Click the icon " " to maximize the preview (See Fig. 3).

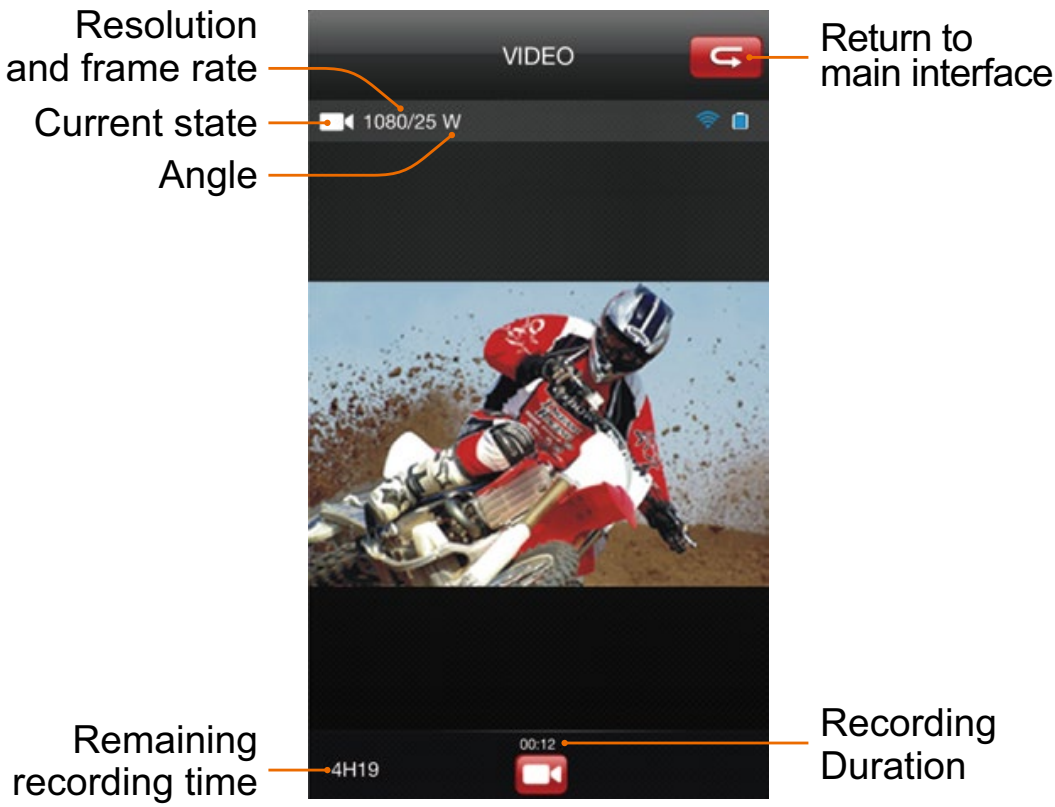


Fig. 3 Video Recording Mode

You can set up your desired recording resolution in the parameter setting interface.

2. Single shot

Click the Single shot mode icon " " ,it will turn blue " ". The current state icon will dispaly as " ", click it to take one picture.

Click the icon " " to maximize the preview (See Fig. 4).

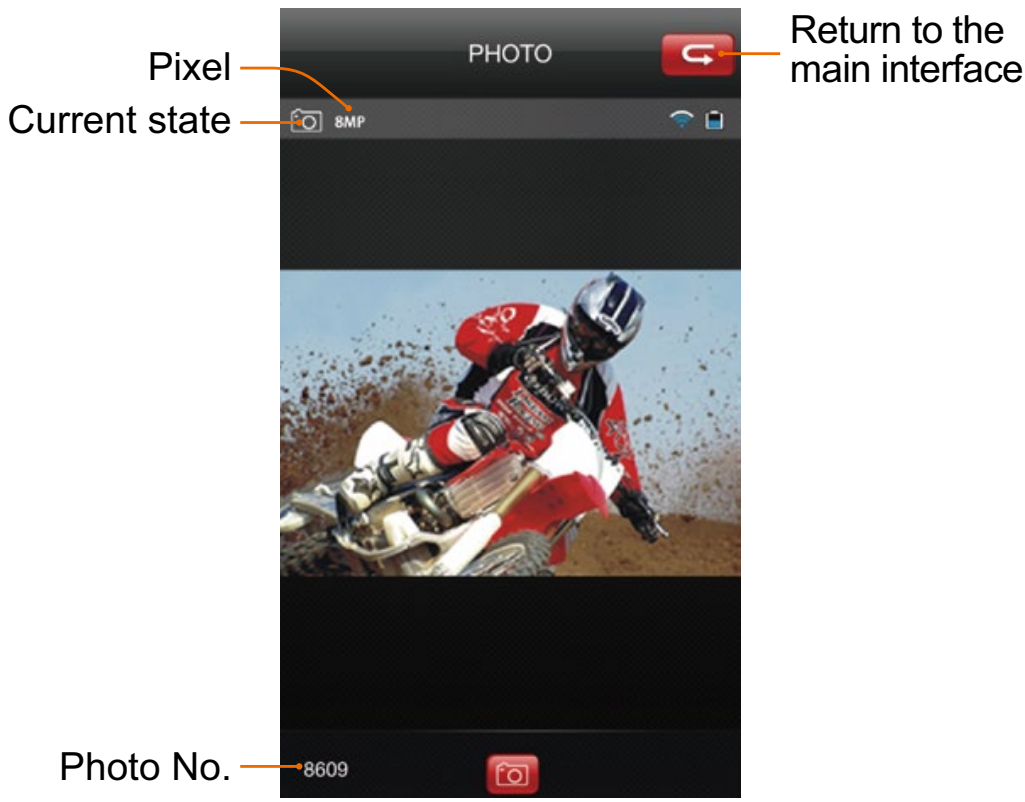


Fig. 4 Single Shot Mode

You can set up the pixel in the parameter setting interface.

3. Fast Shot

Click the Fast shot mode icon " " ,it will turn blue " ". The current state icon will dispaly as " ", click it to take pictures within one second.

Click the icon " " to maximize the preview (See Fig. 5).

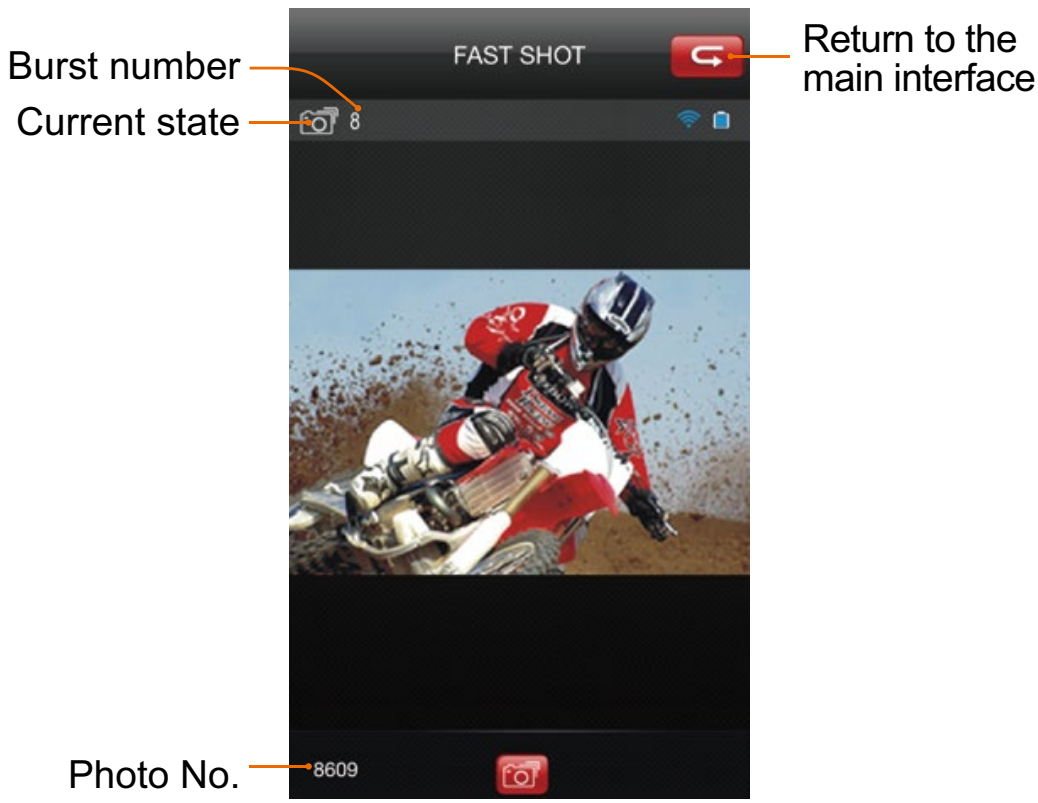


Fig. 5 Fast Shot Mode

You can set how fast the *camera* takes pictures in the camera setting interface.

4. Playback

Click the icon " " to enter the interface shown in Fig. 6 to remotely play videos and photos.

Slide the icon " ". If you select "Camera Storage", you can replay the files stored on the camera. If you select "Mobile Device Storage", you can replay the files downloaded from the camera to the mobile device.

1.Camera Storage

2.Mobile Device Storage

Fig. 6 Playback Interface

Click the icon " " to enter the App settings interface.

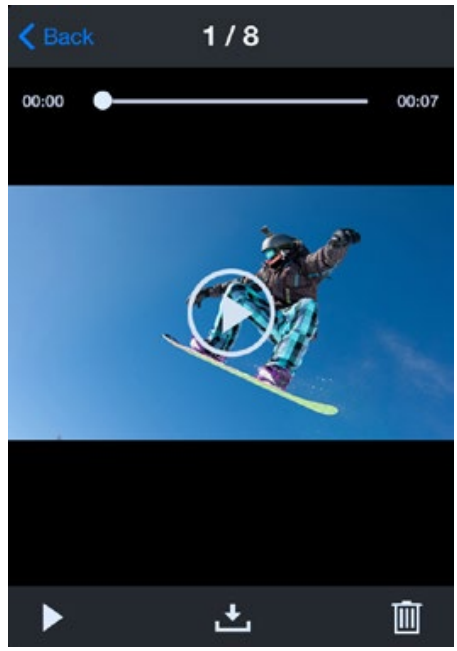
Click the icon " " to return to the WiFi control interface.

Click the icon " " to enter File selecting.

Click the icon " " to download media files from the camera to your mobile device.

Click on the thumbnail to view it in large preview. You could slide left and right to select the desired file.

Photo preview



Video Preview

Click the icon " Back " to return to the thumbnail preview interface.

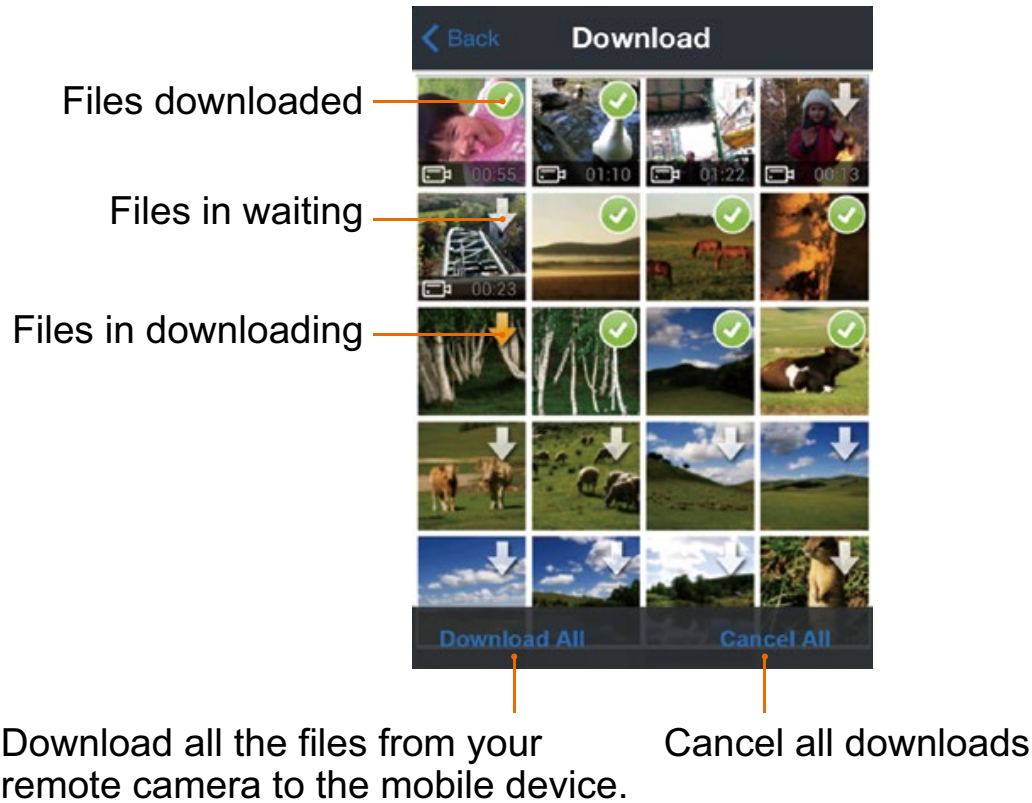
Click the icon " " to download the current file to your mobile device.

Click the icon " " to delete the current file.

Click the icon " " to display video.

Download Files to Mobile Device

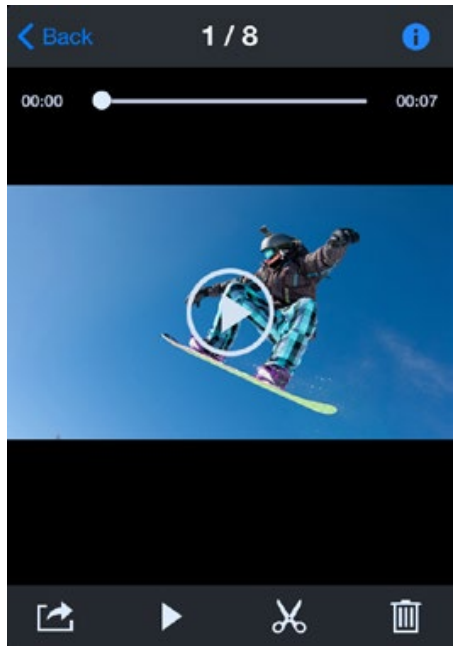
Return to the thumbnail preview interface and click the icon " " to enter the Download interface. Click the desired files to download them to your mobile device.



In the thumbnail preview mode, slide the icon " " to view local files. Click the icon " " to enter the interface shown in the figure below, and then click the desired files to share them to social networking websites.

Click on the thumbnail to view it in large preview. You could slide left and right to select the desired file.

Photo preview



Video Preview

Click the icon " " to view the current file information.

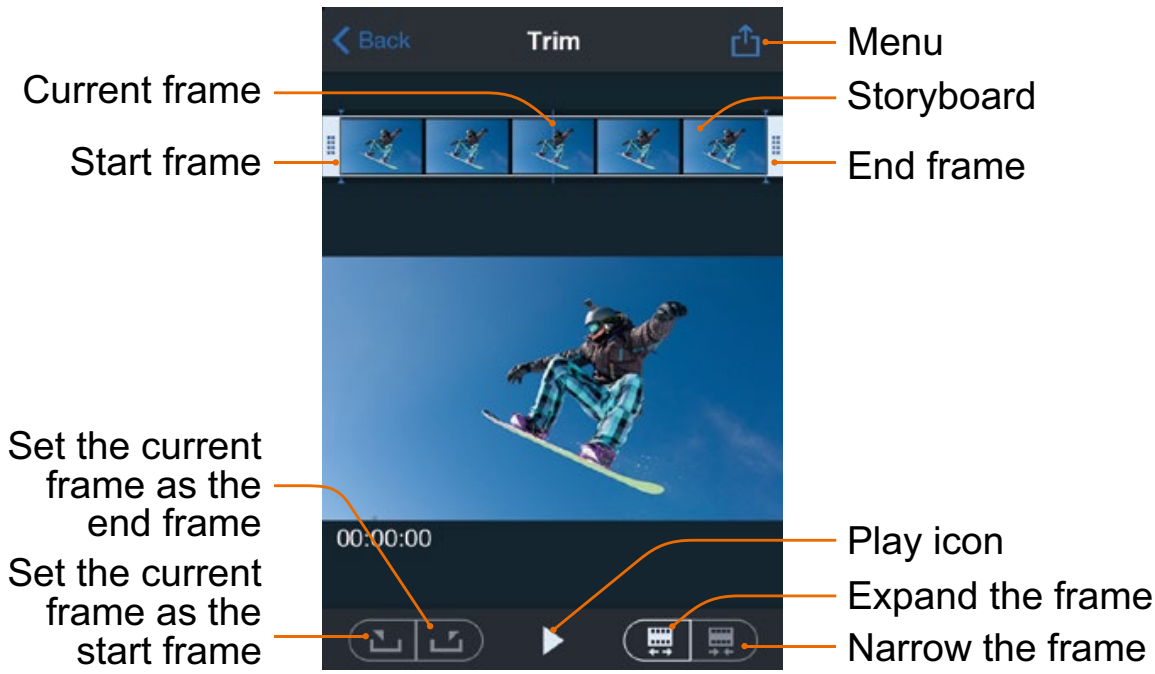
Click the icon " " to enter the video trimming interface.

(" " iOS version)

Click the icon " " to share the current file to a social networking website.

Trim Videos

When viewing the downloaded files on the mobile device, you can click the icon " " at the bottom of the screen to enter the video trimming interface shown in the figure below:



Click the icon " " to save and share the edited video file.

This function allows you to take a clip out of the video to generate another video by changing the starting frame and ending frame.

The following two methods:

One method: chang the starting frame and ending frame by directly dragging the time frame panel (click the Play key for previewing until the best location is reached).

Another method: click "" to set the current frame as the starting frame, drag the time frame panel to change the current

frame, and then click “ ” again to set the current frame as the ending frame.

Change Wi-Fi Connection Name and Password

1. Change the Wi-Fi connection name:

   Connect your camera (with TF card installed) to the computer and turn on your camera. On the computer, double click "My Computer" to find and enter the removable disk, and then open the " " WiFi.conf file in the folder "MISC". Find "AP_SSID=AEE Magicam". Change the content following the equal sign "=" to your desired name and save it.

2. Change the Wi-Fi connection password:

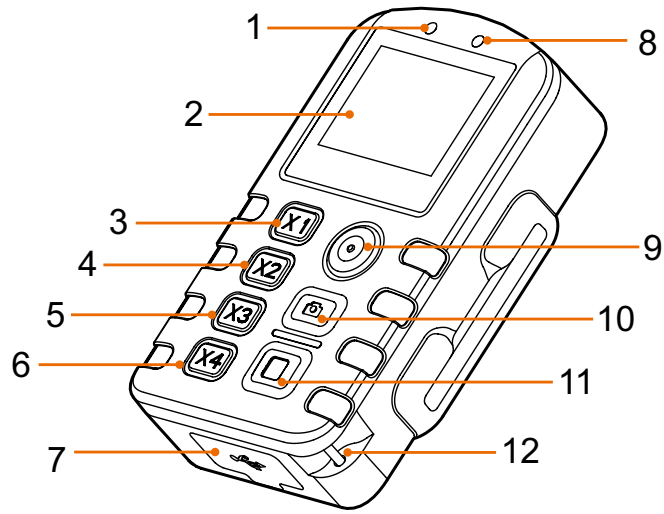
   Connect your camera (with TF card installed) to the computer and turn on your camera. On the computer, double click the icon "My Computer" to find and enter the removable disk, and then open the " " WiFi.conf file in the folder "MISC". Find "AP_PASSWD=AEE12345". Change the content following the equal sign "=" to your desired password (containing at least 8 digits and above) and save it. (It supports 8-digit password only.)

❗ In case of synchronous operation of the camera and the Wi-Fi based remote control, MD10 will give priority to the operation command from the camera.

❗ Above images for reference only, subject to our available App.

Wi-Fi Based Remote

Guide for Components



1. Power Indicator
2. Screen
3. Wide view Button
4. Medium view Button
5. Narrow view Button
6. Small view Button
7. USB Port
8. Wi-Fi Indicator
9. Power/Record Button
10. Shutter Button
11. Stop Button
12. Strap hole

Buttons	Functions
	Long press it for about 5s to turn on/off the Wi-Fi based remote control.
	Under the photographing mode, press it once to switch the current mode to the video recording mode.
	Under the video recording mode, press it once to start video recording.
	After entering the mode selection state, press it to select the option upwards.
	Under the video recording mode, press it once to switch the current mode to the photographing mode.
	Under photographing mode, press it once to take a photo.
	Long press it for about 2s to enter the mode selection state.
	Select your desired mode, and press it to enter.
	During video recording, press it to stop video recording.
	After entering the mode selection state, press it to select the option downwards.
X1	Press it once to switch the viewing angle of the camera to wide angle.
X2	Press it once to switch the viewing angle of the camera to medium angle.
X3	Press it once to switch the viewing angle of the camera to narrow angle.
X4	Press it once to switch the viewing angle of the camera to small angle.

- Viewing angle switching buttons in the remote control can only be used in the 1080p mode.
- When DRC10 accidentally crashes in use, can not be normal shutdown, you can press "Wide view" and "Small view" key to forced shutdown.

Startup

Long hold the "Power / Record" button for about 5s to start up the Wi-Fi based remote control.

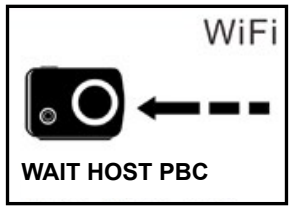
After startup, the screen will display the battery icon " ▭ "; if the battery icon is empty, it indicates that the battery level is low and charging is needed; please connect the USB power supply to the USB port of the remote control for charging.

Pairing

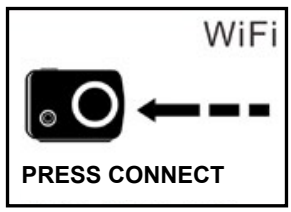
Before using the Wi-Fi remote control, code pairing should be done between it and MD10:

1. Turn on MD10 and enable its Wi-Fi function;
2. Press and hold the stop key and then long press the power/ record key for 5s to turn on the remote control. The red indicator will be lit and the battery icon " ▭ " will appear on the screen of the remote control;

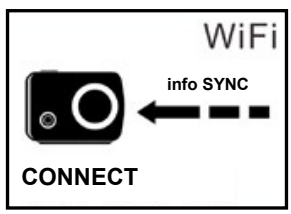
3. Press and hold the power/record key and stop key on the remote control again until you see "WAIT HOST PBC" as shown below:



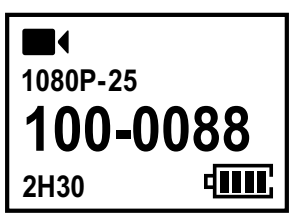
4. Long press the Wi-Fi key on MD10 for 10s until the remote control enters the following interface:



5. Press the stop key on the remote control to start the connection as shown below:



6. When the remote control enters the recording standby state and the following interface, code pairing is completed successfully.



Specifications

Description	Specification
Charging Time via USB	2h (max.)
Service time of fully charged battery	5h (max.)
Battery capacity	500mAh
Power consumption	0.30W-0.35W
IP rating	IP66
Remote control distance	120M
Specification of USB	USB 2.0
Overall dimension	77×46×19mm
Weight	59g
Working temperature	-10°C~+50°C
Storage temperature	-20°C~+60°C

Precautions

1. This remote control is a sophisticated product; dropping or physical impact on this product is not allowed.
2. The remote control should not get close to objects with high-intensity magnetic field such as magnet and electric motor, or to objects that send out strong radio waves such as antenna. Strong magnetic field may result in failure of the remote control.
3. Please do not put the remote control in a place with high temperature or direct sunshine.
4. Please put the remote control in a cool, dry and dustless place.
5. This product is not designed with the function of auto standby; if it is idle for a long time after startup, please turn off the power of the remote control.
6. The remote control is able to connect to one host only each time. It can’t connect to multiple hosts simultaneously.
7. If the remote control disconnects abnormally and can’t be used normally, please simply reboot it to put it back to use.
8. Please don’t operate the remote control while it’s being charged, in case it will cause malfunction.
9. If you activate video recording function in the host with remote control, simply press Stop button on the remote control to stop recording. Please don’t press the Stop button on the host to stop recording, in case it will cause malfunction.

Accessory application

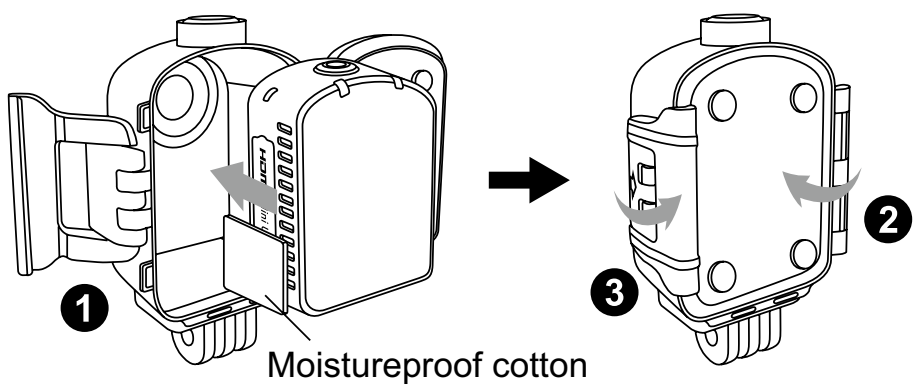
MD10 is suitable for handhold use or hand-free use at most places by using appropriate accessories. MD10 fitted with water-proof housing can be used to record videos underwater.

Water-proof housing and Moisture-proof foam

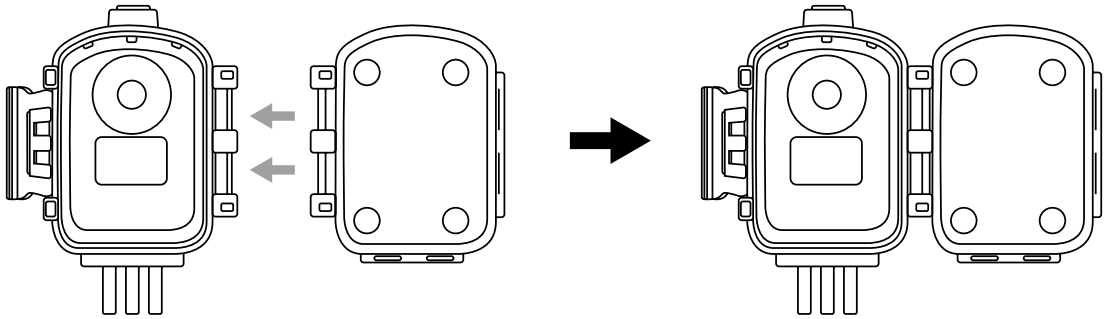
MD10 water-proof housing up to IP68 can protect the camera 20 meters underwater. In order to avoid and reduce the dewing on the glass of the water-proof house, we suggest inputting the moistureproof cotton inside the water-proof case in big temperature range environment.

After installing MD10 into the waterproof case, you can long press the Shoot key and Wi-Fi key simultaneously for 5s to turn it on. Similarly, you can long press the Shoot key and Wi-Fi key simultaneously for 5s again to turn off MD10.

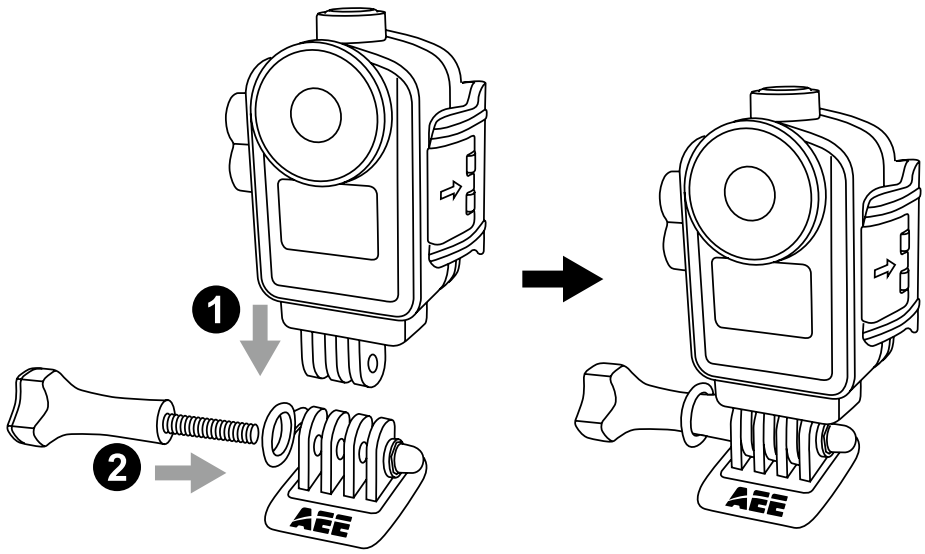
Follow these steps to load MD10 into water-proof housing:



Follow these steps to assemble the waterproof housing rear case:

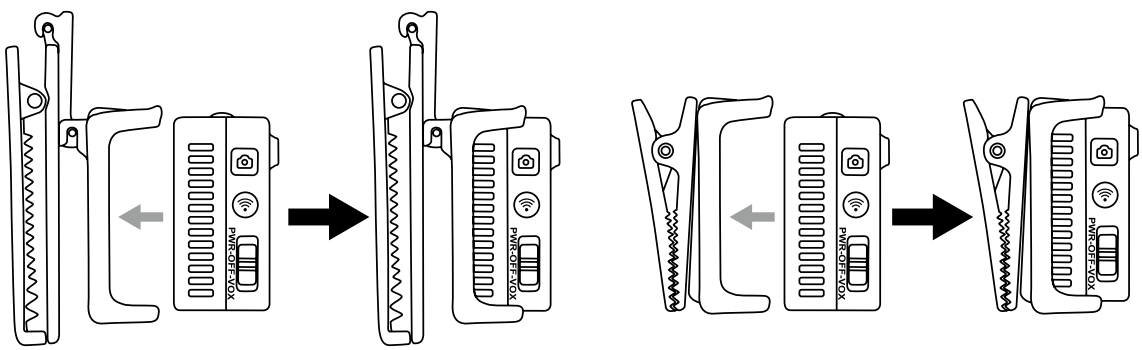


The plug bracket can fix MD10 water-proof housing firmly onto the sticky seat, as below:



Installation of Back Clip

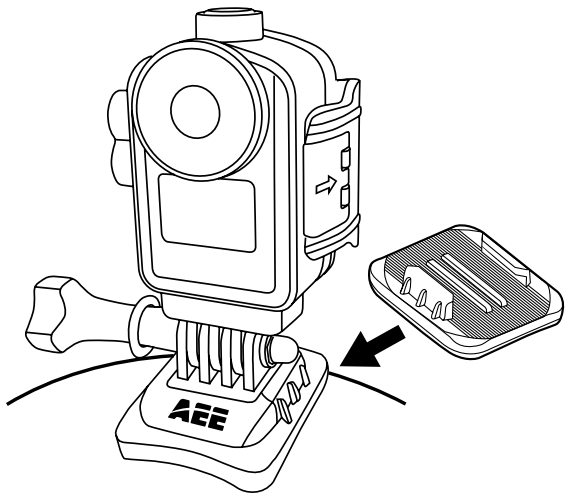
The back clip should be installed as shown in the figure below:



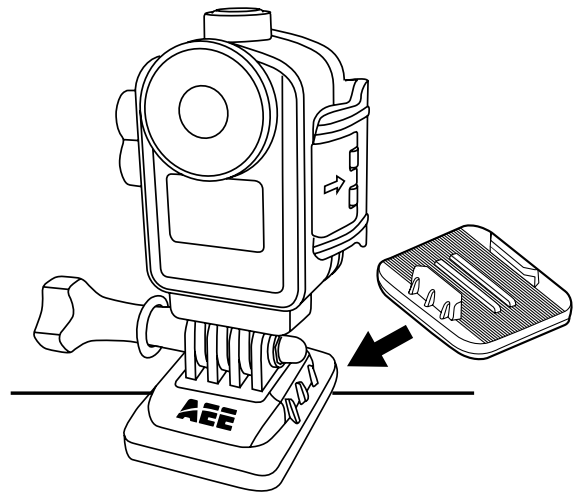
Use convex sticker and flat sticker

MD10 comes with sticker fitting and flat sticker for installation on different surfaces.

You can easily attach the camera onto helmet, vehicles or the surface of other devices.



M08 convex sticker



M15 flat sticker

Precautions for the use of 3M double-sided foam tape:

1. Before fixing 3M double-sided foam tape, please select an appropriate curved or flat surface where the tape can fit with the surface.
2. Before using 3M foam tape, please clean the surface to be adhered to.
3. Before applying 3M foam tape, it is suggested to heat its surface properly (electric blower may be used), especially when the temperature is below -20°C.

Specifications

Description	Specifications
Visual angle	136°
Aperture	f/2.6
Pixel	8 million
Video recording format	MP4
Audio recording format	WAV
Photo format	JPG (JPEG)
Wi-Fi transmission distance	About 100 meter (MAX)
Standard battery capacity	1000mAh
Power consumption	550mA
Recharging duration	USB Cable: About 2.0 hours
	Power Adapter: About 2.0 hours
Maximum video recording time	About 3.0 hours (Max.)
Maximum audio recording time	About 4.0 hours (Max.)
Operating platform requirements	Operating system: Windows XP SP2 / Vista or above / Mac OS;
Storage temperature	-20°C ~ 60°C
Operating temperature	-10°C ~ 50°C
Dimension	L34 × W28 × H52mm
Unit weight	54g

❗ As our products undergo continuous development, the specifications are subject to change without prior notice.

Power Supply

The MD10 video camera uses a power unit certified by the following authorities.

UL mark
U.S. Power
Certificatation

C-TICK mark
Australia Power
Certification

CE mark
E.U. Power
Certification

GS mark
Germany Power
Certification

CCC mark
China Power
Certification

PSE mark
Japan Power
Certification

BS mark
U.K. Power
Certification

❗ The surface temperature of a power unit in use may increase, and this situation is normal.

Precautions for the Waterproof housing

The waterproof housing is a precision component. When using the waterproof housing, adhere to the following precautions:

1. Do not randomly remove or change the O-ring, key, and lens cover. Otherwise, the waterproof performance deteriorates.
2. Do not put the waterproof housing in a place where corrosive gases are easily generated due to strong acid or alkali. Do not make the waterproof housing in contact with chemical or corrosive objects, such as strong acid or alkali.
3. Do not put the waterproof housing in a place where temperature is high (50°C) or low (-10°C) for a long time to avoid deformation.
4. Do not expose the MD10 video camera to sunshine for a long time to avoid deterioration of the waterproof performance.
5. Before use, ensure that the O-ring is intact, the seal is litter-free, the housing is fully sealed, and the buckle is tight.
6. After using the housing in sea water, wash it using fresh water, clean it, and dry it in a cool place.

Tips

1. When the unit is in used for long period, it is natural that its surface temperature will rise.
2. If you will not use the unit for long period, it is suggested that you charge it once every 6th month to maintain the performance of battery.
3. Use of digital zooming function during shooting will have slight impact on the image quality.
4. The visual angles under different modes will be slightly different.
5. To smoothly play a high-definition video file, it is suggested to use a PC or other professional device.
6. If you enable cyclic recording function for long period or frequently shoot/delete photos, the memory card may have data fragments so that you may not be able to store or shoot photos. Please back up the data to external storage medium and perform formatting operation to the memory card.
7. When the camera works in a high-temperature environment, the lattice screen may become black, which is a normal phenomenon and will not affect its function.
8. When the camera is used for a long time, the temperature of the metal parts near the lens may rise, which is a normal phenomenon; please do not touch the heated metal parts.
9. Hot plugging is not supported; in case of white screen, please restart the camera to return to normal.

FCC Notices

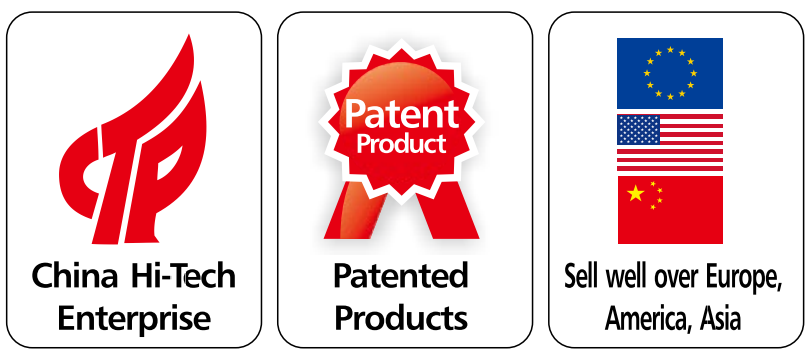
1. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.
2. This device complies with Part 15 of the FCC Rules. (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: 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.

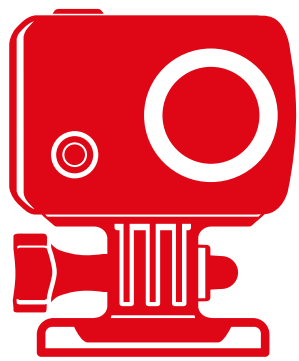
Harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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 RF warning statement: the device has been evaluated to meet general RF exposure requirement , The device can be used in portable exposure condition without restriction.



Please read this user manual carefully and thoroughly before any attempt to install and operate this product and retain it for your future reference.



Recording Equipment

The leader of recording equipments