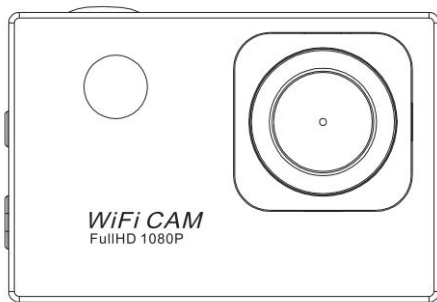




User Manual

Function

Thank you for choosing this camera. Please carefully read the manual before using, and keep it at a safe place for future reference.

The compilation of the user manual refers to the latest information. The manual quotes captured screen displays and graphics, with the aim to introduce the digital camera through detailed and direct methods. Due to the differences of technical R&D and production batch, those captured screen displays and graphics indicated in the manual may be different from that of actual digital camera.

The device is belong to an automobile data recorder, and the device is fixed in the car when it is used. The device is prohibited to be used near body.

Precautions

TF high-speed card (multimedia memory card) at Class4 or above is required for this camera.s

Instructions for using the memory card

- In case of a newly purchased memory card for the first time use, or data available in the memory card unrecognized for the camera or image captured by other cameras, please ensure to firstly format the memory card;
- Before plugging in or out the memory card, please firstly disconnect power supply of the camera;
- After using for many times, performance of the memory card will be lowered. In case of lowered performance, a new memory card is needed to purchase;
- The memory card is a precise electronic device. Please don't bend it and keep it away from falling or heavy load;
- Don't keep the memory card in the environment with strong electromagnetic or magnetic field, like the

place near speaker or receiver of TV;

- Don't use or keep the memory card in environment with over high or low temperature;
- Keep the memory card clean and away from contacting liquid. In case of contacting liquid, please dry it with soft cloth;
- In case of keeping the memory card idle, place it into the card sleeve;
- Please note that the memory card will get hot after long-term use, and this is normal;
- Don't use the memory card having used on other digital cameras. If to memory card on this camera, please firstly format it with the camera;
- Don't use the memory card having formatted on other camera or card reader;
- In case of one of the followings with the memory card, the recorded data may be damaged:
 - Improper use of the memory card;
 - Disconnect power supply or take the memory card out during recording, deleting (formatting) or reading;
- You are recommended to backup important data on other media like soft disk, hard disk, CD.

Camera Maintenance

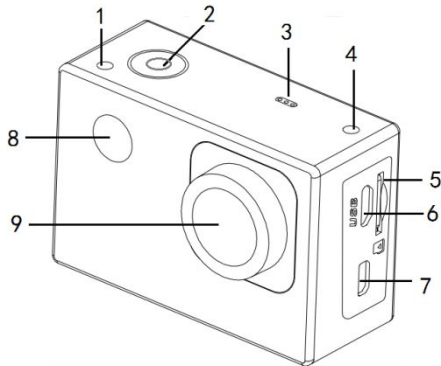
- Keep it in a dry and dark place for keeping idle;
- Use proper protective cover to avoid lens and display scratched;
- In case of cleaning the surface of camera lens, first blow the dust off the surface, use a cloth or paper available to optical equipment to wipe the lens gently. Use the professional camera cleanser to clean the lens. Do not use any organic solvent;
- Do not touch the lens surface by fingers.

System requirements

When operating or using the digital camera, please take minimum system requirements for the computer of the camera into consideration. You are strongly recommended to use better computer equipment for operating the camera to achieve the optimized effect. The minimum system requirements are as below:

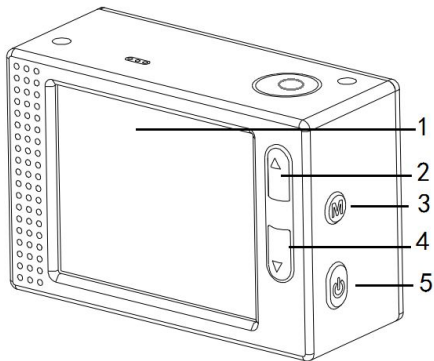
System Requirements		
Operating System	PCCAM	Microsoft Window XP(SP3), Vista, 7, 8 Mac OS X ver: 10.8.0 or above version
	MSDC	Microsoft Window 2000, XP, Vista, 7, 8 Mac OS X ver: 10.0.0 or above version
CPU		Intel Pentium of more than 1GHz or other CPU with equivalent performance
Internal Memory		Larger than 1GB
Sound Card and Display Card		The sound card and video card shall support DirectX8 or higher version.
CD Driver		Speed of 4 times or faster
Hard Disk		Free space of more than 2GB
Others		One standard USB1.1 or USB2.0 port

Appearance

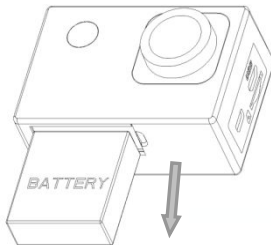
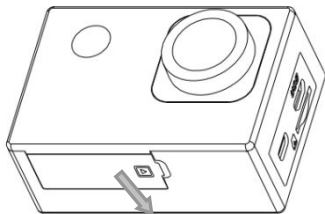


- 1. Busy indicator light(blue);
- 2. Shutter key;
- 3. Audio Alert;
- 4. Charge indicator light(red);
- 5. MicroSD Card Slot;
- 6. Micro-USB Port;
- 7. Micro HDMI Port;
- 8. Infrared remote light
- 9. Len;

1. LCD;
2. Up key;
3. Mode key;
4. Down key;
5. Power/menu key;



Removing the battery from the camera



- 1.remove the battery door by placing your thumb
- 2.Allow the door to pop out. Grasp the battery pull-tab and remove from the camera

Start to use

1. Charge the built-in lithium battery

The camera is equipped with built-in 3.7V lithium battery. Please ensure power available for the camera and timely charge it in case of low battery.

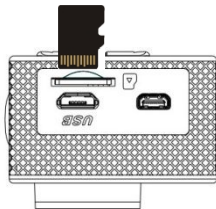


Connect the camera to computer for charging under shutdown status. The charging indicator will be on when charging, and will be off when the battery is fully charged. Generally, the battery can be fully charged after about 4 hours.

Note: When the DV is on, It will not charge until the DV turn off.

2. How to use the memory card

- 2.1. Properly insert the TF card into the card holder as per the instructions indicated near the card holder.
- 2.2. To remove the TF card, press the end of memory card gently, the card will be ejected.



Note: The camera is not equipped with built-in memory. Please insert memory card before using. Before using the camera, it is a must to format the memory card on the camera.

3. Startup and shutdown

- 3.1 Startup: press the POWER key for 3 second, the camera will show startup screen and enters into POWER ON state;
- 3.2 Shutdown: press the POWER key for 3 second when the camera is under idle mode to shut down;

3.3 Auto shutdown: the camera will be shut down automatically when the camera is under idle mode for a certain time to save power. The default time for auto shutdown is 3 min.

3.4 Shutdown under low power: when the battery is under low power, the LCD will indicate “”. Please charge the battery timely. When the Screen display “low battery”, the camera will be shut down automatically.

4. Function modes switching

The camera has 4 modes: recording mode, vehicle-mounted mode, photo mode and playback mode. Press the Mode key to switch the modes after starting up.

Recording mode: video can be recorded;

vehicle-mounted mode: videotape can be recorded (one section every 3 minutes);

Photo mode: for taking photos;

Playback mode: for playing back the current video.

5. Indicators

5.1 BUSY indicator: When the camera is working (e.g. recording, photographing, etc.), the indicator will light;

5.2 Charging indicator: In shutdown state, the lightened indicator means the user is charging the camera.

6. Photo/recording/vehicle-mounted /mode

It enters automatically into recording mode.

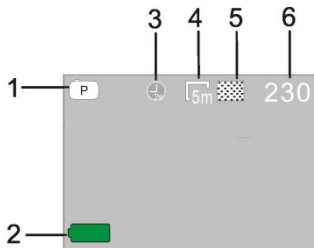
Press Shutter to start recording, and press Shutter again to stop recording.

Press Mode key to vehicle-mounted mode.

Press Shutter to start recording, and press Shutter again to stop recording.

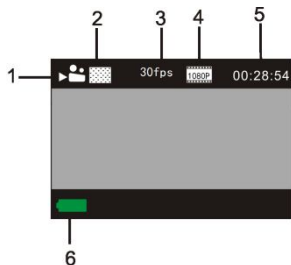
Press Mode key to photo mode.

6.1 Screen display in photo mode



1. Photo mode;
2. Battery state;
3. Self-timer mode;
4. Photo resolution;
5. Photo quality;
6. Available shooting count;

6.2 Screen display in recording mode

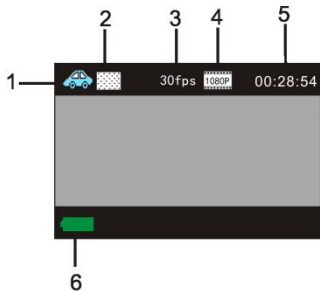


1. Recording mode;
2. Video quality;
3. Video framerate
4. Video resolution;
5. Available time to record;
6. Battery state;

Note:

1. When using the HD size or FHD video, you must use the TF high-speed card at class 4 or above .
2. Automatic screen-off will be performed during recording for saving power. User may short press any key to enable the screen for displaying.

6.3 Screen display in vehicle-mounted mode



1. In vehicle-mounted mode;
2. Video quality;
3. Video framerate
4. Video resolution;
5. Available time to record;
6. Battery state;

gh

Note:

Press the shutter button once under the preview state to begin recording, save a segment for recording every 3 minutes, then start to record the next segment of video. When the storage card is full, the earliest segment of video will be deleted to release the corresponding space for continuous recording.

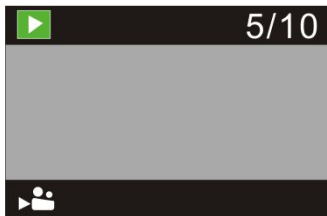
7. Playback mode

Turn on the camera,you can press the mode key to enter playback mode.and you can press the Up/Down key to choose CAR/VIDEO/JPG,then press the shutter key to enter preview.

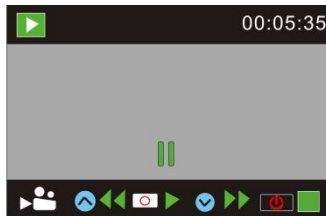
Press Mode key to enter playback mode to browse photo/video, play the video recorded by this camera.

Press Up/Down key to access to previous or next photo/video.

Play movie: Press the shutter key to start/pause play video, press the Up/Down key to Retreat quickly /fast forward playback, press the power key to stop play video.



Video file playback



Video pause mode

8. Menu Setting Mode

8.1 Menu display

In photo, recording, vehicle-mounted and playback mode, press Power key to open the menu, and then press Up/Down key to select menu, press the Shutter key to enter submenu. When selecting menu, the selected menu will be displayed with blue background.

Recording/vehicle-mounted menu mode:

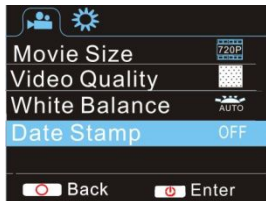
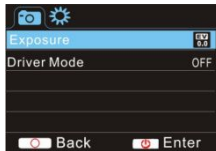


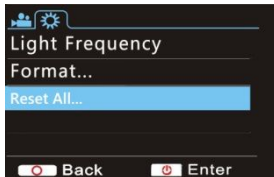
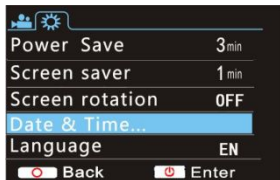
Photo menu mode:



8.2 System mode menu setting

After opening the menu by pressing Power key, press mode key to switch over to setting main menu, press Up/Down key to select menu, and after that to press Shutter key for confirming to enter the submenu. In the submenu, press Up or Down key to select menu, and press Shutter to confirm. After returning to the main menu, press Power key to exit from the menu.

System menu mode:



8.3 Setting date and time

Press Power key to open the menu, press Mode key to switch to setting menu, and then press Shutter key to confirm. Press Down key to select “Date and time” in menu item, and then press Shutter key to enter setting window.

In setting window, press Mode key to select items (date, time) to be adjusted, and then press Up key or Down key to make adjustment, press Shutter key for conformation at completion of adjustment, or press

Power key to cancel setting and exit. Finally, press Power key to exit from setting mode.



8.4 Playback mode menu setting

In playback mode press power key to open playback main menu, press Up or Down key to select menu, press Shutter key to enter submenu. In the submenu, press Up or Down key for selection, and press Shutter key to confirm. After returning to the main menu, press Mode key to exit from the menu.

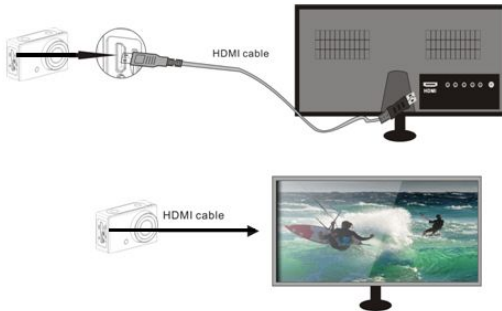
Playback mode menu



9. Connecting to HDTV

5.1 Connect the DV to HDTV via HDMI cable (optional)

If you need to transfer the image and audio to an HDTV for playback, insert the Com end of the HDMI cable to the DV, and the other end (output) to the HD input of the HDTV, as shown in the following figure:



When the camera is connected with the HDTV successfully, the camera display is synchronize with HDTV display.

Note: Before connecting or removing the HDMI cable, please stop video recording and disconnect Wi-Fi first.

10. Connect to PC

10.1 When the camera is connected with the computer and entering removable disk mode, there will be a removable disk added in the window of “My computer”. The photo or video file may be stored in the catalogue of “DCIM\CAR,JPG,VIDEO” in the removable disk. You may enter this catalogue to copy files on to hard disk of your computer.



Note: During file downloading, it is prohibited to disconnect USB connection, and plugging out the memory card when USB connected is also prohibited to avoid loss of data.

10.2 In U-disk mode (MSDC mode), press the Shutter key to switch to web cam mode (PCCAM) .the LCD will display:**PCCAM**

Now you can start the web cam through application. To return to U-disk mode (MSDC mode), press the power key again.

Note:Driver is not required for web cam mode (PCCAM mode) on Windows XP(SP3) version or above.

11. APP (Support Android and ISO)

1. How to install an APP

1.1 Search for “Ismart DV” in Google Play (for Android OS) to find the APP and install it according to the instruction.

1.2 Search for “Ismart DV” in APP Store (for iOS) to find the APP and install it according to the instruction.

2. Android APP

2.1 Install “Ismart DV” APP (provided by dealer or via internet) on smartphone or tablet. When installation

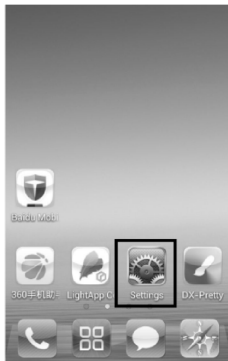
completes, the LCD will display icon :



2.2 Insert the TF card and turn on the DV,The LCD show WIFI icon .When you want to turn on the wifi,you can press the shutter key about 3seconds,the LCD Screen display:Waiting for WiFi connection.....and the Busy indicator will flash.the LCD show WIFI icon .

2.3 Enable Wi-Fi on smartphone or tablet and search for wireless AP signal “**DV555SA**”, then connect it to DV, until the system displays “Connected successfully”.After it Connects successfully,the LCD Screen will turn off after about 15 seconds,and the wifi indicator will not flash.when you press shutter key to turn on the LCD Screen,the LCD Screen display:WiFi Connection Ready!and turn off the WIFI immediately.

Note: The first time connecting to DV, you need to enter password “1234567890” .





2.4 Click the icon  in the App list of the smartphone or tablet to open it. Now you can preview the image

sent by the DV on the phone or tablet and start some operating. The operation interface on terminal is shown in the following figure.



1. Video resolution
2. White balance
3. Setup (enter setup menu)
4. Enter Playback mode
5. Shutter button
6. Photo mode
7. Video mode
8. Wi-Fi signal icon
9. DV battery icon

3. iOS APP

3.1 Install “Ismart DV” APP (provided by dealer or via internet) on iOS phone or tablet. When installation

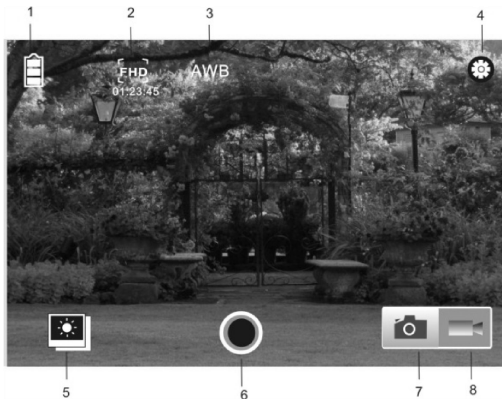


completes, the LCD will display icon

3.3 Enable Wi-Fi on iOS phone or tablet and search for wireless AP signal “DV555SA”, then connect it to DV, until the system displays “Connected successfully”.



3.4 Click the icon in the App list of the iOS phone or tablet to open it. Now you can preview the image sent by the DV on the phone or tablet and start some operating. The operation interface on terminal is shown in the following figure.



1. DV battery icon
2. Video resolution
3. White balance
4. Setup (enter setup menu)
5. Enter Playback mode
6. Shutter button
7. Photo mode
8. Video mode

Note:

A TF card must be inserted if you need to take a photo, record a video, or download files on the terminal;

Technical parameters

Image sensor	5.0 mega-pixel CMOS image sensor
Function mode	Recording, Driving recorder,photo, playback
LCD screen	2.0" LCD Screen
Picture resolution	12M (4000 x 3000), 10M (3648×2736), 8M (3264 x 2448), 5M (2560 x 1920),
Video resolution	FHD (1920x1080 30fps), HD (1280x720 30fps), HD (1280x720 60fps)
Storage medium	TF card (Maximum supporting 32GB)
File format	JPEG, H.264
Driver Mode	2 sec./10 sec.
USB port	USB 2.0/3.0
Power supply	Built-in 3.7V rechargeable lithium battery
Menu language	English/Simplified Chinese/Traditional Chinese

Power Save	1 min. / 3 min./5 min./ OFF
Operating system requirements	Windows XP/Vista/7/8, Mac 10.8
Dimensions	61x41x30mm

Note: The product design specification is made based on updated information when compiling this product manual. The specification is subject to change without further notice. The product is subject to the actual camera.

FCC Compliance

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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

“This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.”