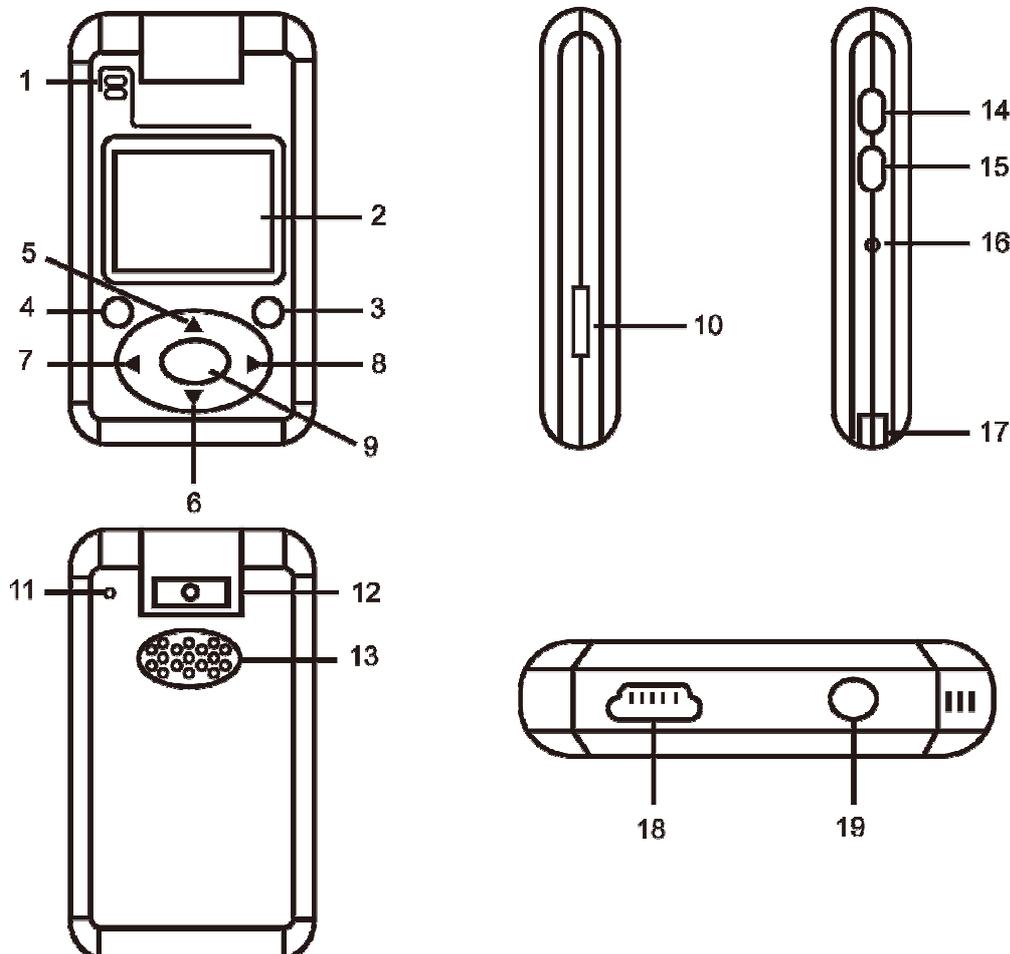# Model Number: DIY-SDVA010

Product Features

• The design of ultra-small body, to facilitate easy video recording and monitoring on various occasions.

• AVI format of video recording, to facilitate PC to plug and place

  directly and to easily upload video website.

• With low illumination, 3 million pixel CMOS sensor.

• 1.5 inch TFT display screen.

• Synchronous display of time recording video.

• For car use, start up engine automatic record function.

• Support charge and record simultaneously.

• High-speed dynamic video recording, instant response to light

  environment.

• Support 32GB memory cards at maximum.

• Video output: 640*480 @ 30 frames/sec.

• Photo output: JPEG 1600*1200.

• AV OUT function. • 8 times digital zoom.

• Portable installation, it is convenient for installation and use in different occasions.

Product Structure Sketch Map

1. Indicator Light   2. Display Screen   3. Mode Key   4. Replay Key

5. Up Key   5. Down Key   7. Left   Key   8. Right Key

9. OK key   10. Micro SD Card Slot   11. MIC   12. Camera Lens

13. Speaker   14. Power Switch Key   15. Menu Key   16. Reset Key

17. Hang Buckle   18. USB Slot   19. AV OUT Slot

Definition of key functions

Keys	Functions
Power Switch Key	Turn On/Turn Off/Screen saver
Menu Key	Setup DV function
Mode Key	Used to select different work mode
Replay Key	Press the key to enter Record and Photo browse mode
Up Key	Up & digital zoom in / the up choice of the menu/adjustment the date and time
Down Key	Down & digital zoom out / the down choice of the menu/Play and Pause of the replay mode / adjustment the date and time
Left Key	The left choice for the menu/Exit menu/Switch of timed exposure time
Right Key	The right choice for the menu
OK key	Used to confirm the change / Start and Pause of the recording and video mode / Play and Pause of the replay mode
Reset Key	Press the key to reset system

Menu

Camera mode sub-menu			
Items	Sub-menu	Descriptions	Functions
1	Size	3M/2M(Default)/3M/VGA	Choose output size of the photo
2	Quality	High-quality(Default) Standard Economy	Setting quality of the video and photo
3	Scene mode	Auto(Default)/Motion/Night	Setting Scene
4	EV	+1/3 +0.0(Default) -1/3 -2/3 -1.0	Exposure Level
5	White balance	Auto(Default)/Sunlight/Cloudy/Tungsten Filament lamp/Fluorsecence	Adjust white balance
6	ISO	Auto/100/200	Select sensitivity
7	Colors	Standard(Default)/Fresh/Puce/Black and White	Setting color
8	Saturation	High/Normal(Default)/Low	Settin saturation
9	Acutance	Normal(Dedault)Sharp/Soft	Setting acution
10	Review	On/Off	Preview photos when

			taking pictures
11	Time stamp	Off(Default)/Date/Date and Time	Display time and date in the photos
12	Continuous shooting	On/Off(Default)	Continuons shooting 3 photos in 10 seconds

IV. Menu

Video mode sub-menu			
Items	Size	VGA	640*480
1		QVGA	320*240
2	EV	0.0 (default)	Exposure level
3	White balance	Auto(default)/sunlight/cloudy tungsten filament lamp/fluorescence	Adjust white balance
4	Time stamp	Off(default)/Date/ Date and time	Display time and date in the video files
Replay mode sub-menu			
1	Delete	Single (default)/all/selections	Select deletion file mode
2	Replay slide show	3 seconds (default) /5 seconds/10 seconds	Select time frequency of replay slide show
3	Thumbnail		Thumbnail view
4	Volume	1/2/3/4/8/6/7/8	Adjust volume of the built-in speaker

Menu

System setting menu			
1	Format	Format	Format memory card
2	Languages	English/Traditional Chinese (default)/Simplified Chinese/French/Geman/Italian/Spanish/Portuguese	Display the selected Language
3	Automatic shutdown	1 minute/3 minutes/5 minutes/Off	If you do not do anything, DV will turn off automatically in 1 minute/3 minutes(default)/5 minutes
4	Reset system	Executive/Cancel	Restore detfault settings
5	Optical frequency	50 Hz (dethult)	Most European power frequency
		60 Hz	Most the United States

			power frequency
6	Video output format	NTSC (default)	Video formats of United States and Japan
		PAL	Video formats of Europe
7	Input date	Off(default)/Setup	Adjustment year, month, day and time
8	USB	PC camera	Connect with USB for PC CAMER
		Disk drive	Connect USB and data can be read

Function Operation

Take Photos

1. Insert a Micro SD card.

2. Long press Power Switch key to turn on the device, directly enter the camera mode. (If use the external charger for supplying power, stop recording first, then press the mode key to switch to the camera mode.)

3. Find a view through LCD screen, short press OK Key, and then one time photo-taking is completed.

Timed Exposure Function

If you want to take a photo by yourself, or require that **DIY-SDVA010** can't move when taking a photo, you can select timed exposure function:

1. Enter the camera mode after power on.

2. Press Left Key to enter timed exposure mode, and press Left Key again to switch the timed exposure time (2 seconds/10 seconds).

3. Press OK Key to take a photo.

4. When the set time countdown is completed, **DIY-SDVA010** will take a photo automatically.

Record Sound Function

1. Insert a Micro SD card.

2. Long press Power Switch key to turn on the device, press Mode key to switch to Record Sound mode.

3. Press OK key to start recording, press OK key again to stop recording.

Manual Recording

1. Insert a Micro SD card.

2. Long press Power Switch key to turn on the device, press Mode key to switch to Record mode.

3. Press OK key to start recording, press OK key again to stop recording.

Motion Detection Recording

1. Insert a Micro SD card.

2. Long press Power Switch key to turn on the device, press Mode key to switch to Motion Detection mode, the device is in the motion detection standby state after few seconds. Now Blue light flashes (switch between on and off at an interval of 3 seconds); (If use the external charger for supplying power, stop recording first, then press the mode key to switch to the motion detection mode.)

3. If moving object is detected, the device will record the video for 3 minutes long and save the file. During video recording, the green light flashes (switch between on and off at an interval of 1 second). If the object is still moving after 3 minutes, the system will start the next 3 minutes of video recording and save the file automatically until the object stop moving. The system will stop recording and continue with detection.

Recording When Driving

1. Insert a Micro SD card.

2. Connect the car charger USB end with the plug of **DIY-SDVA010** USB and the other end connects the plug of lighting smoke machine in the car.

3. Start the engine of the car, **DIY-SDVA010** will start automatically and enter Record mode and start to record after few seconds.

4. Close the engine of the car, **DIY-SDVA010** continues to record and shut down automatically after two minutes.

  *When recording in driving, it is suggested not using function of Motion Detection.

Replay

1. In the camera mode, record mode and sound recording mode, press Replay key to enter the replay mode, and then press Left Key or press Right Key to select the video file or photo file, press OK Key to play or pause, press Down Key to stop playing.

2. Press Mode Key to exit the replay mode.

AV OUT

1. Connect **DIY-SDVA010** with output terminal like TV through AV connection line.

2. Long press Power Switch key to turn on the device (or use an external charger to supply power), the display screen is on, and display screen turns off after 3 5 seconds, TV and other output terminal display light.

3. In AV output state, it can enter all modes to work.

Zoom In and Zoom Out

DIY-SDVA010 can conduct 8 times digital zoom at the maximum.

Press Up Key/Down Key to zoom in or zoom out, display screen will display the magnification times, can magnify 8 times at the maximum.

Time Setting

1. Power on to enter the system menu.

2. Press Down Key to select (Input Date), press OK key to enter next menu and select (Setting),press OK Key to enter date/time setting interface.

3.Press Right Key or Left Key to select year, month, day, hour, minute and second, press Up Key or Down Key to adjust the date and time.

4. After finishing the adjustment, press OK Key to complete, and then exit the menu according to the screen prompt.

Screen Saver

When **DIY-SDVA010** is in power-on state (doesn't connect to AV cable), short press Power Switch key, display screen is off, short press again, and display screen is on.

System Reset

If abnormal condition occurs to the device during use, use a small stick to press the Reset key, the system will reset automatically.

Charge

1. **DIY-SDVA010** can charge through connecting computer or using the associated power adapter, car charger. If only charging, just need take out SD card;

2. During charging, electric quantity symbol of display screen is in the rolling display mode, after being fully charged, electric quantity symbol is fully three bars and stops rolling; Charging time is approximately 4 hours;

3. During charging, display screen is on for 30 seconds and then off, automatically enters the screen saver state. In the state, short press Power Switch key and the screen is on.

Connect to the Computer

1. U disk function: Confirmation that the <USB> options of in the system menu is the disk drive, use USB cable connect the computer and there will appear a movable disk and the device enters into U disk mode. Under U disk mode, you can copy or cut the recorded files into computer for playing, and you can also take out the SD card and read the data in card with card reader and it is suggested to use play software like Media player and storm video and sound etc.

2. PC Camera Function

(1) Install the driver in the disk into computer according to the driver installation method in the disk.
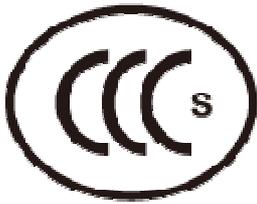
CD:/DIY-SDVA010/Driver installation/STK03N

(2) First ,Selection that the <USB> options of **DIY-SDVA010** system **menu** is the **PC camera**.

(3) Use USB cable to connect computer, and there will appear standard video equipment in the screen of the computer, meanwhile, which can be used for PC camera. Some third party applications can also watch the real time videos from PC camera and can also save the videos into local computer in real time, such as Amcap Program etc.

Power Supply

This product uses the power supply certified by the authority.

CCC logo
China Power certification
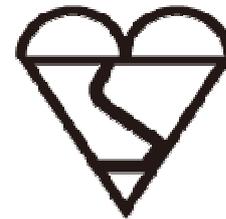
CE logo
EU Power certification

C-TICK logo
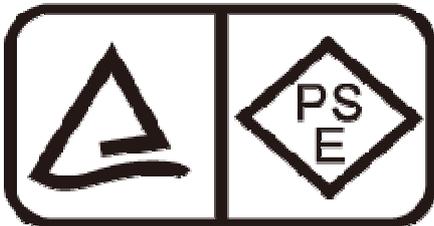Australian Power certification

UL logo
United States Power certification

GS logo
German Power certification

BS logo
United Kingdom Power certification

PSE logo
Japan Power certification

NOTE:

In the use of power supply, the surface may be heating, which is a normal phenomenon.

Packaging Accessories

Power adapter

USB cable

Car charger

Suction cup

Clip

Pouch bag

Bourdon spring

AV cable

**Bracket
(with hook & loop tapes)**

Strap

Note:

The pictures may be slightly different from the definite object, Without notice if the packaging is changed.

Parameters

Porduct color	Black/White/silver
Sensor	3million pixel CMOS sensor
Image resolution	VGA resolution 640*480
	QVGA resolution 320*240
Visual angle	72 degrees
Minimum illumination	1Lux
Digital zoom	8 times
LCD	1.5" TFT display
Video format	Video code uses Motion JPEG for recording into AVI file format 30fps QVGA/VGA
Photo format	JPEG 1600*1200
Continuous recording time	About 3 hours
Memory card	SD/HC support 32GB at the maximum
File Format	Photo: JPEG, Video: AVI, Sound: WAV
Timed exposure time	2/10 seconds
Operating System	Windows 2000/me/xp/2003/Vista/MAC OS/Linux
TV output	NTSC/PAL
Battery capacity	650mAH
Charging time	About 4 hours
Storage consumption	1gb/about 35 minutes
Weight	50g
Dimension	81*46*15mm