

FULL HD

12 MEGA PIXELS PHOTOGRAPH

360° ROTATION CAR USE MINI CAMCOROER

USER MANUAL

Руководство пользователя



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Preface

Thank you for purchasing this high resolution digital camera. This camera has exquisite appearance and unique flip screen function, whose lens can be rotated by 90 degrees. The instruction manual shall provide you information and methods of how to use the camera, including usage, operation, installation precautions and technical specifications, please read this manual carefully before use and keep it properly. We hope this product shall meet your needs and serve you in a long term.

Statement

Copyright of the manual belongs to our company. Without further notice if have alteration. The manual only offers reference for users. Because we devote ourselves to improving clients operation experience constantly, it will cause products inconformity with the manual. In this instance, the real products shall prevail.

Product warranty

This product is approved by international quality management system ISO 9001: 2000 and it is in line with recommendations from authorities like FCC, CE and SGS, which provides security guarantee for the customers.

Product introduction

This product is a subminiature HD digital camera launched for market demand. It has leading functions, such as HD audio & video recording, photography, high-speed USB data transmission, USB charging, it also has a number of invention and technical patent.

Wide range of application lets you record videos any time any where



Product features

- Subminiature flip screen with multi-function makes it videos, take high resolution pictures and capture ultra-clear pictures.
- 2.5 inch LTPS TFT LCD

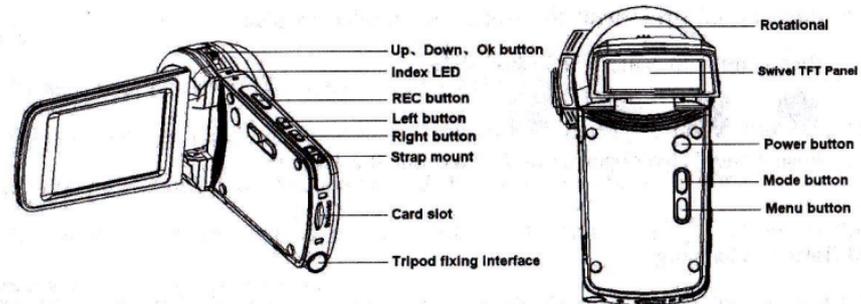
- ½ inch HD CMOS
- 4 fixed focus lens, focal range is from 10 cm to infinity
- 4X digital zoom
- Night LED fill-in light
- Video specification: TS
- Built-in microphone/speaker
- Rechargeable lithium battery with high capacity
- Support high capacity MicroSD memory card
- HD multimedia jack: TV/HDMI live telecasting and recording, directly connecting to HD TV
- Loop recording function
- Motion detection function easy to record high resolution
- Seamless link function
- Automatic saving after power failure
- Close cover and screen turns off
- Set recording time
- Recoding video while supplying power
- Automatically power on and record when starting the car

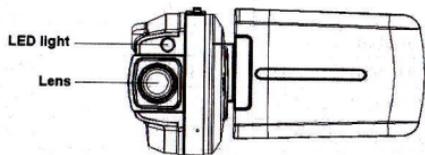
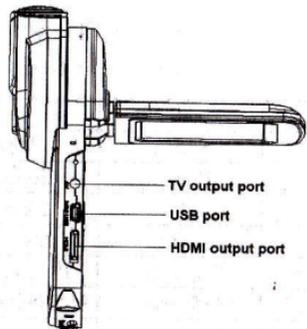
Capacity display

	1G	2G	4G	8G
1920*1080 (FPS30)	21min	42min	85min	172min
1440*1080 (FPS30)	30min	63min	128min	266min
1280*720 (FPS30)	30min	63min	128min	266min
848*480 (FPS60)	30min	63min	128min	266min
12M	239photos	478photos	956photos	1912photos
8M	367photos	739photos	1486photos	2988photos
5M	517photos	1040photos	2092photos	4208photos
3M	614photos	1235photos	2484photos	4996photos

The captured quantity shall differ according to different host, memory card brand, document size and other settings

Product structure





Usage and installation

● How to install and take out battery

1. Slide the battery cover down so as to open it.
2. Insert the battery into battery holder according to polarity markings on battery and the direction of arrow until the battery is installed in place.
3. Please refer to battery indicator icons



4. Push battery cover open so as to take out the battery.

● Battery charging

1. Charging with charger: In shutdown state, connect one end of USB cable with USB

port of the charger and another end with USB port of the camera, the charging indicator light shall light up at this moment, which shall go out after fully charged.

2. Car harger Charging: connect car charger with camera, the camera shall automatically power on and start recording after launching the car, and the battery is being recharged at the same time.

● How to install and take out memory card

1. Insert the memory card into card slot according to the indication direction until the memory card is fixed to the card slot.
2. Lightly press down memory card, take the card out after it pops up.

Notes:

1. Please install Micro SD memory card before use.
2. Please note the insertion direction of memory card, the camera and memory card may be damaged if the memory card is inserted up side down.
3. When the memory card is incompatible with camera, please re-insert the memory card or change the card.

Operating instructions

● Set menu mode

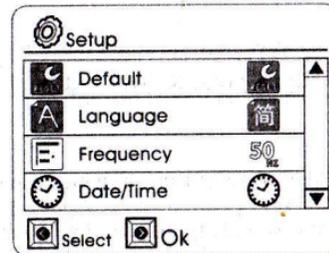
1. Under camera/record/playback mode, press 'MENU' button to access its corresponding menu settings, please open setting list for details.
2. Under menu settings of any mode, press OK button to access the next menu, press UP/DOWN button for corresponding settings, and press OK button for confirmation, and then press MENU button to exit menu.

● Camera power on/off and auto power off settings

1. Press POWER button for 1 second to power on, and press POWER button for three seconds in bootup state so as to power off.
2. For saving battery power, set auto power off/Close screentime in menu. The camera shall poweroff/Close screen automatically when there is no operation within the set time.
3. Power on, press MODE button third to switch to setup mode, press DOWN button to select 'Auto power off/Close screen' then press OK button to access next menu, the auto power off/Closescreen time can be set to be 'OFF, 1 Min, 3Min, 5Min'.

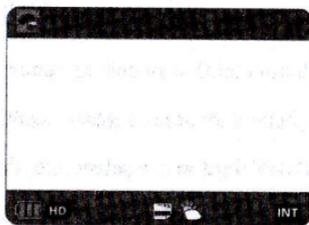
● Set date and time

1. Power on, press MODE button third to switch to setup mode, press DOWN button to select Date/Time? press OK button to access year, month, day, hour, minute, second, press UP/DOWN/LEFT/RIGHT button to select the desired item and then press OK button, press UP/DOWN button for adjustment when then current item displays as red and then press OK button to exit, press DOWN button to move to "√" and press OK button again for confirmation.



● Record mode

1. Power on, after the camera completes the starting up procedure, record mode displays on screen and record mode icon '■' appears on top left corner, the camera has accessed record mode at this moment.



2. Press 'REC' button to start recording and press 'REC' button again to stop recording.

During recording, red icon '■' and timer shall display at the bottom of the screen, the red icon '■' and timer shall disappear when recording stops.

3. Fill-in light

When the surrounding light is dark, press RIGHT button to turn on fill-in light

4. White balance

In general condition, you could choose Automotive mode and the best white balance. In accordance with different scene, selecting different white balance will show different color effect.

● Camera mode

1. Power on, after the camera completes the starting up procedure, press 'MODE' button under record mode and camera mode icon '■' appears on top left corner, the camera has accessed camera mode at this moment.



2. Aim the camera at the subject to be captured, press UP/DOWN button to do digital zoom, hold the camera and don't shake at this moment.

3. Press 'REC' button, the camera makes a 'Click' sound and one picture is taken.

4. Self-timer function

Press 'MENU' button under camera mode, then press DOWN button to select 'Self-timer', and then press OK button to select to set the time to be 'OFF, 5s, 10s'.

Tips:

1. Under record/camera/playback/setup mode, press 'MODE' button to cyclically switch among record, camera and setup mode.

2. Under record and camera mode, press 'Preview' button to return to playback mode.

3. Under record and camera mode, press LEFT button to quickly switch AWB.

4. The screen shall access sleep mode automatically after closing the cover.

● Playback mode

1. Power on, press MODE button twice to switch to playback mode, press UP or DOWN button so as to respectively access picture playback and video playback, press OK to enter. press LEFT or RIGHT button to select picture or video for browsing. When browsing video files, press REC button to play or stop playing, and press preview button for pause.

2. Delete one

During picture or video playback, press MENU button to select delete one and press OK button to confirm so as to access delete one mode, and press OK button again to delete the current picture or video file, after accessing delete one, press LEFT/RIGHT button for browsing, directly press OK button for deleting when the desired file is being browsed.

3. Delete all

During picture or video playback, press MENU button to select delete all, press OK button and submenu 'x,√' shall pop up, select 'x' and press OK button for confirmation so as to return to main menu, select '√' and press OK button so as to delete all picture or all video files.

4. Protection

During picture or video playback, press MENU button to select protection, then press OK button to access protection settings, press LEFT/RIGHT button for browsing, directly press OK button for confirmation when the picture or video file desired to be protected is being browsed, and icon '🔒' shall display on current file which indicates the file is protected, press OK button again so that icon '🔒' shall disappear which indicates the current file is unprotected.

5. Auto play

During picture playback, press MENU button to select auto play, and press OK button to confirm to start playing automatically.

Tips:

1. The protected file cannot be deleted but formatted.

2. There is no auto play function during video file playback.

● Recoding video while supplying power

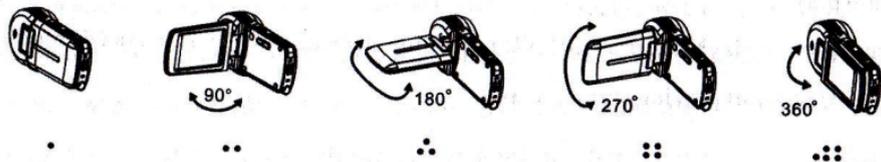
In shutdown state, connect car charger with camera, the camera shall automatically power on and start recording after launching the car, and the battery is being recharged at the same time.

Note: After the car stopped, the camera shall use battery automatically until it powers off because of low battery.

● Screen sleep mode

After closing the screen cover, the screen shall automatically access sleep mode so as to save power, and it shall restore to normal working mode when open the cover again.

● Screen flip



Storage and video replay

● USB backup mode

In boot-up state, connect camera to computer with a USB cable, the screen shall display as MASS STORAGE, which indicates the camera accesses USB mode, open 'My computer' on desktop so as to find the stored images through 'MEDIA/DCIM/100MEDIA'.

● Connect to TV video signal play

1. Connect camera with HD TV by HDMI cable so as to access

record/camera/browsing pictures and videos.

2. Connect camera with TV by TV cable so as to access record/camera/browsing pictures and videos.

Tips: No need to install driver, the camera can be used as removable disk only in boot-up state.

Key functions

Record/Camera mode

Power button	Power on/off
Shutter button	Record/Stop recording/Take a
Up button	1/2/3/4X digital zoom
Down button	4/3/2/1X digital zoom
Left button	White balance: auto/sunshine/cloudy/fluorescence/tungsten
Right button	Fill-in light: Turn on/off
OK button	Confirm
Menu button	Menu selection
Mode button	Mode selection

Playback mode

Power button	Power on/off
Shutter button	Play video/Stop playing
Left button	Previous
Right button	Next
OK button	Confirm
Menu button	Menu selection
Mode button	Mode selection

Function icons

● There are a lot of function icons for this camera, below icons particulars shall help you to know how to use this camera better and faster.

 Record mode	 Camera Mode	 Photo Playback
 Video Playback	 Setup mode	 Auto
 Sunshine	 Cloudy	 Fluorescence
 Tungsten	 1080P	 1080I
 720P	 WVGA	 Night Off
 Night On	 Color	 Black & W
 Sepia	 Confirm	 Cancel
 3M image	 5M image	 8M image
 12M image	 English	 Simplified Chinese
 Traditional Chinese	 Russian	 G - sensor
 Grade I	 Grade II	 Grade III
 Grade IV		

Menu setting

Mode	Menu	Settings	Notes
Record	Audio	√ / ×	√: Audio on ×: audio off
	Archive type	ON/OFF	ON: The card shall delete the first recorded files and continue recording when the card is full
	Movedetect	ON/OFF	ON: The camera starts recording when moving picture is detected
	G-sensor	Grade IV / Grade III / Grade II / Grade I / OFF	The higher the level set, the more sensitive sensor will be
	Record cycle	1Min/3Min/15Min/45Min/OFF	
	White balance	Auto/sunshine/cloudy/fluorescence/tungsten	
	Resolution	1920*1080/1440*1080/1280*720/848*480	
	Effect	Color/Black & White/Sepia	
Camera	Night mode	ON/OFF	
	White balance	Auto/sunshine/cloudy/fluorescence/tungsten	
	Resolution	12M/8M/5M/3M	
	Effect	Color/Black & White/Sepia	
	Night mode	ON/OFF	
	Selftimer	OFF/ 5 Seconds/ 10 Seconds	Press Camera button and the camera shall automatically take a picture after the set time.
Playback	Capture period	OFF/ 5 Seconds/ 10 Seconds	After setting the time, the camera shall automatically take one picture after each set interval.
	Delete one		
Setup	Delete all	√ / ×	
	Protect		
	Auto play		
	Beep	√ / ×	
	EV	-1/-0.5/0/+0.5/+1	
	Auto power off	OFF/1Min/3Min/5Min	
	LCD back light	OFF/1Min/3Min/5Min	
	TV standard	NTSC/PAL	
	Format	√ / ×	
	Default	√ / ×	
	Language	EN/TC/SC/RU	
	Frequency	50HZ/60HZ	
Date/Time	Year Month Day/Hour Minute Second		
	Version		

Product specifications

CMOS	5 Mage pixels CMOS
Lens	7.3mm
Focalrange	10cm - infinity
LCD screen	2.5"LTFS TFT LCD
Video output	HD media connection: HDMI CTS1.2, support1080P/1080I/720P/WVGA output format; TV synthetic signals: NTSC/PAL
Picture format	Picture format: JPEG Maximum output: 12M4000X3000
Video format	TS
Video	1920*1080(30 FPS) 1440*1080(30 FPS) 1280*720(30 FPS) 848*480(60 FPS)
Zoom	4X digital zoom
Recording media	External :MicroSD card (Maximum 32G)
Audio	Built-in microphone/Speaker (Mono)
Shutter	Electronic shutter
Shutter speed	1/2 ~ 1/1, 000 sec
White balance	Auto/sunshine/cloudy/fluorescence/tungsten
LED light	ON/OFF
Connection	USB2.0/HDMI/TV
Battery	External lithium battery, 3.7V 800mAh
USB	USB 2.0high speed transmission
Size	130.7 x 60.1 x 40.3 mm
Working temperature/humidity	-10℃-60℃/10%-80%

Packaging and Accessories:

Warm tips: Please check the accessories according to pictures when buying this product so as to avoid any loss to you!



Camcorder



Camcorder Pouch



User manual



Lithium-ion Rechargeable battery



Charger



HDMI cable



USB Cable



Hanging Strap



TV Cable (Optional)



TF Card (Optional)



Vehicle power charger (Optional)



Bracket (Optional)



USB cable (long) (Optional)

Trouble shooting

- **Cannot take pictures or record videos**

Please change resolution of photograph or recording or replace memory card with enough capacity..

- **No image displays on HD TV screen**

Please make sure HDMI cable is fully inserted, please use HDMI cable provided with the camera.

- **The captured pictures and recorded videos are not clear**

Please wipe the lens before use.

Operation tips

This camera is similar to computer, if there is no action of the camera, Take out the battery and reinsert it, and then restart the camera.

Installation instructions

Installation procedures

