Superb HD Scouting Camera

UV785-HD Instruction Manual

(For UV785-HD Model)

Content

1 General Description

Congratulations on your purchase of UV785-HD scouting camera. UV785-HD is a powerful and reliable performance scouting camera.

Features:

12MP invisible IR camera;

1080P H.264 video with audio;

0.6s trigger speed;

Support 1-10 burst photos;

No glow black LEDs with 15m range;

Rich camera scene settings, including moving object and so on

Improved time lapse accuracy, in seconds;

4 work time settings;

Camera rename;

SD card overwrite;

Water resistant;

2 Camera button info diagram
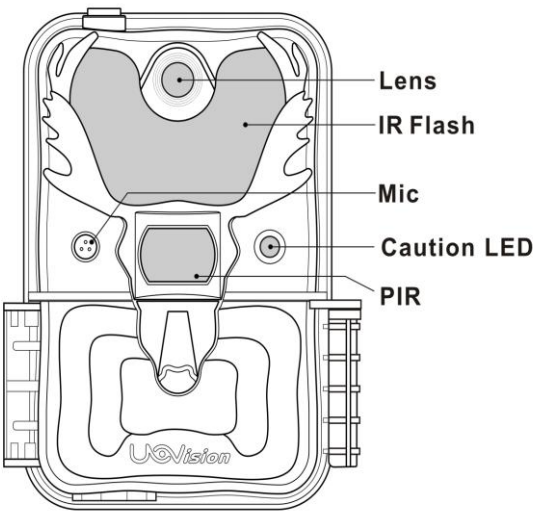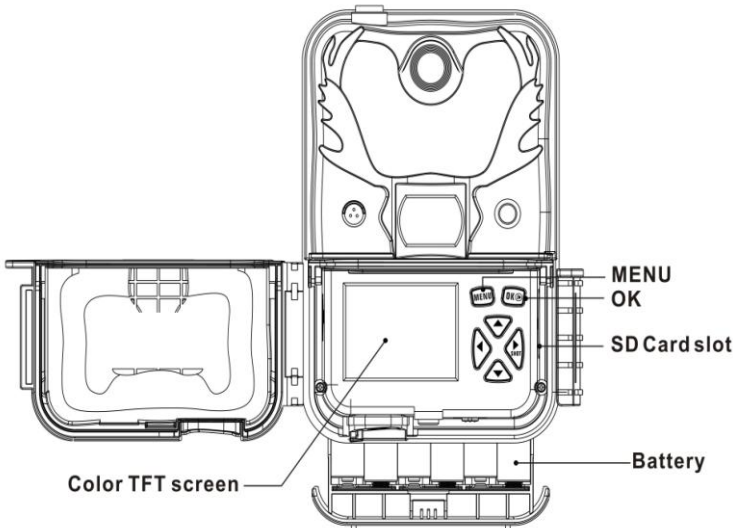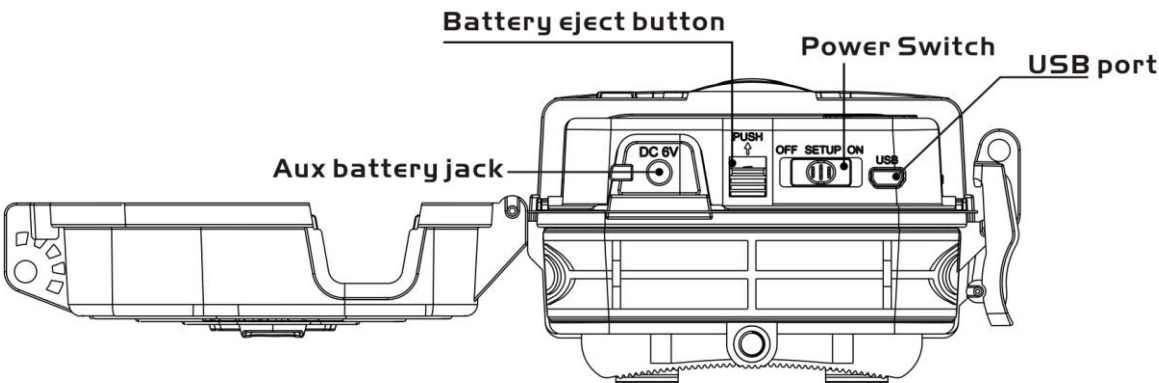

Fig 1 Front View

Lens
IR Flash
Mic
Caution LED
PIR

Fig 2 :Operation Interface

MENU
OK
SD Card slot
Battery
Color TFT screen

Fig 3 :Bottom View

Battery eject button
Power Switch
USB port
Aux battery jack
DC 6V
PUSH
OFF SETUP ON
USB

Operation Panel：

MENU: To enter the menu, the **power switch** should be on **SETUP**.

▲▼◄►: Navigation arrows.("**▲**"is the shortcut to choose "**Video**", while "**▼**"for the **"Photo".**)

OK: Save parameter settings/Exchange between playback and preview.
▌►

► : To capture a photo or record a video manually. (Click ► again to stop the video.).

Power Switch: **OFF**: turn off the power; **SETUP**: change camera settings; **ON**: enter working mode.

3 Installing the batteries

To supply power for the camera, 4, 8 or 12 size AA batteries are needed.

Confirm that the power switch is in the **OFF** position; load fully charged batteries into the pack according to the polarities signs shown below. The following batteries with 1.5V output can be used:
1. High-density and high-performance alkaline batteries (Recommended)
2. Rechargeable alkaline batteries
3. Rechargeable NiMH batteries

There are 6 battery slots. Slot 1 and 2 form one group and is marked "1", slot 3 and 4 form the other group and is marked "2", while slot 5 and 6 form the other group and is marked "3". Single "group" of batteries is needed to supply power to the camera, but both can be used and is recommended.
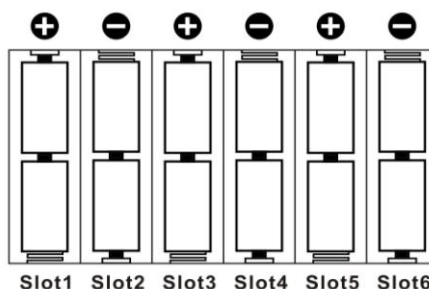
Fig 4

4 Inserting SD card

Camera itself has no storage space to store the pictures. You need to insert a SD card to let the camera work correctly. SD and SDHC (High Capacity) cards up to a maximum 32GB capacity are supported.
High speed SD cards (SanDisk Ultra or Extreme series or similar) is recommended if 1280x720 or 1920x1080 video is needed.
Before inserting the SD card into the card slot, please make sure that the write-protect switch on the side of the card is "off" (NOT in the "Lock" position).
SD card can be over write to ensure cycle use;
You can use any SD card size up to 32G. The camera will not turn on without a SD card inside.

NOTE: Every photo taken by this camera will be saved to the SD card even those being sent out wirelessly to the recipients. You will always have access to the high resolution photos on the SD card.
WARNING: Be sure the camera's power is switched OFF before inserting or removing SD cards or batteries.

5 Customizing camera settings

5.1 CAM TAB

Press the **MENU** button. You will see the screen shown in Fig.5,

Fig 5

Fig 6

Select the **CAM** tab. Navigate down by pressing the ▼ button until the **Camera Mode** option is highlighted and press **OK** then there are three options for you to choose shown in Fig.6. There are always a '*' shows up beside every selected option.

5.1.1 Camera Scene

UV785-HD camera has rich camera scene settings, including moving object and close object, with the help of camera scene, you can easily choose different combinations of shutter speed and exposure time according to particular cases.

Fig 7

Camera Scene	Description
Auto	This option is appropriate for most of the use. We recommend this option for quick setup camera. It takes 8MP photos in daytime and 3MP photos at night.
Close objects	This option is suitable for object which is within the distance between 3m and 5m. The IR flash is dimmed to prevent excessive exposure. *Note: Keep in mind that the focal distance of the camera is 3m(10ft) to infinity.*
Moving objects	This option is to reduce motion blur when capturing fast moving objects.
Still objects	This option gives a relatively slow shutter speed to get a brighter picture.
Chasing Photo	This option allows PIR to be triggered up to three times within 15s, without constraint of the PIR interval.
2Bursts(A+M)	Your camera can take a 2 shot burst every time the PIR is triggered to take a photo. One is using Auto scene, the other one using Moving objects scene to take a no blur photo. It's useful for home surveillance usage. "A" means Auto, "M" means moving.
3Bursts(A)	To take 3 continuous photos after one trigger.

Also, you have access to custom settings just by clicking **customize.** See Fig.8.

Photo Size: 1.3MP, 3MP, 8MP, 10MP,12MP

Flash Range: Low/Medium/High.

Photo Burst: 1-10

Fig 8

5.1.2   Video Mode

When you set **Camera Mode** as **Video,** then you will see submenu shows up.

1) Video Size

Select video resolution (in pixels per frame). Higher resolution produces better quality videos, but creates larger files that will take up more SD card space and fills it up faster. It provides 1080P (1920x1080, 30fps), 720P (1280x720, 60fps) and WVGA (848x480, 60fps) videos. Default set is 720P.

Fig 9

Fig 10

2) Video Length

Video length is the length per captured video clip. The video length is from 5s to 60s. The default setting is 10s. For saving power, it is better to set video length within 20s.

Fig 11

Fig 12

5.2 PIR TAB

Trigger Mode

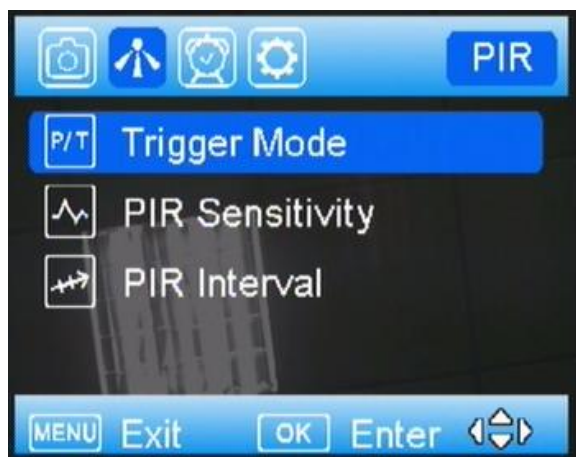There are 3 trigger modes: **PIR trigger**，**Time lapse** and **PIR trigger & Time lapse**.

Fig 13

Fig 14

PIR trigger

When choose PIR trigger, the PIR is active. Any motion (animals or humans) that is detected by PIR will trigger camera to capture a photo or video according to the preset **PIR sensitivity** and **PIR Interval.**
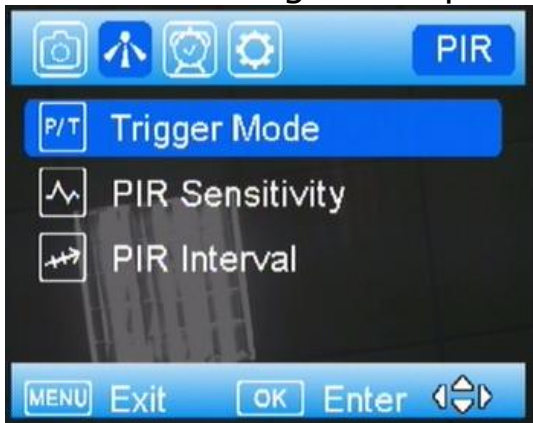

Fig 15

Fig 16

1) PIR Sensitivity

The camera monitors temperature of ambient conditions. **Auto** is camera automatically adjusts the sensitivity of sensor/trigger signal, on cold days it is ok to choose **Low,** on hot days it is better to choose **High** to be more sensitive to slight variations in temperature.

2) PIR Interval

Allows you to customize how often the PIR sensor can be allowed to work. This prevents the card from filling up with too many redundant images. Options are 0-60 seconds (5 second increments) and 1-60 minutes.

Time lapse

When choose time lapse, camera takes photos or videos even when it is not triggered by a nearby live animal, useful for constant monitoring of an area that might be far away from the camera. The interval time between each photo/video is set in submenu **Time Lapse**.

It sets the time lapse interval between each photo/video, when the trigger mode is **Time Lapse** or **both**. The time options include 5-55 seconds (in 5 second increments), 1-5 minutes (in 1 minute increments), 5-55 minutes (in 5 minute increments), 1-8 hours (in 1 hour increments) and 24 hours.

Both

It means PIR and Time Lapse are both active.

For example : Someone placed this surveillance camera in a country park entrance, selected both, set the PIR interval as 5 second, set the Time Lapse as 4 hours, means that in addition to every 4 hours automatic field scan shooting.

5.3   Work Time

The camera can just work at a preset time and preset days. In the rest of the time the camera is under standby mode.

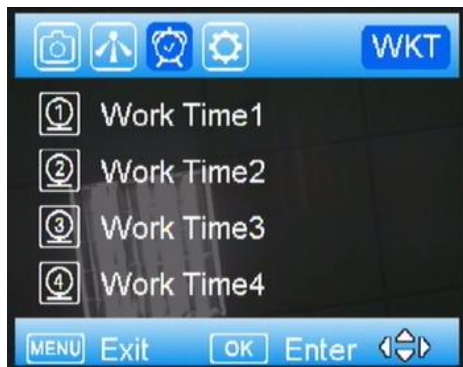There are four work time can be set, see Figure17.

Fig 17

Fig 18

On: It means enable the work time function. **Off**: It means the camera will work all the time.

If you want set two different time periods, please **set more than one Work Time.**

5.4   SYS TAB

Set Clock
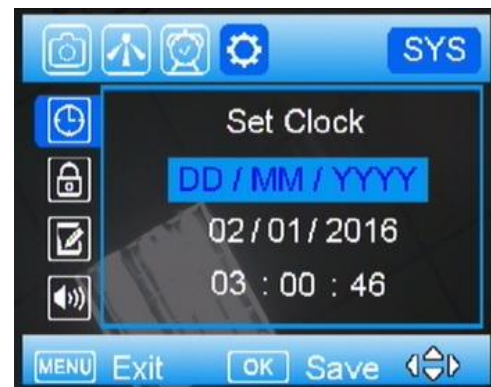
Enter to set the date and time.

Fig 19

Fig 20

Password

Use "▲"'▼"'►" to set the password, and press **OK** to save it. The default password is **0000**. In case you forget your password, **make sure you write down your password or save it to your mobile phone so you can access your camera if you ever forget your password.** This is a very important security feature.

Rename

In order to distinguish one camera from others, you can rename your camera. The character is from"0"to"9" and "A" to "Z". The max number of character is 8. Use "▲"'▼"to select the character, and press **OK** to save it. The new camera name will be printed on time stamp.

Fig 21

Fig 22

Overwrite

The Over Write function will save new photos over the old photos on your SD card if it becomes full. Each time a new photo is taken the oldest photo on the card will be overwritten, however the camera may not continue to send pictures once the SD card is full.

Format SD card

Deletes (erases) all files stored on a SD card to prepare it for reuse. Caution! Firstly, make sure you have downloaded and backed up all the photos you want to preserve!

It's recommended to format the SD card when first used in this camera, especially when the SD card has been used in other devices

Default

The Default Set resets the camera to factory settings.

Software Version

It shows the firmware version of the camera, for manufacturer's use only.

6 Sensing Angle and Distance Test

To perform the sensing angle and monitoring distance of the camera test:
   • Toggle the power switch to **SETUP**.
   • Make movements in front of the camera at several positions within the area where you expect the object will be. Try different distances and angles from the camera.
   • If the red indicator LED light blinks, it indicates that position can be sensed. If it does not blink, that position is outside of the sensing area. The results of your testing will help you find the best placement when mounting the camera.

7 Mounting camera

When setting up the camera for scouting game or other outdoor applications, you must be sure to mount it in place correctly and securely. We recommend mounting the camera on a relatively straight tree with a diameter of about 15cm (6 in.). To get the optimal picture quality, the tree should be about 5 meters (16-17 ft.) away from the place to be monitored, with the camera placed at a height of 1.5~2 m (5-6.5 ft.). Also, keep in mind that you will get the best results at night when the subject is within the ideal flash range, no farther than 50' (15m) and no closer than 10' (3m) from the camera.

To enhance the flash, we recommend positioning camera in an area with a backdrop to reflect the maximum amount of light.

8 File format

The folders name like 100_1502. The numbers behind"_" shows **the year and month**. The file is named as"TIME0001.JPG" "PIRT0001.JPG" or"MANU0001.JPG".

"TIME" means the photo or video is triggered by time-lapse.

"PIRT" means triggered by movement.

"MANU" means the photo or video is taken manually in the setup mode.

9 Trouble Shooting

Q1: Cannot access the SETUP menu.
A: Possible problem:
No SD card in the card slot
Corrupt SD card
Batteries are too low to power up camera

Q2: The photo is too dark at night.
A: Possible problem:
The illumination parameter is not set correctly. Please refer to Fig 8 camera flash range settings.
Lack of reflective background at night: We recommend positioning the camera in an area with a backdrop to reflect the maximum amount of light. For instance, place the camera 8-12m (20-30') from a field edge facing the woods.

Q3: The camera shut down automatically in SETUP mode.
A: Possible problem:
The camera is set to shut down the power automatically when there is no operation over 3 minutes in SETUP mode. The purpose is to prevent battery run off.

Appendix Ⅰ: Technical Specifications

Picture Resolution	12MP, 8MP, 3MP, 1.3MP
Lens	F/NO=2.2 FOV(Field of View)=50°
IR-Flash	Low, medium, high
Display Screen	2.4" LCD
Memory Card	Up to 32GB
Video Resolution	1080P,720P,WVGA
PIR Sensor	Multi Zone
PIR Sensitivity	Adjustable (Auto/Low/High)
Trigger Time	0.6 second
Weight	0.4 kg(without battery)
Operation/Storage Tem.	-20 - +60°C / -30 - +70°C
Trigger Interval	0s – 60 min.
Time lapse	5-55 second (in 5 second increments)； 1-5 minutes(in 1 minute increments)； 10-55 minutes(in 5 minute increments)； 1-8 hours(in 1 hour increments)； 24 hours
Photo Burst	1–10
Video Length	5–60s
Power Supply	4×AA, 8×AA or 12AA DC: (5V-12V)/2A adapter
Stand-by Current	< 0.3 Ma （<7mAh/Day）
Low Battery Alert	LED Indicator;
Mounting	Belt/Python lock/Mounting bracket
Dimensions	140 x90 x55 mm
Operation Humidity	5% - 90%
Security authentication	CE, RoHS

Appendix Ⅱ: Parts List

Part Name	Quantity
Digital Camera	One
Belt	One
User Manual	One

Declaration of Conformity to Directive 1999/5/EC

CE Caution：

Hereby, the manufacturer declares that this camera is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Pls ask for your distributor for a copy of the **Declaration of Conformity to Directive 1999/5/EC.**

（Version 2.00）

WARRANTY CARD

Customer Name:	
Contact Tel:	
Date of Purchase:	
Series No:	
Fault Description:	
Retailer:	

The camera manufacturer provides 24 months of warranty service for this product against manufacturing defects or malfunctions. If your camera fails to function under normal use within 2 years, the camera manufacturer will repair or replace the camera at no charge. The **purchase receipt must be included from an authorized retailer to validate the warranty**. Improper use of the camera resulting in damage is not covered by this warranty.

The camera manufacturer can provide repair service, after the warranty expiration. The customer will be responsible for any charges on parts, labor and shipping costs. Please contact the manufacturer for more details.

Please contact the area dealer for more details.