
Digital Infrared Trail Camera
User's Manual
HC-300A



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1. Instructions

1.1 General Description

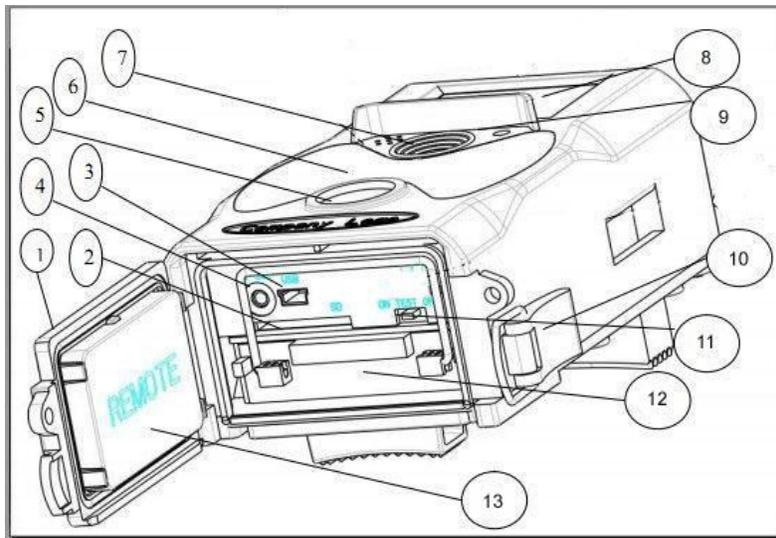
This digital trail camera is a surveillance camera working automatically. It can be triggered at once by any movement of human (or animals) in a certain region monitored by motion sensor, and then automatically captures high quality pictures (up to 12M pixels) or records 1080p HD video clips (WVGA or QVGA).

During daytime, it will take color files(images or videos) and then it begins to take monochrome photos video. It is waterproof IP54

1.2 Camera Body Interface

It has the following interfaces: USB connector, SD-card slot, TV output and external DC power connector.

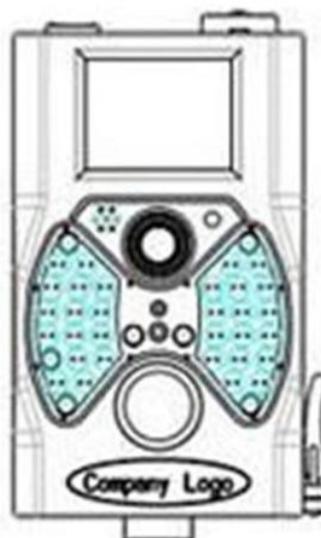
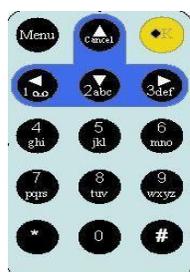
1.3 Camera components and features



- | | |
|---------------------|--------------------------------|
| 1) Bottom Cover | 8) 2 inch color LCD Display |
| 2) SD-Card Slot | 9) Sound recorder |
| 3) USB Connector | 10) Lock |
| 4) TV Out connector | 11) Power witch |
| 5) PIR | 12) Battery Depot |
| 6) Infrared Flash | 13) Portable remote controller |
| 7) Lens | |

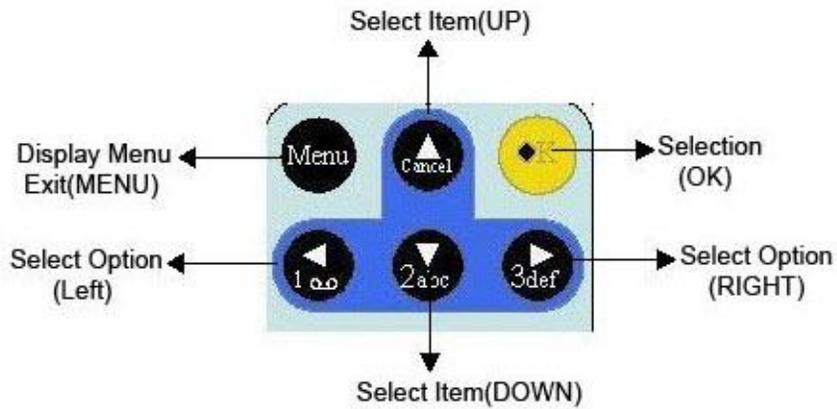
1.4 Remote Control

The remote control is primarily used for menu settings and password input. This is wireless remote control. The maximum remote distance is 9 meters.



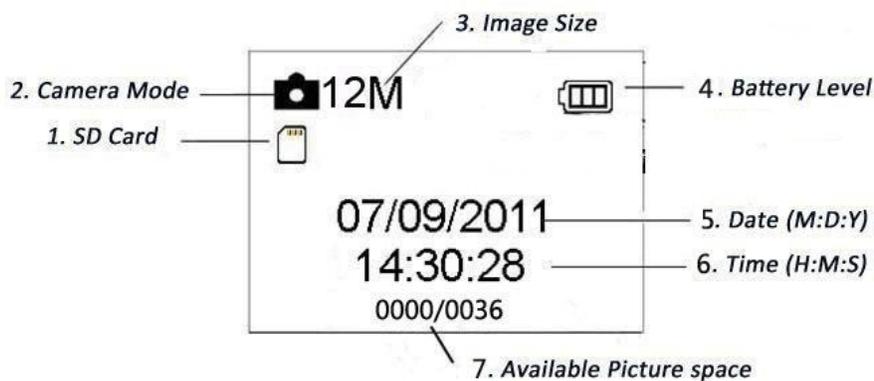
Press LEFT or RIGHT to select menu table,press UP or DOWN to select the sub-menu then press OK to finish

Press the punctuation “*” for laser pointer.



1.5 Shooting Information Display

When the camera is turned on (the power switch is slid to TEST position), the shooting information will be displayed in the monitor.



1.6 Supported Format

Item	Format
Photo	JPG
Video	AVI

2 Easy Operation

2.1 Power Supply

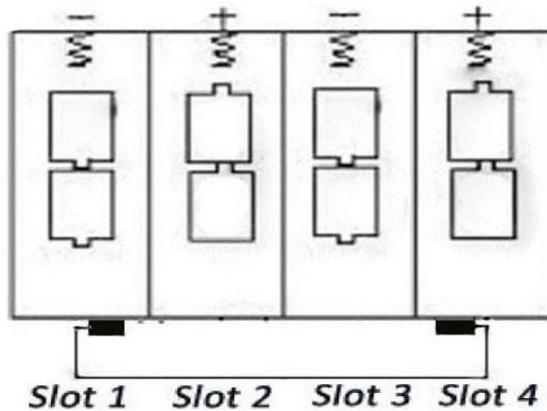
To supply power for the camera, 4 or 8 AA batteries are needed.

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

When in Test Mode, camera will be automatically shut down to save power if without any operation within 3 minutes; it could be waked up by any movement detection.

When in low power state, camera will also automatically shut down.



2.2 Insert the SD card

Insert SD-card into the card slot.

2.3 Enter into the TEST Mode

Turn the power switch to the TEST position to enter into the TEST mode. There are some functions in TEST mode: user settings, manually capture, preview.

2.3.1 User Settings

Press the MENU button. The camera can be set (mode, picture resolution, video resolution& length,etc) The detailed operations will be described in following chapter.

2.3.2 Manual Capturing

press OK to manually capture photos or record video.

2.3.3 View Images or Videos

There are two ways to view the captured images or videos:

1. LCD screen on camera
2. TV monitors which connects to camera with TV cable

press right arrow to view captured files, the latest image will be shown in the LCD screen or TV monitor. Press UP to view the last and press DOWN for the next. The detailed operations like deleting images or videos will be described in "Advanced Operations" chapter.

2.4 Power on and Enter into the ON Mode

Before switching on, please pay attention to the following items:

1. Don't face light source directly. These may cause false triggers
2. The height from ground for placing should be 1-2 meters. For example for deer height is good size appropriately.

After switching on the camera, the red light will blink for about 10s. The 10s is a buffering time before automatic capturing, e.g. for closing and locking the bottom cover, fixing the camera on a tree and walking away.

2.5 Power Off

Slide the power switch to OFF position to turn off the camera.

Therefore, please remove the battery if the camera will not be used for a long time.

3. Advanced Operations

This chapter explains that user settings can only be done in TEST mode and the remote control is needed.

3.1 Settings Menu

Press MENU when camera in the TEST mode.The settings menu will be shown on

the LCD or the external TV monitor.

3.1.1 Photo Setting

Photo		
Resolution	→	12MP 8MP 5MP
Interval	→	1Second 5Seconds 10Seconds 30Seconds 1Minute 5Minutes 10Minutes 30Minutes
Multi	→	Single 3Pictures 6Pictures 9Pictures
ISO	→	100 200 400

3.1.2 Video Setting

Video		
Resolution	→	1080P 720P WVGA QVGA
Video Length	→	10S 30S 60S 90S
Voice	→	OFF ON

3.1.3 System Setting

Setting		
Mode	→	Camera Video Camera+Video
Language	→	English Francais Deutsch Espanol Russian
Distance	→	High Normal Low
TV mode	→	NTSC PAL
Date/Time	→	Day/Month/Year Hour/Minute/Second
Timer	→	
Format	→	Internal Memory SD Card
Password	→	OFF/ON
Default	→	Cancel OK
Version	→	



4. Cautions

- The working voltage of the camera is 6.0V.
- Please unlock and format the SD-card.
- Please insert the SD-card when the power switch is at OFF position.
- Please do not insert or take out the TF-card when the power switch is at ON position.
- Please ensure full power when having firmware upgrade, otherwise the upgrade process could be stopped.

Appendix I : Technical Specifications

Image Sensor	5 Mega Pixels Color CMOS
Memory	SD Card to 32GB
Lens	F=3.1; FOV=60 °
Size	145mm * 80mm * 55 mm
IR Filter	Full Automatic IR Filter
TFT Display Screen	2.0 inch
LED	Black Invisible 940nm or 850nm
PIR Distance	High/Normal/Low
PIR Sensor Sight Angle	60 Degrees
PIR Sensing Distance	65ft(day)
Number of IR LED	36 LEDs
Max Night Vision Lighting Distance	65ft/20 meters
Trigger Speed	1.0second
Triggering Interval :	1 second ~ 30mins (default 1 sec)
Selectable Image Resolution:	12MP/8MP/5MP
Multiple Photo on one detection	1/3/6/9
Video Resolution	1080P/720P/VGA
File Format	JPEG/AVI
Date Time Imprint	Yes
Moon Phase Imprint	Yes
Exposure:	Auto
Password Security	4 digital PIN code
Periodic shot	1Second~24Hours
Stand-by current	0.2mA
Stand-by time	3 Months
Interface	TV out (NTSC/PAL); USB; SD Card Holder; 6V DC External
Fix Method	Belt, Tripod Nail
Operation Temperature	-10 ~+70°C/-22~+158°F
Power Supply	8×AA battery or 4× AA battery
Camera Socket	Yes
Water proof	IP54
Security authentication	FCC,CE,RoHS,REACH

Appendix II : Parts List

Part Name	Quantity
Digital Camera	1
Wireless controller	1
USB Cable	1
TV cable	1
User's Manual	1
Solar power supply	Optional