User Manual

HC-300M

Contents

1. Instructions

1.1 General Description

This digital trail camera with MMS function can work automatically day and night. It can be triggered by any movement of human (or animals) in a certain region monitored by motion sensor, and then automatically captures pictures (up to 12M pixels) or records 1080p or HD video clips (WVGA or QVGA).

During daytime it begins to take color photos and video till light is not enough, then it begins to take monochrome photos and video.

It supports 2G/GSM/MMS/SMTP/SMS. And it is waterproof IP54.

1.2 Camera Body Interface

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

1.3 Camera components and features
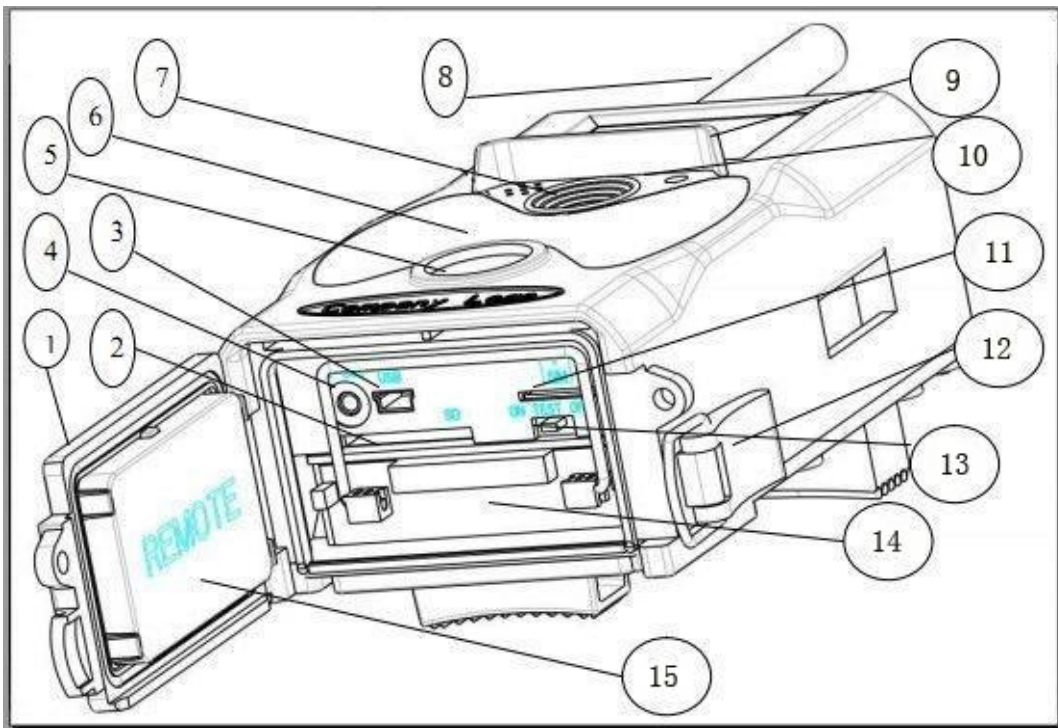
1) Bottom Cover	9) 2 inch color LCD Display
2) Micro SD-Card Slot	10) Sound recorder
3) USB Connector	11) SIM card slot
4) TV Out connector	12) Lock
5) PIR	13) Power witch
6) Infrared Flash	14) Battery Depot
7) Lens	15) Portable remote controller
8) GSM Antenna	

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.

Note: Press the punctuation "" for laser light.
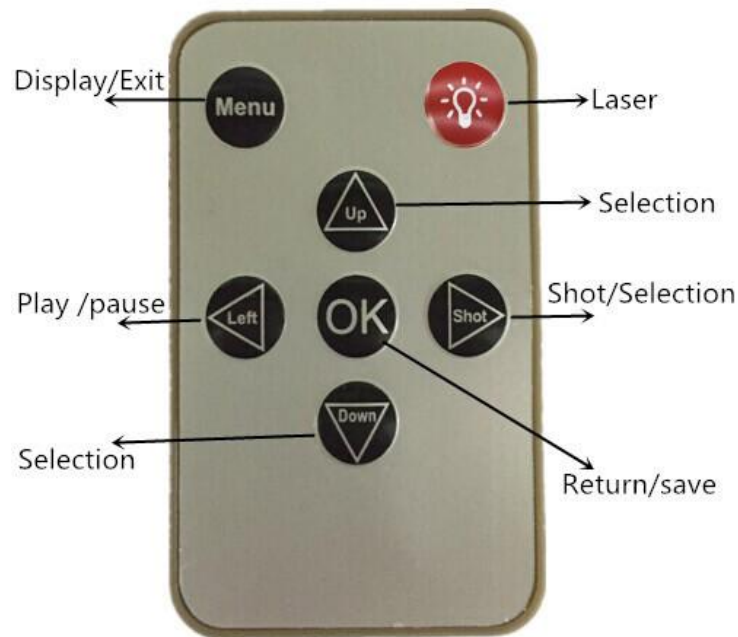
Note (Under TEST mode):

1. Press "Shot" directly, the camera will take picture or video directly.

2. Press "OK" directly, the picture or video recorded can be viewed.

3. Viewing picture, press "Up" or "Down".

4. Viewing video, press "Left" to start, again to stop, press "OK" to return.

Shooting Information Display
When power switch is turn to TEST position, the shooting information will be displayed in the monitor.
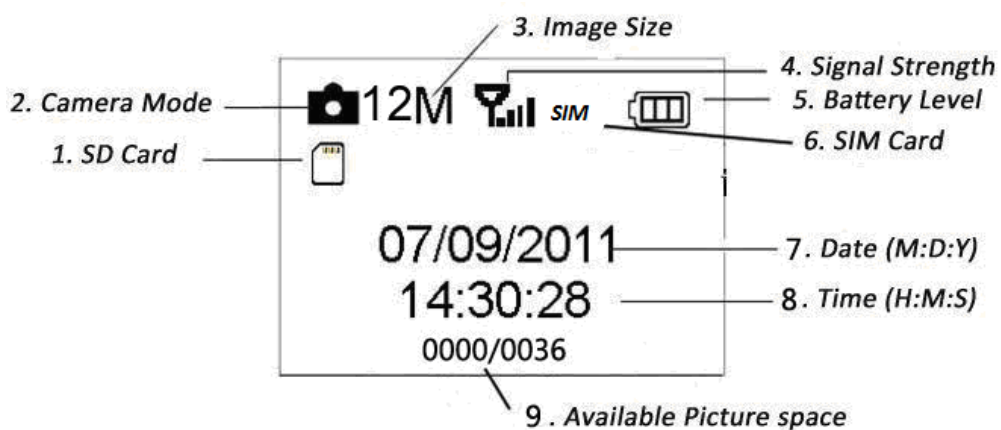
1.5 Brief Introduction for SIM card and Signal

There are two SIM card icons. It means the SIM card is inserted and it can work

well. It means the network signal in your local place is very good.

1.6 Supported Format

| Item	Format
Photo	JPG
Video	AVI

2. Easy Operation

2.1 Power Supply

To supply power for the camera, 8X 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. Please change the batteries in time.

Slot 1   Slot 2   Slot 3   Slot 4
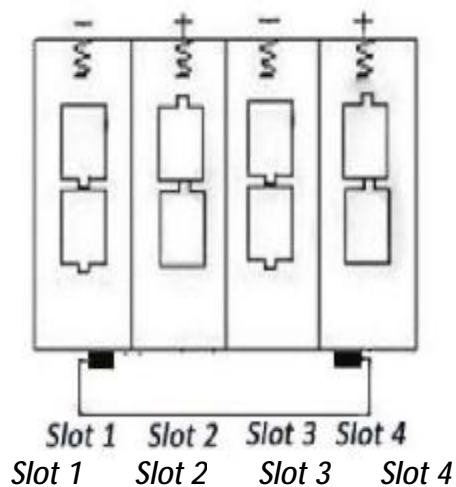
2.2 Insert the MICROSD-card and the SIM-card

Insert Micro SD-card and SIM card into the card slot.

When use MMS/E-mail function, be sure to insert SIM card into the SIM-card slot correctly.

MicroSD

supporting 2G/GSM/MMS/ GPRS service

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 setting /manually capturing/preview.

2.3.1 User Setting

Press the MENU button. The camera can be set (mode, interval, 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. Do not face light source directly. which 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 switch to ON mode, the red light will flash for about 10s. then you can lock the bottom cover and deploy your camera.

Power Off: Slide the power switch to OFF position to turn off the camera.

Please remove the battery if the camera will not be used for a long time.

3. Advanced Operations

User setting 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

Camera		
Resolution	⟹	12MP 8MP 5MP
Interval	⟹	1 Second 5 Seconds 10 Seconds 30 Seconds 1 Minute 5 Minutes 10 Minutes 30 Minutes
Multi	⟹	Single 3 Pictures 6 Pictures 9 Pictures
ISO	⟹	100 200 400
ID		CAM000

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 etc
TV mode	⟹	NTSC PAL
Date/Time	⟹	Month/Day/Year Hour/Minute/Second
Timer	⟹	0:00:00 23:59:59
Format	⟹	All data will be deleted Cancel OK
Password	⟹	OFF/ON
Default	⟹	Cancel OK
Version	⟹	

3.1.4 MMS Menu Setting

MMS		
MMS	⟹	MMS ON/OFF Country Operator MMS APN Account Password MMSC Gateway IP Gateway Port MMS Phone MMS Email

3.1.5 SMTP Menu Setting
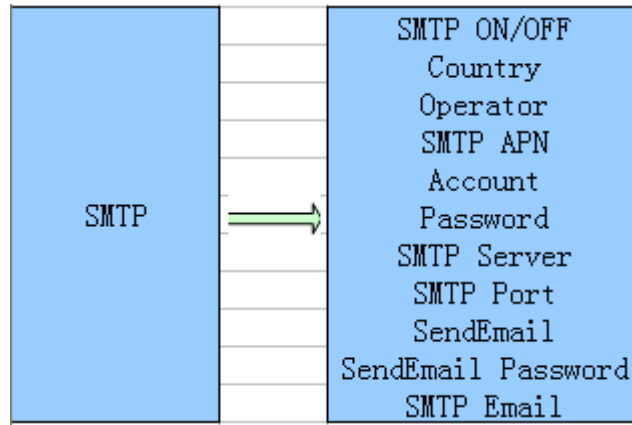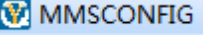
This camera will send pictures instantly to user mobile via MMS. So before using this function user needs to finish the settings mms in MMSCONFIG.
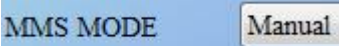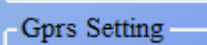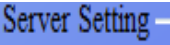
3.2 MMS/SMTP Settings
3.2.1 Preparation
1. 2G/GSM Mobile Operator Service
2. format 2GB+ Micro SD or SD card
3. computer(Vista, Windows 7, windows 8 system)

4. One SIM card without PIN lock

5. The SIM card should be able to send images via 2G/GSM/ GPRS/MMS network
6. 6V power(8X AA Batteries, or 6V input power supply)
7. MMSCONFIG Program in CD
8. Users can ask the provider 2G MMS data (APN+Account+Password, MMSC+IP+PORT), or find this info on providers homepage.
9. 2G GPRS data for SMTP setting from provider (APN+Account+Password)
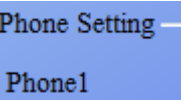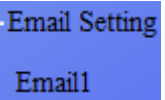10. Sender Email server info(server+port+email+password)
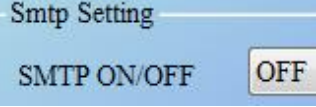
3.2.2 MMS setting:

1. Insert TF card and SIM card to camera, put batteries in cam, screw the antenna, and then turn camera to test mode, check there are [signal] and [SIM] on the camera screen. Then connect the camera to the PC with the included USB cable insert CD to computer, open and then double click [MMSCONFIG]

2. Choose [Mode Camera] or [Mode Camera & Video] in [Menu], Go to [MMS] table, select [MMS MODE Manual]

3. Insert [Gprs Setting] and [Server Setting]

4. Fill in [Phone Setting Phone1] and or [Email Setting Email1]

5. Go to [SMTP] ,choose [Smtp Setting SMTP ON/OFF OFF]

6. Click [Save] button and save as Parameter.dat to Micro SD card

7. Plug USB cable from camera

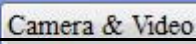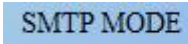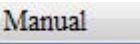8.   Go to in camera menu, check the sub setting is the

same with above setting

9.   Turn camera to on mode

3.2.3 SMTP setting

1. Insert card and SIM to camera, put batteries in cam, screw antenna to it then turn camera to test mode, check there are signal bar and "SIM" on the camera screen. Then connect the camera to the PC with the included USB cable insert CD to computer, open

and then double click

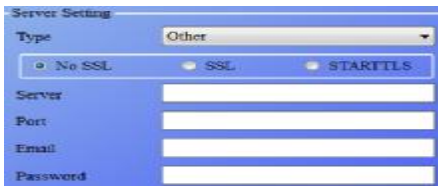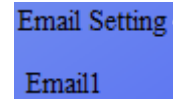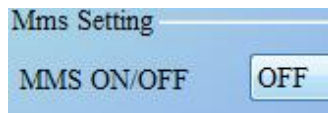2. Choose or , Go to

 table, select

3. Insert all

4. Fill in sender email info in and
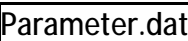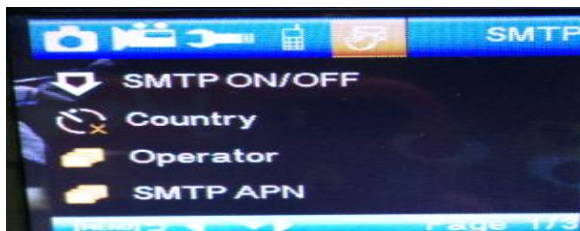
5. Go to table, choose

6. Click button and save as Parameter.dat to MICROSD card

7. Plug USB cable from camera

8. Go to in cam menu, check the sub

setting is the same with above setting

9. Turn camera to on mode

10. Product operation video link: https://www.youtube.com/watch?v=fhniN3up2dE

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3.3 SMS Command Code

mms/smtp need to be set 'on' mode before using thes sms command

500 take picture
(both mms and smtp mode)

505 take picture and send to the mobile who sends sms

520 check the picture quantity and battery status
(both mms and smtp mode)

530 turn on camera
(both mms and smtp mode)

531 turn camera to sleeping mode
(Can work in both mms and smtp mode)

4. Cautions

1. The external power voltage should be 6.0V.
2. Please unlock and format the Micro SD card when you first use it.
3. Insert the Micro SD card when the power switch is at OFF position.
4. Do not insert or take out the Micro SD card when the power switch is at ON position.
5. Please ensure power is good enough when firmware upgrade, otherwise the upgrade process could be stopped.
6. As communications networks may vary we can't guarantee 100% MMS and GPRS can work fine

5. Technical Specifications

Image Sensor Type (True Megapixels)	5 Mega Pixels Color CMOS
Memory	Micro SD Card 8GB~32GB
Lens	F=3.1; FOV=90 °
Size	145mm * 80mm * 55 mm
IR Filter:	Full Automatic IR Filter
TFT Display Screen:	2.0 inch
PIR Sensor Sight Angle	90 Degrees
PIR Sensing Distance	65ft/20m
Number of IR LED	36 LEDs Black or White
Max Night Vision Lighting Distance	65ft/20 meters
Trigger Speed	1.1 second
Triggering Interval :	1 second ~ 30mins (default 1 sec)
Selectable Image Resolution:	12MP/8MP/5MP
Multiple Frame	1/3/6/9
Video Resolution	1080P/720P/VGA
File Format	JPEG/AVI
Date Time Imprint	Yes
Moon Phase Imprint	Yes
Exposure:	Auto
MMS/EMAIL/Support	Support
SMS Control	Support
Password	4 Digits set by yourself
Default camera password	1314
Default camera ID	CAM000
Periodic shot	1Second~24Hours
Stand-by current	0.2mA
Stand-by time	3 Months (8x AA Battery)
Interface	TV out (NTSC/PAL); USB; Micro SD Card Holder; 6V DC External
Fix Method	Belt, Tripod Nail
Operation Temperature	-30 ~+70°C/-22~+158°F
Power Supply	8×AA batteries
Camera Socket	Yes
Water proof	IP56
Menu Langugae	English, French, Germany, Spanish , Russian, Danish, Dutch, Poland, Portuguese, Swedish, Italian, Finnish
Security authentication	FCC, CE, RoHS, REACH, R&TTE, HealthSAR

6. What have in the box

Part Name	Quantity
Digital Camera	1
Wireless controller	1
Antenna	1
USB Cable	1
TV cable	1
User's Manual	2
CD	1
Solar power supply	Optional