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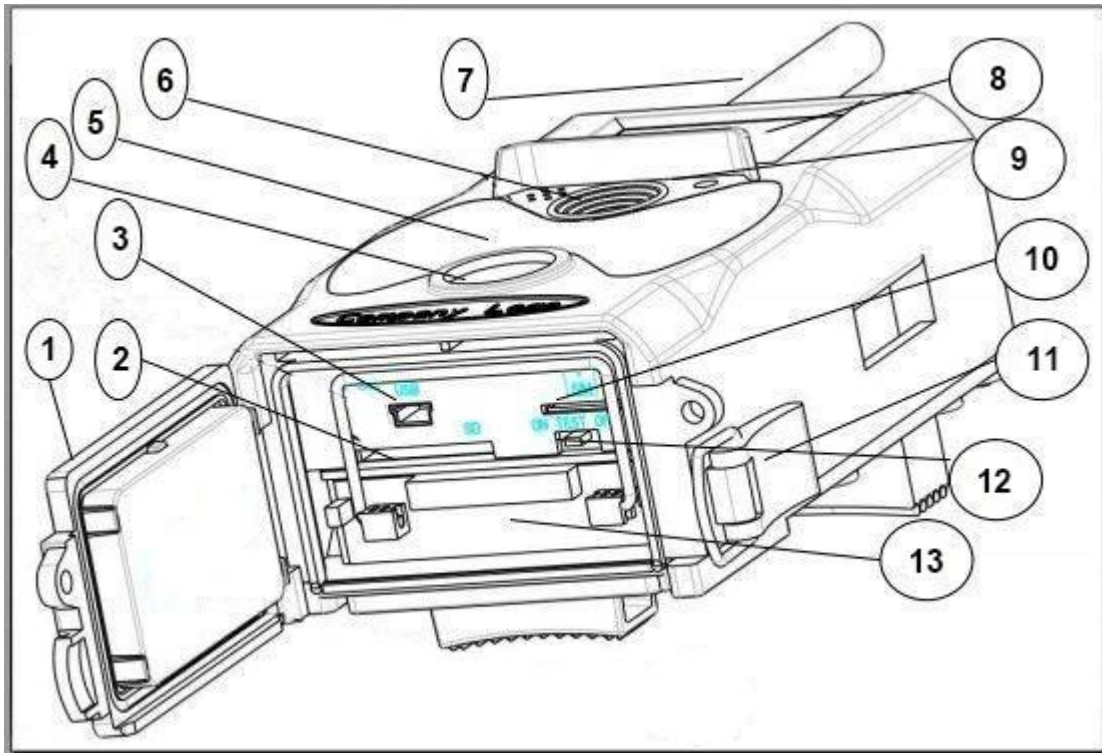
During daytime it begins to take color photos and video till light is not enough, then it begins to take monochrome photos and video.

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 and external DC power connector.

1.3 Camera components and features

1) Bottom Cover	8) 2 inch color LCD Display
2) Micro SD-Card Slot	9) Microphone Hole
3) USB Connector	10) SIM card slot
4) PIR	11) Lock
5) Infrared Flash	12) Power switch
6) Lens	13) Battery Depot
7) 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.
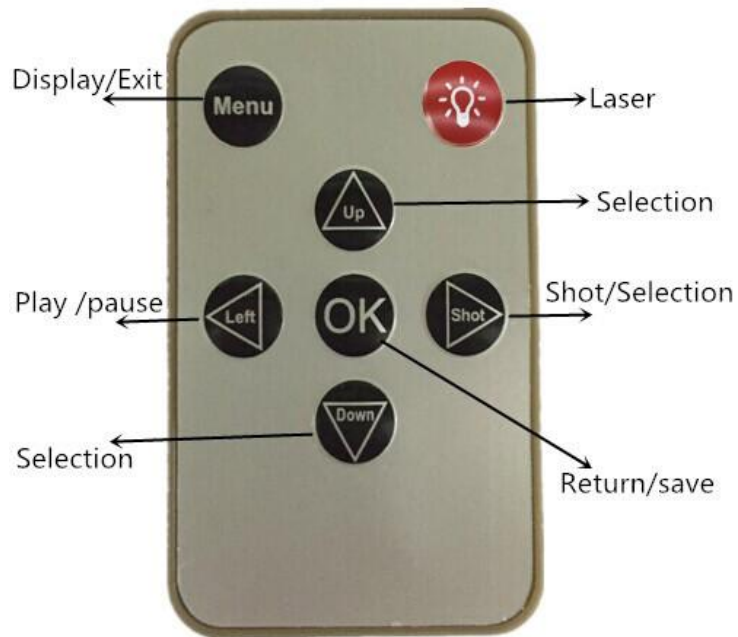
Note (Under CONFIG mode):

1. Press directly; the camera will take picture or video directly.

2. Press directly; the picture or video recorded can be viewed.

3. Viewing picture, press or .

4. Viewing video, press to play, press again to stop, press to return.

Shooting Information Display
When power switch is turn to CONFIG position, the shooting information will be displayed in the monitor.

3. Image Size
4. Signal Strength
2. Camera Mode
5. Battery Level
1. SD Card
6. SIM Card
7. Date (M:D:Y)
8. Time (H:M:S)
9. Available Picture space

1.5 Brief Introduction for SIM card and Signal

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

well. ▼ₐₗₗ 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
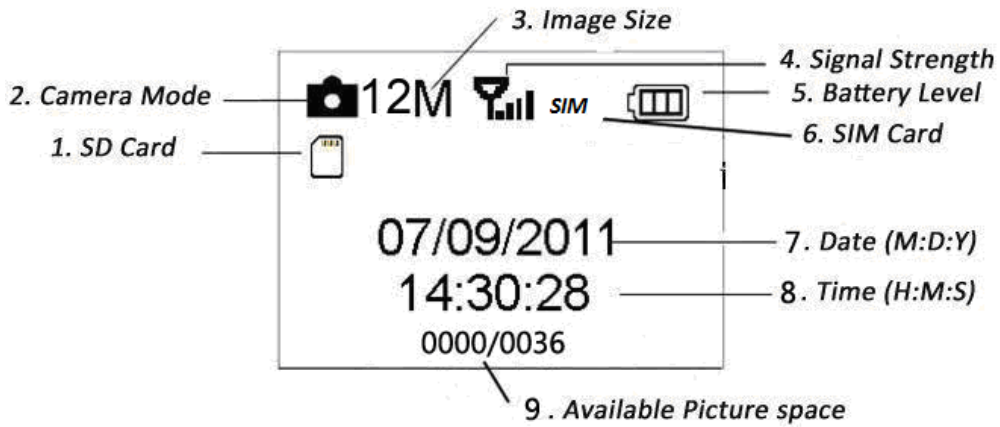To supply power for the camera, 8X AA batteries are needed.
The following batteries with 1.5V output can be used:
1. High-density and high-performance alkaline batteries (Recommended)
2. Rechargeable alkaline batteries
3. Rechargeable batteries
When in Config Mode, camera will be automatically shut down 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
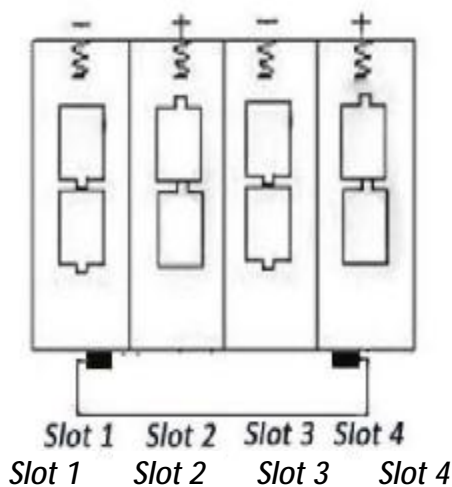
2.2 Insert the MICROSD-card and the SIM-card
Insert Micro SD-card and SIM card into the card slot.
When use MMS/E-mail function, be sure to insert SIM card into the SIM-card slot correctly.

MicroSD

supporting
2G/GSM/MMS/
GPRS service
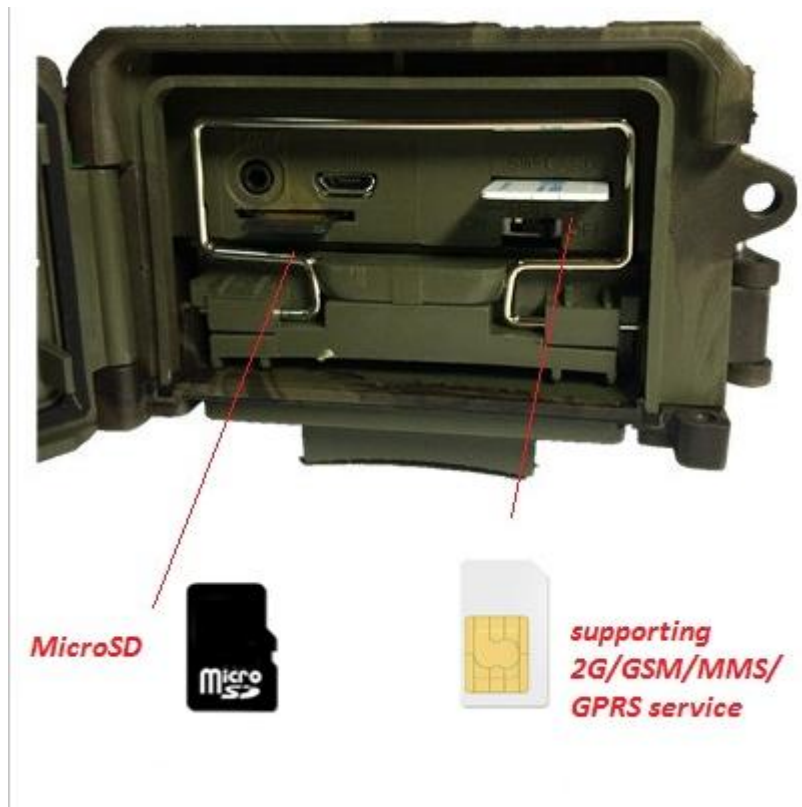
2.3 Enter into the CONFIG Mode

Turn the power switch to the CONFIG position to enter into the CONFIG mode. There are some functions in CONFIG 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 USB cable

Press right arrow to view captured files, the 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 CONFIG mode and the remote control is needed.

3.1 Settings Menu

Press MENU when camera in the CONFIG 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
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 ON/OFF Country Operator MMS APN Account Password MMSC Gateway IP Gateway Port MMS Phone MMS Email

3.1.5 SMTP Menu Setting

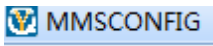| SMTP	⟹	SMTP ON/OFF Country Operator SMTP APN Account Password SMTP Server SMTP Port SendEmail SendEmail Password SMTP Email

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.
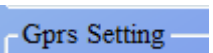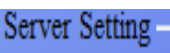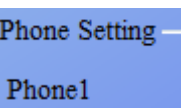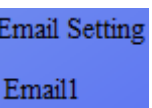
3.2 MMS/SMTP Settings
3.2.1 Preparation
1. 2G/GSM Mobile Operator Service
2. format 2GB+ Micro SD card
3. computer(Vista, Windows 7, windows 8 system)

4. One SIM card without PIN lock

5. The SIM card should be able to send images via 2G/GSM/ GPRS/MMS network
6. 9V 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)
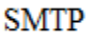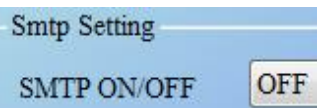10. Sender Email server info(server+port+email+password)
3.2.2 MMS setting:
1.   Insert TF card and SIM card to camera, put batteries in cam, screw the antenna, and then turn camera to Config mode, check there are ![signal] and ![SIM] on the camera screen. Then connect the camera to the PC with the included 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 ![camera menu: MMS ON/OFF, Country, Operator, MMS APN] 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 Config 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 ![MMSCONFIG]

2. Choose ![Mode   Camera] or ![Mode   Camera & Video] , Go to ![SMTP] table, select ![SMTP MODE   Manual]

3. Insert all

Gprs Setting
APN
Account
Password

4. Fill in sender email info in
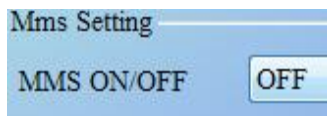
Server Setting
Type   Other
○ No SSL   ○ SSL   ○ STARTTLS
Server
Port
Email
Password

and

Email Setting
Email1

5. Go to MMS table, choose
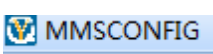
Mms Setting
MMS ON/OFF   OFF

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

7. Plug USB cable from camera

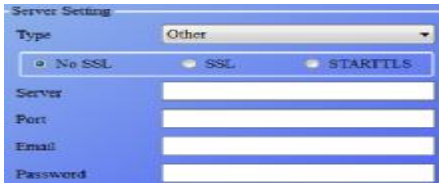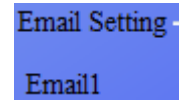8. Go to

SMTP
SMTP ON/OFF
Country
Operator
SMTP APN
Page 1/3
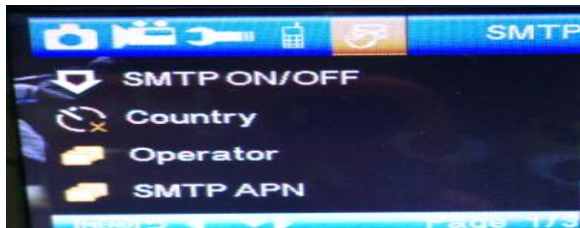
in cam menu, check the sub

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

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 pictures 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 9.0V
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/20meters
Number of IR LED	40 LEDs Black
Max Night Vision Lighting Distance	65ft/20 meters
Trigger Speed	0.8 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	USB; Micro SD Card Jack; 9V DC External Jack
Fix Method	Belt
Operation Temperature	-30 ~+70°C/-22~+158°F
Power Supply	8×AA batteries
Water proof	IP56
Menu Language	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
Remote control	1
Antenna	1
USB Cable	1
User's Manual	1
CD	1
Tilt Adjust	1