# TRAIL CAMERA

## USER MANUAL

**0.3s**

Fast trigger time

**120°**

Detection angle

1080P full hd

Rugged waterproof

# PACKING INCLUDES

◂ Camera

Manual ▸

◂ Mounting Strap

USB Cable ▸

◂ High gain Antenna

# SPECIFICATIONS

| Cellular/Wireless | |
|---|---|
| Frequency | 2G(GSM) HC801M<br>3G(WCDMA) HC801G |

| Photo recording | |
|---|---|
| Photo resolution | 16 MP |
| File format | JPG |
| Time lapse mode | 5min/30min/60min |
| Multi-shot mode | Up to 9 photos per detection |
| Stamp **(photos and video)** | Date, time, temperature (°C/°F) and moon phase |
| Capture mode | Color by day, black and white by night |

| Video recording | |
|---|---|
| Video resolution | 1920 x 1080/30fps (FHD) |
| File format | AVI/H.264 |
| Sequence lenght | Adjustable from 10 to 90 s |
| Capture mode | Color by day, black and white by night |

| Audio | |
|---|---|
| Sound recording (automatically recorded in video mode) | N/A |

| Memory storage | |
|---|---|
| Support | •Internal memory: none<br>•External memory : SD/SDHC card (up to 64 GB) |



| Viewing | |
|---|---|
| Built-in screen | TFT 2.4” |

| Power source | |
|---|---|
| Alkaline or lithium batteries | 8 x AA |
| Lithium battery pack | Rechargeable battery pack(LIT-801) |
| External (3.5X1.5mm Jack) | DC12V 1000mA ,(6V~12V) |

| Detection system | |
|---|---|
| Motion sensor | 3xPIR |
| Detection angle | 120° |
| Detection range | Adjustable from 1 to 80 ft |
| Trigger speed | 0.3 sec |
| Delay between each detection | Adjustable from Instant to 30 min |

| Night time illumination system | |
|---|---|
| LEDs | 36 LEDs |
| Flash range | < 90 ft |
| Exposure | Automatic infrared level adjustment |

| Optical field of view |
|---|
| 120° |

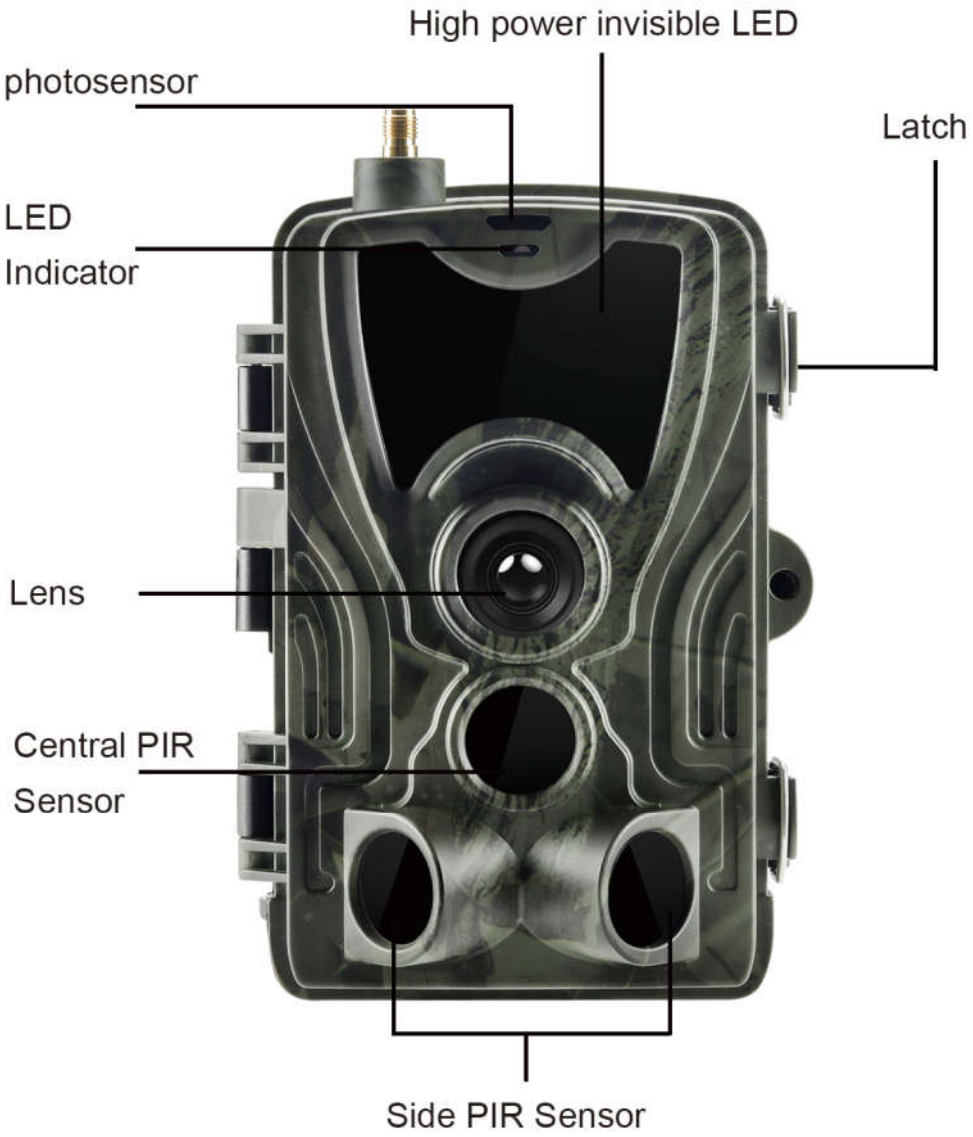
| Dimensions |
|---|
| 135mmX90mmX76mm |

| Recommendations | |
|---|---|
| Operating temperature | (-30 °C to + 50 °C) (-22 °F to +122 °F) |
| Storage temperature | (-40 °C to + 60 °C) (-40 °F to +140 °F) |

# THE SIZE LIST FOR TRANMITTING TYPE

| Version / Function | 4G | 3G | 2G |
|---|---|---|---|
| **MMS** | <100KB(Default), Options:200KB/100KB/50KB (depend on the limit of the local operator) | | |
| **SMTP** | <40MB (Picture and Video) | <1MB (Picture only) | Same with MMS |
| **FTP** | <40MB (Picture and Video) | Not support (need to be customized) | Not support (need to be customized) |
| **SIM** | **Support** | | |
| **Live Show** | Under development (Only in 4G camera) | | |





# INSTALLING BATTERIES

## IF USING AA - ALKALINE BATTERIES

1.Pull the gap lightly and open battery compartment.

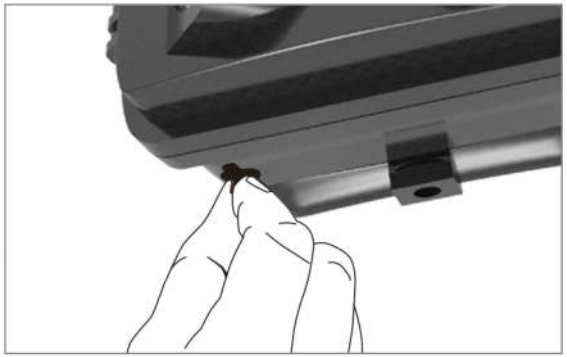
2.Reference the battery icons located on the inside of the battery compartment. Insert the batteries according to the positive and negative battery icons.

3.Close the battery compartment to resist water and dust.

NOTE: Installing any of the 8-AA batteries in the wrong direction may cause the batteries to leak acid and could possibly explode, causing camera failure and damage to the battery compartment.

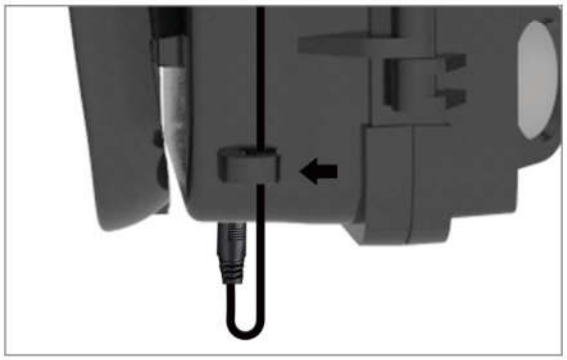
# BATTERIES CONT.....

## IF USING 12V DC POWER SOURCE



1. Remove the rubber port cap at the bottom of the camera . Using a universal 12V DC cord, plug in to the bottom port option.

2. Run the cord to the side of the camera where there is a hook provided behind the hinge of the camera door. This will support the power cord and take pressure off of the connection point



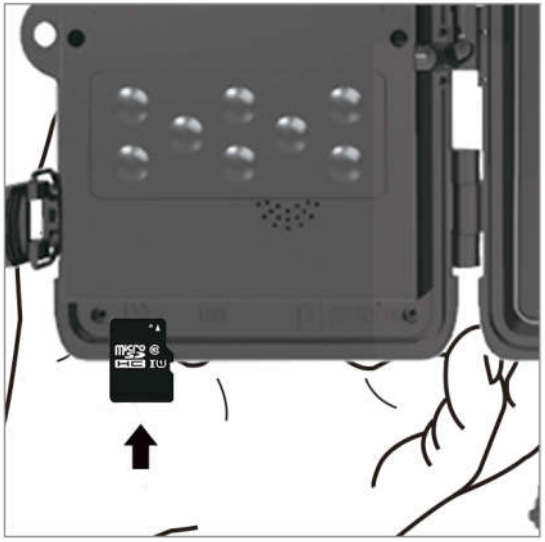
3. When not in use, replace the rubber port cap at the bottom of the camera to protect the 12V DC universal plug-in port.



# MEMORY CARD INSTALL

## INSTALL MICRO-SD CARD

1. Insert the Micro SD card with the contacts facing away. The Micro SD card should slide in freely with little resistance. Continue pressing the card inward until you hear a click. This means the Micro SD card is locked in place and ready for use.

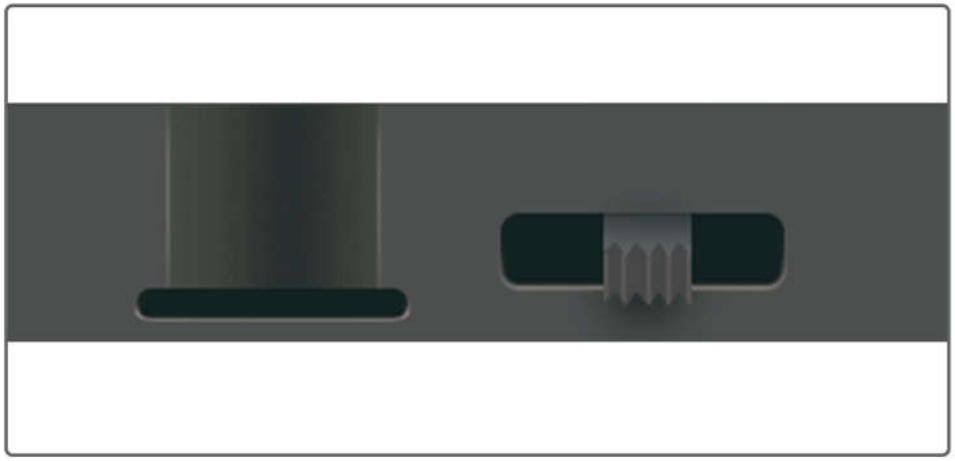


2. To remove Micro SD card, press the card inwards to release.

# QUICK START

## Enter to TEST mode

Slide the mode switch from OFF to TESTposition to activate the camera and view the user setup screen.

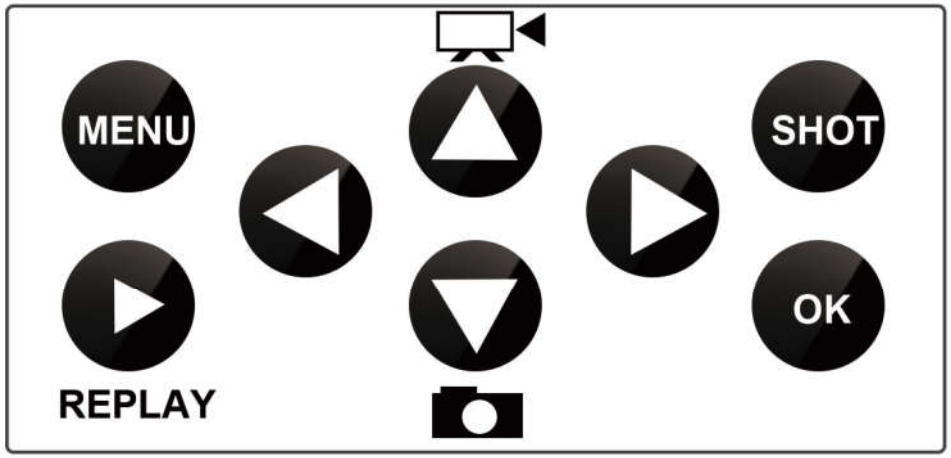


A SIM card is needed(basic model HC800A, does not need SIM card). Make sure your SIM card supports Short Messaging Service (SMS), Multimedia Messaging Service (MMS) and data traffic service.
When SIM card recognized by camera, the camera display will show carrier's icon.

There is a control panel with 8 keys when you open the camera.



# OPERATING BUTTONS




**MENU:** Open the Settings menu using the MENU button

**REPLAY:** Press this button to start the replay mode

: Change to the manual recording mode for video recordings

: Change to the manual recording mode for taking photos

**SHOT:** Manually take a video or photo depending on the set recording mode.Video recordings are ended by pressing the SHOT button

**ok, ◀ , ▶ :** No function(in recording mode)

The best position to place the camera could be found through this TEST mode. Generally, it is recommended to place the camera at the height of 3 to 6 feet (1 to 2 meters) to the ground.

Press directly to get the IMEI (in the TEST mode).

## Enter to ON Mode

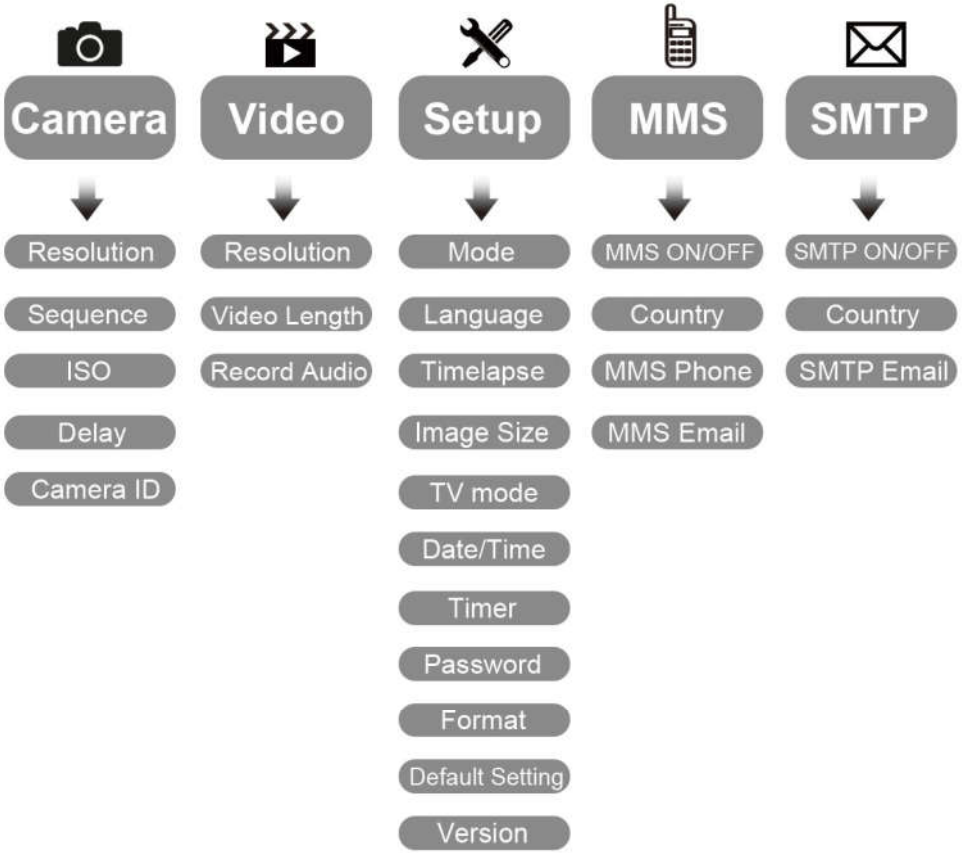
After you complete all the setting, slide power switch to ON to enter to auto working mode. The motion indicator will flash red for about 5 seconds and the camera starts working after that. It will immediately take pictures or record videos when person or animal enters into the area of the PIR sensor.

- **Cautions:** To avoid potential false triggers due to temperature and motion disturbances, please do not aim the camera at a heat source (e.g.: the sun, heated stone or metal) or nearby tree branches and twigs. The ideal direction to aim at is the north and the open place without heat source. Also, remove any twigs close to the front of the camera.



# Advanced Setting

## Menu list



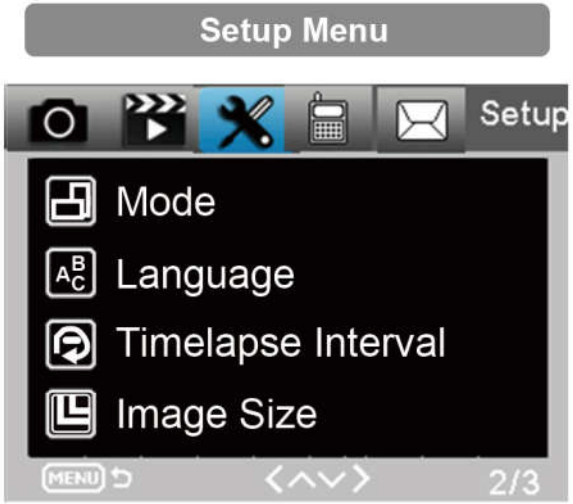
## Camera Menu setting

| Camera | Sub menu | Description |
|---|---|---|
| **Resolution** | 16MP, 12MP, 8MP | Photo Size |
| **Sequence** | 1/3/6/9 | Number of photos taken every time |
| **ISO** | Auto,100,200,400 | The camera exposure level |
| **Delay** | 1/5/10/30 sec/min | Waiting time from the last taking |
| **Camera ID** | 0-0-0<br>0-0-0 | Camera ID |



## Video Menu setting

| Video | Sub menu | Description |
|---|---|---|
| **Resolution** | 1080P, 720P, WVGA, VGA | Video size |
| **Video Length** | 10S, 30S, 60S, 90S | The time length of video |
| **Record Audio** | On, Off | If On, Video sound is recorded |




| Setup | Sub menu | Description |
|---|---|---|
| **Mode** | Camera, video, camera& video,Timelapse | Taking picture, video, picture and video, taking picture regular |
| **Language** | English, Francais, Deutsch and so on | Camera Menu language |
| **Timelapse interval** | 5/30/60 Min | Taking picture or video every 5/30/60 minutes constantly |
| **Image Size** | Small/Normal/Big | Size for transmitting picture<br>Small <100KB<br>Normal <150KB<br>Big <200KB |
| **TV Mode** | NTSC, PAL | TV play mode |



| Setup | Sub menu | Description |
|---|---|---|
| **Date/Time** | 2018-09-03 16:37:25 | Year-Month-Date Hour: Minute:Second |
| **Timer** | ON, OFF | If On, the camera only works in the period |
| **Password** | **** | 4 digital numbers(1314 Universal password) |
| **Format** | SD Card | All files of memory card will be deleted |
| **Default Setting** | return menu setting to defaults | Cancel/OK |
| **Version** | 03/09/2018 16:37:25 | Camera version |

## MMS Menu

| MMS | Sub menu | Description |
|---|---|---|
| **MMS ON/OFF** | Off/On | MMS Off/On |
| **Country** | Set in MMSCONFIG | Operator name |
| **MMS Phone** | Set in MMSCONFIG | Receiver's phone of mms |
| **MMS E-mail** | Set in MMSCONFIG | Receiver's mail of mms |



## SMTP Menu

| SMTP | Sub menu | Description |
|---|---|---|
| **SMTP ON/OFF** | Off/On | SMTP Off/On |
| **Country** | Set in MMSCONFIG | Operator name |
| **SMTP E-mail** | Set in MMSCONFIG | Receiver's mail of picture |

# MMSCONFIG SETTING

- **Load CD into the computer**
- **Click the MMSCONFIG.exe file from MMSCONFIG folder**

- **Fix Camera, Video and System Menu Setting (the second way to set the menu)**

Note: If you have done the menu setting by remoter in TEST mode, you can skip.

- **Fix MMS Setting**

**Auto MMS Mode:**

In Auto MMS Mode, there is configured information for selection

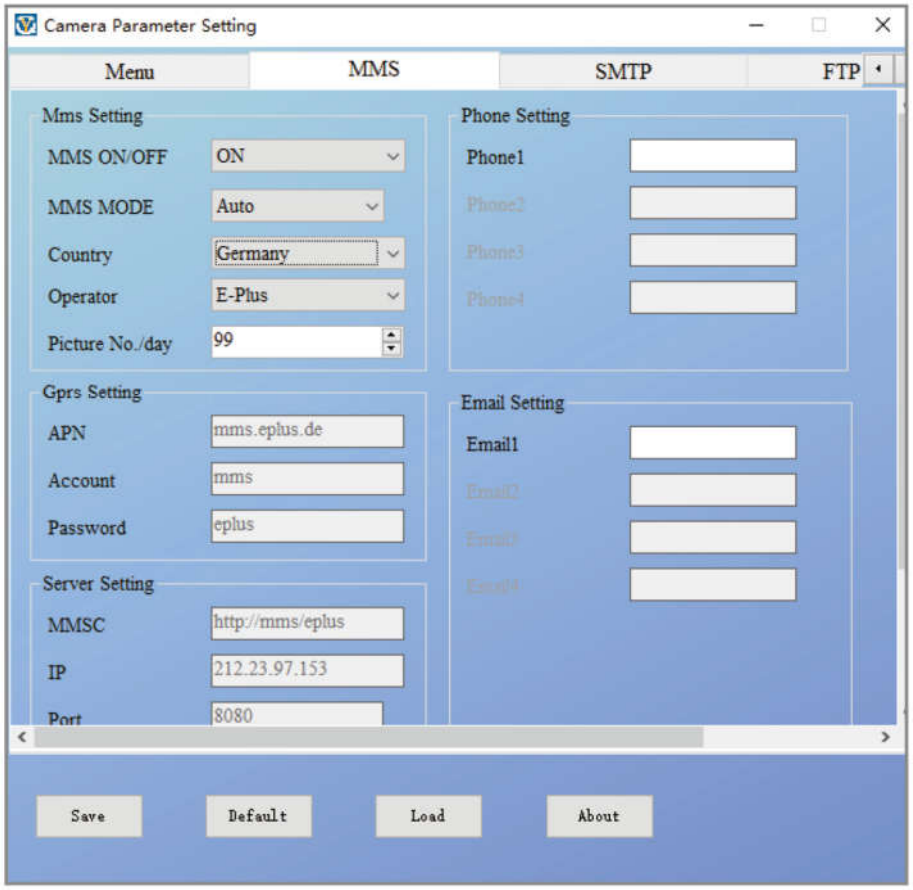
a. Choose Country

b. Choose Operator

c. Fill in the phone number in the right-side blank column as receiver

d. Fill in the email address for photos receiving

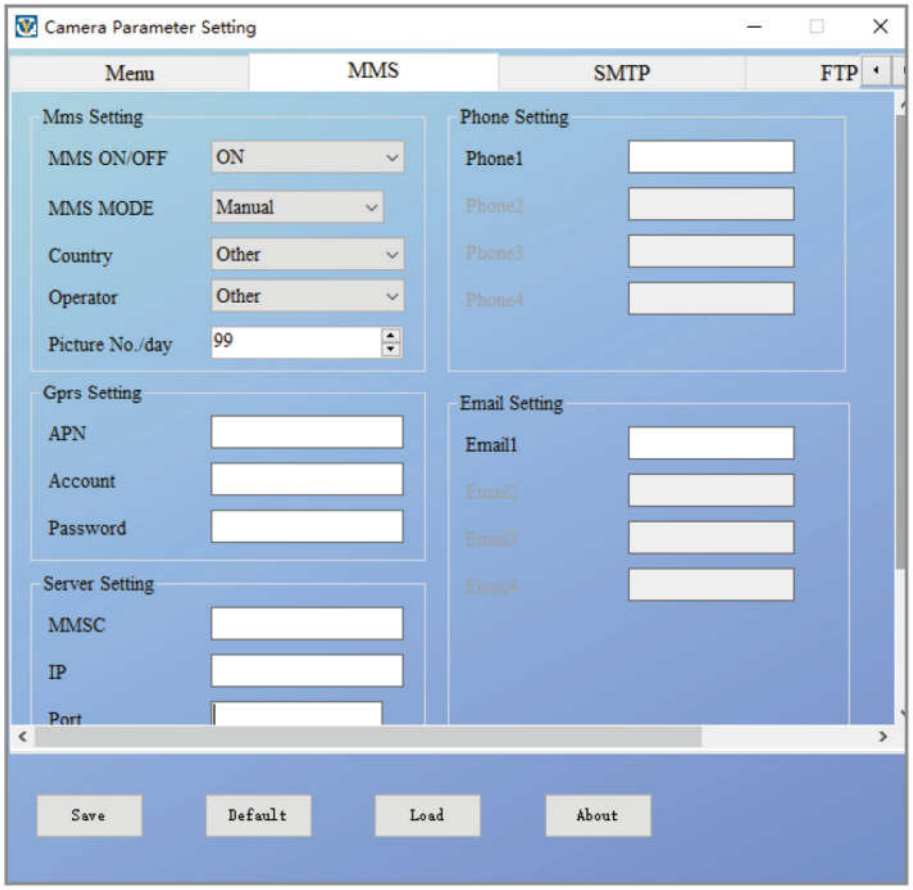





**Manual MMS Mode:**

If there is no configured information for selection, please choose Manual MMS Mode.

Firstly, User need to choose manual and contact SIM card carrier to get and fill in the APN, Account, Password, MMSC, IP and Port information. Secondly, fill in receiver phone number or E-mail address at right side.




## Fix SMTP Setting

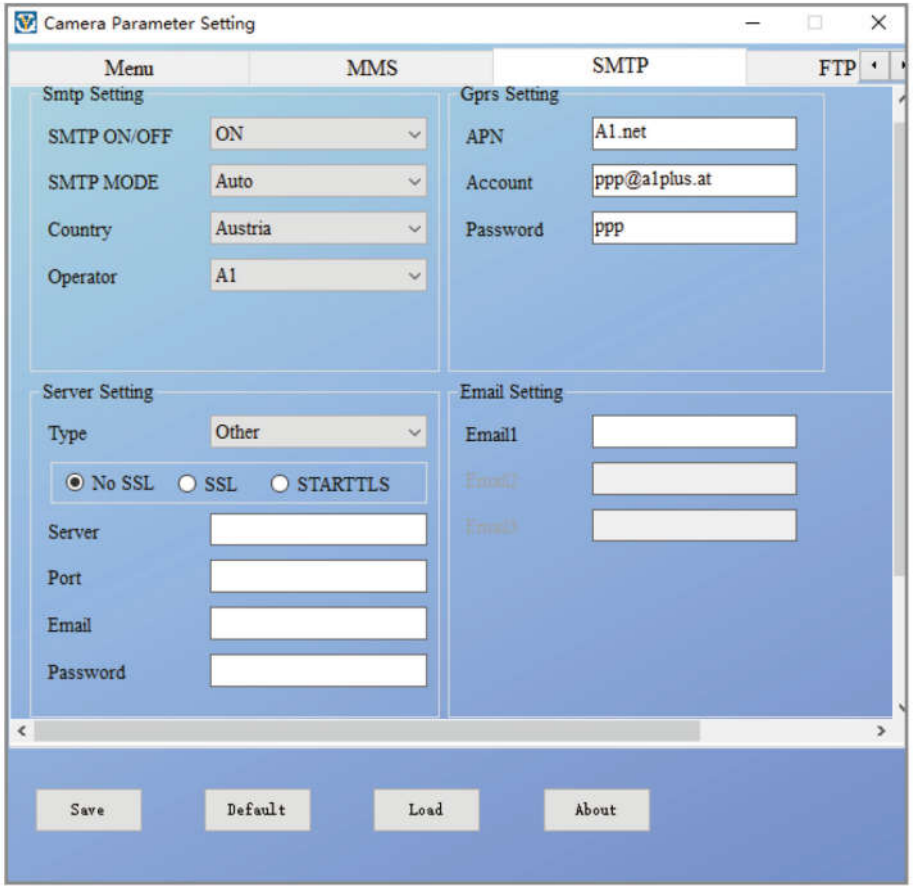
This way of sending pictures is also called data transmission. It's highly popular now,the picture is sent from email to email, only charging the data cost.

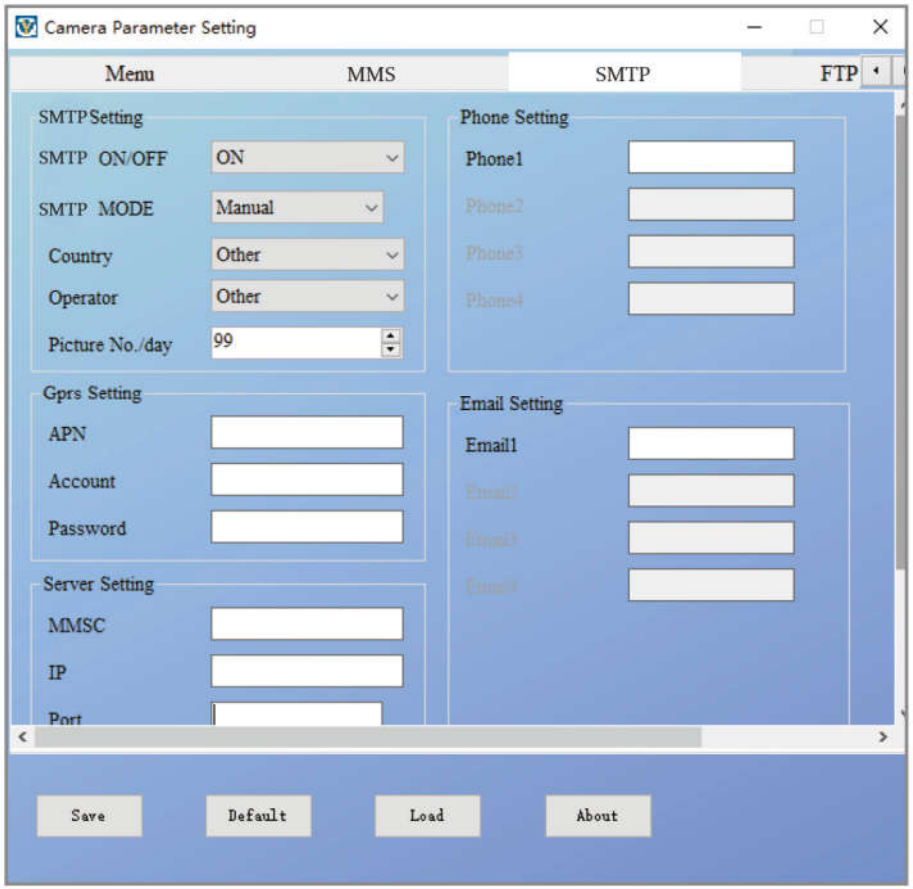


## Auto SMTP Mode:

In Auto SMTP Mode, there is configured information for selection

a. Choose Country
b. Choose Operator
c. Choose Type of email
d. Add sending email address on the left
e. Add sending email address password on the left
f. Add receiving email address on the right






**Manual SMTP Mode:**

If there is no configured information for selection, please choose Manual SMTP Mode.

Firstly, User need to contact SIM card carrier to get APN, Account, Password information and fill in; contact sending email provider to get server, port information.

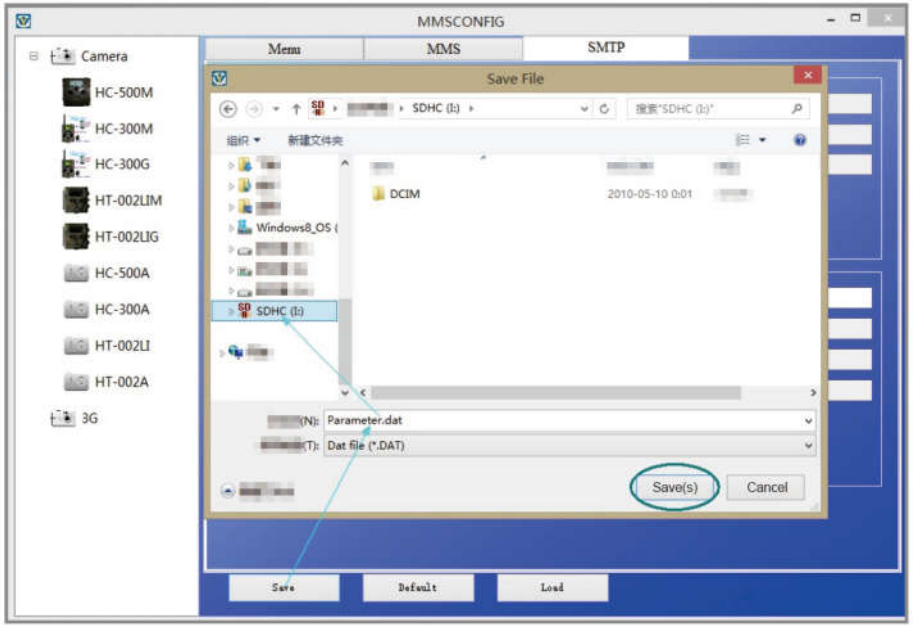


a. Add sending email address on the left

b. Add sending email address password on the left

c. Add receiving email address on the right

## Save the file “Parameter. dat” to Micro SD card




# SMS COMMAND CODE

This camera support SMS remote control, control camera by sending SMS code below.

**The SMS codes are:**

| code | Function | Meaning |
|---|---|---|
| *530* | Camera Start | Start Working |
| *531* | Camera Sleep | Stop Working |
| *500* | Capture | Camera takes a picture, then sends it to related phone or email(record on MMS,SMTP site) |
| *505* | Capture and get pic (MMS mode) | Camera take a picture, then sends it to current phone |
| *520* | Get Pic information | Camera send a a text with picture number, SD card capacity, battery lever. |



# TROUBLE SHOOTING

**Camera Doesn't Capture Subject of Interest**

- Check the PIR sensitivity. For warm environmental conditions, set the Sensor Level to "Low" and for cold weather use, set the sensor for "High".
- Try to set your camera up in an area where no heat resources are in the camera's field of view.
- In some cases, set the camera near to water will make the camera take images with no subject in them.
- Try to aim the camera over ground.
- Try to set camera on stable and immovable objects, i.e.: large trees.
- At night, motion detector may detect beyond range of the IR illumination, reduce distance setting by adjusting sensor sensitivity.
- Rising sun or sunset can trigger sensor. Camera should be reoriented.

- If person/animal moves quickly, it may move out of the camera's field of view before photo is taken. Move camera further back or redirect camera.

**Camera Stop Taking Images**

- Please make sure that the memory card has enough memory storage. If the card is full, camera will stop taking images.
- Check batteries to make sure that alkaline, NIMH or lithium AA batteries left power is enough for camera to work
- Make sure that the camera power switch is at the "On" position and not at the "Off" or "Test" modes.
- When MMS/SMTP function is on, there will be around 1minute interval for camera to send out photo before camera take the next photo.
- Please format the memory card when you first time to use it or change to use another memory card



**Night Vision Flash Range Doesn't Meet Expectation**

- 4pcs AA batteries is not able to support camera night vision ability, please install 8 pcs AA batteries for better battery life
- make sure that batteries are fully charged or left power is enough.
- High-quality 1.5V NIMH or Lithium rechargeable AA batteries can offer much better Infra flash range than alkaline batteries.
- To ensure accuracy and quality of night image, please try to mount camera on dark environment without obvious light sources.
- To ensure accuracy and quality of night time image, please mount camera to dark environment without any obvious light sources;
- Certain surroundings (like trees, walls, ground, etc.) within flash range can get you better night time images; please do not aim camera to total open field where there is nothing within IR flash range to reflect flash back, it's like shinning a flashlight into sky in night, you just can't see anything, same does camera.

## Camera Take Images but won't send them to mobile phone /E-mail

- If you choose manual mode, the info you fill in may has problem, Contact SIM card carrier to confirm all the info such as Apn, server, port is correct.
- When you turn on MMS function, it doesn't need to add international phone zone number before the phone number, just fill in your mobile phone number.
- When you turn on SMTP function, please make sure that your email's server and port is correct, some email server will reject email as SPAM, you can try to find your email at SPAM box or contact seller to get test email and have a try.
- Don't rename parameter.dat, you can check your phone number or E-mail by camera menu, please save parameter. dat at the boot of memory card, otherwise camera can 't recognizes the parameter.dat