

# 12MP 3G GPRS MMS SMS Control Scouting Trail Camera



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# 1. Introduction

Thank you for choosing one of our highly qualified 3g Scouting Trail Camera. This 12MP HD digital camera was totally R&D by our diligent and smart engineers based on feedbacks and requirements from customers globally.

## 1.1 Application

This digital camera is an ideal product for housing security, warehouse surveillance, and monitoring wild animals with its camouflage appearance and nice shape. It is convenient to install or fasten, could be used to take photographs manually and carry on long-time videos in Test mode.

- a. Instant surveillance camera for home, office, construction site, and warehouse, etc
- b. Motion-triggered infra-red night vision surveillance;
- c. Animal observation and hunting;

## 1.2 Power Supply

### a. Lithium battery

This camera can work with our own lithium battery.

Pls note that the voltage of rechargeable lithium battery (4.8V) is insufficient to power this device. The battery should be inserted as indicated inside the battery case.

### b. Solar Panel

To bring users better using experience, our engineers designed this camera to be able to work with most standard 9V lithium battery build-in solar panels.

We strongly recommend the camera works with the original solar panel.

Pls note solar panel only charges the battery, not supply power directly.

### c. Power Adapter

This camera can also be powered by an external 9V DC adapter.

Pls note power adapter only charges the battery, not supply power directly.

## 1.3 Caution

- a. Please insert the SD-card when the power switch is at OFF position before testing the camera.
- b. Please do not insert or take out the SD-card when the power switch is at ON position.
- c. It is recommended to format the SD-card by the camera when used at the first time.
- d. The camera will be in USB mode when connected to a USB port of a computer. In this case, the SD-card functions as a removable disk.
- e. Please ensure sufficient power when having firmware upgrade, otherwise the upgrade process could be interrupted incorrectly. If any fault occurs after improper upgrading process, the camera may stop function properly.

## 1.4 Key Features

1	Built-in 2.5" TFT color screen to review photos and videos on camera
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2	42 pcs IR LEDs for flash range as 20 meters
3	Programmable 5/8/12 Megapixel high-quality resolution
4	Color pictures during day; black and white at night
5	Adjustable PIR sensitivity; HIGH, MID, LOW
6	Impressive quick trigger time: 0.7s
7	Multi-shot pictures; 1,3,6,9
8	Adjustable delay between motions; 1/5/10/30 seconds/minutes
9	Adjustable video length: 10/30/60/90 seconds
10	With rechargeable lithium battery, the longest standby time is up to 6 months
11	Available operation temperature: -20℃ to 60℃
12	With specified Timer, camera can be programmed to work only during preset time period every day
13	Stamp of date, time, temperature and moon phase on every picture
14	Support 3G and 2G SIM cards to get real-time photos; If 3g SIM card, it will works on 3G net work, faster sending photos
15	With MMS/SMTP function, camera can transmit photos to 1-4 preset mobile phones or 1-4 email per trigger
16	SMS to enable camera to shoot a photo and send back instantly, ask camera to work or not work, get number of taken picture and battery status

## 2. Whole View and Details of Camera

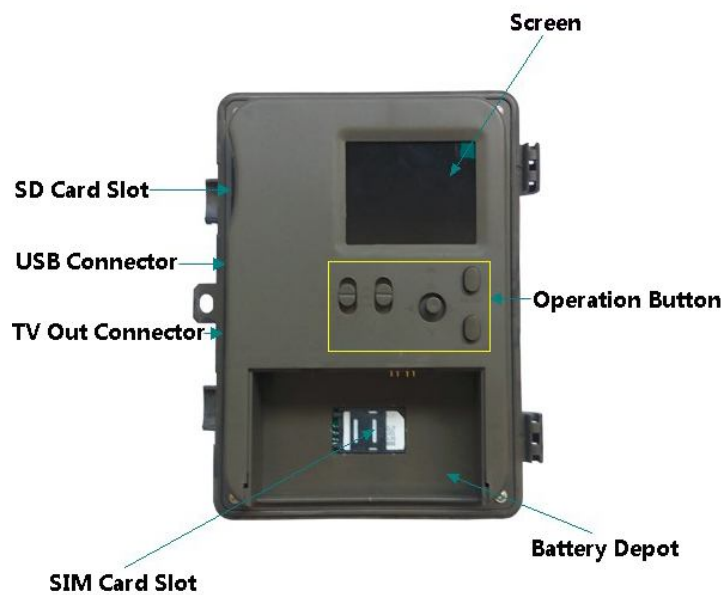
### 2.1 Front View of Camera



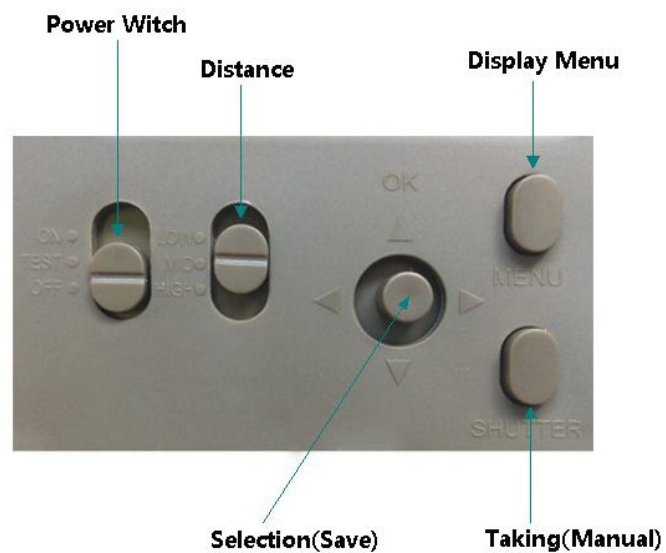
### 2.2 Back View of Camera



## 2.3 Inside View of Camera



## 2.4 Operation Button

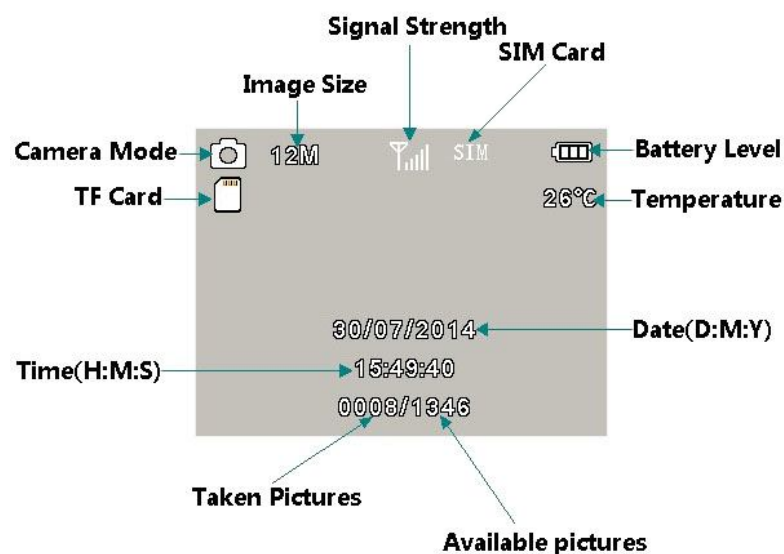


Introduction:

1. Slide Power Witch to TEST position, the camera turns on

2. Slide Power Switch to On position, the camera works automatically
3. In TEST mode.
  - a. Press SHUTTER directly, the camera will take picture or video directly.
  - b. Slide right directly, the picture or video recorded can be viewed
  - c. Viewing picture, slide up or down
  - d. Viewing video, slide left to start, again to stop

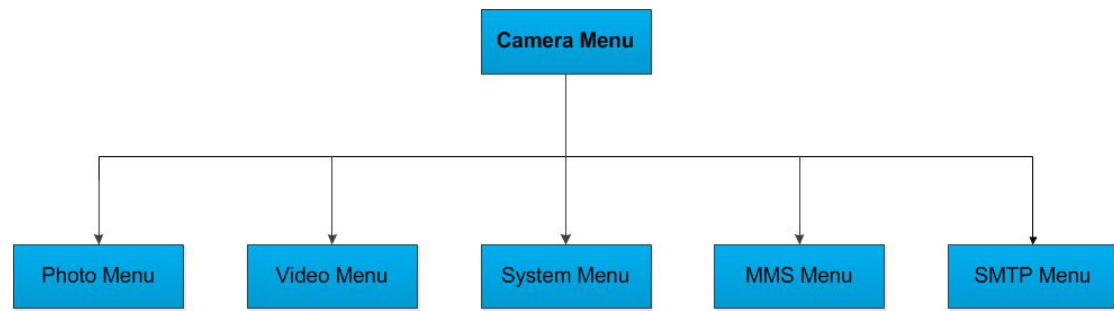
## 2.5 Screen Information Display



Note: To active its MMS or SMTP function, the camera should find signal and SIM card.

## 2.6 Settings Menu

There are five parts setting of the camera



## 3. Quick Operation

### 3.1 Insert SD card and SIM card

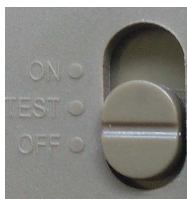


Note: To active its MMS or SMTP function, pls save setting file Parameter.dat by MMSCONFIG to SD card.

### 3.2 Load Battery



### 3.3 Power on



Slide Power Witch from OFF to Test or On position, the camera powers on

### 3.3.1 TEST

In this mode, the screen lights up. User can do the operations by remoter:

- a. Setting Camera Menu, including photo, video and system
- b. Take picture or video
- c. View picture or video

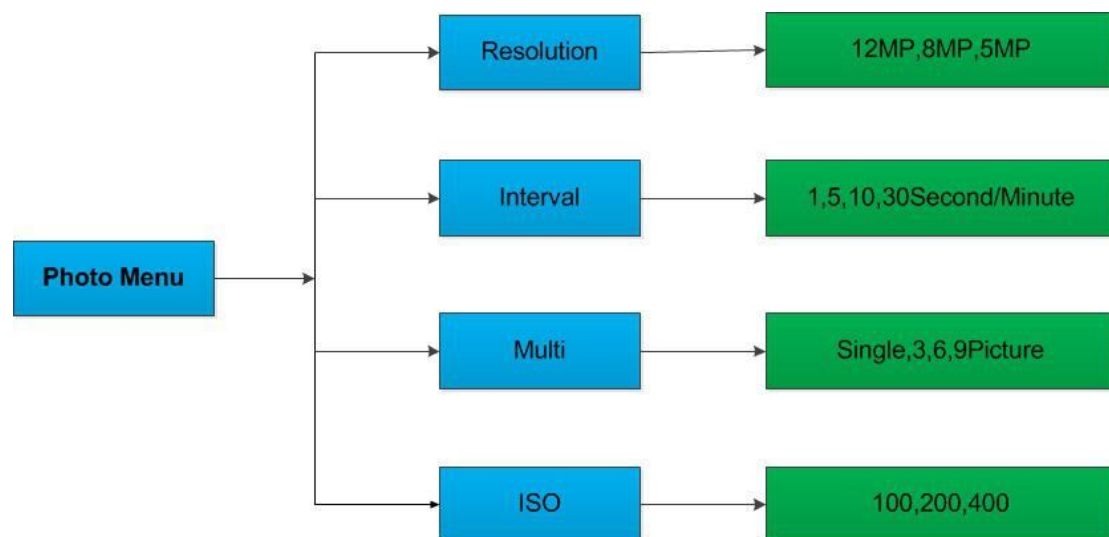
### 3.3.2 On

In this mode, the screen is closed. The camera works automatically.

## 3.4 Menu Setting Operation

User can fix photo, video and system menu setting by operation button; MMS menu and SMTP menu setting by software MMSCONFIG from CD.

### 3.4.1 Photo Menu setting

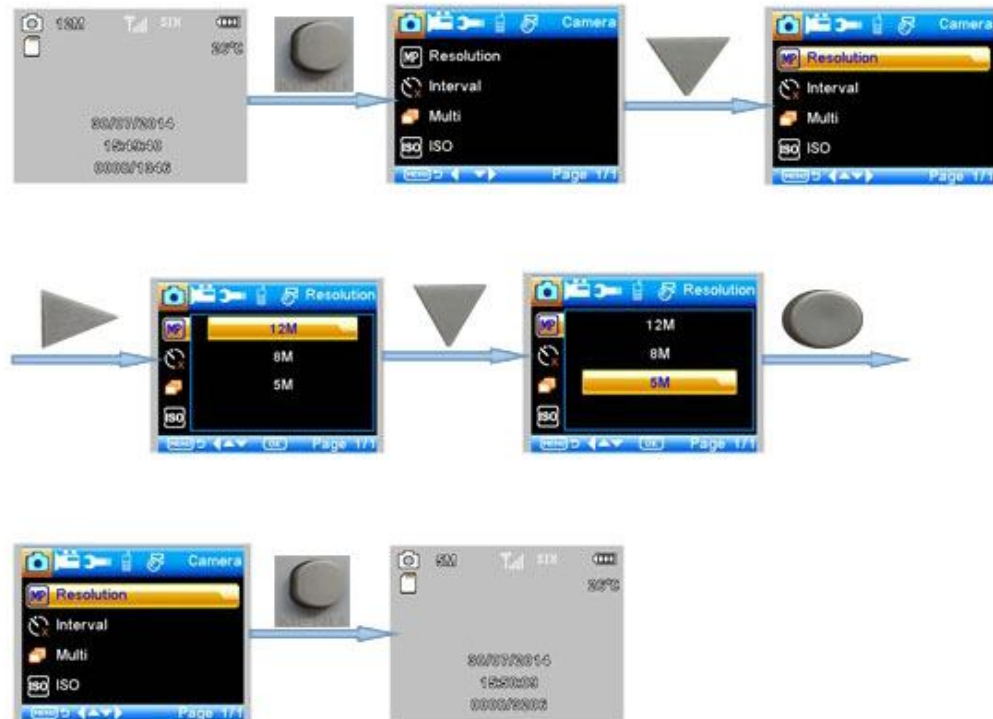


Description:

Menu	Content	Description
Resolution	12MP, 8MP, 5MP	Photo size
Interval	1/5/10/30 sec/min	Waiting time from the last taking
Multi	1/3/6/9	Number of photos taken every

		time
ISO	100,200,400	The camera exposure level

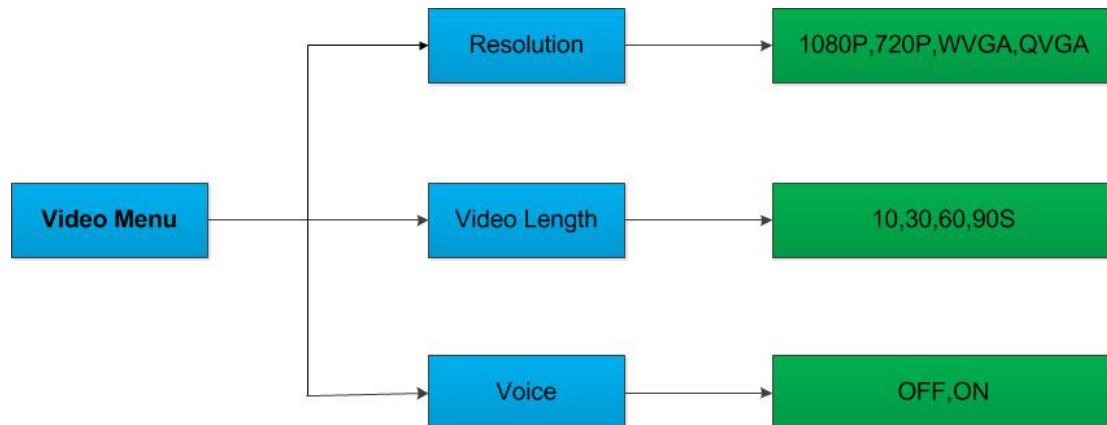
To change 12MP to 5MP Resolution, the operations are:



Note:

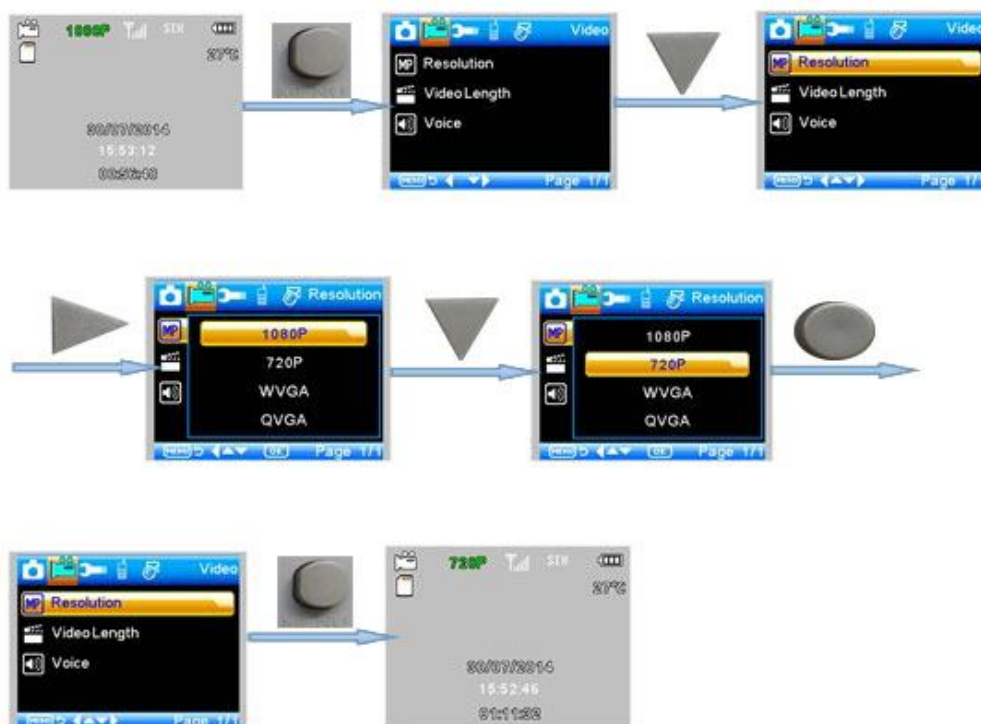
1. The mode is Camera or camera&Video
2. Interval, Multi and ISO setting operations are same.

### 3.4.2 Video Menu



Menu	Content	Description
Resolution	1080P, 720P, WVGA, QVGA	Video size
Video Length	10S, 30S, 60S, 90S	The time length of video
Voice	On, Off	If On, Video sound is recorded

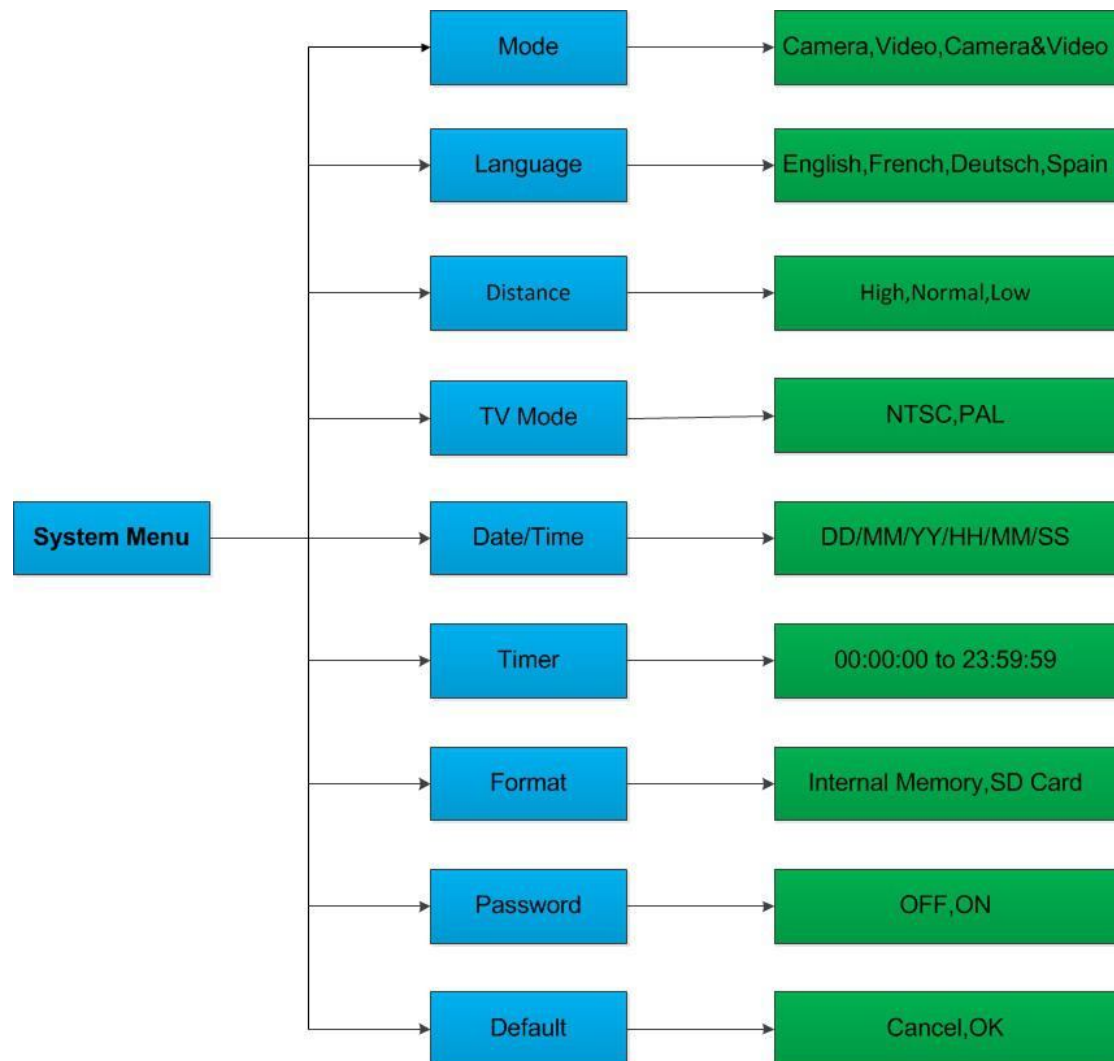
To change 1080P to 720P Resolution, the operations are:



Note:

1. The mode is video
2. Video length and voice setting operations are same.

### 3.4.3 System Menu



Menu	Content	Description
Mode	Camera, video, camera&video	Taking picture, video, picture and video
Language	English, Francais, Deutsch and so on	Camera Menu language
TV Mode	NTSC, PAL	TV play mode
Date/Time	31-07-2014 15:49:40	Date-Month-Year Hour:Minute:Second
Password ON/OFF	ON, OFF	Password of entering camera
Password	****	4 digital number

Timer	On, Off	If On, the camera only works in the period
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To change Camera to Video mode, the operations are:



Note:

1. Language, Distance, TV Mode, Format and Default setting operations are same.
2. In Date/Time, Timer and Password setting:
  - a. Slide up or down to select number
  - b. Slide right to enter into next menu

3. After select Default, the setting is:

Setting	Default	Items
Mode	Camera	Camera, Video, Camera&Video
Resolution (Camera)	12M	12M, 8M, 5M
Delay	1 Seconds	1-30 Seconds, 1-30 Minute
Multi	Single	Single, 3, 6, 9 Pictures
ISO	400	100, 200, 400
Resolution (Video)	1080P	1080P, 720P, WVGA, QVGA
Video Length	10s	10s, 30s, 60s, 90s
Date/Time	Same as last time	YY/MM/DD, MM/DD/YY, DD/MM/YY Adjust
Distance	High	High, Normal, Low
Language	English	English, French, Germany, Spanish and Russian
Timer	0 0 0 to 23 59 59	Adjust
Format	Internal Memory	Internal Memory, SD Card
TV Mode	NTSC	NTSC, PAL
Password	Off	Off, On

### 3.4.4 MMS Menu



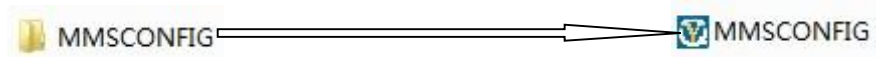
### 3.4.4 SMTP Menu



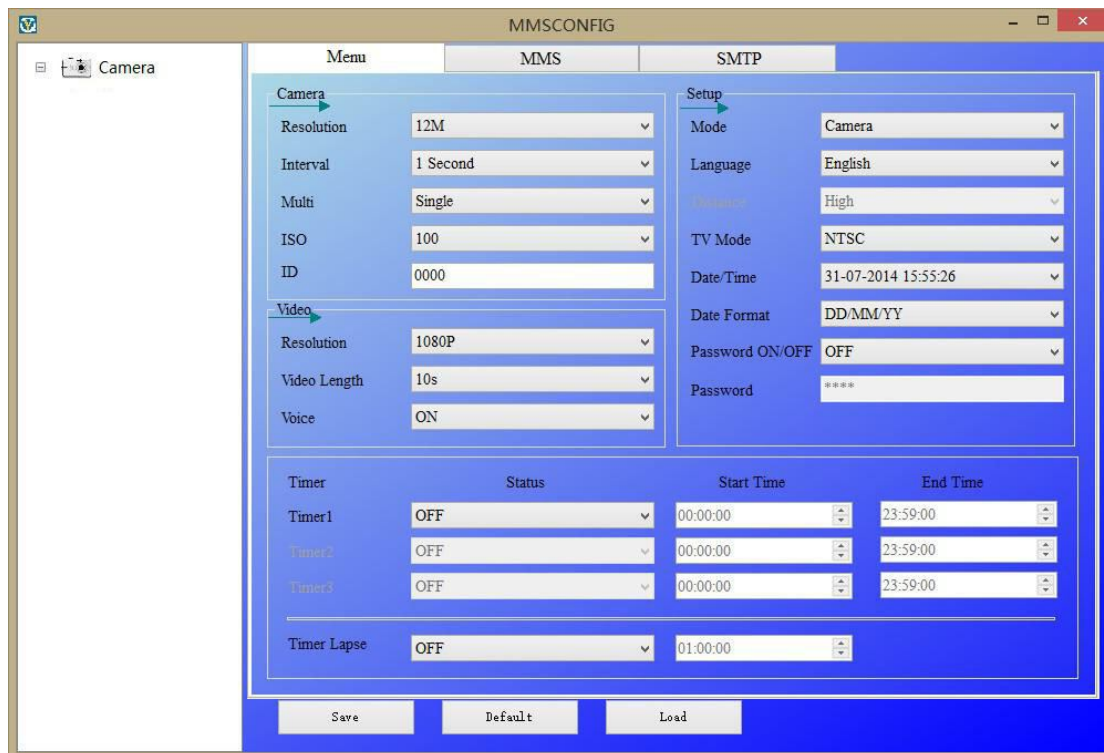
## 4. MMSCONFIG Setting

1 Load CD into the computer

2 Run MMSCONFIG.exe file from MMSCONFIG folder



3 Fix Photo, Video and System Menu Setting



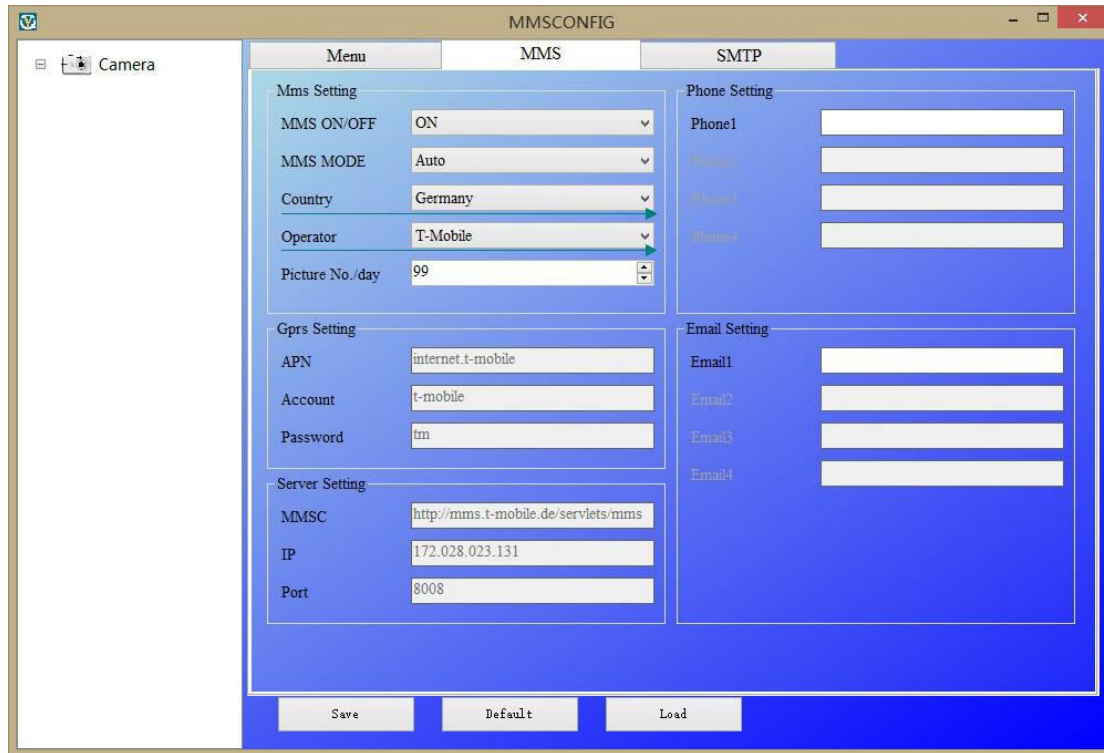
Note: After setting menu by operation button, user can skip it.

4 Fix MMS Setting

A. Auto MMS Mode:

In Auto MMS Mode, there is configured information for selection

- a. Choose Country
- b. Choose Operator
- c. Add phone number for receiving photos
- d. Add email address for receiving photos



## B. Manual MMS Mode:

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

Firstly, User need to contact SIM card operator to get APN, Account, Password, MMSC, IP and Port information. Then

- a. Add phone number for receiving photos
- b. Add email address for receiving photos

## 5 Fix SMTP Setting

This way of sending pictures is also called GPRS transmission by users. It's highly welcome now, because the picture is sent from email to email, only charging the flow cost.

## A. 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

The screenshot shows the MMSCONFIG application window with the SMTP tab selected. The interface is divided into several sections for configuring email settings.

Menu		MMS		SMTP	
<div>Camera</div>					
<div> <div> <b>Smtp Setting</b> </div> <div> SMTP ON/OFF: ON  SMTP MODE: Auto  Country: Germany  Operator: T-Mobile  Picture No./day: 99 </div> </div>					
<div> <div> <b>Gprs Setting</b> </div> <div> APN: internet.t-d1.de  Account: internet  Password: t-d1 </div> </div>					
<div> <div> <b>Server Setting</b> </div> <div> Type: Gmail  <input type="radio"/> No SSL <input checked="" type="radio"/> SSL <input type="radio"/> STARTTLS  Server: smtp.gmail.com  Port: 465  Email:   Password:   </div> </div>					
<div> <div> <b>Email Setting</b> </div> <div> Email1:   Email2:   Email3:   Email4:   </div> </div>					
<div> <div>Save</div> <div>Default</div> <div>Load</div> </div>					

## B. Manual SMTP Mode:

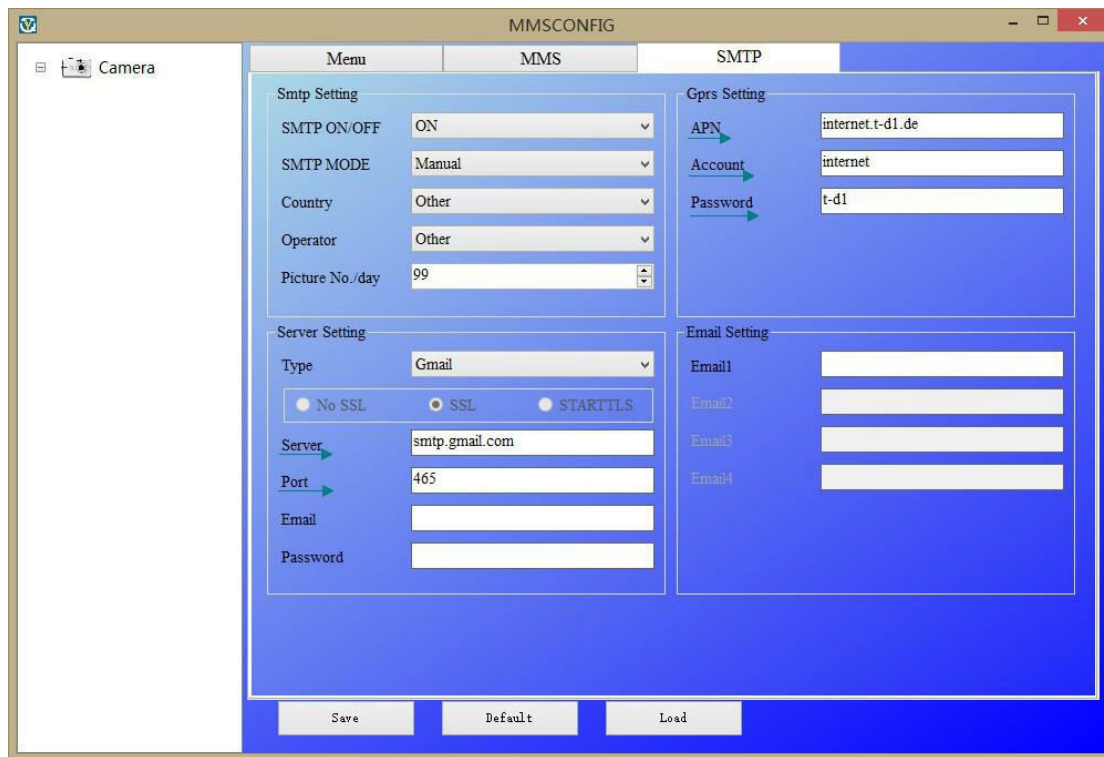
If there is no configured information for selection, pls choose Manual SMTP Mode.

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

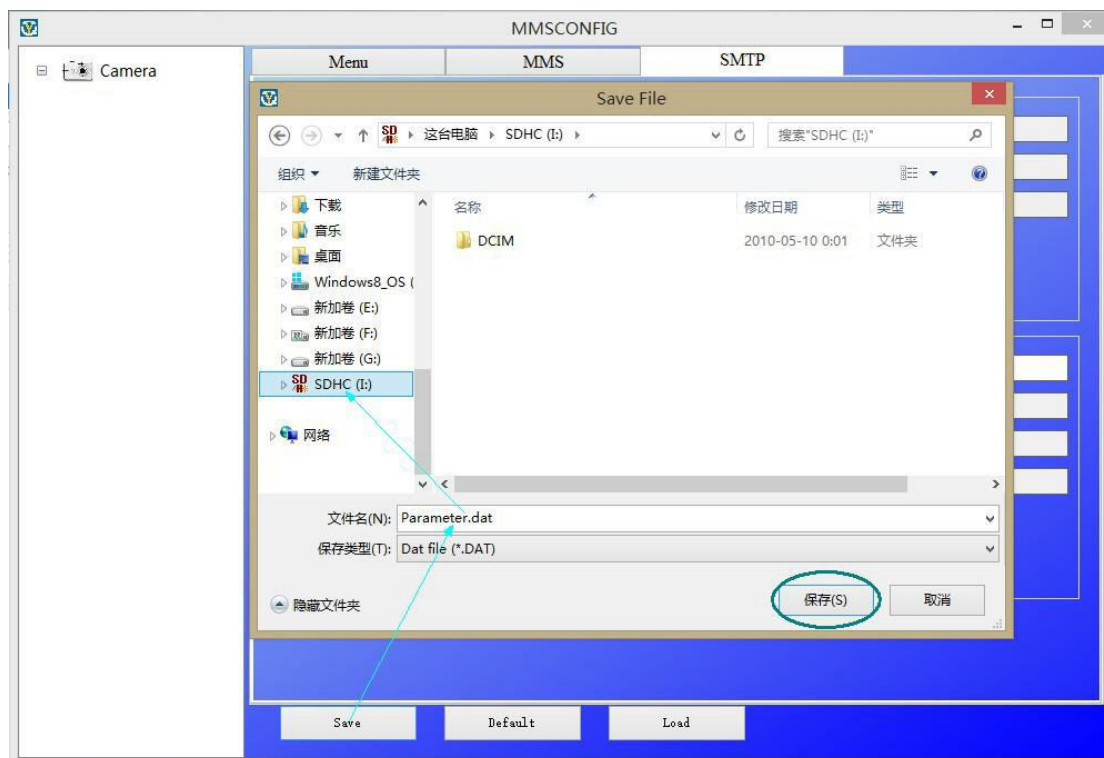
- a. Add sending email address on the left

b. Add sending email address password on the left

c. Add receiving email address on the right



6 Save Parameter.dat to SD card



## 5. SMS Control

There are 2 ways for using:

1. Send sms code directly
2. Install phone application, select function command

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 configured phone or email
*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.

## **6. Firmware Upgrade**

This camera is equipped with an automatic upgrade function for you. Upgrading is needed only when an improved firmware is available. The operations are as following:

1. Unzip the update file
2. Copy the FW18NA.bin to SD card.
3. Insert the SD card into the camera.
4. Power on the camera (Test Mode) .
5. The camera will read it and update itself automatically. When updating the camera, its screen is black.
6. The screen will light on after being finished
7. Plug out the SD card, then insert it into PC, delete the FW18NA.bin in the SD card.(If you don't do this, the camera will enter update mode when power on again).
8. Insert the SD card into the camera for its working.

## 7. Specification

Image Sensor	12 Mega Pixels Color CMOS
Memory	SD Card to 32GB
Lens	F=3.1; FOV=60 °
Size	160mm * 120mm * 50 mm
IR Filter	Full Automatic IR Filter
TFT Display Screen	2.5 inch
LED	Black Invisible 940nm
PIR Distance	High/Normal/Low
PIR Sensor Sight Angle	100 Degrees
PIR Sensing Distance	82ft/25m
Number of IR LED	42 LEDs
Max Night Vision Lighting Distance	65ft/20 meters
Trigger Speed	0.7second
Low Battery Indicator	Yes
Triggering Interval :	1/5/10/30sec/min (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
Frequency Bands	2G GSM 850/900/1800/1900 MHz
	3G UMTS/HSPA 850/900/1900/2100
SMS Control	Support
GPRS transmission	Data transfer by email
MMS to phone	1-4 phone number
MMS to e-mail	1-4 email address
Periodic shot	1Second~24Hours
Stand-by current	0.2mA
Stand-by time	3Months
Interface	TV out (NTSC/PAL); USB; SD Card Holder; 6V DC External
Fix Method	Belt, Tripod Nail
Operation Temperature	-30 ~+70°C
Power Supply	Rechargeable Lithium Battery
Camera Socket	Yes
Water proof	IP54
Security authentication	FCC,CE,RoHS

## 8. Packing List



Digital Camera



AC Adapter



Lithium Battery



USB Cable



AV Cable



Strap



CD