TRAIL CAMERA

USER MANUAL

HD
1080P full
hd

0.3s
Fast trigger
time

120°
Detection angle

Rugged
waterproof

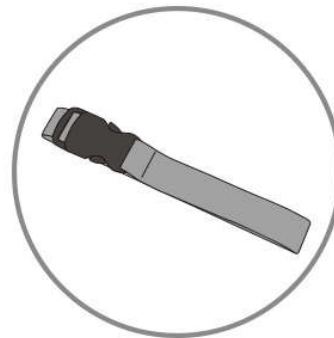# PACKING INCLUDES

Camera

Manual

High gain Antenna

Mounting Strap

SPECIFICATIONS

Cellular/Wireless

Frequency	4G(FDD LTE,TDD LTE) 3G(WCDMA) 2G(GSM)

Photo recording

Photo resolution	20 MP
File format	JPG
Time lapse mode	5min/30min/1h
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 length	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 •External memory : Micro SD card (up to 64 GB)

Viewing

Built-in screen	TFT 2.0"

Power source

Alkaline or lithium batteries	8 x AA
Lithium battery pack	Rechargeable battery pack(LIT-900)
External (5.5X2.1mm Jack)	DC12V 1000mA ,(6V~12V)

Detection system

Motion sensor	Single PIR
Detection angle	120°
Detection range	25 meters/ 75ft
Trigger speed	0.3 sec
Delay between each detection	Adjustable from Instant to 30 min

Night time illumination system

LEDs	44 LEDs
Flash range	<25 meters / 75ft
Exposure	Automatic infrared level adjustment

Optical field of view

120°

Dimensions

150mm X 100mm X 60 mm

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)

IR LED

Lens

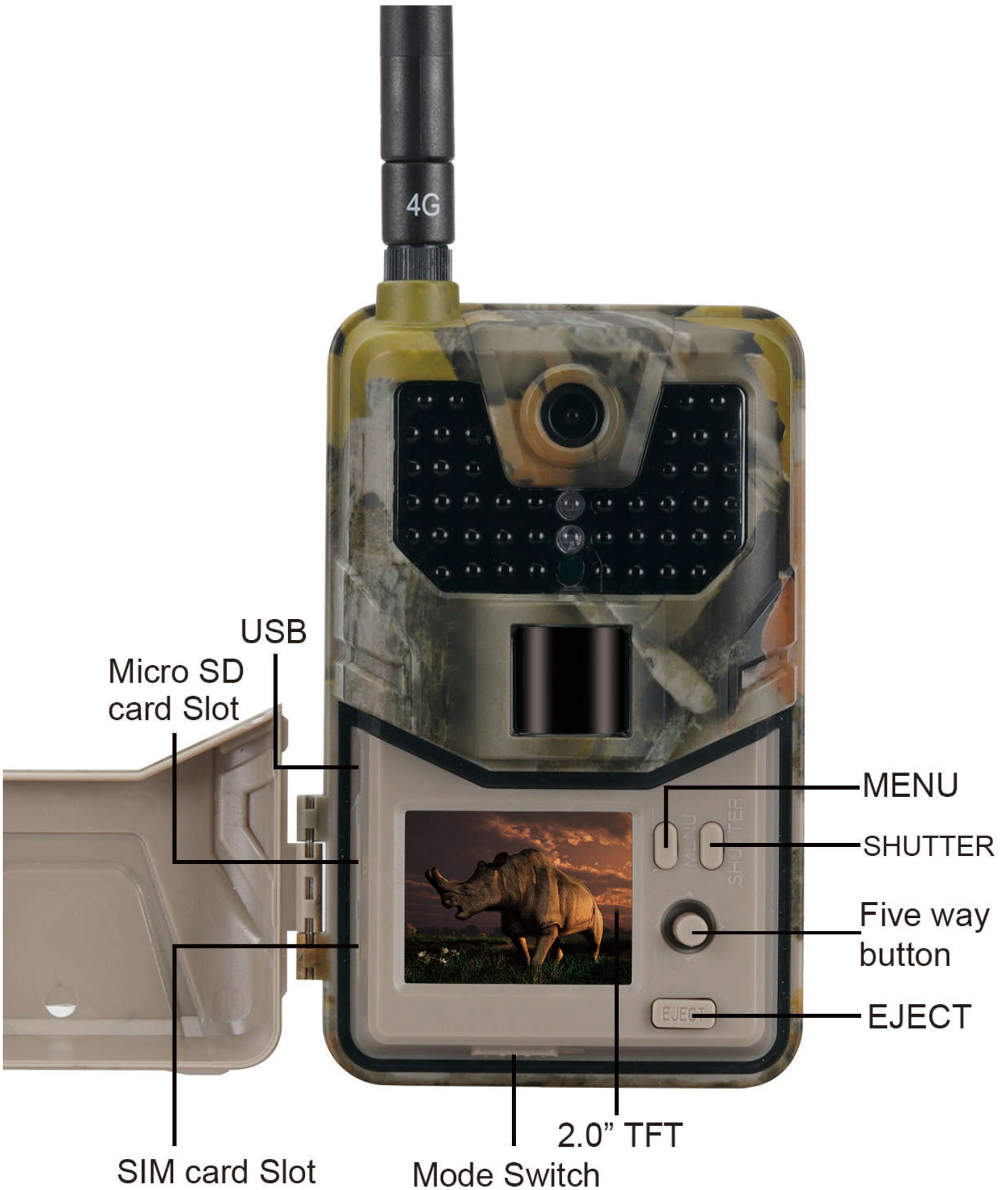LED
Indicator

PIR
Sensor

USB

Micro SD
card Slot
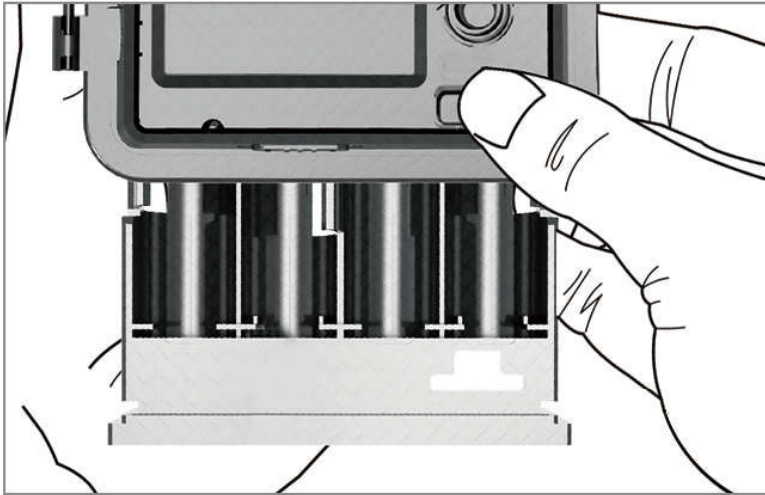
MENU

SHUTTER

Five way
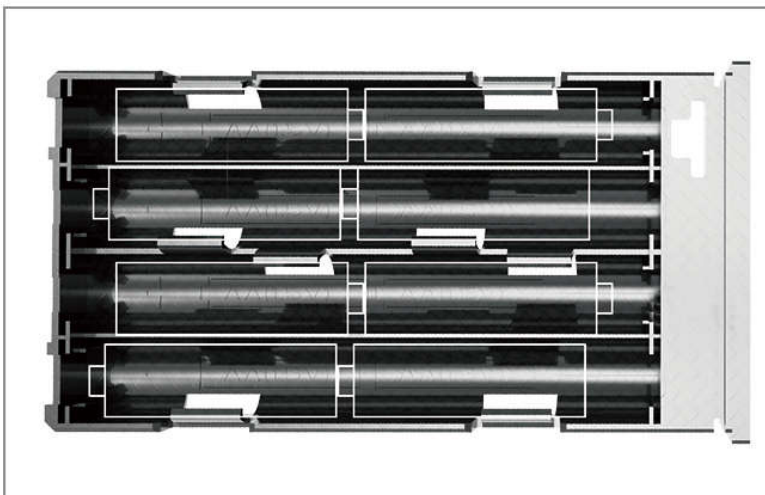button

EJECT

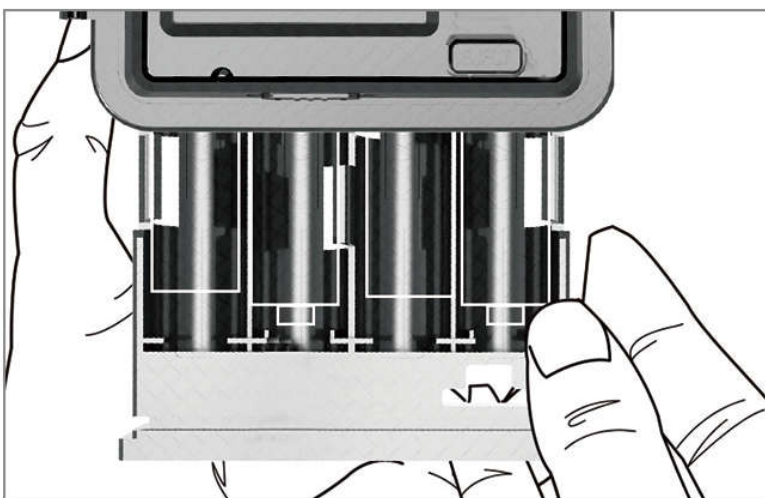SIM card Slot

Mode Switch

2.0" TFT

INSTALLING BATTERIES

IF USING AA - ALKALINE BATTERIES

1.Press EJECT , the battery box will pop out

2. Insert the AA batteries accordingly as indicated by the positive and negative battery icons

3. Slide the battery compartment back into the camera housing until it is completely engaged in the slot in the bottom of the housing
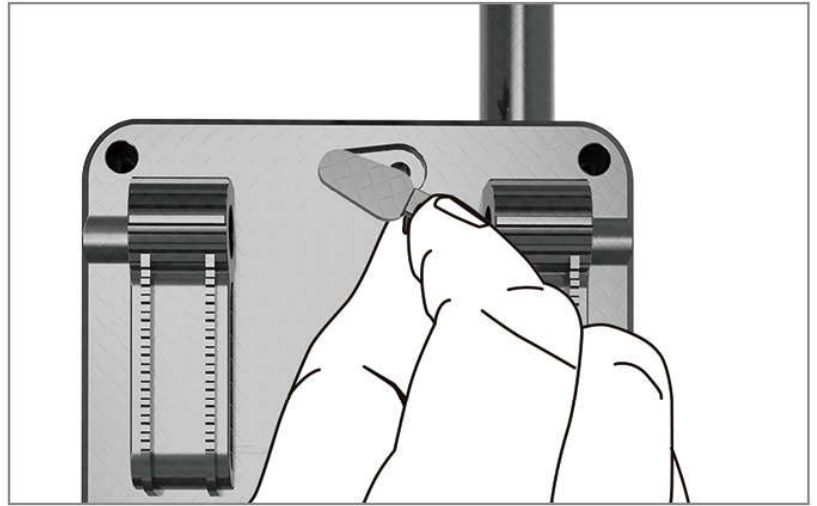
NOTE: Installing any of the 8-AA batteries in the wrong direction may cause the batteries to leak acid and could possibly explode, causing camera failure and damage to the battery compartment.
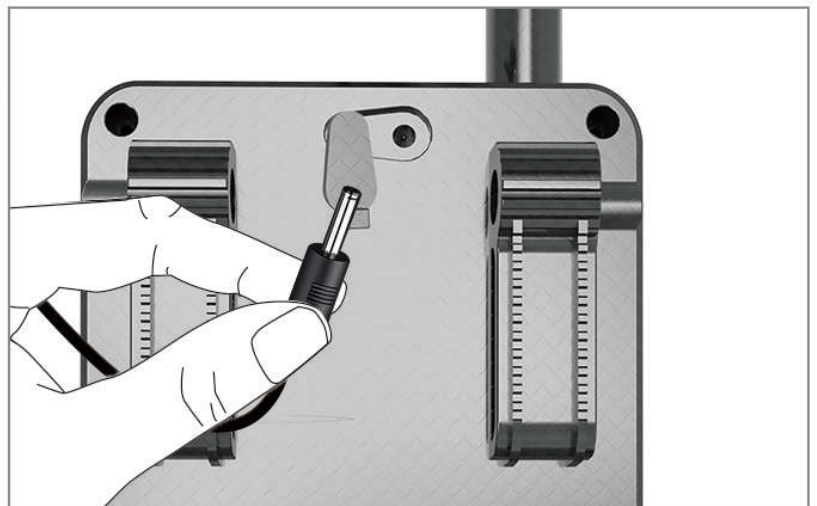
BATTERIES CONT......

IF USING 12V DC POWER SOURCE

1. Remove the rubber port cap at the bottom of the camera .

2. Using a universal 12V DC cord, plug in to the bottom port option.

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.
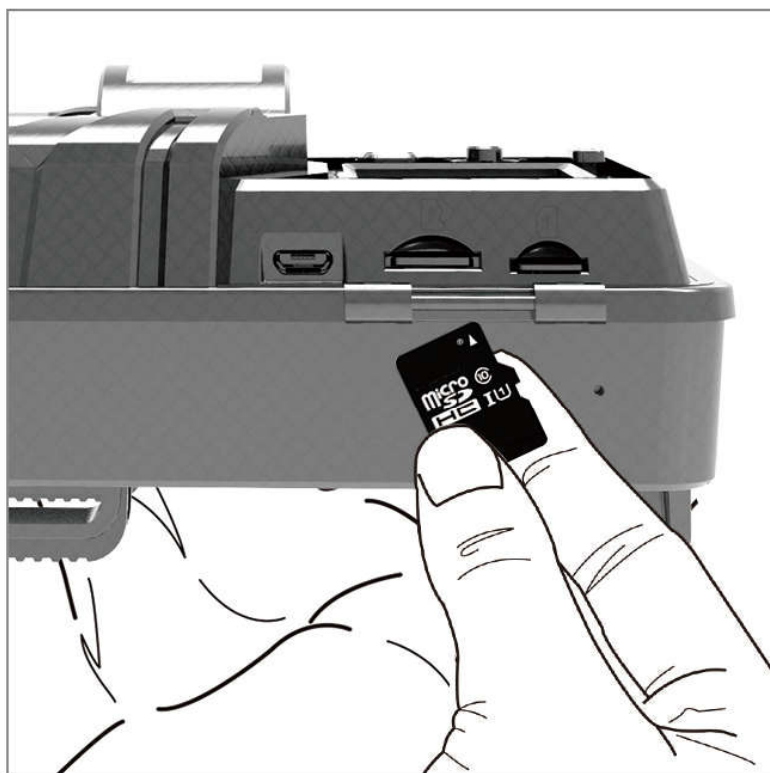
MEMORY CARD INSTALL

INSTALL MICRO-SD CARD

1. Insert the Micro SD card (Max 64 GB) 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.
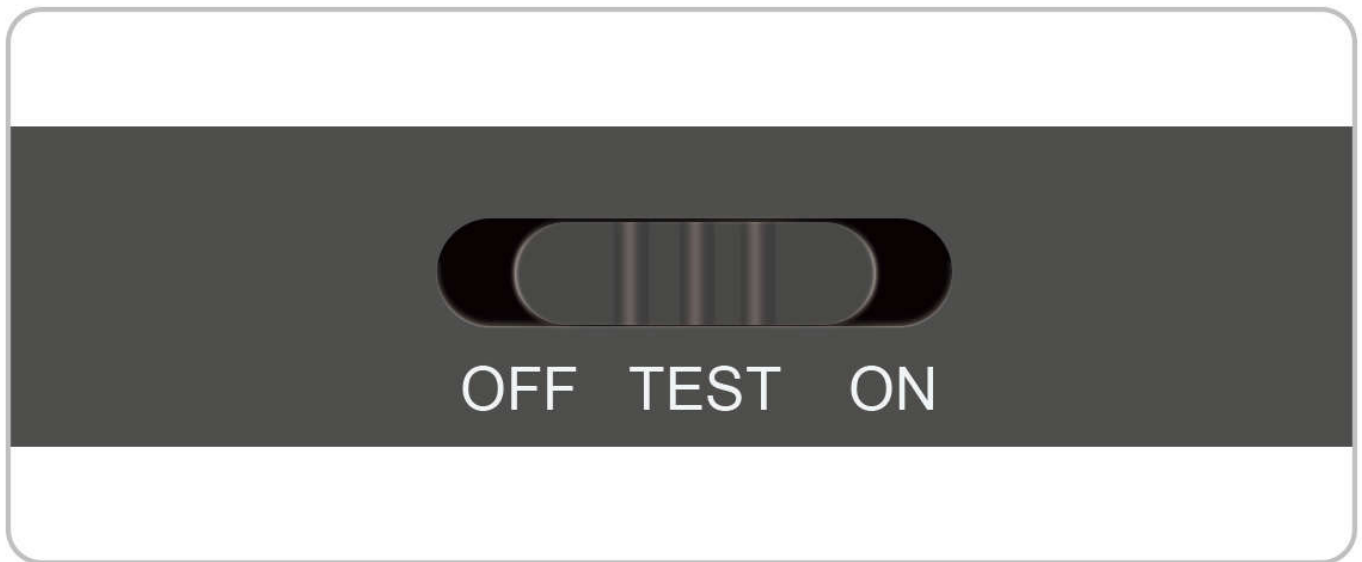

2. To remove Micro SD card, press the card inwards to release.

Caution: we recommend class6 & above high speed memory card,cheap memory card may damage the pictures and videos
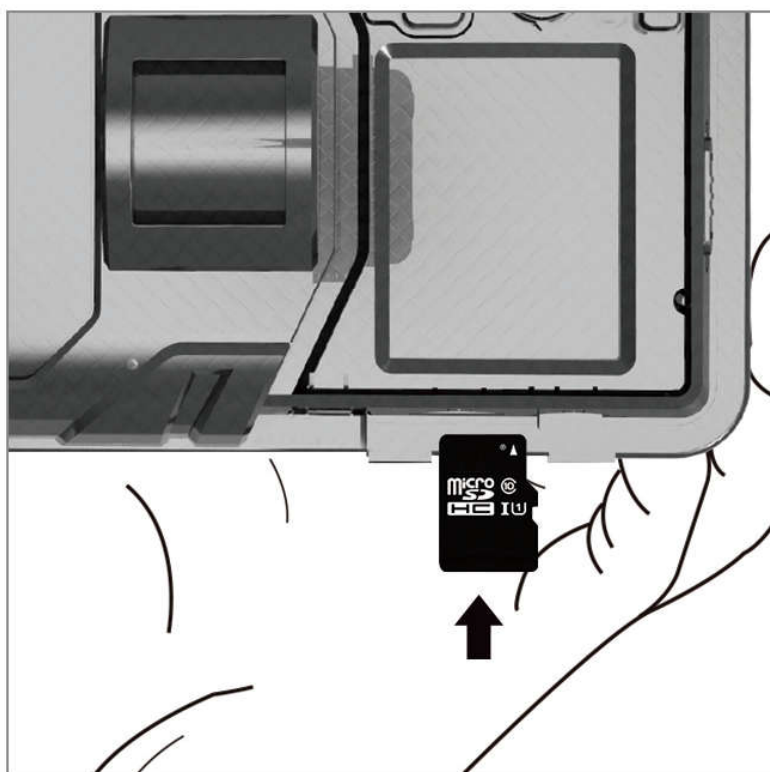
Power on

Slide Power Switch from OFF to TEST,camera screen power on (don't slide it from OFF to ON directly)

OFF　TEST　ON

CONTROL PANEL

Under TEST Mode

- Press **MENU** to launch the system menu or exit.
- Press **SHUTTER** to manually trigger the shutter. A photo or video (depending on the mode) will be taken and saved to the memory card.
- The Rockerhas 5 functions: **LEFT**, **RIGHT**, **UP**, **DOWN** and **OK**
- Press **RIGHT** to review photo or video, **UP / DOWN** to browse the pictures and videosand

- Press **LEFT** to start and stop Video,Press **SHUTTER** to exit.
- Press **LEFT** directly to get the IMEI (in the TEST mode).

ON

In this mode, the screen power off and remoter is useless. The camera works automatically. Will capture and send picture out if detected any motions by PIR.

Screen Information Display

Carrier
Signal
Mode
Battery level
storage space
Pixel
ISO
Micro SD card
Date
Time
Temperature
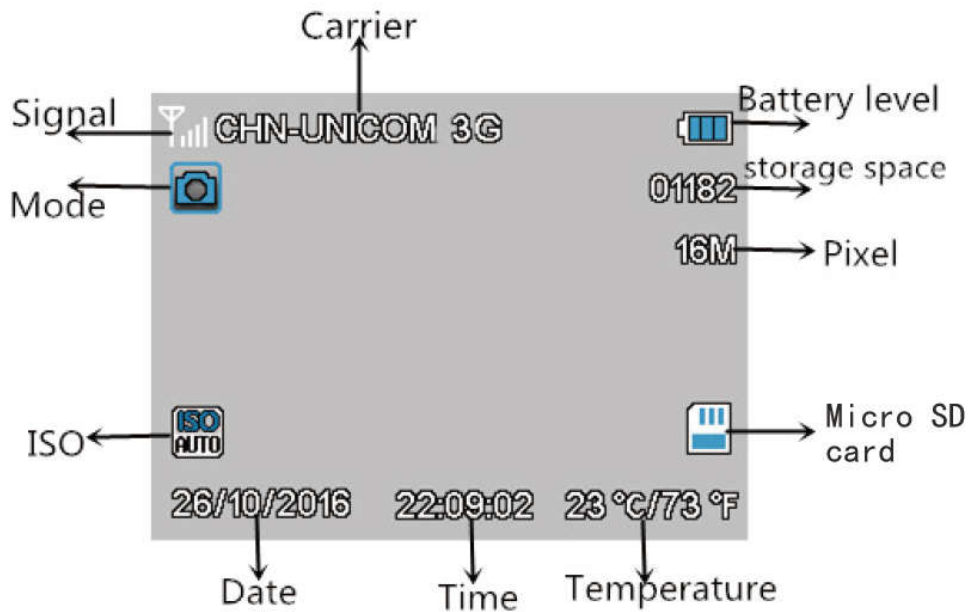
Note: To active its MMS or SMTP function, the camera should find signal and SIM card firstly.

In the Test mode, you can test the working area of PIR (Passive Infrared) sensor, specifically the sensing angle and distance. To perform the test:

- First position the camera at properly height and aim at the region of interest (ROI).

- Walk slowly from one side of the ROI to the other side parallel to the camera. Try different distances and angles from the camera.

- If the Motion Indicator flashes RED, it means that the position you located is detected by PIR sensors.

- 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.

Camera Menu setting

Camera	**Resolution**	20MP, 16MP, 12MP	Max 20 Megapixels image
	Sequence	1/3/6/9	Max 9 images each shot
	ISO	Auto,100,200,400	Default is auto
	Delay	1/5/10/30 sec/min	Waiting time from the last taking
	Camera ID	0-0-0 0-0-0	You can rename your camera by 26 English letters(A~Z) or numbers (0~9)

Video Menu setting

Video	**Resolution**	1080P,720P,WVGA, VGA	Video resolution	
	Video Length	5S,10S,30S 60S,90S	Max 90 seconds video (default 5 seconds)	
	Record Audio	On,Off	Record the audio when camera take videos (default ON)	

Setup Menu

Setup			
	Mode	Camera,video,camera &video,Timelaspe	4 shooting modes
	Language	English, Francais, Deutsch and so on	12 languages
	Timelapse interval	5min/30min/1h	Taking picture or video every 5min/30min/1h constantly
	TV Mode	NTSC,PAL	TV play mode
	Motion detection	High/Medium/Low	Change PIR sensitive to Hight,Medium or Low
	Data/Time	2019-02-03 16:37:25	Setup the camera date and time
	Timer	000 to 23 59 59	Camera work in a selected time. for example, 8AM~6PM (default off)
	Password	****	4 digital numbers (default off)
	Format	SD Card	All files of memory card will be deleted
	Default Setting	Cancel/OK	Reset camera to default setting
	Version	03/02/2019 16:37:25	Firmware version

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MMS Menu

MMS

☑ MMS ON/OFF		
☑ Image Size		
☑ Operator		
☑ MMS Phone		

MENU ↺   〈∧∨〉   1/1
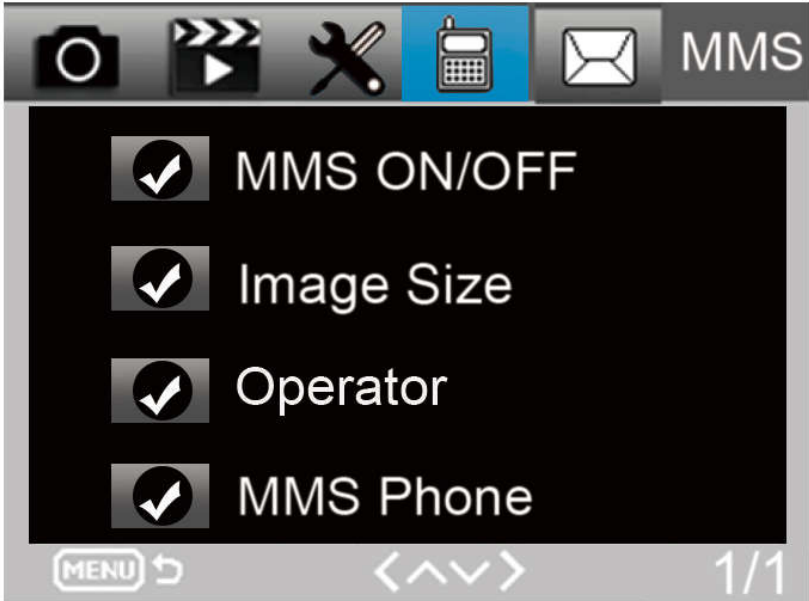
MMS	MMS ON/OFF	Off/On	MMS Off/On
	Image Size	Small/Normal/Big (Very important)	Size for transmitting picture Small<100KB Normal<150KB Big<200KB
	Operator	Set in MMSCONFIG	The sim card of local operator
	MMS Phone	Set in MMSCONFIG	Mobile phone number to receive mms
	MMS E-mail	Set in MMSCONFIG	Email account to receive mms

SMTP Menu

SMTP	SMTP ON/OFF	Off/On	SMTP Off/On
	FTP ON/OFF	Off/On	FTP Off/On
	Image Size	Small/Normal/Big (Very important)	Size for transmitting picture Small<150KB Normal<200KB Big<full size pics
	Operator	Set in MMSCONFIG	The sim card of local operator
	SMTP E-mail	Set in MMSCONFIG	Email account to reveive pictures

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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)**

➡ **Fix MMS Setting**

MMS Auto Mode

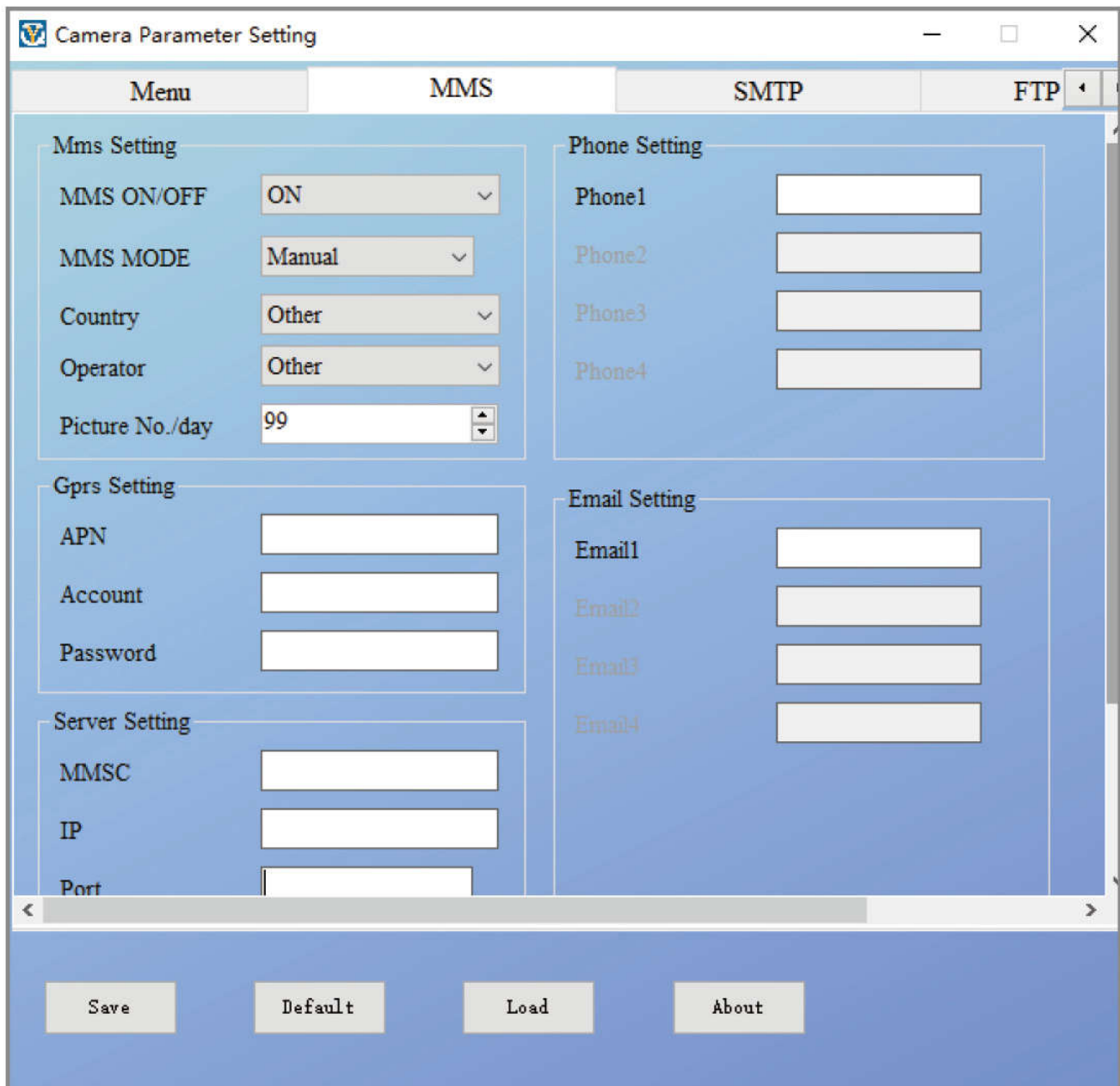In MMS Auto mode, there is configured information for selection

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

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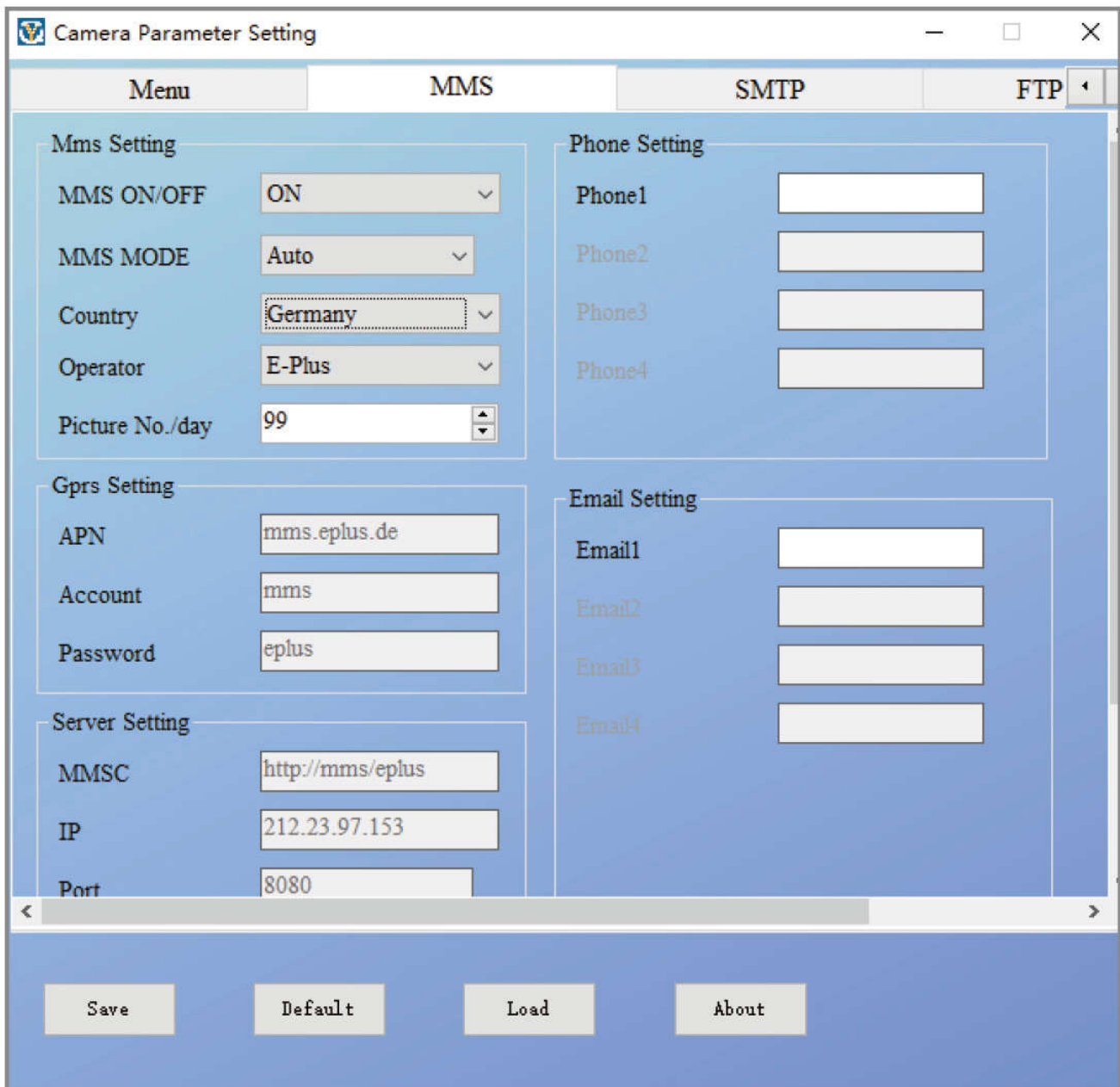
MMS Manual Mode：:

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.

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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.
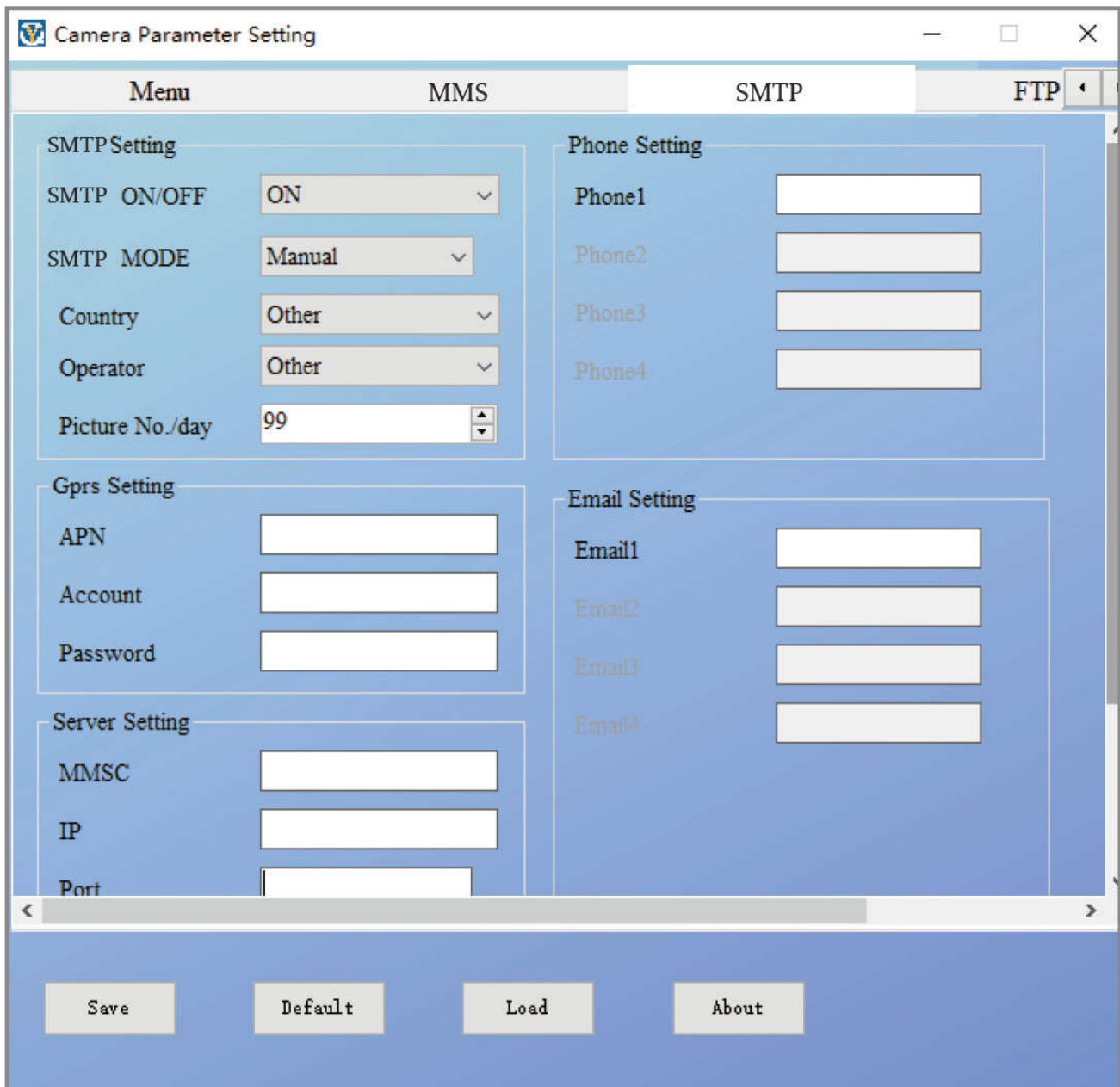
SMTP Auto Mode

In SMTP auto 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

SMTP Manual 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

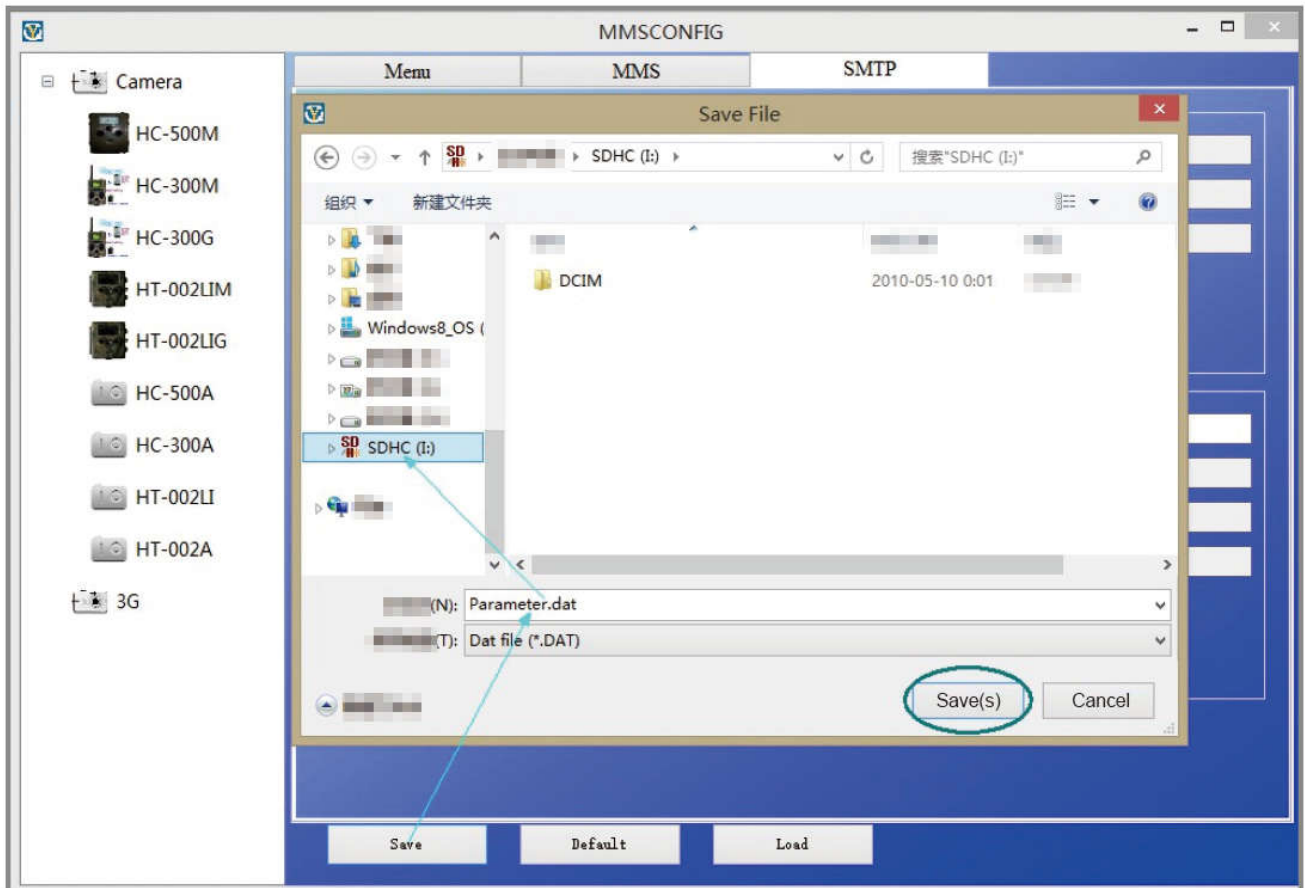c. Add receiving email address on the right
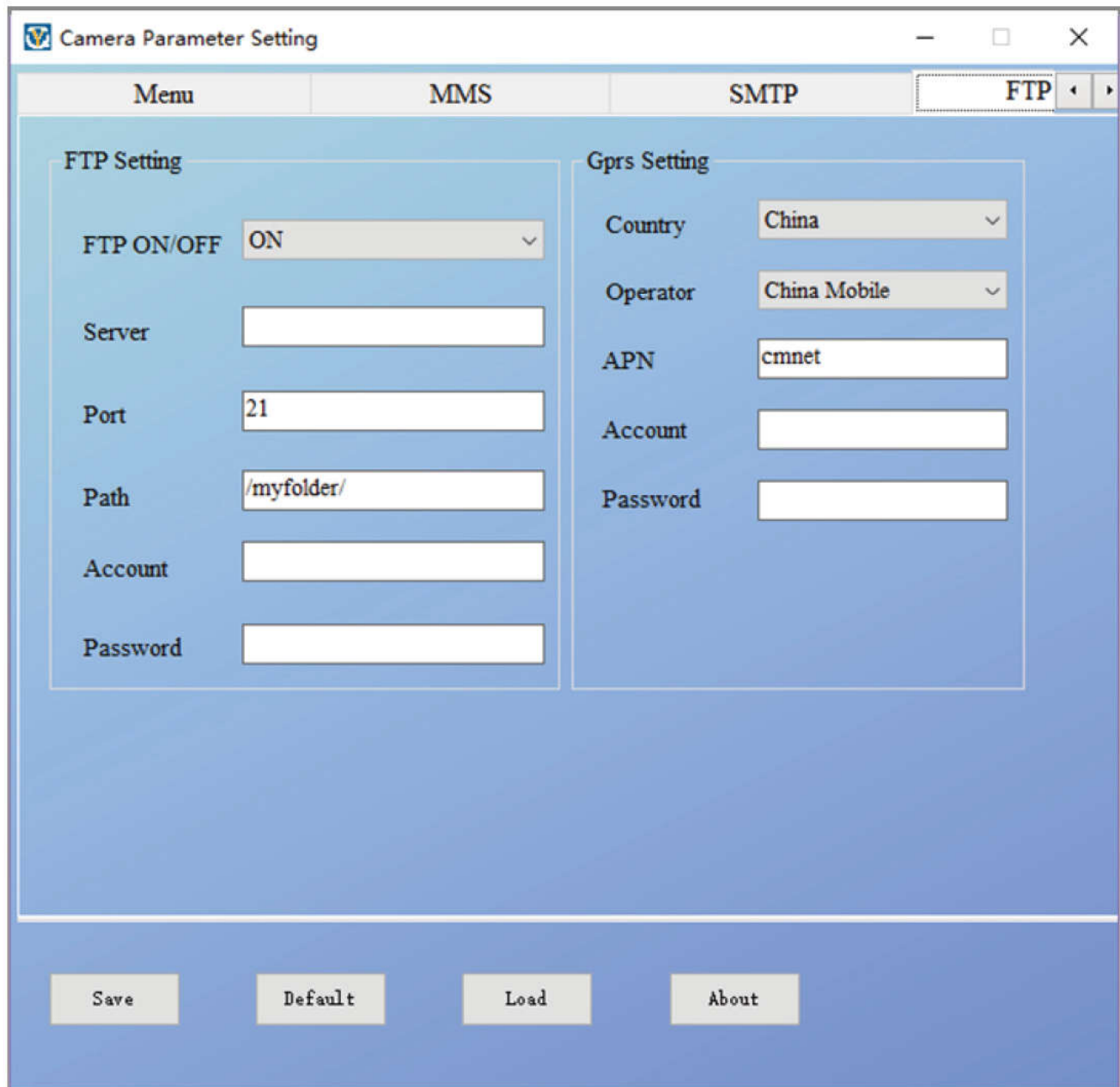
FTP:

Please fill in your FTP address, port, account and password, the original video or pictures will be upload to your server automatically.

Note: The GRRS data setting of FTP will Synchronize with SMTP data.

Save the file "Parameter. dat" to Micro SD card

SMS COMMAND CODE

This Camera supports SMS remote control by sending SMS code as 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

- 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