

GPRS/MMS/SMS Digital
Infrared Trail Camera
User's Manual
HSM-3004

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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 8M 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-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) MicroSD-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.

Press LEFT or RIGHT to select menu table, press UP or DOWN to select the sub-menu then press OK to finish

Press the punctuation “*” for laser pointer.

- Select Item (UP)
- Select Item (DOWN)
- Select Option (Left)
- Select Option (RIGHT)
- Selection (OK)
- Display Menu Exit (MENU)

1.5 Shooting Information Display

When power switch is turn to TEST position, the shooting information will be displayed in the monitor.

1.6 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, 4 or 8 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 4

Slot 2

Slot 3

Slot 1

2.2 Insert the MICROSD-card and the SIM-card

Insert MICROSD-card and SIM 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 settings, manually capture, preview.

2.3.1 User Settings

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. These 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 switching on the camera, the red light will blink for about 10s. The 10s is a buffering time before automatic capturing, e.g. for closing and locking the bottom cover, fixing the camera on a tree and walking away.

2.5 Power Off

Slide the power switch to OFF position to turn off the camera.

Therefore, please remove the battery if the camera will not be used for a long time.

3. Advanced Operations

This chapter explains that user settings 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

3.1.2 Video Setting

3.1.3 System Setting

3.1.4 MMS Menu Setting

3.1.5 SMTP Menu Setting

This camera can send pictures instantly to user's mobile via MMS method. 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+ MICROSD 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(4 or 8 AA Batteries, or 6V input power supply)
7. MMSCONFIG Program in CD
8. Users need to 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 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 "Operator" 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 in , Go to table, select
3. Insert and
4. Fill in and or
5. Go to ,choose
6. Click button and save as Parameter.dat to MICROSD 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 subsetting is the same with above setting
9. Turn camera to on mode

3.3 SMS Command Code

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

500 take picture

(Can work in both mms and smtp mode)

sim in camera will send Capture when receive *500* command

505 take picture and send to the mobile who sends sms

sim in camera will send Start capturing... and still send picture to mms Mobile or smtp email when got* 505* Command, no matter MMS or smtp mode.

But sim will send mms to the mobile who sends sms when camera only in mms mode

520 check the picture quantity and battery status

(Can work in both mms and smtp mode)

sim will send Total Jpg: Free Space: Battery Level: when receive *520* command

530 turn on camera

(Can work in both mms and smtp mode)

sim will send Start OK when receive *530* command

531 turn camera to sleeping mode

(Can work in both mms and smtp mode)

Sim will send Stop OK when receive *531* command

4. Cautions

The working voltage of the camera is 6.0V.

Please unlock and format the MicroSD card.

Please insert the MicroSD-card when the power switch is at OFF position.

Please do not insert or take out the MicroSD-card when the power switch is at ON position.

Please ensure full power when having firmware upgrade, otherwise the upgrade process could be stopped.

As communications networks may vary we can't guarantee 100% MMS and GPRS can work fine

Appendix I : Technical Specifications

Image Sensor Type (True Megapixels)	3 Mega Pixels Color CMOS
Memory	MicroSD Card 8MB~32GB
Lens	F=3; FOV=120 °
Size	145mm * 80mm * 55 mm
IR Filter:	Full Automatic IR Filter
TFT Display Screen:	2.0 inch
PIR Sight Angle	120 Degrees
PIR Sensing Distance	65ft/20m
Number of IR LED	48 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:	8MP/5MP/3MP
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 Security	4 Digits set by yourself
Default camera password	1314
Default camera ID	CAM000
Periodic shot	1Second~24Hours
Stand-by current	2mA
Stand-by time	3 Months (8 AA Battery)
Interface	TV out (NTSC/PAL); USB; MicroSD Card Holder; 6V DC External, SIM card Slot
Fix Method	Belt, Tripod Nail
Operation Temperature	-30 ~+70°C/-22~+158°F
Power Supply	8×AA or 4×AA battery
Camera Socket	Yes
Water proof	IP54
Menu Langugae	English, French, Germany, Spanish , Russian, Danish, Dutch, Poland, Portuguese, Swedish, Italian, Finnish
Security authentication	FCC, CE, RoHS, REACH, R&TTE, Health SAR

Appendix II : Parts List

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

Electric and electronic equipment and included batteries contains materials, components and substances that can be hazardous to your health and the environment, if the waste material (discarded electric and electronic equipment and batteries) is not handled correctly.

Electric and electronic equipment and batteries is marked with the crossed out trash can symbol, seen below. This symbol signifies that electric and electronic equipment and batteries should not be disposed of with other household waste, but should be disposed of separately.

As the end user it is important that you submit your used batteries to the appropriate and designated facility. In this manner you make sure that the batteries are recycled in accordance with legislature and will not harm the environment.

All cities have established collection points, where electric and electronic equipment and batteries can either be submitted free of charge at recycling stations and other collection sites, or be collected from the households. Additional information is available at the technical department of your city.

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Stavneagervej 22

DK-8250 Egaa

Denmark

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Hereby, Inter Sales A/S, declares that this model DENVER HSM-3004 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the Declaration of Conformity may be obtained at

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Stavneagervej 22

DK-8250 Egaa

Denmark