1. Name and Parts

1. Microphone*
2. Mode Button
3. °C/°F Switch & Set button
4. PIR Sensor
5. Max/Min Switch & Up button
6. Down Button
7. Lens

* No microphones are available for USA market.

* Warranty will be void if serial number sticker is tampered.

8. Power Switch
9. Format Button
10. Memory Card Slot
11. USB Port
12. Rec/Photo Switch
13. Continuous / PIR Recording Switch
14. Overwrite Switch
15. Blue Power LED
16. Red Rec/Photo LED
    Bright Green
    Overwrite LED
17. Green Charge LED
18. Buzzer
19. Reset Key

1

2. Package Content

Table Stand
Memory Card
User Manual
Wall Stand
USB Cable

3. Charging the Battery

1. Connect the device to an USB power source via USB cable.
2. When the battery is fully charged, the green LED will turn off.

● Blinking blue LED ▭ - low battery
● Solid Green LED ▭ - charging

4. Format Memory Card

1. Insert the memory card to ⑩ .
2. Press and hold the ⑨ ,and power on the device. Red LED will flash when the memory card is being formatted and it will turn off when the memory card format is completed.

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5. Installation

A. Table Stand
1. Attach the device onto the magnetic table stand. Device will then be fixed on it.

(A)

B. Wall Stand
1. Attach the magnatic round wall stand to the backside of the device.
2. Peel off the adhesive protector on the backside of the stand and then stick it to the wall.

(B)

6. LED Indicator

● Solid blue LED ▭ - power on
● Solid red LED ▭ - recording on
● Red LED blinks once - taking photo
● Solid Light Green LED ▭ - overwrite on
● Solid Green LED ▭ - charging

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7. DVR Operation and Setting

Recording Operation :
1. Continuous Recording: First slide ⑫ to **Rec.** Second, slide ⑬ to **Cont.** Next, power on the device by sliding ⑧ to **On.**
2. PIR Activated Recording: First slide ⑫ to **Rec.** Second, slide ⑬ to **PIR.** Next, power on the device by sliding ⑧ to **On.** Whenever the PIR sensor is triggered, DVR will start to record after 3 secs. The length of video varies from 5 secs to 2 mins depending on the movement detection.

Photo Taking : Slide ⑫ to **Photo,** and then slide ⑬ to **PIR.** Next, power on the device by sliding ⑧ to **On.** Device takes 3 photos whenever the PIR sensor is triggered.
Note: When the device is set to **Cont.** , it will be recording continuously no matter you choose **Rec** or **Photo**.
Overwrite Function : Slide ⑭ to **Overwrite,** and then power on the device.

Reset : Press ⑲ once. The device will reset.

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8. Date&Time Setting (For Windows System)

1. From the de sktop right-click to open Notepad, create a text file named **settime.txt**
2. On the first line of the file, enter date and time informaiton as year.month.day hours.minutes.seconds For example, suppose the time is March 14, 2017 15:00. Then, please enter 2017.03.14 15:00:00
   Note: There should be a space left between day and hours, and the time format should be the 24-hour format.
3. Save the file to the root directory of the memory card.
4. Insert the memory card into the device and power it on. The date and time setting is now completed.
   Note : When the date and time setting is completed. The **settime.txt** file will not be visible when you connect the device to the computer again.

9. Download Videos & Photos

1. Video and photo files are stored in the memory card.
2. There are two ways to download video/photo files.
3. Using the memory card reader to download video/photo files.
4. With the device powered on and memory card inserted, connect the device to PC by USB connection. It will be recognized by PC as an external drive for user to download the video recordings and photo files.

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10. Display Setting

a. Alarm
1. Press Mode button① to select the alarm displsy on LCD.
2. Long press Set button② to access the alarm setting.
3. Press Up/Down button③④ to set the hour and minute.
4. Press Mode button① to retreat from the time setting.
5. Back to displsy mode press Up button③ to switch on the alarm setting.

b. Date
1. Press Mode button ① to select the year display on LCD.
2. Long press Set button ② to access the date setting.
3. Press Up/Down button③④to set up year.
4. Press Set button ② again into moth and date selection.
5. Press Up/Down button③④ to set up month and date.
6. Press Mode button① to retreat from the date setting.

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c. Time
1. Long press set button②to access the time setting
2. Select 24-hour or 12-hour clock by pressing Up and Down③④
3. Press set to modify the time,using up and Up and Down③④ to change the time.
4. Press Mode button① to retreat from time setting

d. Temperature and humidity
1. Every 20 seconds the system detects automatically the temperature and humidity.
2. Temperature detecting from -49°C~69°C(-56°F~156°F).
3. In normal mode press °C/°F button ② to switch to Centigrade or Fahrenheit.
4. The humidity detecting from 20%~89%.
5. If the system can not detect the temperature and humidity LCD will disply "_ _°C" and "_ _%".

e. Max/Min
1. The system memorizes the recent maximum and minimum temperature and humidity.
2. In normal mode press once MAX/MIN button ③to disply the maximum temperature and humidity.
3. In normal mode press twice MAX/MIN button③ to disply the minimum temperature and humidity.
4. In normal mode press three times MAX/MIN button ③ to disply the current temperature and humidity.
5. In normal mode long press MAX/MIN button③for two seconds to eliminate the MAX/MIN data and the system will rememorize the newest temperature and humidity.

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PIR Sensor Illustration

1.Detection Range

TOP VIEW

X

2.5
8.202
1.25
4.101
2.5
8.202
19°
16.404ft
0°
1.25
4.101
2.5
8.202
19°
2m
5.562ft
5m
16.404ft

SIDE VIEW

Y

2.5
8.202
1.25
4.101
2.5
8.202
2.5
8.202
11°
16.404ft
0°
1.25
4.101
11°
2.5
8.202
2m
5.562ft
5m
16.404ft

2.Detection Concerns
They may fail to detect successfully if a heat source other than a human being is detected or if there are no temperature changes in or movement of a heat source. Care must generally be taken in the following cases. The performance and reliability of the sensors must be checked out under conditions of actual use.

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<1>Cases where a heat source other than a human being is detected
   (1) When a small animal enters the detection range.
   (2) When the sensor is directly exposed to sunlight, a vehicle's headlights, an incandescent light or some other source or far infrared rays.
   (3) When the temperature inside the detection range has changed suddenly due to the entry of cold or warm air from an air-conditioning or heating unit, water vapor from a humidifier, etc.

<2>Cases where it is difficult to detect the heat source.
   (1) When an object made of glass acrylic or other subject which far infrared rays have difficult passing through is located between the sensor and what is to be detected.
   (2) When the heat source inside the detection range hardly moves or when is moves at high speed.

3.Installation Suggestion

Definition:
O - the height of object
H - the height of sensor from the ground
D - the distance between object and sensor

Formula:
H - O / 2
D - O x 2

180CM **O**
90CM
H
3, 6M **D**

For example: To film a man at 180cm height in the video, the sensor should be placed at 90cm height above the ground and the man is 3.6m away from the sensor.

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Specification

Built-in Camera Module	
Built-in image sensor	1/3" progressive CMOS sensor
Sensor resolution	2304x1536
Sensor sensitivity	3.3 Lux @ F 2.0
Lens F/No.	F 3.2
Focal Length	4mm
Angle of View	66°
Video Spec.	
Algorithm	H.264, JPEG
File Format	MOV, JPG
Video recording mode	Manual&Auto
Recording Capability	1920x1080
Frame rate	Up to 30 fps
Photo Capability	5M(2592*1944)
Storage & I/O	
Memory type	Micro SD Card (Support SDHC max.32GB/SDXC max.64GB)
Data interface	Mini USB 2.0
Misc.	
Date/Time Table	YYYY/MM/DD, HH:MM:SS
Power	
Power Input	DC 5V
Power Consuption	250mA-390mA
Standby Consuption	About 5.2mA
Standby time	9days
Battery Input	DC 3.7V / 1350mA polymers battery (XK384085)
Battery Lifetime	180min
Recording time	160min @ 1920x1080resoultion (16GB SD card)
Physical	
Dimension	10x10x1.5 mm
Weight	133g

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PV-TM10FHD
Thermometer & Clock
1080P Covert DVR
Quick Guide

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V1.0