

### 1. Name and Parts

- Microphone\*
- Mode Button
- °C/°F Switch & Set button
- PIR Sensor
- Max/Min Switch & Up button
- Down Button
- Lens

\* No microphones are available for USA market.  
\* Warranty will be void if serial number sticker is tampered.

- Power Switch
- Format Button
- Memory Card Slot
- USB Port
- Rec/Photo Switch
- Continuous / PIR Recording Switch
- Overwrite Switch
- Blue Power LED
- Red Rec/Photo LED
- Bright Green Overwrite LED
- Green Charge LED
- Buzzer
- Reset Key

\* This product is for Law Enforcement and Home Security Use Only!

### 2. Package Content

### 3. Charging the Battery

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

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

### 4. Format Memory Card

- Insert the memory card to ⑩.
- 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.

### 5. Installation

#### A. Table Stand

- Attach the device onto the magnetic table stand. Device will then be fixed on it.

#### B. Wall Stand

- Attach the magnetic round wall stand to the backside of the device.
- Peel off the adhesive protector on the backside of the stand and then stick it to the wall.

### 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

※ Both camera and memory card need to be inserted to DVR to turn the system on.

### 7. DVR Operation and Setting

#### Recording Operation :

- Continuous Recording: First slide ⑫ to **Rec.** Second, slide ⑬ to **Cont.** Next, power on the device by sliding ⑧ to **On.**
- 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 ⑰ once. The device will reset.

### 8. Date&Time Setting (For Windows System)

- From the desktop right-click to open Notepad, create a text file named **settime.txt**
- On the first line of the file, enter date and time information 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.
- Save the file to the root directory of the memory card.
- 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

- Video and photo files are stored in the memory card.
- There are two ways to download video/photo files.
- Using the memory card reader to download video/photo files.
- 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.

### 10. Display Setting

#### a. Alarm

- Press Mode button ① to select the alarm display on LCD.
- Long press Set button ② to access the alarm setting.
- Press Up/Down button ③④ to set the hour and minute.
- Press Mode button ① to retreat from the time setting.
- Back to display mode press Up button ③ to switch on the alarm setting.

#### b. Date

- Press Mode button ① to select the year display on LCD.
- Long press Set button ② to access the date setting.
- Press Up/Down button ③④ to set up year.
- Press Set button ② again into month and date selection.
- Press Up/Down button ③④ to set up month and date.
- Press Mode button ① to retreat from the date setting.

### c. Time

- Long press set button ② to access the time setting.
- Select 24-hour or 12-hour clock by pressing Up and Down ③④.
- Press set to modify the time, using Up and Down ③④ to change the time.
- Press Mode button ① to retreat from time setting.

### d. Temperature and humidity

- Every 20 seconds the system detects automatically the temperature and humidity.
- Temperature detecting from -49°C~-69°C(-56°F~156°F).
- In normal mode press °C/°F button ② to switch to Centigrade or Fahrenheit.
- Humidity detecting from 20%~89%.
- If the system can not detect the temperature and humidity LCD will display “\_ \_ °C” and “\_ \_ %”.

### e. Max/Min

- The system memorizes the recent maximum and minimum temperature and humidity.
- In normal mode press once MAX/MIN button ③ to display the maximum temperature and humidity.
- In normal mode press twice MAX/MIN button ③ to display the minimum temperature and humidity.
- In normal mode press three times MAX/MIN button ③ to display the current temperature and humidity.
- In normal mode long press MAX/MIN button ③ for two seconds to eliminate the MAX/MIN data and the system will rememorize the newest temperature and humidity.

### PIR Sensor Illustration

#### 1. Detection Range

#### 2. Detection Concerns

The detection may fail if a heat source is not from a human being, or the temperature of the target remains the same, or there is no movement of 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.

<1>Cases where a heat source other than a human being is detected

- When a small animal enters the detection range.
- When the sensor is directly exposed to sunlight, a vehicle's headlights, an incandescent light or some other source of far infrared rays.
- 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.

- When an object made of glass acrylic or other subject which far infrared rays have difficult passing through is located between the sensor and the target.
- When the heat source inside the detection range hardly moves or when it 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

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.

### 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, MPEG
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	Memory 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 Consumption	250mA-390mA
Standby Consumption	About 5.2mA
Standby time	9days
Battery Input	DC 3.7V / 1350mA polymers battery (XK384085)
Battery Lifetime	180min
Recording time	160min @ 1920x1080resolution ( 16GB memory card )
Physical	
Dimension	10x10x1.5 mm
Weight	133g

## PV-TM10FHD

### Thermometer & Clock 1080P Covert DVR Quick Guide

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