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Precaution
Pls be well look through the following guidelines before you use this DVR.
  • Pls refer to manual instruction to operate the camera correctly. Illegal operation may cause damage to internal components.
  • Do not fall or hit the DVR, it may damage the internal components.
  • Do not alter or dismantle the DVR, to avoid the damage to the DVR.
  • The temperature rise is normal when DVR in use for a long time.
  • Do not touch the lens when recording which will affect the video quality.

DVR Special Features:
Inversion Mode
If need to invert dvr while using,you can set "inversion mode" in the menu to On, then the machine can rotate 180 degrees, but characters and images on the screen can be normal as a positive direction.

WIFI Function
It will be more convenient to operate the machine at a distance of 30 meters using a mobile phone via the WiFi connection.

High Speed Recording
The DVR has 720P 120fps and VGA 240fps video resolution.

Slow Motion
The video will be played in twice as slow as the video frame (60fps video) or 4 times (120fps video).

Time Lapse
The DVR will take pictures at a certain rate then make a video consisted by the pictures.

Capture Mode
Under recording press Mode button to take a picture.

2.4G wireless remote control
Waterproof wrist remote controller

Product Accessories
Accessory 1       Accessory 2       Accessory 3
USB Cable         AC Charger        Accessory 4
Accessory 8       Accessory 5       Accessory 6
Waterproof Case   Wrist Remote Controller   3M Pads
User Manual       Accessory 7       Battery
1. WiFi indicator
2. Mode button
3. Up button
4. Down button
5. HDMI port
6. USB port
7. Power button
8. Speaker
9. TF card slot
10. 1/4” screw hole
11. Working indicator
12. Charging indicator

Button function
Power button: short press to turn on the DVR, long press to turn off the DVR; Under standby mode short press to start/stop the recording; Under Picture mode short press to take a picture; Under playback mode short press to start/pause the playback; Confirm the menu setting; Confirm the time setting.

Up button: Under standby mode to zoom in; long press to enter/exit the menu; In the Menu setting or Playback mode choose the last option or file; Increase the digit in the time setting.

Up button: Under standby mode to zoom out; In the Menu setting or Playback mode Choose the next option or file; Decrease the digit in the time setting.

Mode button: Under standby mode short press to switch Video/Picture/Playback Mode; Long press to enter WiFi setting; During recording short press to capture; In time setting to switch Year/Month/Date/Time.

DVR Operation
Power on/off
Power on: Short press Power button, the LCD screen shows the startup picture, the blue working indicators will light up, DVR enters standby mode.

Power off: When camera is on, long press Power button, the LCD screen shows the shutdown picture, the blue working indicators will be off, DVR powers off.
Battery Charging
Connect DVR with power charger via USB cable, the red light will light up. Once the battery is full, the red light will be off. If you want to charge faster, turn off the machine when charging.

Video mode
Video interface:
1. Record icon
2. Exposure Compensation
3. White Balance
4. Frame rate
5. Video resolution
6. Microphone
7. Remaining time of the memory card
8. Battery icon
9. Year/Month/Day/Time

Normal recording
Set the "seamless" to off in the video mode menu. Press Power button, DVR starts recording till the card is full. Press Power button again to stop recording.

Loop recording (refer to menu setting)
Under standby mode, press Power button to start recording, the blue indicator will flash. When the video recorded up to the time you set (say 1 minute, 3 minutes or 5 minutes), DVR will save the footage automatically and continue recording. When TF card is full, DVR will overwrite the first footage by time sequence and continue recording. Press Power button again to stop recording, the remaining recording time is on the LCD screen.

Picture Mode
Picture interface:
10. Picture icon
11. Exposure Compensation
12. White balance
13. Picture size
14. Remain photos
15. Battery icon
16. Year/Month/Day/Time

The DVR default setting is Video mode. Under standby mode, press Mode button to enter picture mode, aim at the object you want to shoot and press Power button, DVR will save the picture automatically.

Playback Mode
1. Playback icon
2. File number / total number of files
3. Select the file you want to play
4. File Preview
5. File length
6. Date stamp

In standby mode, press the Mode button to switch to Playback mode, press the UP/Down button to select the video/picture you need, press the power button to Preview/playback. Press the Power button to stop playing.

Menu Setting
In standby mode, long press Up button to enter the menu mode, then press the Mode button can switch mode menu and System menu. Press the Down button to page down, press the Up button to page up, press the Power button to confirm. Long press the Up button to exit the menu.

Video mode/Picture mode/Playback mode each have two menus: Mode menu and System menu. The systems are all the same.

Video Menu:
Movie Size: 1080P 25fps/1080P 30fps/1080P 50fps/1080P 60fps/720P 60fps/720P 50fps/720P 30fps/720P 25fps/720P 120fps/1440P 30fps/VGA240fps
Video quality: super fine / fine / normal
seamless: OFF / 1 minute / 3 minutes / 5 minutes
Slow Motion: Off / Auto
Time Lapse: Off / 0.5sec / 1sec / 3sec / 5sec / 10sec / 30sec / 1min
White Balance: Auto / Daylight / Cloudy / Tungsten / Fluor
Exposure: -2.0 -1.0 +0.0 +1.0 +2.0
Motion detect: OFF / ON
Date stamp: Off / Date / Date & Time

picture menu:
Resolution: 12M / 8M / 5M / 3M
White Balance: Auto / Daylight / Cloudy / Tungsten / Fluor
Exposure: -2.0 -1.0 +0.0 +1.0 +2.0
Driver Mode: Off / 2S / 10S / Double
Periodical Snap: Off / 5S / 10S
Photo Burst: off / 3fps / 5fps / 10fps

Playback mode menu:
Please select File type!
VIDEO
JPG
Protect: Single / Protect All / Unprotect All
Delete: Single / All

System menu:
Sounds: Beep (on / off) / Volume (0/1/2/3) Voice Rec (on / off)
Power frequency: 50Hz / 60Hz / Auto
Power Save: Off / 1 min / 3 min / 5 min
Date & Time: 02/06/2012 19:17 Year / Month / Day
Language: English / Traditional Chinese / Simplified Chinese / German / French / Spanish / Russian / Italian / Thai / Japanese

Invert Mode: OFF / ON
WiFi password: 1 2 3 4 5 6 7 8 9 0
Time Zones: -12-11-10-9-8-7-6-5-4-3-2-1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10 +11 +12
TV out: Yes / No
Remote Pair: Off/On
Format: Yes / No
System: Factory Reset / System Info / Card Info

Remote Control Description
There are two buttons on the remote controller, press the video button to start/stop the recording. Press the picture button to take pictures. Press the picture button to capture under video mode.

Matching the remote control:
Set "Remote Pair" in the menu to On, keep pressing the two buttons on the remote control, you can see blue light of Remote control flashing, release the two buttons after 3 seconds. Press the power button of the DVR to exit the Remote Pair and return to preview mode. Take video or pictures via the remote control. If you can operate it is successful, if not, please repeat above operation. Please keep the camera and remote control within 1M when matching.

Install and use WiFi
1. Scan the QR code on the gift box to get the APP;
2. Install the APP in your smartphone
3. Set the WiFi password in the Menu.(The default password is 1234567890)
4. Long press Mode Button to Open WiFi function.
5. Find "customer_10036f" in the WiFi list of smartphone, enter the password to connect it.
6. When smartphone connect to the camera, the camera screen will display "customer_10036f", the WiFi indicator will light. If the connection does not succeed, the WiFi indicator will keep flashing.
7. Find the APP  in smart phone, then you can control the camera via the smart phone.
8. Press Mode Button again to exit the WiFi setting.

**Connect HDMI**

Connect the DVR to the TV via the HDMI cable, all operations can be displayed in high-definition TV screen.

**Connect TV**

Connect the DVR to the TV via the TV cable, set the menu “TV mode” to Yes, press Power button to confirm, then all operations can be displayed in TV screen.
1. The positive pole of the power 5v
2. The negative pole of the power
3. Video output
4. Audio output
5. USB port

**Playback on PC**

Connect the camera to PC, camera will power on automatically, the screen display: “MSDC”, “PCCAM”, “Working”. Press Up button or Down button to choose the option, press Power button to confirm.

MSDC: Enter the MSDC to check the files.
PCCAM: Camera will be worked as PCCAM.
Working: Camera can be used Normally and be powered by the PC.

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**Technical specification**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Size</td>
<td>61<em>45</em>25mm (Not include the lens)</td>
</tr>
<tr>
<td>Weight</td>
<td>58g (Not include battery)</td>
</tr>
<tr>
<td>Sensor</td>
<td>5 Mega CMOS 1/2.7&quot;</td>
</tr>
<tr>
<td>Lens</td>
<td>6G+IR F=2.0 f=2.8mm</td>
</tr>
<tr>
<td>View angle</td>
<td>160 degree</td>
</tr>
<tr>
<td>Resolution</td>
<td>1920<em>1440p/30fps, 1920</em>1080p/60/50/30/25fps,</td>
</tr>
<tr>
<td></td>
<td>1280<em>720p/1280/60/50/30/25fps, 640</em>480p/240fps</td>
</tr>
<tr>
<td>Image Size</td>
<td>12M 8M 5M 3M</td>
</tr>
<tr>
<td>File formats</td>
<td>JPG/MOV H.264</td>
</tr>
<tr>
<td>Memory card</td>
<td>4GB to 32GB (Micro SD Card Class6 above)</td>
</tr>
<tr>
<td>Audio</td>
<td>Built-in microphone / speaker</td>
</tr>
<tr>
<td>USB port</td>
<td>USB 2.0 high-speed interface for charging</td>
</tr>
<tr>
<td></td>
<td>and data transfer</td>
</tr>
<tr>
<td>screen</td>
<td>HD 2&quot;TFT 960x480</td>
</tr>
<tr>
<td>Seamless loop recording</td>
<td>Optional 1/3/5 minutes</td>
</tr>
<tr>
<td>HDMI output</td>
<td>Real-time transmission</td>
</tr>
<tr>
<td>White balance</td>
<td>support</td>
</tr>
<tr>
<td>Exposure compensation</td>
<td>support</td>
</tr>
<tr>
<td>Capture</td>
<td>Support by DVR and remote control</td>
</tr>
<tr>
<td>Continuous</td>
<td>support</td>
</tr>
<tr>
<td>Time Lapse</td>
<td>support</td>
</tr>
<tr>
<td>Image Invert</td>
<td>support</td>
</tr>
<tr>
<td>Slow Motion</td>
<td>support</td>
</tr>
<tr>
<td>WiFi frequency</td>
<td>2.4GHz-2.4835GHz</td>
</tr>
<tr>
<td>WiFi support phone system</td>
<td>IOS6.1 and above, Android 4.0 and above</td>
</tr>
<tr>
<td>WiFi function</td>
<td>Image transmission, remote control, settings, sync and sharing albums</td>
</tr>
<tr>
<td>WiFi distance</td>
<td>30m</td>
</tr>
<tr>
<td>Wireless transmission</td>
<td>IEEE 802.11b/g/n</td>
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<tr>
<td>Battery capacity</td>
<td>Lithium-ion batteries can be changed 1050mAh, recording for over 3 hrs</td>
</tr>
<tr>
<td>Language</td>
<td>Simplified Chinese / Traditional Chinese / English / Russian / French / Spanish / Italian / German/Thai</td>
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<tr>
<td>Waterproof</td>
<td>50 meters</td>
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<tr>
<td>Remote control frequency</td>
<td>2.4GHz</td>
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<td>Remote control waterproof</td>
<td>Ip65</td>
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<tr>
<td>Remote control distance</td>
<td>15m</td>
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</tbody>
</table>

**Notice:** The manufacturer however reserves the right to amend the specifications according to market demand without notice.