BLAUPUNKT

ESTABLISHED IN GERMANY Since 1923

G-Sensor
Micro SD
Wide-Angle
Loop-Recording

*Enjoy it.*

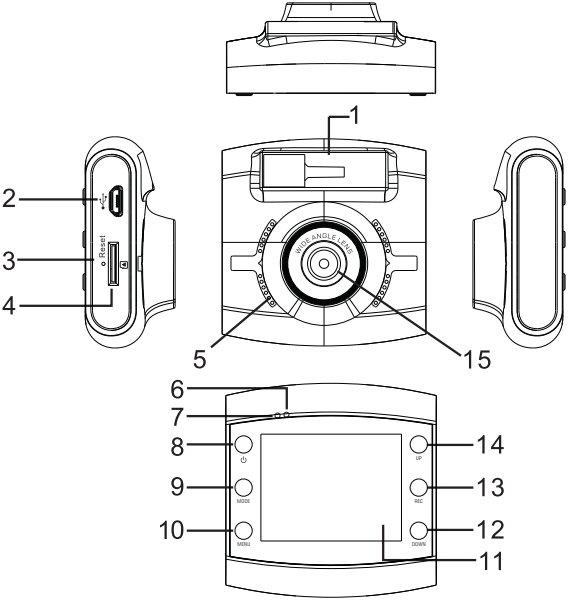
BP 2.1 FHD
2 005 017 000 001

Before using the product, please read this manual carefully.
The manual is to guide your usage of this product specially.

**Caution:**

1. Please strictly abide by the relevant national laws; this product may not be used for illegal purposes, otherwise take the consequence by yourself.
2. Please insert the card according to the right direction to avoiding damage the card or DVR.
3. We suggest that clean files in the card once a week.This product is not the exclusive storage device, so please back up the important files to computer or other storage device immediately to avoid file is missing
4. Please check the bracket carefully after installation to avoiding damage caused by bad installation.
5. The working time of the battery will get shorter with the using time increase. If the DVR had not been used for a long time, please charge it before using.
6. Please do not take the product under the moist environment. It is not waterproof.
7. Please do not to take pictures or record directly to the sun, to avoid damage the optical devices.
8. Please do not use this product in excessive dust environment, in case of the lens and other component be contaminated and affect the camera effect. Please keep lens clean to use the mirror paper and glasses cloth to wipe gently.
9. This product belongs to precision electronic products, please do not intensity impact, vibration and do not use in high magnetic field and electronic field.
10. To avoid over discharge, please charge DVR every three months if not using for long time.
11. **Working temperature for this device is -10℃-50℃ and storage temperature is -20℃-70℃. Continuous exposure to direct sunlight for an extended period of time, may cause the device to malfunction, color change, housing and image distortion, especially in locked cars where cabin temperature exceeds 70℃**.

## 1. Structure




1. **Bracket Hole**
2. **USB Port**
3. **RESET Key**
4. **Micro SD Card Slot**
5. **Speaker**
6. **Working Indicator Light**
7. **Power Indicator Light**
8. **ON/OFF Key**
9. **MODE Key**
10. **MENU Key**
11. **LCD**
12. **DOWN Key**
13. **REC Key**
14. **UP Key**
15. **Lens**

## 2. Features

1. Support multiple video resolution, such as 1080P, 720P, 480P and etc with superior video and image quality.
2. Built-in microphone/speaker.
3. Voice/Mute shortcut Key.
4. LCD off Shortcut Key.
5. Support high capacity Micro SD Card.
6. Support seamless loop video and as recording as charging.
7. Automatically take video when car engines on. Automatically turn off on delay 5 seconds after car engines off.
8. Support Motion detection.
9. Support SOS and G-SENSOR to prevent important files from being overwritten

## 3. Function

### 1. ON/OFF

I. Power on

In the off state, short press ON/OFF key. DVR enters the video mode and start recording automatically with green light flashing. Or DVR is connected with car charger in the off state to enter video mode and start recording automatically. When unplug the charger, DVR will automatically save the current file and shut down in 5 seconds delay.

**Note:** LCD screen writes 'no card' if Micro SD card not inserted. If the Micro SD card is inserted with DVR in working state, DVR will automatically power off.

II. Power off

In work state, long press ON/OFF key to power off DVR.

**Note:** In low battery state, DVR display writes 'Low Battery' and automatically saves the current file and shuts down.

### 2. Battery charging

Two ways to charge:

I. with USB cable

II. with car charger (Suggested)

**Note:** In charging, red indicator light will be steady on and automatically turn off with full charged.

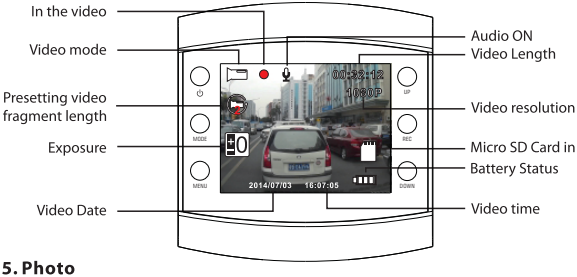
### 3. Micro SD Card Insertion

Straightly insert Micro SD Card into the slot in marked direction until hearing 'Di' sound.

***Pop up Micro SD Card:*** *Push forward Micro SD Card first and then pop it up (It is suggested to do it with DVR off)*

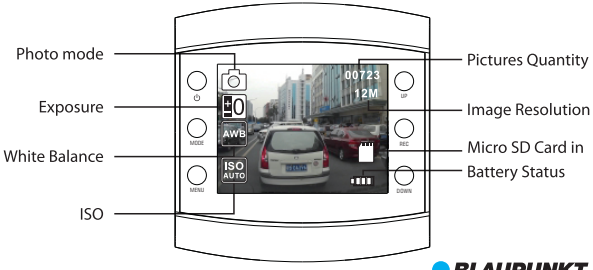
## 4. Video

Press ON/OFF key to power on DVR. Green indicator light flashes in video mode. Press the REC key to stop recording and save the current file, then DVR goes into standby mode with green indicator light steady on. In standby mode, press "REC" key to restart recording. Press again to stop recording.
In standby mode, press ON/OFF key to turn on/off the sound.
In video mode, press UP key to choose LCD on or off to be on energy saving mode.



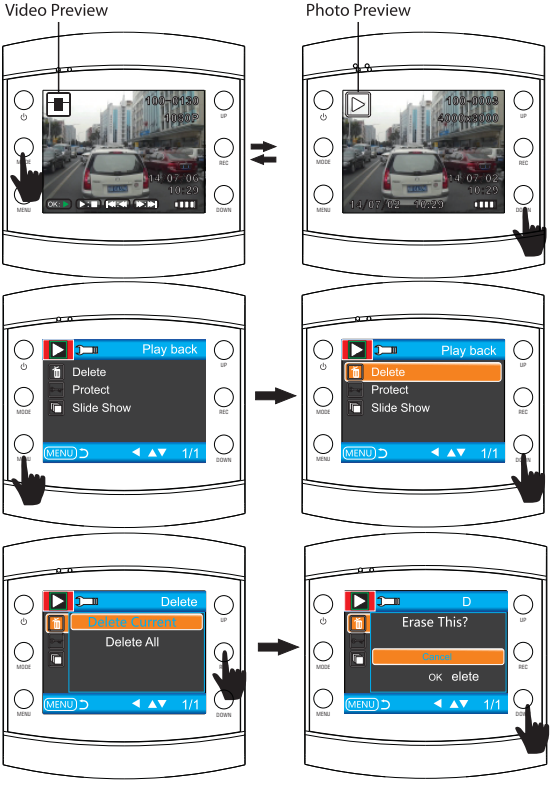

## 5. Photo

In standby mode, press MODE key to enter into photo mode. Press REC key to take photos with sound prompt. In photo mode, press UP key to choose LCD on or off to be in energy saving mode.



## 6. Playback and Delete

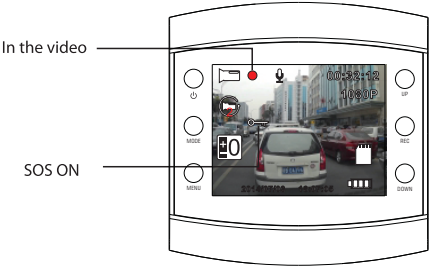
In standby mode, short press MODE key twice to enter into playback mode. Press UP/DOWN key to select the file. REC key is used for play or pause; If you want to delete files, press MENU key to be in Delete menu. UP/DOWN key is used to be in delete mode. Press REC key to confirm operation. Select 'delete current 'or 'delete all' and press REC key to delete. Press MENU key to exit Delete mode and go back to playback mode.



## 7. SOS

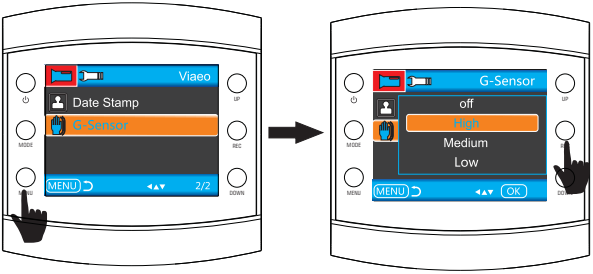
In video mode, short press MENU key to save the file manually in case of important files are lost.

Description: press MENU key in the first 10 seconds of the video clip, the current and previous video clip are saved. If in the last 10 seconds of the video clip, the current and the next video clip are saved. If in the middle, the current video clip is only saved.




## 8. G-SENSOR

In video mode, the car brakes suddenly or hit heavily, G-sensor will activate to prevent the current vide clip from overwritten. Three grades setting (high, medium, low) is to cater for different car owners. The description is as same as that of SOS.



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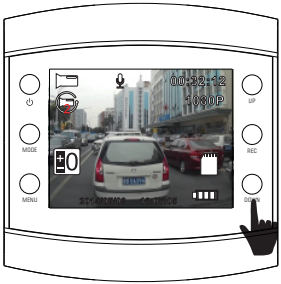
## 9. Motion Detection Shortcut Key

In standby mode, press DOWN key to enter into motion detection directly. When DVR detects moving objects, it starts to record. If there is no movement for 5 seconds, DVR stops to record and enters into motion detection mode. DVR records again when detecting any movement. Press DOWN key, DVR exits motion detection mode after saving video clip.




Video Standby Mode

Motion Detection ON

Motion Detection Mode

## 4. System Setting

In standby mode, press MENU key to enter system setting. Press UP/DOWN key to select the setting item and press REC key to be in sub-categories. Press UP or DOWN key to select the specific parameters and press REC to confirm finally. To exit system setting, please press MENU key.

Here is Specific Categories.

| | MODE | Category | Sub-Category | Remark |
|---|---|---|---|---|
| Image setting | Video | Resolution | 1080FHD 1920x1080<br>1080P 1440x1080<br>720P 1280x720<br>WVGA 848x480<br>VGA 640x480 | Factory default: 1440x1080 |
| | | Loop Recording | off/30 seconds/1 minute/2 minutes | Factory default: 1 minute |
| | | Exposure | +2.0, +5/3, +4/3, +1.0, +2/3, +1/3, +0.0, -1/3, -2/3, -1.0, -4/3, -5/3, -2.0 | Factory default: +0.0 |
| | | Voice Recording | Off/on | Factory default: On |
| | | G-Sensor | Off/high/medium/low | Factory default: Medium |
| | | Date stamp | Off/on | Factory default: On |
| | Photo | Capture Mode | Single/2s timer/5s timer/10s timer | Factory default: Single |
| | | Resolution | 12M/10M/8M/5M/3M/2MHD/VGA/1.3M | Factory default: 8M |
| | | Sequence | Off/on | Factory default: Off |
| | | Quality | Fine/Normal/Economy | Factory default: Normal |
| | | Sharpness | Strong/Normal/Soft | Factory default: Normal |
| | | White Balance | Auto/daylight/cloudy/tungsten/Fluorescent | Factory default: Auto |
| | | Color | Color/Black & White/Sepia | Factory default: Color |
| | | ISO | AUTO/100/200/400 | Factory default: Auto |
| | | Exposure | +0.0, -1/3, -2/3, -1.0, -4/3, -5/3, -2.0, +2.0, +5/3, +4/3, +1.0, +2/3, +1/3 | Factory default: +0.0 |
| | | Anti-shaking | Off/on | Factory default: off |
| | | Quick Preview | Off/2 Seconds/5 Seconds | Factory default: 2 Seconds |
| | | Date Stamp | Off, date, date/time | Factory default: Date/Time |
| | Playback | Delete | Delete current/Delete all | |
| | | Protect | Lock Current/Unlock Current/Lock All/Unlock All | |
| | | Slide Preview | 2 seconds/5 seconds/8 seconds | |

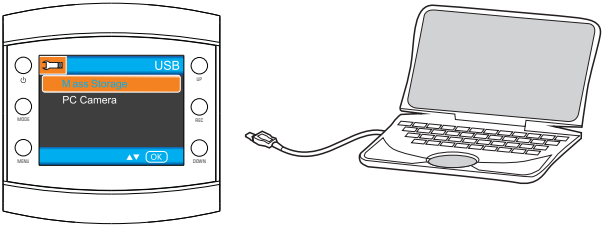
| | | | |
|---|---|---|---|
| System Setting | Date/Time | MM/DD/YY, DD/MM/YY, YY/MM/DD | |
| | Auto Power off | Off/1 minute/3 minutes | Factory default: off |
| | Beep Sound | Off/on | Factory default: on |
| | Language | English/Français/Español/Português/Deutsch/Italiano/Român /繁體中文/Русский/日本語/Polski/čeština/Türk | |
| | Frequency | 50Hz/60Hz | |
| | Format | Micro SD Card | |
| | LCD OFF | Off/1 minute/2 minutes/5 minutes | Factory default: 1 minute |
| | Default setting | Factory Default/Cancel/OK | |
| | Version | The current version number | |

# 5. Connected to the Computer

**Video and Photo Download**

1. When USB cable connects to your computer and DVR, red indicator light will be steady on. The screen pops up categories- Mass Storage and PC Camera.
2. If select Mass Storage and DVR screen changes to be blue. The Micro SD card disk will be recognized by computer.
3. Use computer to browse and manage files
4. When select PC Camera, DVR can be used as PC Camera and DVR screen changes to be blue. Long press ON/OFF key and pull out the USB cable to power it off.
5. Press ON/OFF key to power off DVR to be battery charge. The red indicator light will be steady on.

**Note:** Improper operation can be caused DVR crash. Please use small hard objects to press the reset key, When DVR restarts, it is back to normal.



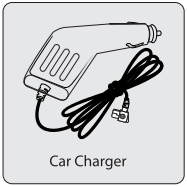
# 6. Product Specification

Note: Specification may change due to upgrades. Please take the objects as standards.

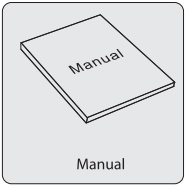
| | |
|---|---|
| LCD Size | 2.0 inch TFT Screen |
| CMOS Sensor | 1.0MP |
| Viewing Angle | 120 degree ultra-wide viewing angle |
| Minimum Illumination | 1LUX |
| Video Resolution | 1080P/720P/480P |
| Video Format | AVI@MJPG |
| Frames | 25fps under 1080P 30fps under 720P 1480P |
| Image Resolution | 12M/10M/8M/5M/3M/2MHD/VGA/1.3M |
| Image Format | JPG |
| Motion Detection | Support |
| Loop Recording | off/30s/1 min/2mins |
| Memory card | Micro SD Card (genuine high speed class 6 or above suggested) |
| Memory card Capacity | Max. 32GB |
| Output | USB2.0 |
| Power Port | USB5V 1000mA |
| Power Frequency | 50HZ/60HZ |
| Battery Capacity | 300mAH |
| Microphone/Speaker | Built-in |
| Language | English/Français/Español/Português/Deutsch/Italiano/Román /繁體中文/Русский/日本語/Polski/čeština/Türk |
| DVR N.W. | 50g |
| DVR Size | 64(W)*65(H)*28(D)mm |

## 7. Accessory

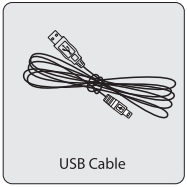
The following accessories are for reference only. Please take objects as standard. Supplier reserves the rights to change without prior notice.



Car Charger




Manual



USB Cable

Suction Cup Mount

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*Enjoy it.*

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⚠ After the manual, if any change,we will not Notice!