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## Specification


Items	Value
Image Processor	3 Million High Speed Image Processing Chip
Image Sensor	AR0330 Low Illuminance High Sensitive Sensor
Len	157° High Resolution Wide Angle Len
Aperture	F/2.4
Len Glass	6 G All-Glass with IR Filter
LCD	5' LCD, 480P
Image Resolution	2304x1296@ 30fps / 1920x1080@ 30fps / 1280x720@ 30fps
External Memory	8GB~32GB Micro SD Card , SDHC Class 10 or above
Recording Mode	Continuous Recording, Accident Recording, Parking Recording
G-Sensor	3 Axis G-Sensor w/t 3 Level Sensitivity
Video File Format	.MOV
Compression	H.264
Recording	Supporting Recording and Playing
Interface Languages	English, Traditional Chinese, Simplified Chinese, Korean, Russian, French, German, Japanese
Loop Recording	1 / 2 / 3 Mins
RAM	1G
Core	Duo Core
Battery	Built-in High Temperature Resistant Lithium Polymer Battery
Mount	Rearview Mirror
Amount of Len	Duo Lens (Frontview & Rearview Lens)

## 1. Switch on/off R22

### Switch on R22

Plug in external power source or press  to switch on R22.

### Switch off R22

1. Press and hold  for 2 secs to switch off R22.
2. R22 would enter into countdown when opening "Automatic Switch off when Parking", and will automatically switch off when the countdown finishes.
3. R22 would automatically switch off when low battery.

#### [NOTE]

- a. When using R22 for the first time, please be sure to resume default setting.
- b. The rearview len would shut down when no external power source plugged in.
- c. If Collision Detection is opened, please have the recorder stay still for 5 secs after switching off R22 by hand.
- d. It is forbidden to take out SD Card when recording.










## 2. REC (Recording)



### Function

1. Recording immediately starts after R22 switched on.
2. Recording icon and length of recording are on the upper left side. The icon would flash when recording.
3. The icons on the upper right are Video Quality, WDR, Loop Recording time, Speaker, Sound Recording and Battery (from left to right).
4. Recording would stop when no SD Card in R22.
5. Under Loop recording, one file will be saved when recording time reaches the set loop recording time. When the capacity in the SD Card is full, the current file will overwrite the oldest file.

### Interface Icon Definition

- |  |                                      |   |                                    |
|--|--------------------------------------|---|------------------------------------|
|   | Recording in progress, icon flashing |  | Emergency Recording, icon flashing |
|   | 2304x1296@ 30fps                     |  | 1920x1080@ 30fps                   |
|  | 1280x720@ 30fps                      |  | Records image and sound            |
|   | Only records image                   |  | Mute                               |
|   | Notification sound opened            |   |                                    |



Open WDR



Loop Recording: 1 min



Loop Recording: 2 mins



Loop Recording: 3 mins



External Power Source



Battery power full

**Buttons Definition**

Buttom	Operation	Function
⏻	Press and hold 2 secs	Switch Off
	Press	Photo Shooting
M	Press	Settings
☰	Press	Function Menu
▲	Press	Switch between Frontview and Rearview
▼	Press	Closs/Open LCD
OK	Press	SOS Recording
	Press and Hold	N/A

**3. MD (Motion Detection)****Function**

1. Recording icon and length of recording are on the upper left side. The icon would flash when recording.
2. The icons on the upper right are Image Resolution, WDR, Loop Recording time, Speaker, Sound Recording and Battery (from left to right).
3. Recording would stop when no SD Card in R22.
4. Motion Detecion would launch when parking. If the sensor senses nothing more than setted period of time, the recording would be stopped and LCD would automatically close. When the sensor senses certain motion, LCD would open and start recording.

## Interface Icon Definition



Recording in progress, icon flashing



2304x1296@ 30fps



1920x1080@ 30fps



1280x720@ 30fps



Records image and sound



Only records image



Mute



Notification sound opened



Open WDR



Loop Recording: 5 secs



Loop Recording: 10 secs



Loop Recording: 30 secs



Loop Recording: 1 min



External Power Source



Battery power full

## Buttons Definition

Button	Operation	Function
⏻	Press and hold 2 secs	Switch Off
	Press	N/A
M	Press	Settings
☰	Press	Function Menu
▲	Press	Switch between Frontview and Rearview
▼	Press	Close/Open LCD
OK	Press	N/A
	Press and Hold	N/A

## 4. Browser

### Function

1. Review the REC Files, SOS Files, MD and Photos Files.
2. The icon would be brightened if only the relevant files are stored, otherwise would be gray.



Contains Files

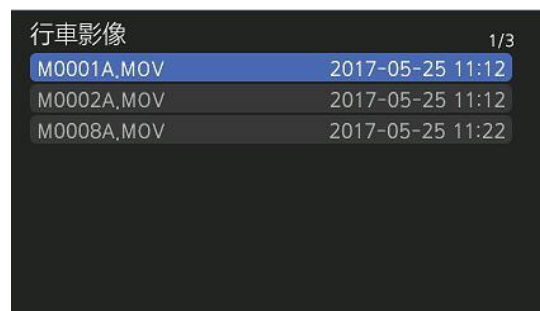


Contains no Files

**Buttons Definition**

Button	Operation	Function
⏻	Press and Hold 2 secs	Switch Off
	Press	Delete files in the chosen folder
M	Press	Settings
☰	Press	N/A
▲	Press	Swich to Left Item
▼	Press	Swich to Right Item
OK	Press	Enter Next Layer of Menu
	Press and Hold	N/A

**4.1. REC Files**






**Function**





1. Only when videos contains in the folder can users enter into the folder and see the list of videos.
2. Choose the file and press [OK] to play the file.

**Button Definition for Choosing REC Files**





Button	Operation	Function
⏻	Press and Hold 2 secs	Switch Off

	Press	Confirm to delete chosen folder
<b>M</b>	Press	Settings
	Press	Main Menu
	Press	Switch to left folder
	Press	Switch to right folder
<b>OK</b>	Press	Enter the file list
	Press and Hold	N/A

#### Button Definition for File List

Button	Operation	Function
	Press and Hold 2 secs	Switch Off
	Press	Confirm to delete chosen file
<b>M</b>	Press	Settings
	Press	Return to Browser Menu
	Press	Switch to previous file
	Press	Switch to next file
<b>OK</b>	Press	Play video
	Press and Hold	N/A

#### Button Definition for Playing Video

Button	Operation	Function
	Press and Hold 2 secs	Switch Off
	Press	N/A
<b>M</b>	Press	N/A
	Press	Return to file list
	Press	Play previous video
	Press	Play next video
<b>OK</b>	Press	Play / Stop
	Press and Hold	N/A

#### 4.2. SOS Files

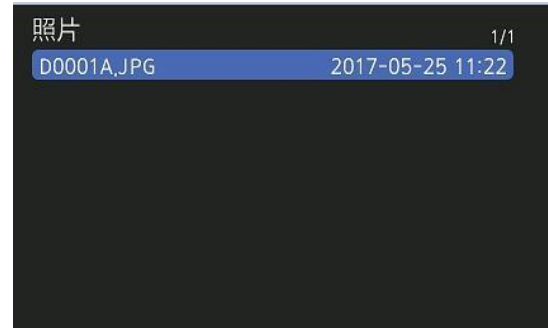
Way of operation and button definition are the same as REC Files.



### 4.3. MD (Motion Detection)

Way of operation and button definition are the same as REC Files.

### 4.4. Photos Files



#### Function

1. Only when photos contains in the folder can users enter into the folder and see the list of photos.
2. Choose the file and press [OK] to see the photo.

#### Button Definition for Choosing Photo Files

Button	Operation	Function
⏻	Press and Hold 2 secs	Switch Off
	Press	Confirm to delete chosen folder
M	Press	Settings
☰	Press	Main Menu
▲	Press	Switch to left folder
▼	Press	Switch to right folder
OK	Press	Enter the file list
	Press and Hold	N/A

#### Button Definition for File List

Button	Operation	Function
⏻	Press and Hold 2 secs	Switch Off
	Press	Confirm to delete chosen file
M	Press	Setup
☰	Press	Return to Previous Page
▲	Press	Switch to previous file
▼	Press	Switch to next file
OK	Press	Preview Photos

	Press and Hold	N/A
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### Button Definition for Viewing Photos

Button	Operation	Function
⏻	Press and Hold 2 secs	Switch Off
	Press	N/A
M	Press	N/A
☰	Press	Return to Photo List
▲	Press	Previous Photo
▼	Press	Next Photo
OK	Press	Return to Photo List
	Press and Hold	N/A

### 5. Functions



### Button Definition for Functions

Button	Operation	Function
⏻	Press and Hold 2 secs	Switch Off
	Press	Go back to Recording
M	Press	Settings
☰	Press	N/A
▲	Press	Switch to left folder
▼	Press	Switch to right folder
OK	Press	Enter the Function Items
	Press and Hold	N/A

### 5.1. Video Quality



#### Video Quality Items

- SHD: 2304 X 1296 30fps
- FHD: 1920 X 1080 30fps (Default)
- HD: 1280 X 720 30fps

### 5.2. WDR



#### WDR Items

- ON: Turn on WDR (Default)
- OFF: Turn off WDR

### 5.3. Loop Recording



#### Description

Set length for Dash Cam to loop record. The items are: 1 min, 2 min and 3 mind, where 2 min is the default.

## 5.4. Sound Recording

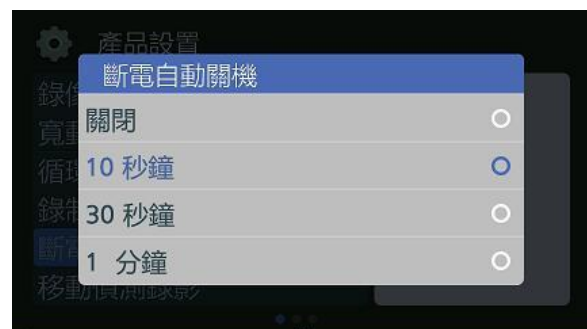


### Sound Recording Items

**ON:** Video with sound (Default)

**OFF:** Video with no sound

## 5.5. Auto Off



### Description

Set the countdown length when removing external power source. The items are: 10 s, 30 s, 1 min, where 10 s is the default.

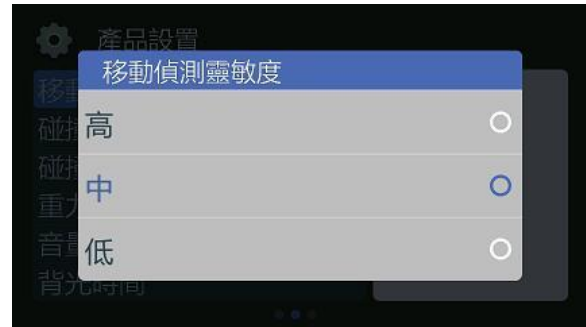
## 5.6. MD Record Time



### Description

Set the length of Motion Detection or turning of this function when parking. Users can set the length of Motion Detection in 5s, 10s, 30s and 1 min.

## 5.7. MD Sensitivity



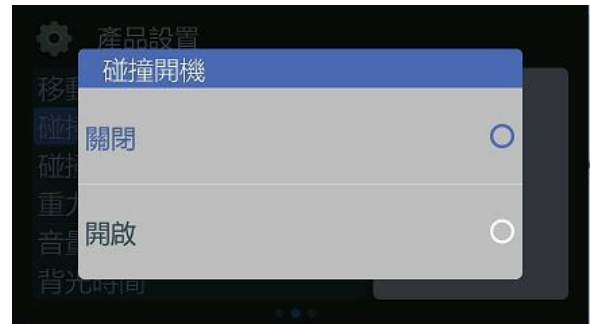
### MD Sensitivity Items

**HIGH:** High sensitivity for Motion Detection.

**MIDDLE:** Medium sensitivity for Motion Detection (Default).

**LOW:** Low sensitivity for Motion Detection.

## 5.8. Collision Boot



### Collision Boot Item

**OFF:** Turn off Collision Boot. (Default)

**ON:** Turn on Collision Boot.

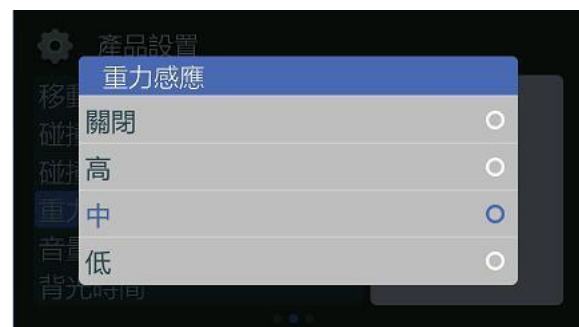
## 5.9. Collision RECTime



### Description

Set the length of countdown when sensing no shaking while Motion Detection turned on. When reaching the length of time, the recording would automatically stop. The selected length includes 10 s, 20 s and 30 s, where 10 s is the default setting.

## 5.10. G-Sensor



### G-Sensor Items

**OFF:** Turn off event triggered function.

**HIGH:** High sensitivity for triggering event.

**MIDDLE:** Medium sensitivity for triggering event. (Default)

**LOW:** Low sensitivity for triggering event.

## 5.11 Volume Setting



### Description

Press OK to set the volume of pressing buttons between Mute to 100%. 60% is the default value.

## 5.12. Backlight Time



### Backlight Time Items

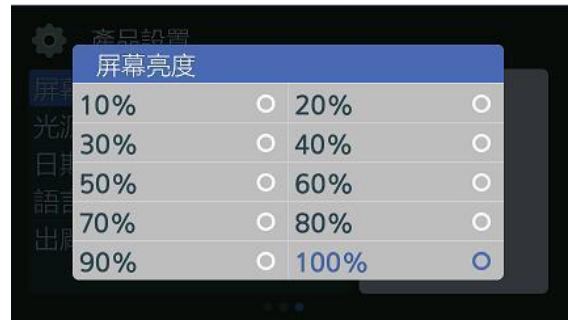
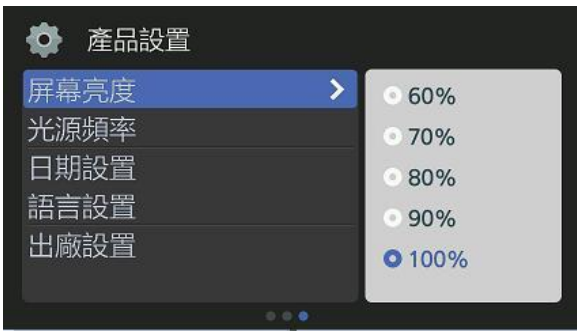
**ON :** Default value. The backlight is set to turn on all the time.

**30 s :** Backlight would close when no operation in 30 seconds.

**1 min :** Backlight would close when no operation in 1 minute.

**5 min :** Backlight would close when no operation in 5 minute.

### 5.13. Display Brightness



#### Display Brightness Items

Users can choose the display brightness from 10% to default 100%.

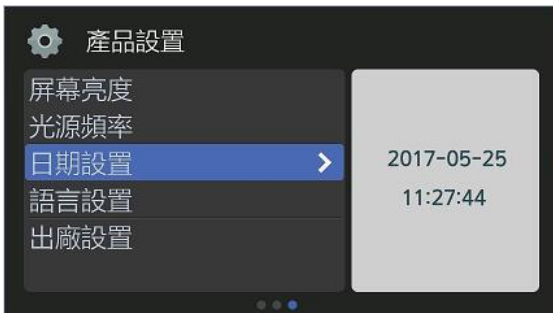
### 5.14 Flicker



#### Flicker Items

Users can choose 50 Hz or 60Hz (default) for flicker.


### 5.15 Set Clock



#### Description

Users can set year, month, day, hour, minute and second under this item.

#### Button Definition for Setting Clock

Button	Operation	Function
	Press and Hold 2 secs	Switch Off
	Press	N/A

<b>M</b>	Press	N/A
<b>目</b>	Press	Switch between the setting items
<b>▲</b>	Press	Adjusting the setting value
<b>▼</b>	Press	
<b>OK</b>	Press	Confirm the setting
	Press and Hold	N/A

### 5.16 Language

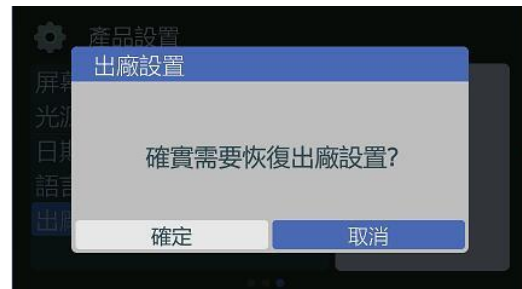


#### Description

Users may choose the following languages:

English (default), 簡體中文 (Simplified Chinese), 繁體中文 (Traditional Chinese), 한국어 (Korean), Русский (Russian), Deutsch (German), Français (French) and 日本語 (Japanese).

### 5.17. Reset Setup

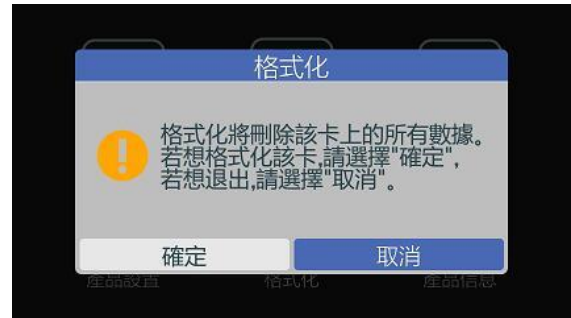


#### Description

Restore all the setting value to default setting.



## 6. Format



### Description

Format SD Card inside R22. This would delete all the data in this card.

### NOTE



1. Please ensure no critical data in the SD Card before formatting.
2. It is strongly suggested to format SD Card once a week.
3. It is recommended to backup all the critical data in the SD card into PC before formatting.
4. If the video cannot be played fluently, it is recommended to format the SD Card






## 7. Info



Provide the relevant info of R22, including the Model Name and Firmware Version.

## 8. System Messages

 <p><b>無SD卡!</b> 請插入SD卡.</p>	<p>No SD Card! Warn the users to put SD Card into card slot for recording. The message would disappear after putting SD Card into card slot.</p>
 <p><b>SD卡滿!</b> 請清理SD卡</p>	<p>SD Card Full! Warn the users the capacity of the SD Card is full and cannot record any videos. Please clear the capacity or change another SD Card.</p>

 <p>請稍等...</p> <p>正在為您準備SD卡.</p>	<p>Please wait...Preparing SD Card</p> <p>Notify the users when putting SD Card into card slot and the message would disappear after the SD Card is ready. It is forbidden to take out the SD Card while preparing.</p>
 <p>SD卡錯誤!</p> <p>請嘗試重插或格式化SD卡</p> <p><small>(64/128G卡須在本機格式化後即可正常使用)</small></p>	<p>SD Card Fault</p> <p>Take out the SD Card and re-plug again when seeing this message. If the message remains, please confirm the SD Card condition on your PC.</p>
 <p>碰撞開機錄影</p> <p>監控錄影中...</p>	<p>Collision Boot Recording</p> <p>Notify users Collision Boot recording.</p>
 <p>碰撞開機錄影</p> <p>00 : 10</p>	<p>Collision Boot Recording Countdown</p> <p>Collision Boot Recording would automatically stop when sensing no operation within set length of time.</p>
 <p>斷電自動關機</p> <p>00 : 10</p>	<p>Automatically Turn Off</p> <p>The machine would countdown for automatically turning off after removing external power source.</p>