



# TE-CDVR-9QM User Manual

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# 1. Precautions

## ● Storage and Keeping

1. Do not expose the monitor to excessive heat or cold. The storage temperature of this device is -30~+80°C, and the operating temperature is -20~+70 °C. Battery operating temperature is 0-70°C. The humidity is Rh90%.
2. Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar places.
3. Never use this device in environments with excessive moisture, dust or smoke.
4. Avoid dropping or striking this device.
5. Avoid using this device in enclosed spaces, areas with excessive vibration or subject to severe impacts.
6. Never puncture, scratch or use abrasive cleaning materials on this device.
7. Do not place cables where they may be pinched or stepped on.
8. Leave at least a 2" space between the monitor and walls, cabinets or other objects to allow adequate air circulation around the device.
9. The monitor is not designed to be waterproof.

## ● Operating Precautions

1. The device may be powered by a 12 or 24 volt automotive battery or vehicle electrical system.
2. Make sure all cables are connected properly. Observe polarity. Improper cable connections may damage the monitor. Remove the power cable connections when you do not intend to use the device.
3. The back-up battery can be recharged when the power is on.
4. When it is fully charged, recharging is automatically stopped.
5. It may take longer to charge batteries unused for a long time.



### Warning!

1. High voltage is present within the monitor. The opening of the case should be by professionals.
2. Do not watch the video while driving unless you are monitoring the rear view camera display.



### Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. This is a very common phenomenon in active matrix display technology, and doesn't necessarily indicate any defects or faults. Never try to repair this device by yourself. In case of any problems, please turn off the display at once and notify our company or authorized dealer. The monitor is a complex device. Any disassembly or modification may lead to damage and void the warranty.

## ● Maintenance

1. Remove all the cable connections from the monitor before cleaning the device.
2. Use a mild household detergent and clean the unit with a slightly damp, soft cloth.  
Never use strong solvents such as thinner or benzene, as they might damage the finish of the device.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

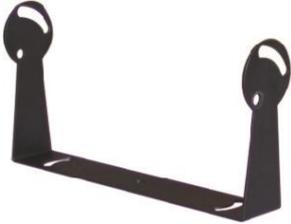


This symbol is intended to alert the user not to waste electrical and electronic equipment.

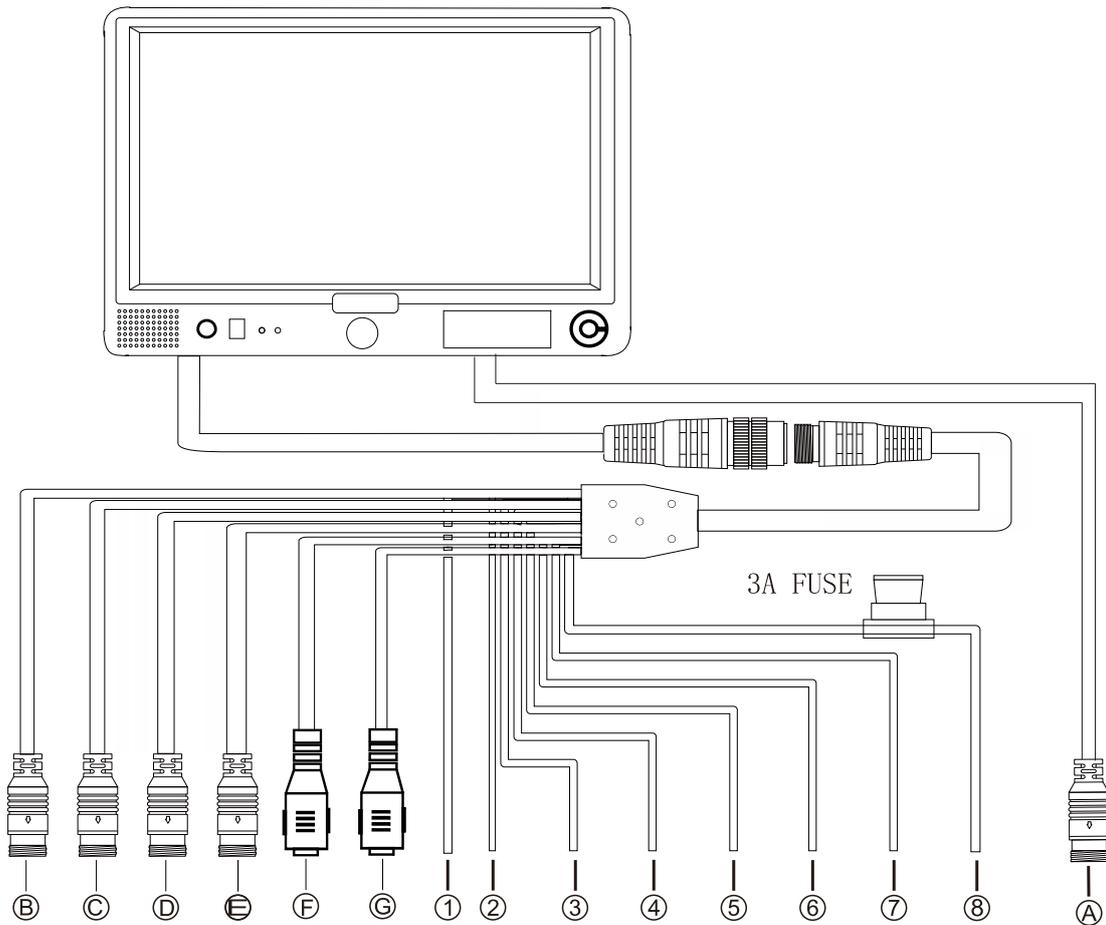
### CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty and necessitate expensive repairs.

# 2. Accessories

|  |  |
|--|--|
|  <p>U-Support Bracket</p>         |  <p>Center Mount Bracket</p> |
|  <p>Sun Shield</p>                |  <p>Power cable</p>          |
|  <p>Angle Adjustment Screws</p> |  <p>IR Remote control</p> |
|  <p>Keys</p>                    |  |

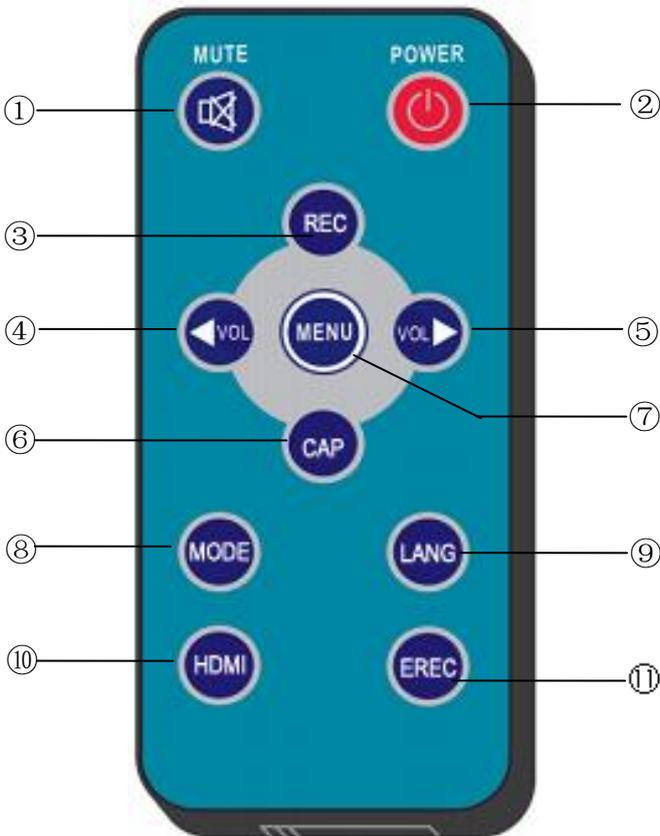
### 3.Connections



**A: GPS**      **GPS Input**  
**B: Camera1**   **White**   **4 PIN Female**  
**C: Camera2**   **Blue**   **4 PIN Female**  
**D: Camera3**   **Green**   **4 PIN Female**  
**E: Camera4**   **Brown**   **4 PIN Female**  
**F: Video Out**   **Yellow**   **RCA Female**  
**G: Audio Out**   **White**   **RCA Female**

**① White: Camera 1 trigger**  
**② Blue: Camera 2 trigger**  
**③ Green: Camera 3 trigger**  
**④ Brown: Camera 4 trigger**  
**⑤ Orange : HDMI trigger**  
**⑥ Purple: Speed**  
**⑦ Black : Ground**  
**⑧ Red: VCC**

# 4.Remote Control



- ① Mute
- ② Standby
- ③ Recording
- ④ Volume Decrease
- ⑤ Volume Increase
- ⑥ Snapshot
- ⑦ Menu
- ⑧ Display Mode Selection
- ⑨ Language Selection
- ⑩ HDMI Switch
- ⑪ Event Recording

# 5. Controls



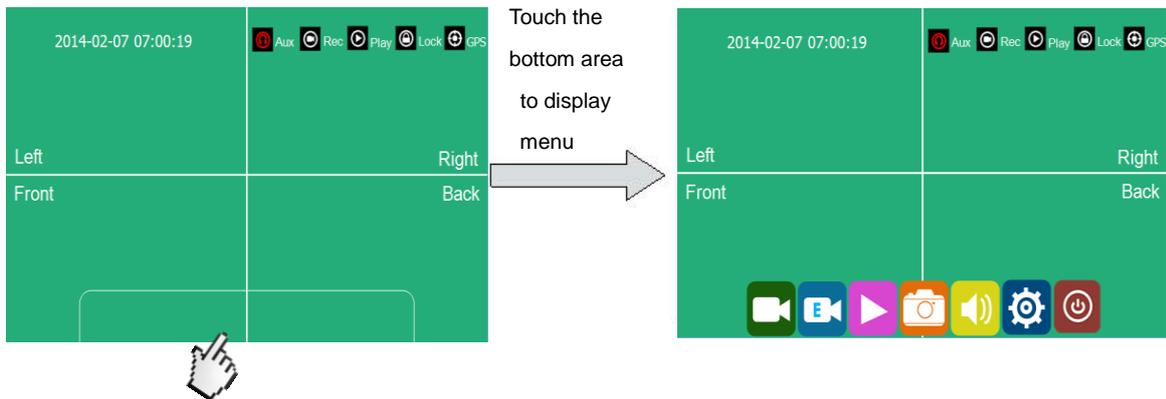
- ①AUX Input
- ②Remote Receiver
- ③LDR
- ④Recording Indicator
- ⑤Power
- ⑥Lock
- ⑦Emergency Hole
- ⑧Micro SD Slot
- ⑨HDMI Input
- ⑩Insert Direction
- ⑪Slot Number
- ⑫ Sketch of slots & micro SD card direction

## Power Function:

- a/ Short press the power button to turn the monitor on when the panel LED is red.
- b/ Press the power button for 5 seconds and enter the password in the pop-up window to turn off the monitor.
- c/ Short press the power button to turn off the backlighting when monitor is on.

LDR:Light dependent resistor.  
 Emergency Hole:Press the emergency hole using some needle can reset the whole machine, in case the system halted.

## 6. Operation



### 6.1 Time and Indicators

Top left displays date and time.

Top right displays 5 indicators: AUX/Rec/Play/Lock/GPS

AUX indicator turns red when AUX audio is inserted on the front panel.

Rec indicator turns red when recording.

Play indicator turns red when playing back.

Lock indicator turns red when menu is locked.

GPS indicator flickers when searching signal.

GPS indicator turns red when GPS signal is received.

### 6.2 Menu Operation



Click this icon to start or stop recording. Video files are saved in normal list of player menu.

If event recording is activated (trigger signal, motion detection, collision etc.), regular recording will be paused and then retrieved when event recording is finished.

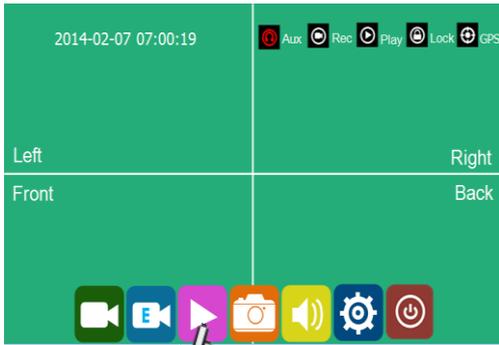


Click this icon to start a event recording manually. The video buffer 15 seconds before the click will also be saved in this event record mode. The event recording will stop when the pre-set recording time is up. Video files are saved in event list of player menu.

Click the icon again when the event recording is not ended, the monitor will switch to normal recording after pre-set recording time is up.



Click this icon to play back video. A prompt dialog will show "Can not record in play mode! Continue?" Click OK to enter recording calendar menu. Video files are available in green highlighted dates. Click the date to select, play or delete video files or snapshots. Multiple video files can be selected to play back in sequence, while snapshots must be viewed in folder one by one.



Year Selection Month Selection Exit

Videofiles and snapshots are available in green highlighted dates

| 2015 Dec |     |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|-----|
| SUN      | MON | TUE | WED | THU | FRI | SAT |
|          |     | 1   | 2   | 3   | 4   |     |
| 6        | 7   | 8   | 9   | 10  | 11  | 12  |
| 13       | 14  | 15  | 16  | 17  | 18  | 19  |
| 20       | 21  | 22  | 23  | 24  | 25  | 26  |
| 27       | 28  | 29  | 30  | 31  |     |     |

Click the recording date in green to select file.

| Normal Recording list               | Event Recording List    | Capture List |
|-------------------------------------|-------------------------|--------------|
| Normal                              | Event                   | Capture      |
| <input checked="" type="checkbox"/> | 20151225093601_f000.msv | 161 MB SD3   |
| <input checked="" type="checkbox"/> | 20151225093125_f000.msv | 200 MB SD3   |
| <input type="checkbox"/>            | 20151225092649_f000.msv | 200 MB SD3   |
| <input type="checkbox"/>            | 20151225092213_f000.msv | 200 MB SD3   |
| <input type="checkbox"/>            | 20151225091736_f000.msv | 201 MB SD3   |
| <input checked="" type="checkbox"/> | 20151225091300_f000.msv | 200 MB SD3   |
| <input type="checkbox"/>            | 20151225090823_f000.msv | 200 MB SD3   |
| <input type="checkbox"/>            | 20151225090347_f000.msv | 200 MB SD3   |

Play All Protect Delete Exit

Play Select All Protect Files Delete Exit

2015-02-13 08:41:20

Aux Rec Play Lock GPS

Left Right  
Front Back

Play last file Play next file

Volume Adjustment Pause Video Play Hide Player Menu Exit

| Normal                   | Event             | Capture |
|--------------------------|-------------------|---------|
| <input type="checkbox"/> | JPG20150210161409 | SD1     |
| <input type="checkbox"/> | JPG20150210151409 | SD1     |

Play ALL Protect Delete Exit

2015-02-13 08:42:16

Aux Rec Play Lock GPS

Display last picture Display next picture

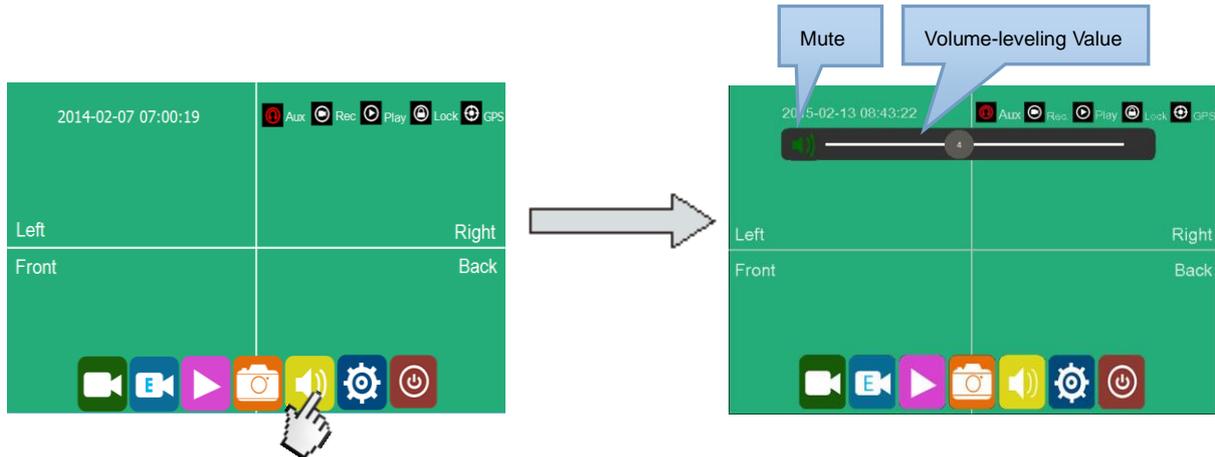
Navigation buttons: Down, Left, Right, Back



Click this icon for snapshot under live recording and playback mode. "Snapshot Success" will display when snapshot is done. Pictures are saved in capture list of player menu.



Click this icon to adjust volume under live recording and playback mode.



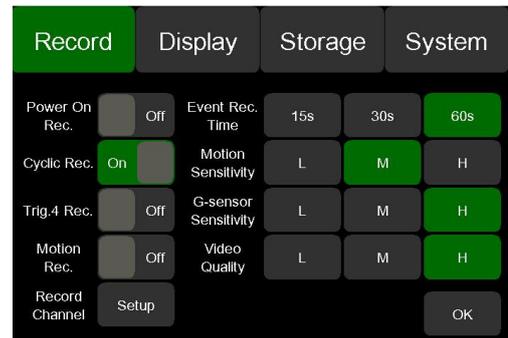
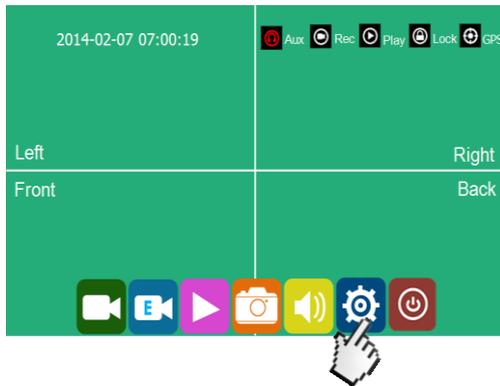
Click this icon to set menu. A prompt dialog will display " Unable to record in set-up mode! Continue?" Click OK to enter.



Click this icon and enter the password in the pop-up window to turn off the monitor.

# 7.Main Menu

## 7.1 Record



### Power On Rec:

Recording will start when power is on if setting the Power On Rec ON.

### Cyclic Rec:

New video files will overwrite the previous ones when SD cards are full if setting the Cyclic Rec ON. Recording will stop when SD cards are full if setting the Cyclic Rec OFF. Overwriting will not cover event recording files.

### Trig.4 Rec:

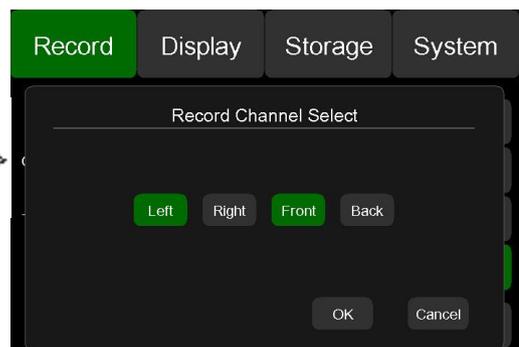
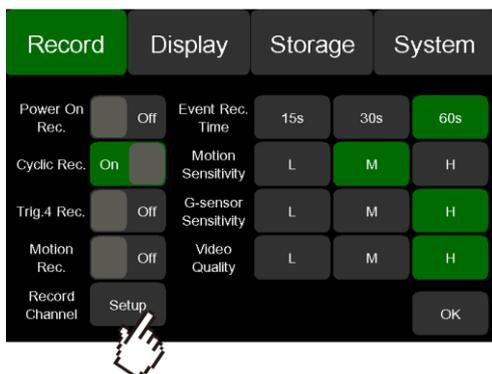
Event recording will start if setting the Trig.4 Rec ON.

### Motion Rec:

Event recording will start if set the Motion Rec ON.

### Event Record Time:

Event recording time can be set from 15 seconds, 30 seconds to 1 minute.



### Record Channel:

Select any camera channel for recording. Default setting is recording ALL channels under normal record and power on record mode, while it is ALL channels for event recording and can't be changed.

### Motion Sensitivity:

Motion Sensitivity is optional for low, middle, high level.

If there is motion in the video and it reaches the threshold, it will trigger to record.

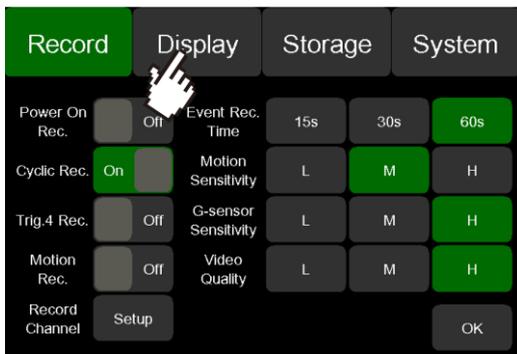
### G-sensor Sensitivity:

G-sensor Sensitivity is optional for low, middle, high level, which stands for +/-1g, +/-2g, +/-4g.

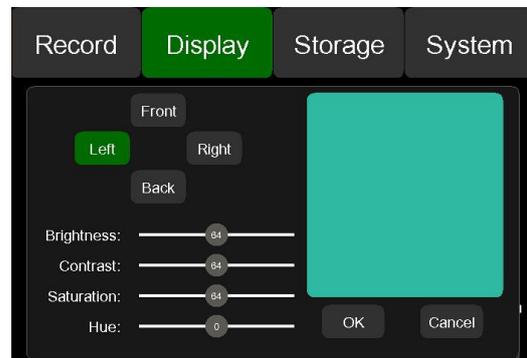
### Video Quality:

Resolution of video quality is classified into low /middle /high. Default quality is high.

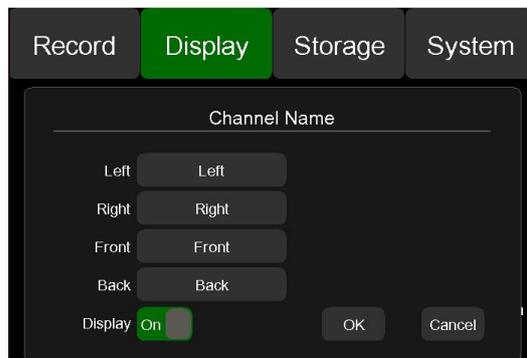
## 7.2 Display



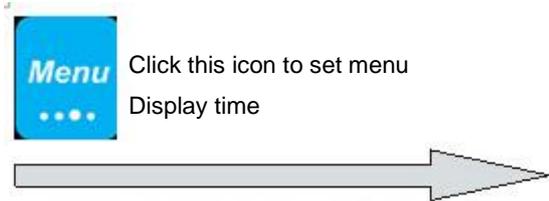
Camera Display Setting



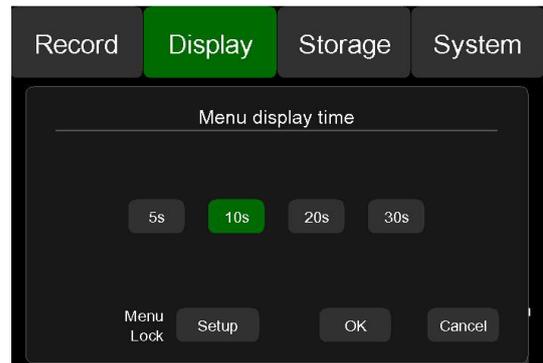
Camera Name Setting



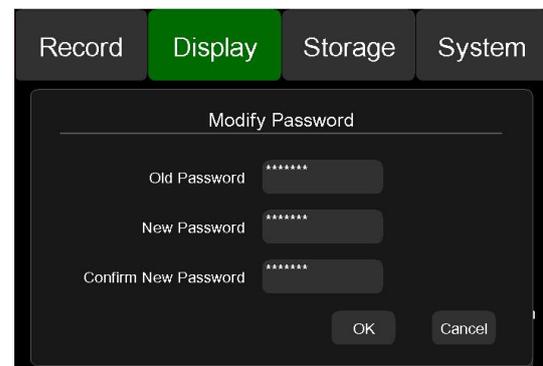
Click the camera name in the gray box and input new one with maximum 8 digits.



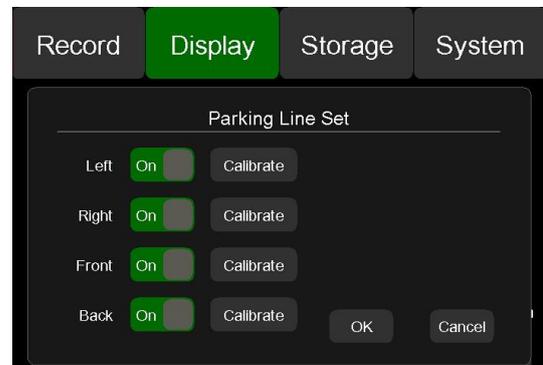
Click this icon to set menu Display time



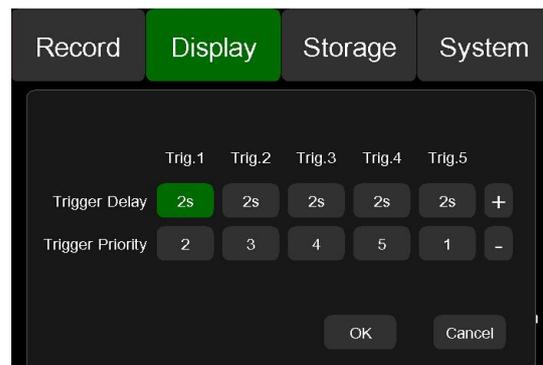
Click Menu Lock Setting to set menu password. Default Password is 123456



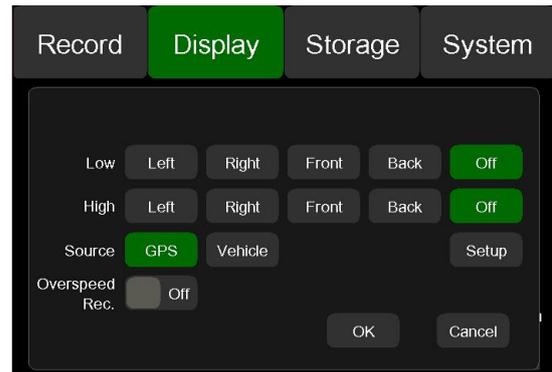
Click this icon to turn on / off camera parking lines. Click Calibrate to adjust parking lines.



Click this icon to set trigger delaying time and priority, 5 is the highest priority.

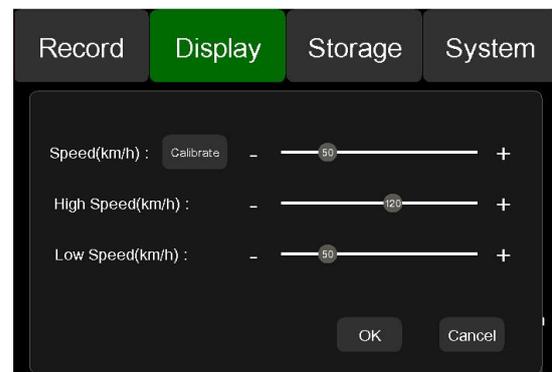


Connect the vehicle speed wire with the monitor speed wire before operation. A full screen of selected camera will be displayed when the vehicle is over speed or underspeed. Click the Option icon to set the speed threshold. Speed recording will start if setting the Speed Rec. ON. There are 2 speed sources: GPS and vehicle speed sensor.

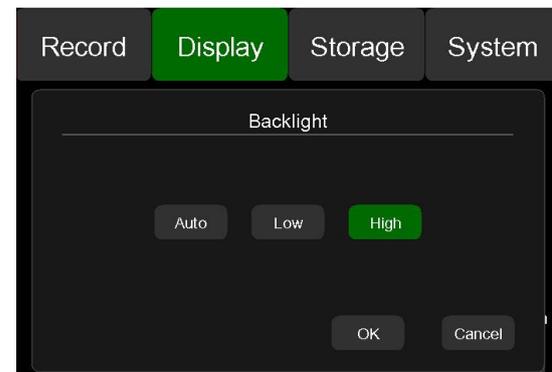


Speed Switch—Setup...

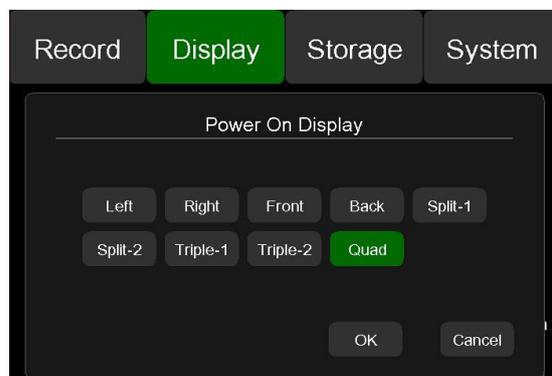
Click the Calibrate icon to calibrate the current speed for the monitor. Then you can set the threshold of High Speed and Low Speed to display the corresponding camera.



Click this icon to set backlighting value.

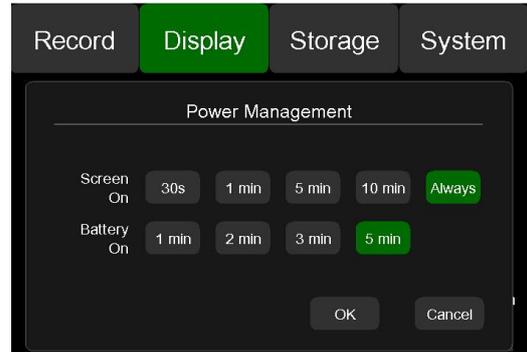


Click this icon to set power on display mode.

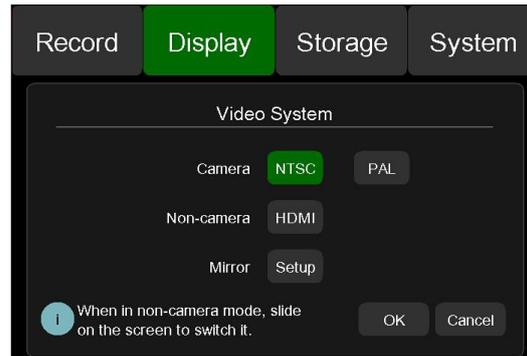




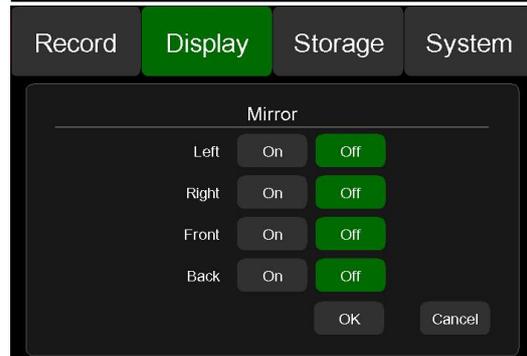
Click this icon to set screen on duration and battery power supply duration after external power is off.



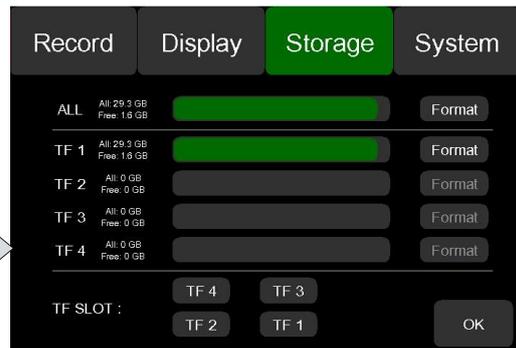
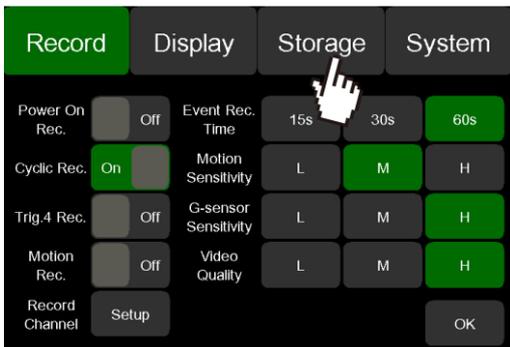
Click this icon to select video system Under camera mode or HDMI input under non-camera mode.



Under Mirror sub-menu, each video input can be set to display in either mirror or non-mirror image.



### 7.3 Storage



ALL: Capacity and free capacity for all cards.

TF1~4: Capacity and free capacity for each individual micro SD card.

Format : Format micro SD card.

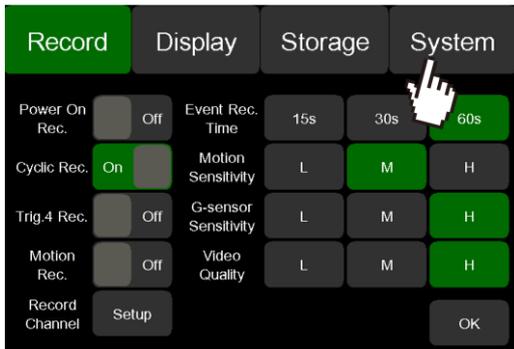
All: Formal all micro SD cards.

TF1~4: Format any individual micro SD card. Format icon will be gray if SD card is not found.

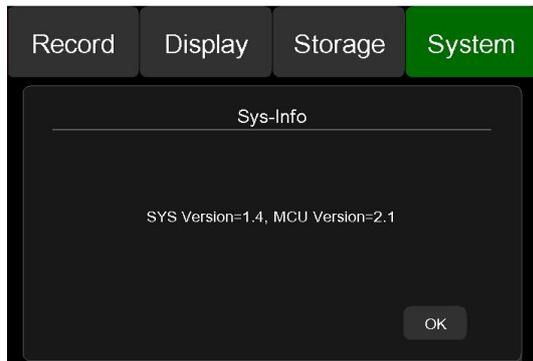
TF SLOT: Micro SD card slot position.

**Warning: Micro SD cards must not be taken out during recording or playback.**

## 7.4 System



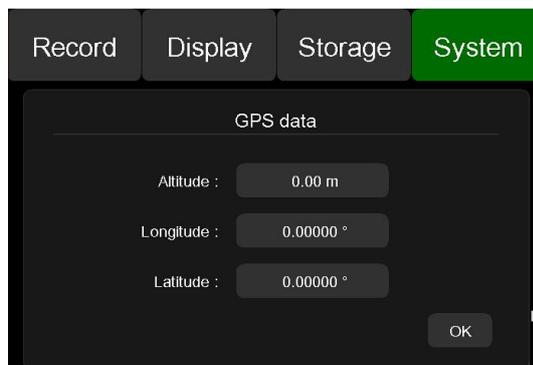
Click this icon to display the monitor Software version



Click this icon to select language

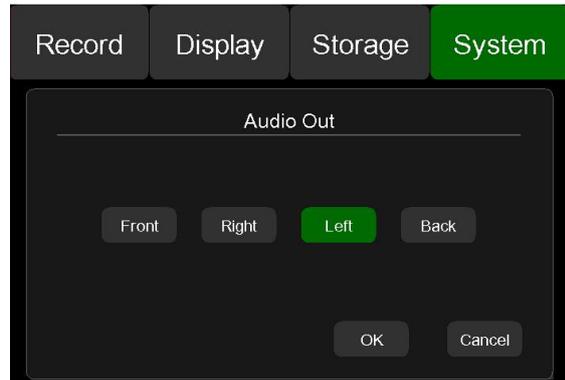


Click this icon to display GPS information

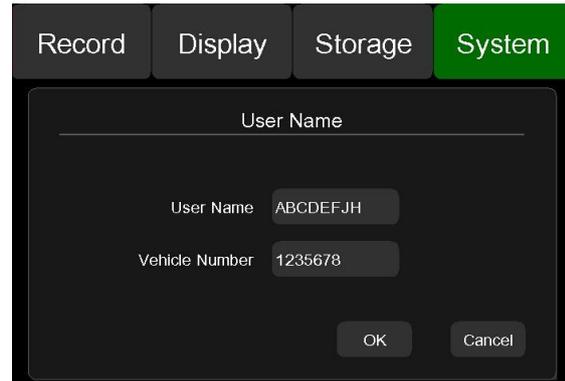




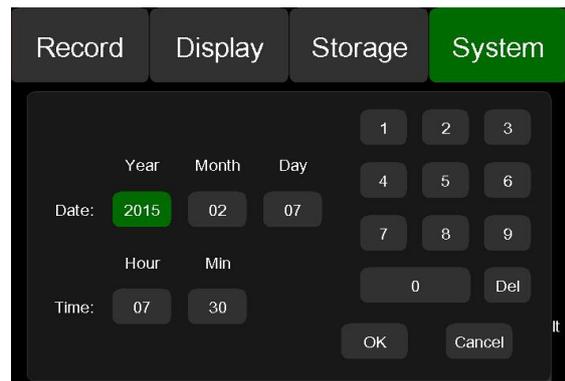
Click this icon to set audio out channel.



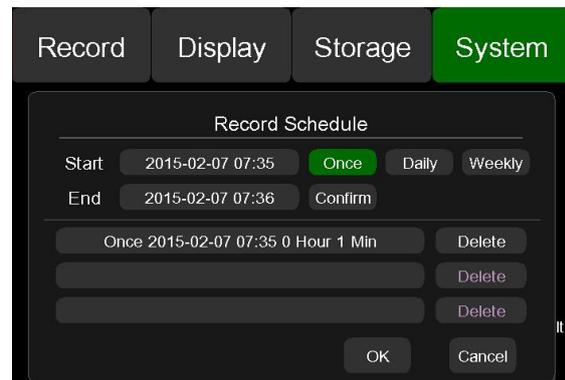
Click this icon to set device ID and license plate number. The information will be displayed on all the video files to distinguish different vehicles and drivers.



Click this icon to set date and time. Year should range between 2000-2037



Click this icon to set scheduled recording.



Start: Start time of scheduled recording.

End: End time of scheduled recording.

Confirm: Add scheduled recording

Scheduled recording:

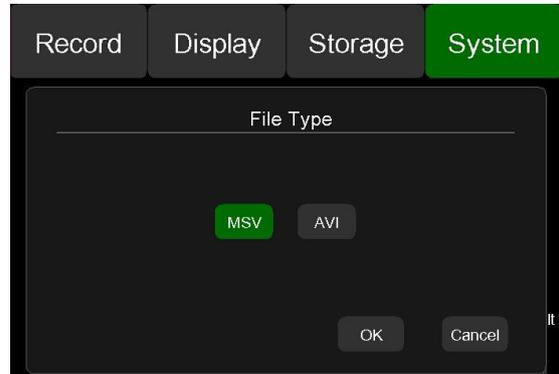
\* Add a scheduled recording with maximum of 3. Scheduled recording can be set once, daily or weekly.

\* Single scheduled recording will display as expired, completed or deleted.

- \* Overlapped scheduled recording is not allowed.
- \* Recording setting must be resumed if interrupted.
- \* Scheduled recording can be stopped by the control button for regular recording.
- \* If event recording is activated (trigger signal, motion detection, collision etc.), scheduled recording will be paused and then retrieved when event recording is finished. Scheduled recording will not be retrieved if its set time is up.



Click this icon to select file type.



Update: Click this icon to update software.

Note: System will reboot after being upgraded. Before reboot is finished (approx. 40s of dark screen) do not cut off the power, in case the device will not start due to upgrade failure.



Factory Default: "Confirm to reset?" Click this icon to restore factory setting.

## 8. Recording Time

There are 3 levels of image quality available: high, middle and low. The recording time for different image quality is as follows (4 x 128G micro SD cards to record 4 channels):

Chart 1

| Image Quality | Recording Time (H) |      |
|---------------|--------------------|------|
|               | PAL                | NTSC |
| Low           | 448                | 372  |
| Middle        | 328                | 296  |
| High          | 164                | 144  |

The 3 levels of resolution for different image quality is as follows (the high image quality has the same resolution as the middle, but has twice of the bit rate):

Chart 2

| Image Quality | Resolution |           |
|---------------|------------|-----------|
|               | PAL        | NTSC      |
| Low           | 352 x 288  | 352 x 240 |
| Middle        | 704 x 576  | 704 x 480 |
| High          | 704 x 576  | 704 x 480 |

## IMPORTANT

If you are having difficulties with the installation of this product, please call our Tech Support line at **1-800-253-TECH**. Before doing so, look over the instructions a second time, and make sure the installation was performed exactly as the instructions are stated. Please have the vehicle apart and ready to perform troubleshooting steps before calling.



### KNOWLEDGE IS POWER

Enhance your installation and fabrication skills by enrolling in the most recognized and respected mobile electronics school in our industry. Log onto [www.installerinstitute.com](http://www.installerinstitute.com) or call 800-354-6782 for more information and take steps toward a better tomorrow.



### Metra recommends MECP certified technicians

#### Attention

When connecting with power cable, please make sure not to mistake the positive and negative pole, otherwise the fuse will blow immediately for security protection. If it happens, please replace the blown fuse with a new one with same specification, after connecting properly to the right pole. Don't randomly increase the current rating of the fuse, and NEVER use metal wire as a substitute.