

*Thank you for purchasing our product.
Please read instructions before operation.
Change without Notice.*

4 / 8 CH MOBILE DVR

Quick Guide



Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK



CAUTION :

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.

Only operate this apparatus from the type of power source indicated on the label.

The company shall not be liable for any damages arising out of any improper use,

Even if we have been advised of the possibility of such damages.

Graphic Symbol Explanation



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user of the presence of insulated dangerous voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.



This exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.

Attention: installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

FCC STATEMENT

WARNING:

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received including interference that may cause undesired operation."

WARNING:

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.


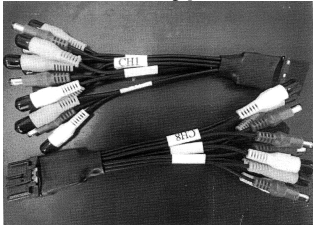


⚠ You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

CD Contents

1. User Manual
2. Quick guide
3. MRplayer

1. Package Contents

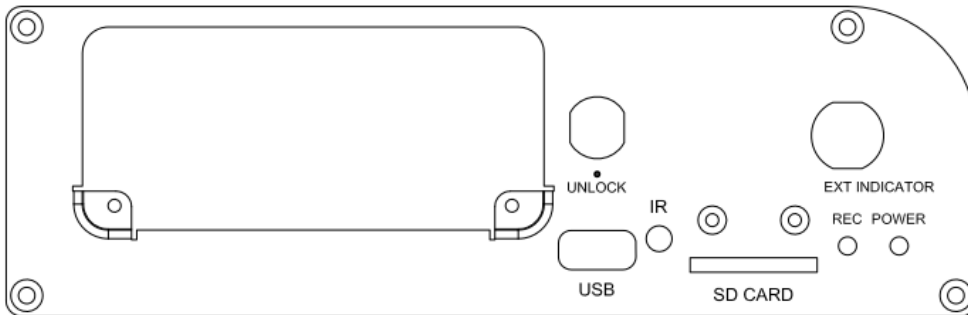
| Description | Picture | Model | |
|---------------------------------------|--|--------|--------|
| | | MR4100 | MR4101 |
| | | MR8000 | MR8001 |
| Power cable (6 pin/6m) 5A fuse X 2 |  | V | V |
| I/O cable |  | V | V |
| 3G antenna (Female) |  Pictures for reference only, actual delivery-based | V | - |
| G-Mouse (Male/5m/-159dbm) |  | V | V |
| Wifi antenna (Female) |  Pictures for reference only, actual delivery-based | V | - |
| Remote Controller |  | V | V |
| Screw x 6 |  | V | V |

| | | | |
|---|--|----------|---|
| Hard disk rack locker key |  | V | V |
| <p>Cable with 4 video input and one USB port (2pieces)</p> <p>※ There're 2 type video input cable can be chosen. One is RCA type, the other is 6 pin mini din type.</p> | <p>RCA type</p>  <p>6 pin mini din type</p>  | V | V |
| Event Box |  | Optional | |

2. Product Overview

Front Panel

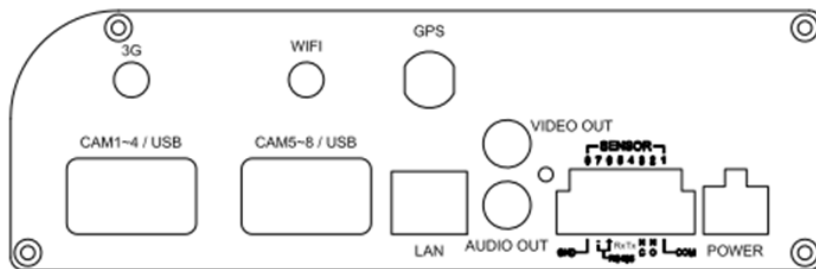
(MR4100 ; MR8000 / MR4101 ; MR8001)



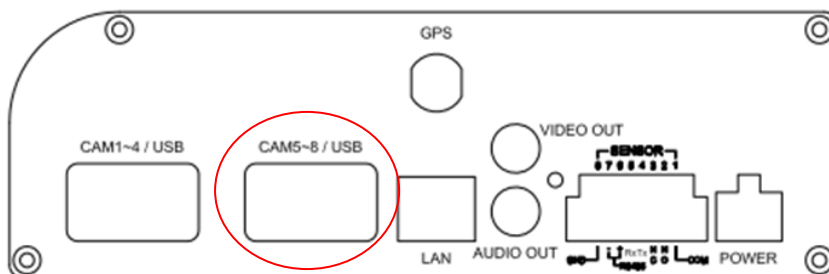
(※ Front panel USB port recommended only for USB storage, mouse recommended use the back Cable wire's USB port)

Back Panel

(MR4100 ; MR8000: with 3G / 4G / WIFI function)



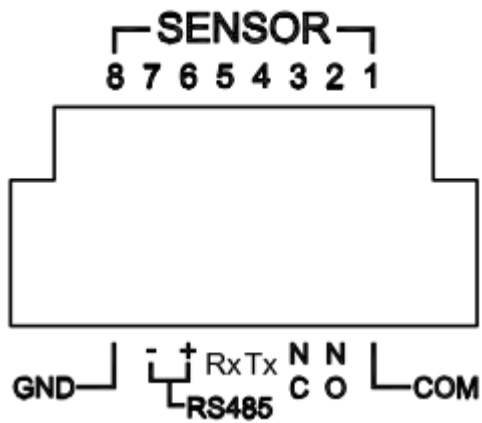
(MR4101 ; MR8001: without 3G / 4G / WIFI function)



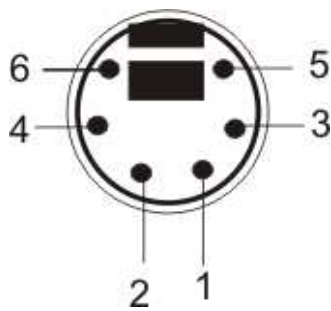
※Warning: If you purchased a 4 CH products, then there'll be only one set of video input ports.

3. Cable pin definition

a. I/O cable pin definition

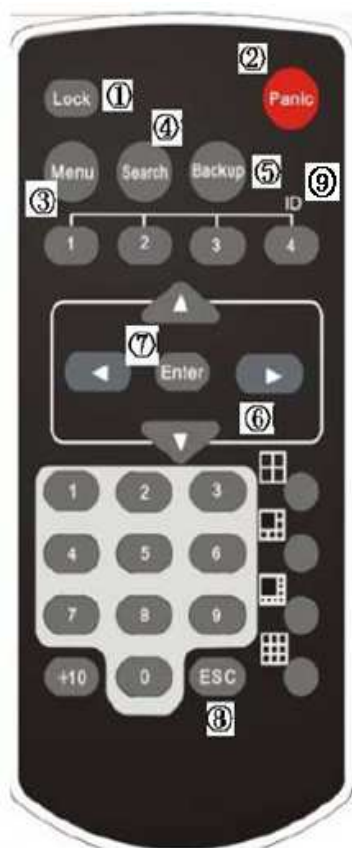


b. Mini Din Define



| Pin number | Description |
|------------|-------------|
| 1 | Not used |
| 2 | Not used |
| 3 | Audio |
| 4 | GND |
| 5 | +12V |
| 6 | Video |

c. Remote controller

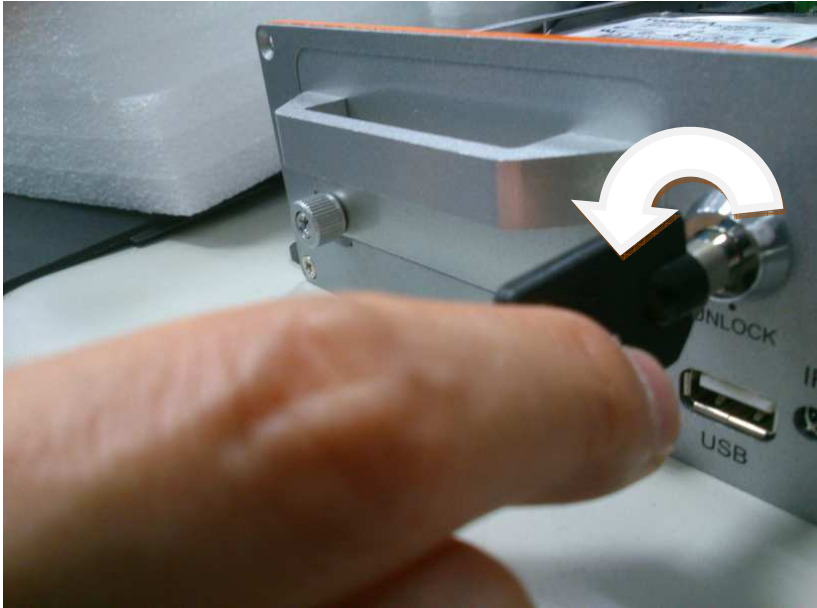


| | |
|------------------------------------|--|
| ① Lock | Lock the DVR system (need a password to unlock) |
| ② Panic | Panic record button |
| ③ Menu | Go to 'MENU' mode to setup the system |
| ④ Search | Search recorded video |
| ⑤ Backup | Backup the recorded data to other device |
| ⑥ Direction (▲, ▼, ◀, ▶) | Move cursor or control PTZ camera |
| ⑦ ENTER | Select items in system setup mode |
| ⑧ ESC | Exit |
| ⑨ IR ID | Select ID number first then select number Ex : 2-1 → select ID number 2 then select number 1 |

4. Physical Connection

a. Hard disk installation

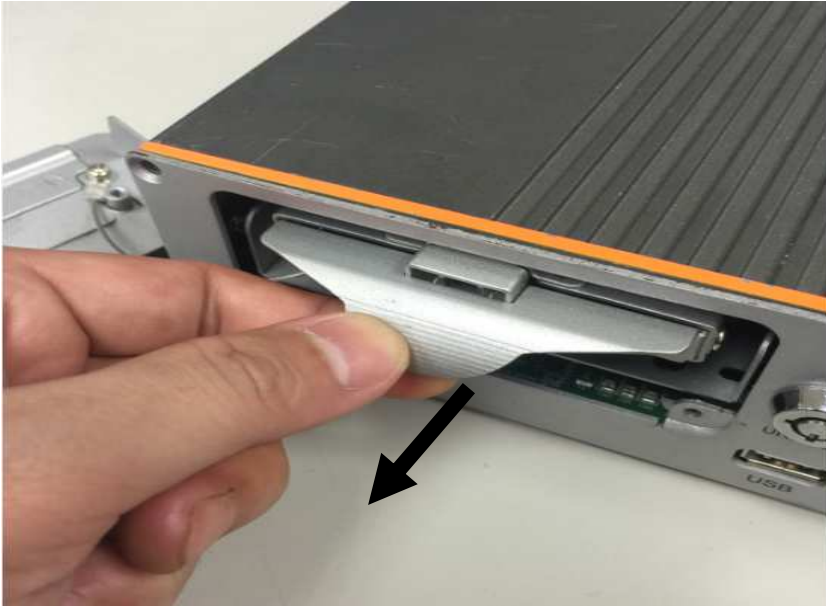
- ① Please insert the key in the front of the device and turn counterclockwise 90° to unlock.



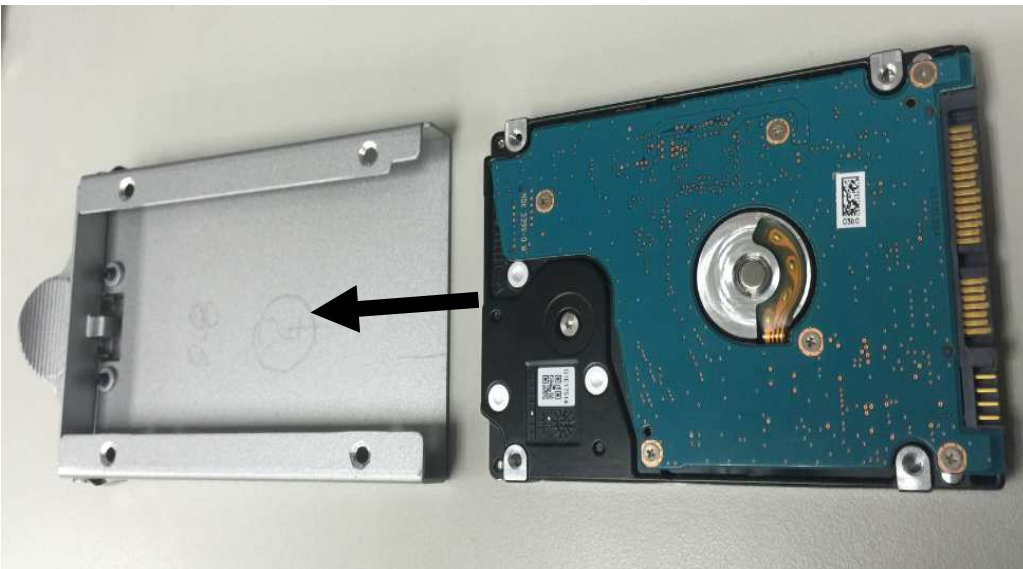
- ② Loosen the two screws and take off the cover.



③ Pull the rack out to install hard disk.



④ Turn the rack over to install HDD. Please take note of the direction and tighten HDD up by the four screws.



⑤ Set the HDD back to DVR. Please be sure you it is locked.



After you installed the hard disk, please put the rack back into the mobile DVR, tighten the two front screws and lock the rack. If the lock is not correctly done, the system won't be started up and the power led will flash.

※When HDD/SSD is installed, the bottom screen will display an Icon as .

b. SD card installation



1. Shut the power down
2. Loosen screws and open the cover
3. Insert SD card in the slot properly

※When SD Card is installed, the bottom screen will display an Icon as .

Please refer to below photo.



Icon and storage information
will be shown here.

※ To avoid problem of compatibility, please use below suggested SD cards. Furthermore, riser card to micro SD won't be accepted.

| Brand | Capacity | Level | | Speed |
|-------------------------------------|----------|----------|-------|---------------|
| Transcend (Premium-9181AA) | 32G | CLASS 10 | UHS-1 | 45MB/s (300x) |
| Transcend (C68976) | 32G | CLASS 10 | UHS-1 | 30MB/s (200x) |
| SanDisk(Ultra) | 32G | CLASS 10 | UHS-1 | 48MB/s |
| PATRIOT(LX Series PSF32GSDHC 10-PC) | 32G | CLASS 10 | UHS-1 | 10MB/s |
| SONY(SF-32UY) | 32G | CLASS 10 | UHS-1 | 40MB/s |

※ DVR only supports SD card formatted by FAT32. If use other format to record files, read/write problems may happen.

※ If the SD card is damaged, DVR will not be able to perform normal functions as recording, playback and so on.

For the time being, please use computer to format the SD card. If it is still a problem, please contact the manufacturer of SD card for overhauling or data rescuing.

※ Supports SD, SDHC and SDXC.

※ To avoid problem of compatibility, please use below suggested HDD.

| Brand | Model number | Capacity |
|---------|--------------|----------|
| Seagate | ST500LT012 | 500G |
| WD | WD3200BUCT | 320G |
| | D5000BUCT | 500G |
| | WD5000LUCT | 500G |
| | WD7500BPKX | 750G |
| | WD10JFCX | 1T |
| TOSHIBA | MK3265GSX | 320G |
| | MK3276GSX | 320G |
| | MQ01ABF050 | 500G |
| | MQ01ABD100 | 1T |
| | MQ01ABB200 | 2T |

c. SIM card installation

When you purchase your SIM card to your telecom provider, please make sure that it meets one of the following standards in order to work:

GSM 850 900 1800 1900

WCDMA 850 1900 2100

- ① Loosen 4 bolts of the top cover and open it.



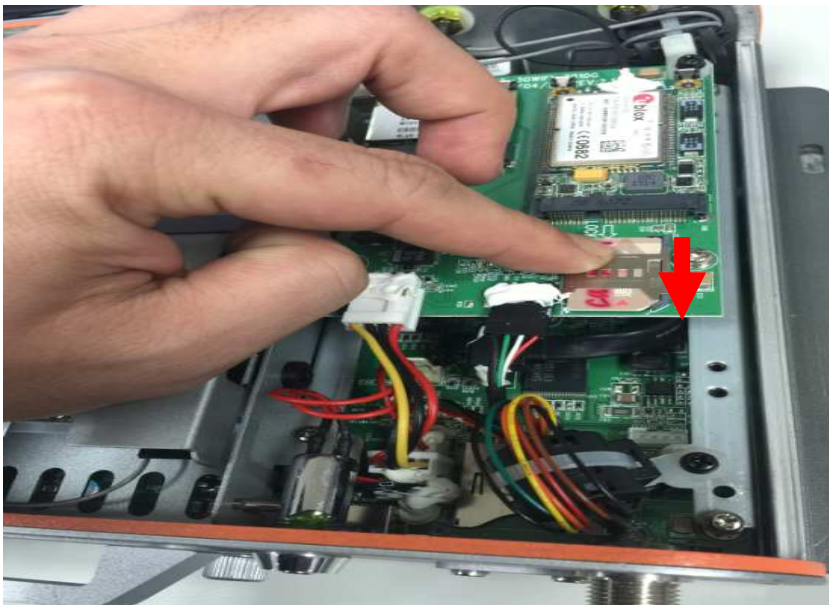
- ② Pull the SIM card socket.



③ Insert the SIM card with its gold contact facing down and as below shown.



④ Put the lid back and push it to lock.



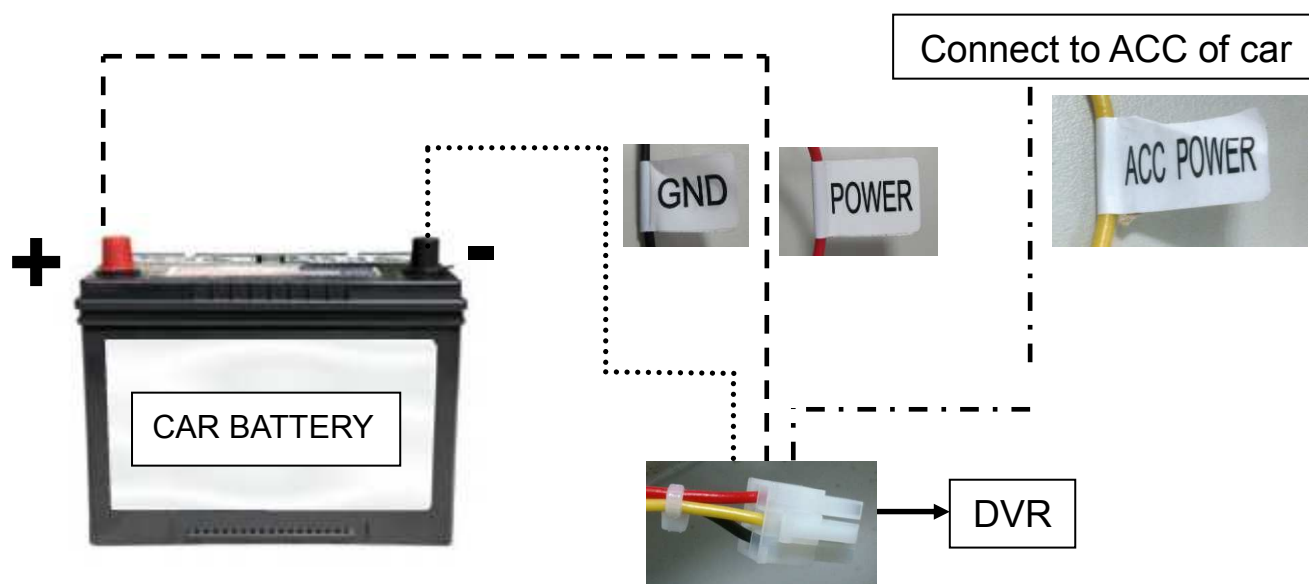
d. Indicator light

| LED Color | Description | Always ON | Always OFF | Flashing |
|-----------|-------------|-----------------------------|--------------|--|
| Red | Record | recording (Normal/Event) | No recording | Warning: device can't record · Vloss or HDD Initial fail |
| Green | Power | System ready | Power off | System booting |

e. Power Setup illustration

| Cable type | Meaning |
|-------------|-----------|
| | Ground - |
| - - - - - | Power + |
| - . - . - . | ACC power |

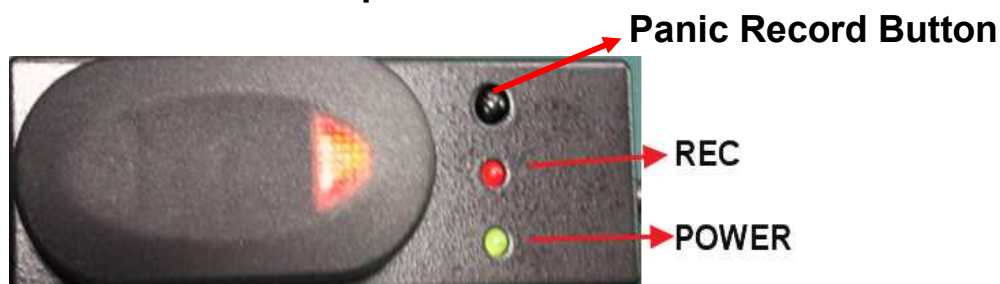
※ POWER: DC 9.6-32 V



Note: Ground and power+ cable are protected with a **5A** fuse.

Do not pull the power connector when the DVR is recording or HDD/SSD will be damaged.

f. Event Box description



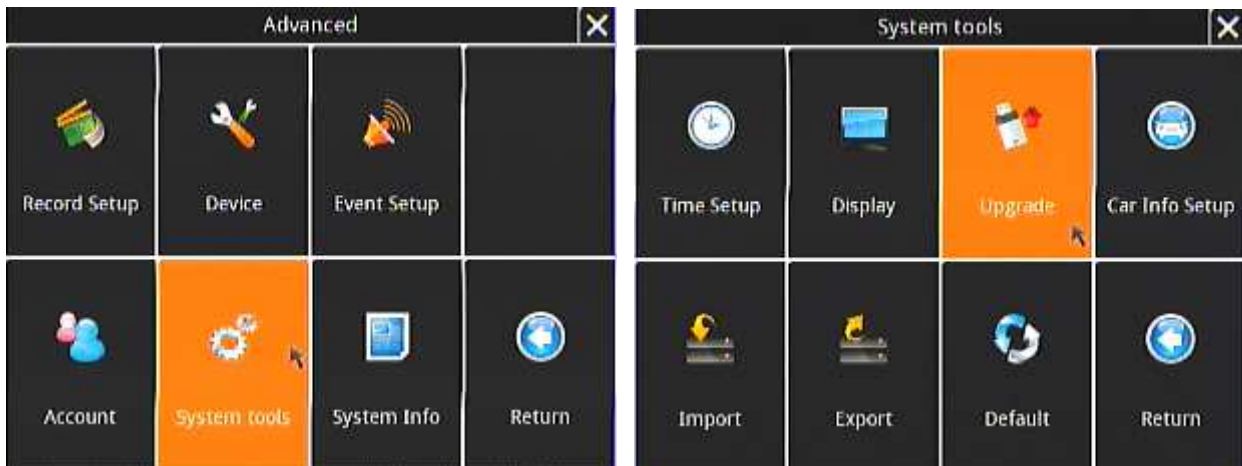
※Please refer to section “d. Indicator light” to see the definition of light.

5. Firmware Update

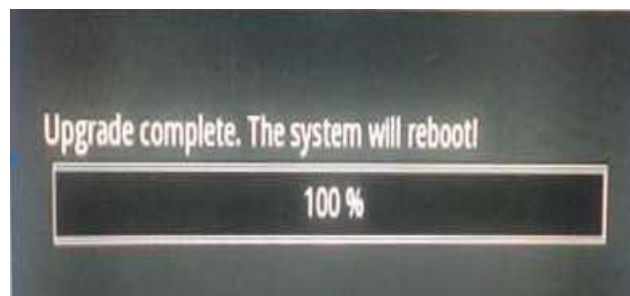
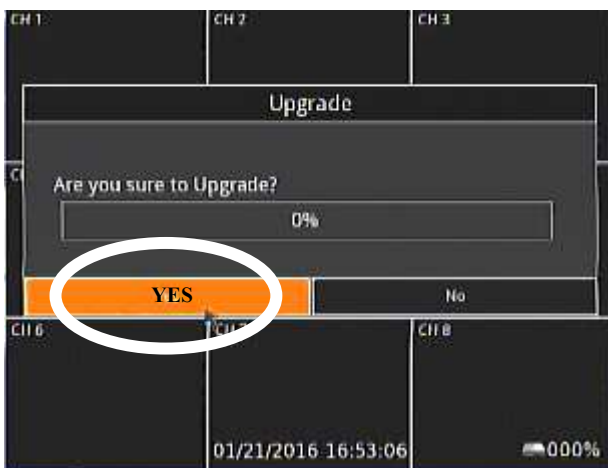
1. Please copy files image.bin to the USB driver as below. (USB driver should be formatted by FAT32).



2. Insert the USB driver into the back port of DVR and go to OSD menu> Select advanced setting> System tools > Upgrade



3. Click “Yes” to start, system will automatically reboot when it shows “Upgrade complete.”



※Do not shut power off while processing.

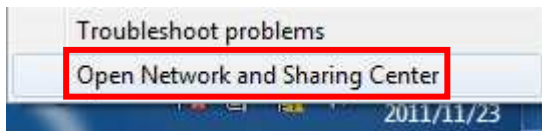
6. Setup

In order to access to the 8 channel mobile DVR with a notebook, you need to have RJ45 cross cable

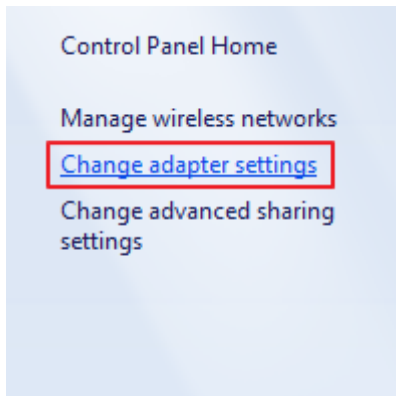
Link the notebook to the DVR with the LAN cable

It's supposed to be under windows 7

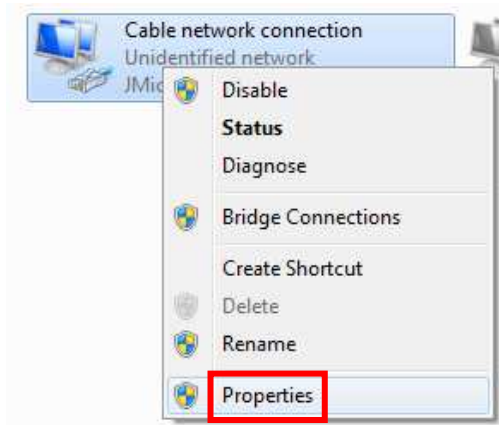
On the desktop bottom right, right click mouse on network icon then select **open network and sharing center**



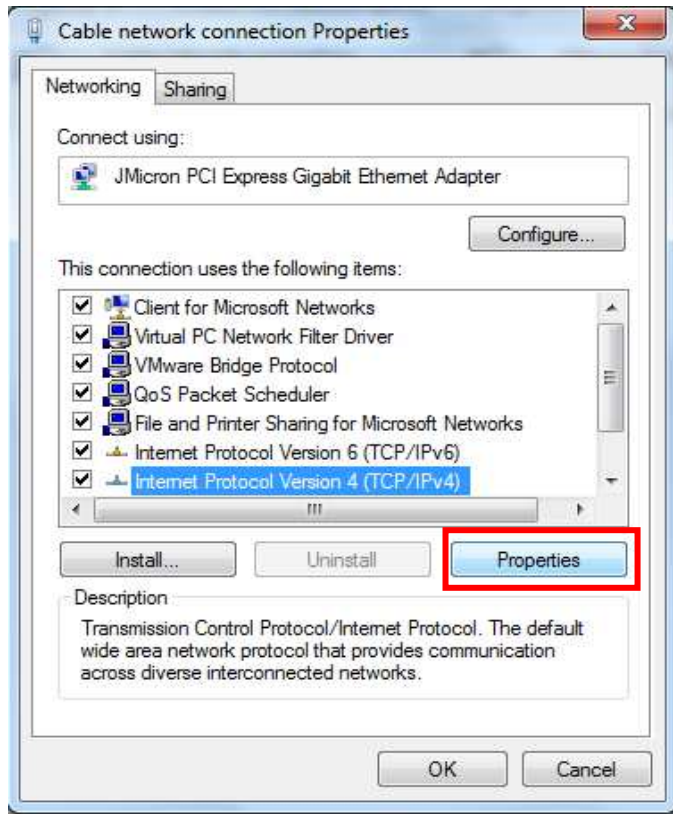
Then on the left select **Change adapter settings**



Choose your LAN wired connection then mouse right click and select properties



Then click on Internet Protocol IPV4 and click properties



As the DVR default IP is **192.168.1.99**, assign an IP address to your notebook for example 192.168.1.xxx except 99

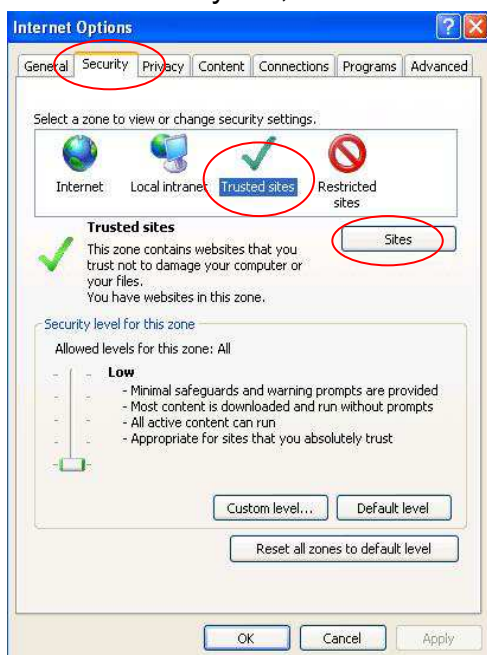
Our device supports **Internet Explorer 7, 8, 9 32 bits only, 10 64 bits**

The default IP address of the mobile DVR is **192.168.1.99**

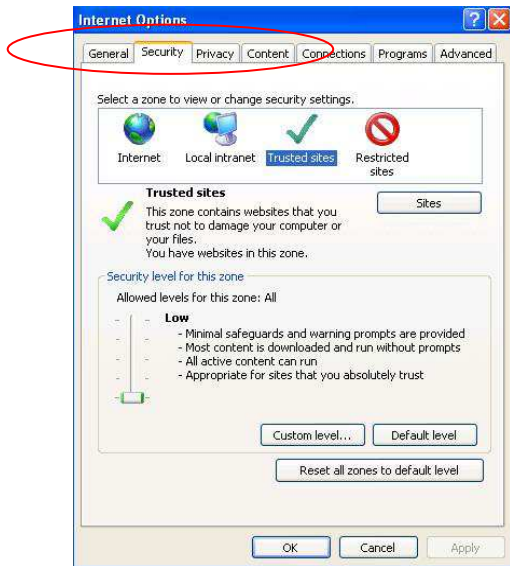
In order to install the active X you need to change your Internet Explorer settings

Open Internet Explorer, Click the Tools button, and then click Internet Options.

Click the Security tab, and then click a security zone Trusted sites. Click Sites.



The DVR IP should be shown in the *Add this website to the zone* field. Please make sure that the below option 'require server verification' is disabled. Click Add and close.



Then turn the Security level to Low and press apply
Return to Internet Explorer main page

At IE website fill the DVR IP(**192.168.1.99**)



Default administrator username/password is **“admin”/ “1111”**

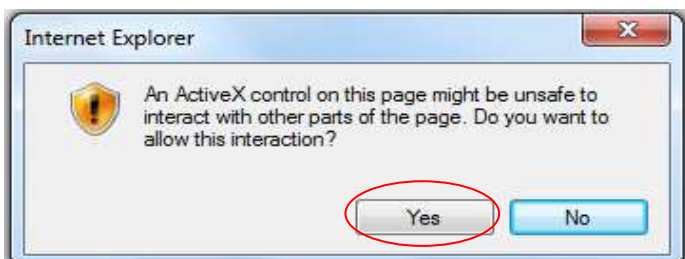
If you don't operate the car DVR after a period of time (30 minutes) you will be automatically logged out, then you need to login again with your account and password

The icon must be in blue color then please login in the DVR

Then you will have a pop up message



Press Install.



A pop up message will display, press Yes to continue.

Notice

1. When tidying up, 3G / WIFI antenna or G-Mouse wire should not be folded as the below left photo.



2. DVR cannot be installed stand or upside down as below.



3. Power+ should not be connected to ACC directly to prevent hard disk from power input.
4. Do not remove USB flash drive when updating ; otherwise, the system may not start because of data missing.
5. When moving out hard disk, operator should wait until the power light completely shut down before loosening bolts, or the last data may be missed.

- 6.** Do not cut off the DVR power off directly.
- 7.** SIM / SD card should be inserted before DVR system starting and withdrawn after completely shutting down.
- 8.** USB mouse should be inserted in the USB port on the back plate to avoid 3G (4G) network problems.
- 9.** To avoid damages of camera / DVR, please make sure the pin assignment of cable before connecting.
- 10.** Hard disk / SD card should be formatted by DVR system. In addition, the format of SD card shall be FAT32.