

Vehicle DVR System

WiFi / GPS / 3G (optional)

4CH DVR



OPTIONAL : WiFi / 3G / G-Mouxe

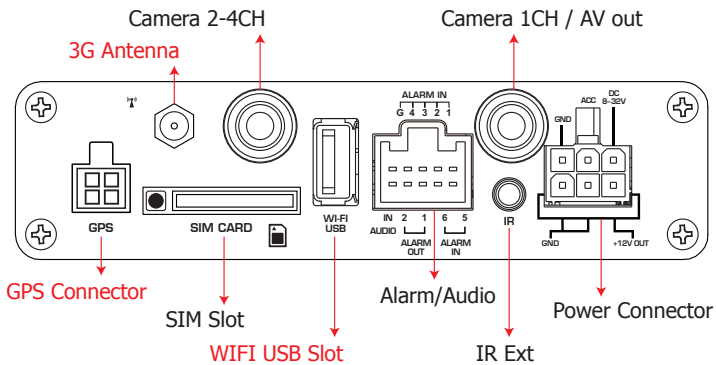
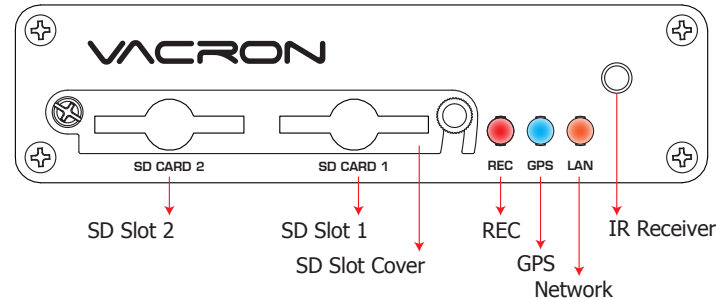
2016 JUL. V1.0



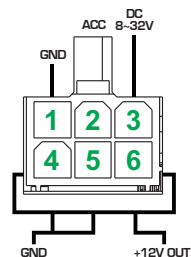
Note 1: Vehicle Camera optional, 720P and D1 camera can not be used simultaneously
 Note 2: SD Card is not included; suggest to apply Class 10 or above., 8-128G acceptable
 Note 3: No further notice for any modifications afterwards.

H12AE30401

Product Appearance



※ GPS / 3G / WiFi are optional



◆ Power Connector

1. GNDP (-)
2. ACC
3. DC8~32V IN (+)
4. Signal and DC grounding
5. Signal and DC grounding
6. DC+12V Out

Accessories

This product contains accessories as below:

- ※ Storage devices such as hard drives, memory cards are not supplied, please purchase.
 - Standard
 - Main Device / Power Cable / ALARM Cable / IR Extension Cord
 - IR Remote Control / Software Disc / User Manual
 - Optional
 - 3G Module and Antenna / G-Mouse / SD Card / Camera / Microphone pad / Camera extension cable

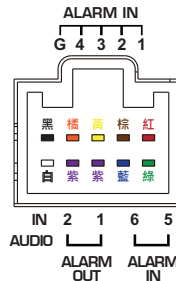
! Safety Precautions

Take and review some testing video initially to make sure the images were recorded correctly. Please note that manufacturer, its subsidiaries and affiliates, and its distributors are not liable for consequential damages arising from any malfunction of main device accessory, including memory device that results in the failure of an image to be recorded or to be recorded in a way that is machine readable. Before using the product, please ensure that you read the safety precautions described below. Always ensure that the product is used correctly.

- Please keep device away from children.
- Use only recommended power sources.
- Do not attempt to disassemble, alter or apply heat to the product.
- Avoid dropping or subjecting the product to severe impacts.
- To avoid the risk of injury, do not touch the interior of the product if it has been dropped or otherwise damaged.
- Stop using the product immediately if it emits smoke, a strange smell, or otherwise behaves abnormally.
- Do not use organic solvents such as alcohol, benzene, or thinner to clean the product.
- Do not let the product come into contact with water (e.g. sea water) or other liquids.
- Do not allow liquids or foreign objects to enter the VVR.
- Do not place the VVR near or in direct flame.
- Do not handle the power cord with wet hands.
- Do not use the equipment in a manner that exceeds the rated capacity of the electrical outlet or wiring accessories. Do not use if the power cord or plug are damaged, or not fully plugged into the outlet.
- Do not allow direct or metal objects (such as pins or keys) to contact the terminals or plug.
- Avoid using, placing or storing the product in the humid or dusty areas.

Before using 3G products, please ensure that you read the safety notifications described below.

- Company and user shall not modify certified low power radio frequency device the frequency, increase the power and change the characteristics and functions without permit.
- Use low power radio frequency device shall not affect flight safety and interfere with legal communications; when there is interference happened should be immediately suspended, and improve without interfering may continue to use.
- Legal communication means operation of radio communication in accordance with the provisions of the Telecommunications Act Low-power radio frequency device must endure the interference of legal communications, industrial, scientific and medical radiation wave equipment.



◆ Alarm/Audio Connector

ALARM IN				
G	4	3	2	1
AUDIO	ALARM OUT	ALARM IN		
AUDIO	2 (spare)	1	6 (spare)	5 (spare)

Power On / Power Off

★Before the first recording, please set the video format.

- (1) Power On
Insert SD Card into SD slot and closet SD slot lock, then turn on the power and it will take approximately 30 seconds. When lights start flashing as the recording is in progress.
- (2) Power Off
Turn off the power; please wait for 5 seconds until super capacitor without electric. Then take the SD Card out out and playback the recording files in computer.

Light Indicator

- Recording/Power Light (Red Light) :
Light Off- non-recording. Light Flashing- recording.
Rapidly Flashing-Event/Trigger recording.
- GPS Light (Blue Light) :
Light Off-GPS is not ready. Light On- GPS is locating position.
- Network Light (Orange Light) :
Light Off-network disconnected. Light On-network connected.

Two SD Card Mechanism

While both of the SD Cards are blank, the videos will be recorded in SD1;
 When both of the SD Cards have videos; new videos will be recorded in the SD Card with latest videos

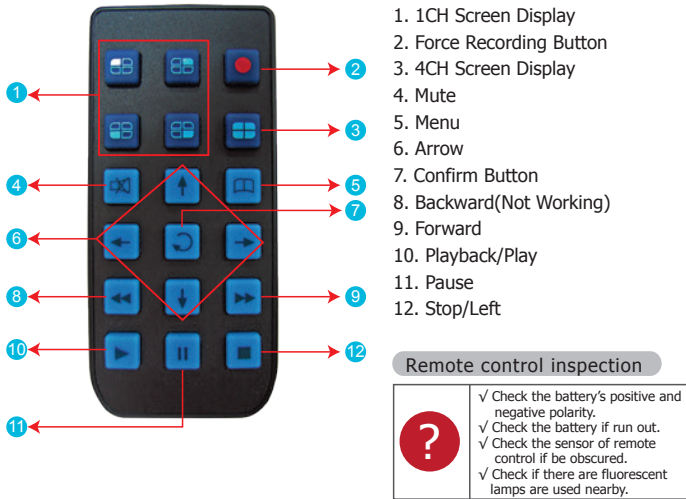
Capacity Evaluation of Continuous Recording Storage Device

Assumption of the minimum record time for Mobile DVR: 8Ch/15FPS, Statics Recording and different capacity of SD Cards.

SD Capacity	Estimated Rec Time
8G	1H
16G	2H
32G	4H
64G	8H
128G	16H

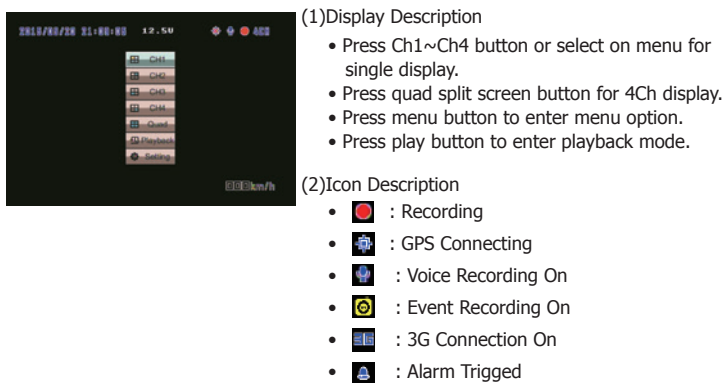
Data for reference, real recording time will be affected by different recording environment.

IR Remote Controller



1. 1CH Screen Display
 2. Force Recording Button
 3. 4CH Screen Display
 4. Mute
 5. Menu
 6. Arrow
 7. Confirm Button
 8. Backward(Not Working)
 9. Forward
 10. Playback/Play
 11. Pause
 12. Stop/Left
- Remote control inspection**
- ✓ Check the battery's positive and negative polarity.
 - ✓ Check the battery if run out.
 - ✓ Check the sensor of remote control if be obscured.
 - ✓ Check if there are fluorescent lamps are used nearby.

System Interface and Operation



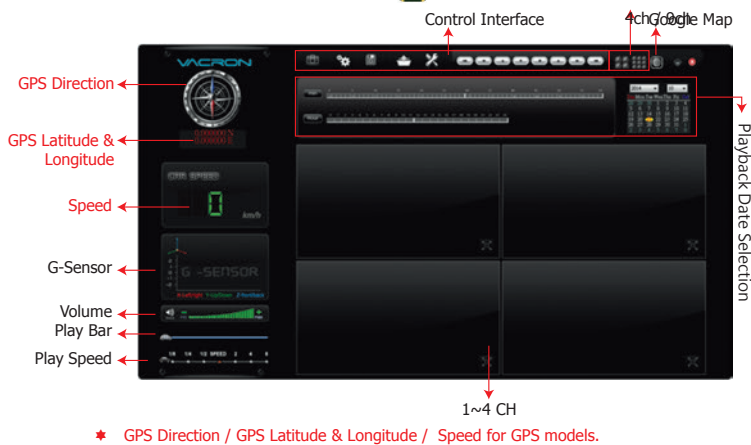
(3) OSD Menu Operation and Parameters Setup Description

Recording Setting	Recording	NTSC	720P	5-30 fps
			VGA	5-30 fps
	Frame	PAL	720P	5-25 fps
			VGA	5-25 fps
Resolution	Normal	Better	High	
Video Setting	Select 1~4CH to adjust Bright, Contrast and Color			
Time Setting	The time setting will be automatically calibrated by GPS signal. If no GPS signal, time and date can be set manually.			
GPS Setting	Select show speed and speed unit setting on live view display or Not.			
Plate Number Setting	Input range : A~Z and 0~9			
Working Mode	1. Setup channel mode when system starts. 2. Select extensional time after ACC Off 3. Sound recording ON/OFF			
Alarm Setting	Setup the mode after alarm triggered.			
System Protection	1. Low voltage protection(triggered at ACC mode) 2. Notice of SD CARD protecting.			
3G Network	3G function ON/OFF · show setting information at present(Optional)			
G-Sensor Setting	Once the function is activated, when the car collision happened, "Force Recording" mode will be automatically triggered, to prevent complete recording event not be overwritten.			
Data Backup	Select necessary files to backup.			
Restore Default	After restore default setting, machine will be restarted and cleaned original setting.			
Format SD CARD	Recording data will also be formatted at same time			
Firmware Update	Save the firmware update program into USB device and use USB device to update firmware. When update firmware please keep power supply. It will restart automatically after finishing update.			

CARBOX Player on PC

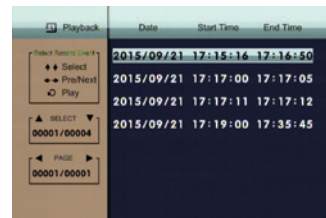
*Support windows operating system

Execute player software CarBox2.exe

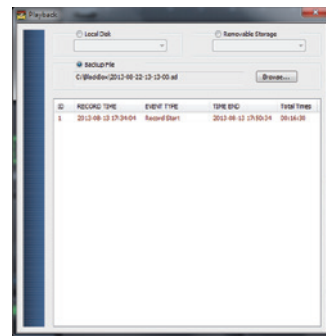


* GPS Direction / GPS Latitude & Longitude / Speed for GPS models.

Playback Mode

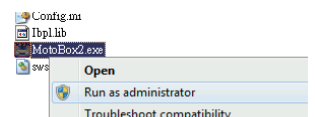


- On the Device
- (1) Click play button on the remote control during live monitoring mode, to enter playback page.
- (2) To select search type then click enter button, to enter playback list
- (3) To select the playback file, then click enter button to enter the playback video file.



- Playback on PC
- (1) To read the SD CARD with saving data on PC, then run the player software CarBox2.exe.
- (2) Click "Playback" to open playlist menu.
- (3) Select SD CARD, the video files will be shown in the playlist, Click the video file to play.

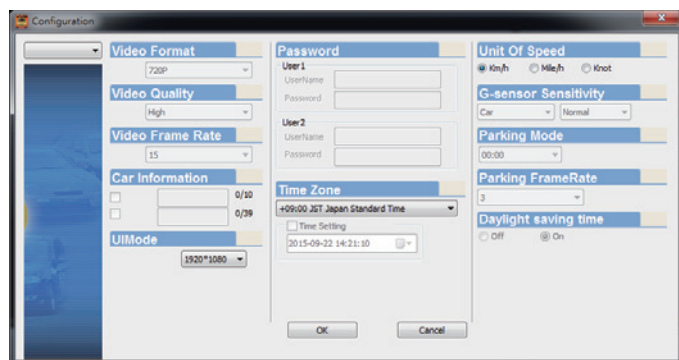
If the playback list cannot be read in Win7 system.
Solution: click right button and execute CARBOX as Administrator identity.



Configuration

Setup the SD Card Setting

Before execute this function, please insert the SD Card into your computer. When finish all setting and click "Save", all the setting will save to the SD CARD device. When you insert the SD CARD device into your DVR, the DVR will read the setting and follow the setting to start recording.



3G Client Remote Monitoring

* Support 3G models

About 3G Client complete remote monitoring operations, please refer to the operating manual.

