8 CH Vehicle Mobile DVR



2013 OCT V1.0



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.

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A. Features

- Provide Video output for playing-back mode in mainframe.
- Recording format: D1 and CIF
- User friendly player software, easy to operation.
- Overall quick search event log.
- The full recording time and date can be showing in the monitor directly.
- Auto recording after power supplied.
- Removable HDD Track compatible with 2.5" HDD or SSD.
- Firmware can be upgraded via USB port.
- Support recording audio, video, G-sensor and GPS data at the same time.
- Optional 3G module, for real time monitoring the driving statue, or talk to driver.

B. Specification

Туре	8CH Vehicle DVR			
Video Format	NTSC/PAL			
Operating System	Embedded Linux			
Video Input	8CH Input			
Max. Cam Power supplier	12V/250m			
Video Output	1CH Outp	ut		
Audio Input	1CH Input			
Audio Output	1CH Outp	ut		
Alarm Input	4 Alarm In	put		
Control Mode	GUI			
Multi-Language	English / C	Chinese / C	Others	
Diaplay Decolution	NTSC	240 fields/s (8x30 fields/s)		
	PAL	200 fields	/s (8x25 fields/s)	
Recording Resolution	NTSC	Max. 30fps@CIF (real time recording)		
	PAL	Max. 25fps@CIF (real time recording)		
Recording Resolution	NTSC	Max. 30fps@CIF (real time playback)		
	PAL	Max. 25fps@CIF (real time playback)		
Display Mode	Full Scree	n, 4 / 9 Sp	lit	
Triplex	Record / P	Playback / I	Network	
	Display	NTSC	720 x 480	
		PAL	720 x 576	
Resolution	Recording	NTSC	360x240@CIF/ 720x480@D1/	
		PAL	360x288@CIF 720x576@D1/	
Compression Algorithm	H.264(1~ 5)			
HDD	2.5"SATA HDD Caddy Max. 1Tb			

Backup Device	USB Storage or through Carbox Player
	Search Function: Time / Event
Playback Mode	Full Screen
LED Indicator	4 LED (LAN 、 REC 、 GPS 、 Power)
Signal Loss Detector	Yes
Buzzer Alarm Output	Yes
RS485	Yes
MOUSE	Yes
GPS	Yes
G-SENSOR	Yes
Network	Yes
3G	optional
WIFI	optional
IR Remote Control	Yes
Watchdog	Yes
Extended Record Mode	Yes
Power Supply	DC 8V~36V
Dimension	250mm x 174.8mm x 69.5mm
Operation Temperature	-20°C ~ +65°C
Weight	1.85kg(with bracket and HDD)

*Version updating is not going to inform, please check the on-going updating information

C. Accessories

(1) Standard

Main Device / Power Cable 6P+5A / Alarm Cable / IR Extension Cord / 16P Female / Mini-Din*2 Harness Connector / Microphone / IR Remote Control / Network Cable / Compact Disc / RS-485 Cable (2-pin)

(2) Optional

3G Module / Wi-fi Antenna / G-Mouse

D. Product Appearance

FRONT PANEL-







- 1. DC12V Out
- 2/3. Signal & DC grounding
- 4. DC8~36V vehicle power (+)
- 5. ACC control
- 6. GNDP vehicle power (-)

E. Record / Stop-Record



1. Power on / Record

Turn on the power, and it will take approximately 40 seconds to boot up. During the recorder booting up, the HDD indicator LED will start flashing as the recording is in progress.

Light indicator:

- Green light: light on, means power on; light off, means no power/power off.
- Red light: light flashing, means HDD take recording; light off means non-recording.
- Orange light: On when internet connection; off when internet disconnection.
- Blue light: On when GPS positioning is ready; off when GPS is not ready.

★ Remark: While using playback function in DVR, it cannot take live recording at that time.

2. Power off/Stop recording:

Power off also stop recording, at then you can take out HDD to read the recorded files.

F. System operating instruction

Vehicle DVR can be operated through two methods: IR remote controller and PC software application.

Through IR Remote controller instruction

1. As following is the key mapping table for IR Remote controller :



Arrow	Select the options in the menu list.		
Мори	Open the main menu or back to		
	previous page.		
Enter	Enter the menu or save the setting		
Enter	options.		
1234			
5 6 7 8	Select channel 1-8 under watching or		
Channel 1-8	review mode		
	Separate the screen to quad divisions		
Four parts switch	display		
Nine parts	Separate the screen to eight divisions		
switch	display		
Mute	Do not record the audio data		
Play	Start play under		
REC	Manual recording under watching mode		
Stop	Stop and back to up layer under play		
Stop	mode		
Pause	Pause under review mode		
Speed	Speed up upder review mode		
forward			
Speed	Speed up beekward under review mede		
backward			

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.

G. System Interface and Operation

(1) Live Monitoring Mode Display



Live Monitoring Mode - 9 split display



2013/10/01 10:32:35 5 6 7 8 ° Mile/h

Live Monitoring Mode-4 Split Display (1~4Ch)

Live Monitoring Mode-4 Split Display (5~8Ch)

- (2) Display Description:
 - Press Ch1~Ch8 button for single display.
 - Pres quad split screen button for 4Ch display.
 - Press quad split screen button repeatedly, to show Ch1~4 display or Ch5~8 display.
 - Press 9-split screen button for 9 split display.
 - Press menu button to enter menu option.
 - Press play button to enter playback mode.

- (3) Icon Description:
 - 🙆: Recording
 - SPS Connecting
 - 💵: Voice Recording On
 - Nanually Force Recording On
 - 🔄: G-Sensor Recording On
 - SG Connection On

• Mile/h: Speed Display, need to be setup on PC (For complete details, please refer to setup of HDD format) DVR OSD menu operation and IR Remote controller key mapping chart

- Menu Menu Set Plate Number Δ Set Encode Parameter Delete All Record Data Set Parking Mode Set Video Parameter Default Live View Channel Set Time Power Management ∇ Page1/5 setting Page 2/5 setting Menu Menu MDVR ID Default settings **3G Network Backup Menu** Alarm Setting Language Setting **G_Sensor Setting** Firmware Update Page3/5 setting Page 4/5 setting Menu Version Page 5/5 setting IR Remote controller Instruction (1) Select Item: [up/down/left/right] (2) Change setting for selected item: [up/down/left/right] (3) Change setting for Bar item : [Enter] (4) Full Screen display for each CH: [CH1~CH4] (5) Open OSD menu, back to previous page : [menu] (6) Quad display : [Quad]
 - (6) Quad display . [Quad]

Main menu page switch

- (7) Enter playback mode : [play]
- (8) Stop Play/exit playback mode : [Stop]
- (9) Suspend recording:[Pause]

System Setup instruction

1. Set Encode Parameter

Menu	Set Encode Parameter
<mark>Set Encode Parameter</mark> Set Parking Mode Set Video Parameter Set Time	Encode Frame Size:D1 Encode Frame Rate:15 Encode Quality:High

Recording Parameter Setup

	NTOC	D1	5-10 fps
Frame	NI SC	CIF	5-30 fps
Rate	PAL	D1	5-15 fps
		CIF	5-25 fps
Recording Quality	Normal	Better	High

2. Set Parking Mode



To setup the recording frame rate after the vehicle power off, power management function must also be setup accordingly

FPS setting, it must be less than "Recording Setup" fps setting.
Setting

Encode frame rate: 3, 5, 10, 15, 20, 25, 30, (D1 Maximum 15, CIF Maximum 30 and cannot over than original setting)

3. Set Video Parameter



- Item Setting
 - (1) Brightness: (Left key \rightarrow to reduce)/ (Right key \rightarrow to increase)
 - (2) Contrast: (Left key \rightarrow to reduce)/ (Right key \rightarrow to increase)
 - (3) Hue: (Left key→ to reduce Hue)/ (Right key→ to increase Hue)

4. Set Time



- IR Remote controller operating instruction
 - (1) Up key \rightarrow Plus one, Down key \rightarrow Reduce one.
 - (2) Left key \rightarrow Left one space, Right key \rightarrow Right one space.
- The time setting will be automatically calibrated by GPS signal.

5. Set Plate Number

Input range : A~Z, 0~9.



6. Delete All Record Data (Format Disk)



Delete All Record Data

Use right key or left key to select the selection then click "enter" to confirm.

★ Caution! All data will be deleted when you click "Yes".

7. Default Live View Channel



- Select the default live view CH after startup: Item selected will be default live view display mode after DVR booting completed.
- On this page, Use left key or right key to select Quad display (Multi-CH) or CH 1 Display, then press "enter" to confirm.

8. Power Management



- Power Management: Setup Extended Record period after Engine shutdown.
- Use IR Remote controller for setting, Click Left key to move one space for selecting time for delay-recording, then press enter key to confirm.(The delay-recording period can be 0,5,10,15,20 minutes)

9. Check MDVR ID Information (Only available when DVR with specific 3G module)



 If you need to check current MDVR ID information, please click MDVR ID and press enter key on remote controller.

10. 3G Network

Menu	3G Network
MDVR ID	3G-Service: <mark>ON</mark>
3G Network	UserName:
Alarm Setting	Password:
G_Sensor Setting	Port:13579
3G Network	3G Network
Server :taipei3g.mobilek 🔺 🥻	DialNum :*99# 🔺
ore.com	APN :internet

- Press the right or left button, to select 3G Network on or off.
- After finishing the setting, press enter button to save the setting.
- Please refer to 3G network parameter setting for any further setting.

11. Alarm Setting

Menu	Alarm Setting
MDVR ID 3G Network Alarm Setting	Alarm 1 : <mark>Off</mark> Alarm 2 : Off Alarm 3 : Off
	Alarm 4 : <mark>Uff</mark>

When the alarm is triggered, the screen should display which CH is triggered. Press the right/left button on remote controller to select channel, then press the "confirm" key set the channel.

- ★ Check the explanation of back panel, in order to facilitate triggering alarm information setting.
- ★ Alarm system works only after finishing both hardware and software setting.

12. G-Sensor Setting



- ♦ G_Sensor options : On \ OFF.
- G_Sensor Mode : Sedan mode
 Truck mode.
- ▶ G_Sensor sensitivity options : Min \ Low \ medium \ High \ Max.
 - \star Once the function is activated, when the car collision happened,

[©] Force Recording ^a mode will be automatically triggered, to prevent complete recording event not be overwritten.

13. Default Settings



Make sure if update complete through using controller.

14. Backup Menu



To backup files by select the playback file in the playlist or by date; to enter "Sure" button, to backup by entering playback mode.

16. Language Setting

Menu	Language Setting
Default settings 🛛 🔏	Language: English
Language Setting	
Firmware Update	

- Only for the model without 3G function
- Language Setting: English/ Traditional Chinese / Japanese/ Korean / Russian /Spanish / German

17. Firmware Update

Menu	Firmware Update
Default settings A Backup Menu Language Setting	Don't Power Off in Updating Can't Find Update File! No Yes
Firmware Update	

- Before execute, please save the firmware files to the USB device, and insert the USB device into DVR
- DVR can not interrupt power source when updating the firmware. After firmware update, the DVR system will reboot automatically.

18. Version



 You can check the firmware version here to make sure if you need to update the firmware

H. Playback

Playback Method: Live screen on the device or on PC

- On the device
 - (1) Click play button on the remote control during live monitoring mode, to enter playback page.
 - (2) Click play button on the remote control, to enter playback page.

File	Backu	р		
Please enter date				
<mark>2013</mark> /12/17	Sure			

(3) To select search type then click enter button, to enter playback list

5	Select De	code Items	
Start Reco	rd Time	End Record	Time
2013/10/01	09:00:42	2013/10/01	09:01:35
2013/10/01	09:01:38	2013/10/01	09:01:52
2013/10/01	09:02:19	2013/10/01	09:07:41
2013/10/01	10:37:36	2013/10/01	10:38:43
2013/10/01	10:38:48	2013/10/01	10:41:17
2013/10/01	10:41:32	2013/10/01	10:41:37 👿
Page 00001		Total Pages	s 00002

- S : Manually Forced Recording
- I G-Sensor Forced Recording
- (4) To select the playback file, then click enter button to enter the playback video file.
- Playback on PC: To enter playback by unplug and read HDD
 (1) To read the HDD with saving data on PC, then run the

player software CarBox2.exe •



to enter playlist menu

(3) To select HDD, the video files will be shown in the playlist, Click the video file to play.

🔁 Playbac	k	-			X
		🔘 Local Disk	•	© Removable Storage	
		Backup File			
		C:\BlackBox\2013-08-22	2-13-13-00.sd	Brow	'se
	ID	RECORD TIME	EVENT TYPE	TIME END	Total Times
	1	2013-08-13 17:34:04	Record Start	2013-08-13 17:50:34	00:16:30

Playback List Display

I. Carbox Player on PC site

1. Through Carbox Player on PC site

(1) Use HDD to playback directly

Execute the CarBox2.exe from CD-ROM, the display as showing below. Click Play button to select HDD; or click open file to choose the files from hard disk, and then double-click the file you want to play. Under playing mode the play key will switch to play.

★ Caution: It needs to install DirectX 9.0 or above before running CarBox2 software.

2. Operating instruction

Viewer interface schematic



GOOGLE Map

★GPS Coordinate, Speed and Google Map (select models with 3G modules)

(1). Control interface description



ð	Snapshot
**	Configuration
	Disk backup
+	Playback
×	Tool, HDD format, language setting.
	Previous File
-	Previous Frame
\mathbf{f}	Backward Play
	Pause
	Stop
	Play
*	Next Frame
*	Next file

(1). Snapshot



Capture : Screen shoot

- Click the icon to capture the footage screen. The Image will be save as .bmpfile format.
- Player will show the backup folder automatically. The default directory is the Snapshot folder. (Under the Player installation folder)

Organize 👻 🔚 Preview	-	Slide show	Print	Burn	New folder	
★ Favorites ■ Desktop ↓ Downloads ₩ Recent Places	d ing d ing	2010-11-03-1 2010-11-03-1	5-16-05_c 5-16-05_c	h0.bmp h1.bmp		

(2). Configuration

Configuration: Setup the general setting.

Before execute this function, please insert the HDD device into your computer. When finish all setting and click

[©] Save ["], all the setting will save to the HDD device. When you insert the HDD device into your DVR, the DVR will read the setting and follow the setting to start recording.

🚰 Configuration - [J:\] Warning: last config is damaged		×
	Video Quality	Password User1 UserName	Unit Of Speed
	Video Frame Rate	Password User2 UserName Password	G-sensor Sensitivity
	Video Format D1 Car Information	Time Zone Local System TimeZone Time Setting 2013-10-01 09:37:05	Audio Recording
		Copy Save Cancel	

1	Image Quality	Video Quality High High Normal Low	Choose the resolution: High / Normal / Low
2	fps	Video Frame Rate	Set the fps D1 resolution : 5~15 CIF resolution : 5~30
3	Image Format	Video Format	Two format: D1 / CIF
4	Car Information	Car Information CAR-ZH8888	Car License, Driver (For Company car, Taxi, or fleet)
5	Password	Password User1 UserName CAR-1234 Password ••••••••••••••••••••••••••••••••••••	Encrypt the HDD device to prevent others who not permitted to access the HDD device. String length: 15 character. After setting the password, all actions, like Playback footage, setting, format HDD device, need the password. ★ Note : Upper character and lower is different.
6	Time Zone	Time Zone -12:00 BIT Baker Island Time Time Setting 2013-08-22 13:40:54	GMT setting, to adjust the time zone. (need GPS signal to adjust the accurate time zone automatically) If choose 「Time setting」, you need to set the time by yourself.
7	Copy Player to Storage	Copy Me To Storage	Copy all Player' related files to Storage

9	Speed Unit	Unit Of Speed ◎ Km/h ◎ Mile/h ◎ Knot	Set the speed unit Km/hr Mile/hr Knot
10	G-sensor Sensitivity	G-sensor Sensitivity	G-sensor sensitivity setting mode Sensitivity setting : (Min/Low/Normal/High/Ma x)
11	Audio Recording	Audio Recording	Set Audio Recording off or on.

(3). Backup

Backup folder: Choose the folder that backup file will save.

You can backup the footage on the HDD device to your

computer for data backup. Choose icon to start the backup function as the following :

🔁 Backup						-	×
	© Local Disk	v	C Removable Stor	age	Setting		
	Backup File		B	-0W58	Backup Audio	✓ CH1	✓ CH2
				owsen.	Backup Format	RAW Backup	File(*.sd)
I	ID RECORD TIME	EVENT TYPE	TIME END	Total Times			
					Record Start	1970-01-01 0	8:00:00 🚖
					Record End Time	1970-01-01 0	8:00:00 ≑
					C:\BlackBox		Backup Path
							Backup

<u>Step1</u>.Choose the Local Disk, Removable Storage or Backup File.

🔘 Local Disk	© Removable Storage	
F:\		Ψ
Backup File	 	
	Browse	

<u>Step2</u>.Choose the file you want to backup on the HDD device.

	ID	RECORD TIME	EVENT TYPE	TIME END	Total Times
		2013-08-13 17:34:04	Record Start	2013-08-13 18:26:27	00:52:23
	2	2013-08-13 18:26:27	G Sensor By Not Ov	2013-08-13 18:26:46	00:00:19
L					

Step3. Choose backup file audio and format

Setting		
Backup Audio	CH1	CH2
	CH3	CH4
Backup Format	RAW Back	up File(*.sd) 🔻
	RAW Backu AVI Backup	up File(*.sd) File(*.avi)

Backup format :

SD format



AVI format



Note : *.sd format file contain image/ speed/ location and G-SENSOR data. *.avi format only can backup the video and audio. We recommend you backup as *.sd format.

<u>Step4</u>.You also can choose a period to backup the footage during the period.

Record Start	2013-08-13 17:34:04	* *
Record End Time	2013-08-13 17: <mark>50</mark> :27	▲ ▼

<u>Step5</u>.Choose the backup folder.



Step6.Start to backup.



Step7. Backup Completed.



(4). Playback

Playback the footage: Choose the file in HDD device or in the computer to playback.

Playba		Local Disk Backup File C:\BlackBox\2013-08-22	v 2-13-13-00.sd	© Removable Storage	:	1.	Choose the Local Disk, Removable Storage or Backup
	ID 1	RECORD TIME 2013-08-13 17:34:04	EVENT TYPE Record Start	TIME END 2013-08-13 17:50:34	Total Times 00:16:30	2.	File Choose the file

(5). Format

Format : Format the storage and Restore the storage format to windows format. Language setting, Firmware version. For Format and restore storage, please reference the next item.

😤 Please selected valid Disk	x
© Removable Storage [€:\ ▼	
Format And Clean Record Data	
Format	
Restore Full Disk Space	
Language Setting English 2013-09-27 V2.0.6.43]

(6). Playback date selection



Selecting by Hours/Minutes (24-hours)

(7). Latitude & Longitude Coordinates



- (1) X: The G-force from left & right of the car.
- (2) Y: The G-force from front & back of the car.
- (3) Z: The G-force from upside & downside of the car

(10). Volume control



Volume BAR: Click the left button of mouse control to adjust the volume degree.

(11). Video Search



Video Searching : You can use the mouse to drag the bar to search the video quickly.

(12). Video Search & Play Speed



Play Speed: Support 2x, 4x 8x fast forwarding and -1/2x, -1/4x - 1/8x slow play mode.

J. HDD Format

When should you format the HDD? For brand new HDD or an used HDD which is used in other equipment before, it should be formatted before using.

(1) Format in your computer

Step1. Connect the storage device / hard disk to PC. Execute the CarBox2.exe software (bundle in our product CD)

<u>Step2.</u> Select the path of HDD, and click "Format" to start formatting.

Please selected valid Disk				
Removable Storage G:\				
Format And Clean Record Data				
	b. Format			
Restore Full Disk Space	Restore			
Language Setting English	Current Version 2013-09-27 V2.0.6.43			

Step4. Windows pop up the menu as follows and ask you to answer "Start to Format this device?", Please make sure the disk drive is right, then press "Yes".



Step 5. When the format procedure finish, the following pop window will show on your screen.



(After format, re-plug the storage device, then you can set up related parameters and save. After setting, Install the HDD into the DVR and it can start to work.)

- (2) Process to Format the HDD on DVR:
 - 1. Use remote controller to enter DVR menu and choose Delete All the Record Data(format disk).



3. When the screen back to LIVE mode ,the formatting is completed.



K. Restore Storage Device

- Q. When you need to restore the Storage?
- A. If the storage device(HDD) will be used in other purpose.,

please back-up record footages to PC firstly and then restore it.

<u>Step1.</u> Connect the storage device (hard disk) to PC. Execute CarBox.exe \bigcirc , one click \bigcirc to enter the following page.

Step2. Choose the Storage, then press 『Restore』

Please selected valid Disk				
Removable Storage G:\				
Format And Clean Record Data				
	Format			
Restore Full Disk Space				
Language Setting English	Current Version 2013-09-27 V2.0.6.43			

<u>Step3.</u>The following window will pop up, Click [®]Yes [』] to start restore the Storage.



<u>Step4.</u>Now system will pop up the window to proceed the format procedure, please choose "Quick format ".

then click Start .

apacity:	
81.2 MB	,
ile system	
FAT32	
Allocation unit	t size
1024 bytes	
/olume label	vice defaults
/olume label Format opti	ons
Volume label	ons
Volume label Format opti Quick Fo	ons rmat n MS-DOS startup disk
Volume label Format goti Quick Fo	ons rmat n MS-DOS startup disk
Volume label	ons rmat n MS-DOS startup disk
Volume label	ons rmat n MS-DOS startup disk

Step5. Click 「Yes」 to start formatting the Storage



Step6. Click "OK" to finish restore HDD device.

Formatting Secure Digital Storage Device (G	5:) X
Format Complete.	
	ОК



L. 3G Internet Setting

(1) SIM card settingDuring using SIM card, the protected pin code must be turned off, please refer to the following steps.(For example like HUWEI CHT-E180 model, 3.5G USB wireless adaptor)

<u>Step1.</u> Plug in SIM card into 3G dongle then connect 3G dongle to PC, the system will automatically execute Mobile Partner



<u>Step2.</u> Once enter the system, go to Tool-> PIN operations-> Disable PIN Verification

😨 Mobile Partner	
<u>File Operation</u> <u>Tools</u> <u>H</u> elp	
Connect Enable PIN Verification Disable PIN Verification Disable PIN Verification Diagnostics Disable PIN Verification Uptions Egter PIN Unlock PIN Uptions Profile Name: 中華電信]
Till HSPA Chunghwa 🛛 🚈 🏫 0.00 kbps 🕂 3.10 kbps	1

<u>Step3.</u> Input the correct PIN numbers, Default Setting: 0000

Disable PIN Verification	×
Current PIN:	

Remaining attempt(s): 3	
OK Cancel	

<u>Step4.</u> After input PIN numbers, it will have a pop-up message to complete disable PIN numbers



<u>Step5.</u> After complete these steps, reinsert SIM card to the socket on the device to activate.

(2) 3G-Network Setting

1.1 Please double click

Setup the relative parameter of 3G-Network.

BC MDVR 3G Net Config Tool

setting page as below:

and open the

🔒 3G Config Tool	
Removable Storage	
	~
- 3G Net Configuration	
UserName:	
Password:	
Server Address:	
Server Port:	13579
APN:	
Dial-Up Number:	
3G On/Off:	
Apply OK	Cancel

2.2 The explanation for setting up:

🏭 3G Config Tool	
Removable Storage	
H:\	~
C G Net Configuration - Loaded!	
UserName:	
Password:	
Server Address:	61.221.66.200
Server Port:	13579
APN:	internet
Dial-Up Number:	*99#
3G On/Off:	V
Арріу ОК	Cancel

- UserName: No need in common
- Password: No need in common
- Server Address: Enter Server IP address setting----Default Server IP Address is 61.221.66.200
- Server Port: Default Sever Port is 13579, Not recommend to change the original setting).
- APN: 3G APN, generally preset to be Taiwan Telecommunication providers, if in other area, Please check local Telecommunication providers offered APN setting name.)
- Dial-Up Number: 3G Dial-Up Number, generally preset to be *99#, if in other area, Please check local Telecommunication providers offered 3G Dial-Up SETTING Numbers.
- 3G On/Off: To choice whether star the 3G tele-connecting function or not. "Pick" (V) mean "Star" commonly, if not willing to use teleconnecting function, please directly neglect it.

2.3 After finishing all the input information, click "OK" to save the information into USB drive. Click USB drive to check if the file already exists. (File name is net3g.ncf)

2.4 Insert USB drive into DVR USB port then restart; after restart, if the parameter is successfully configured, the system will automatically restart in 10 seconds.

2.5 After the system restart, please go into 3G Network in the main menu to check if the parameter is successfully configured.





(Once the configuration is done, it will show the information on the screen)

M. 3G client software for viewing directly(select models with 3G modules)

Executive Playback software "3G ClientApp.exe³", the playback screen shown as below. Enter the username and password and then press "Login" button to login screen.

3GPlatform Client Login 🛛 🗙	
User Login	٦
UserName: bus	
Password: *****	
🗹 Remember Password 📃 Auto Login	
NetWork Login Close	
- Network Configuration	
CenterServer Address: 61.221.66.200	
CenterServer TcpPort: 24680	
CenterServer UdpPort: 24681	

★ Note: To perform this software will require DirectX 9.0 or more.

User Name	User Account Name
Password	User Account Password
CenterServer Address	3G Server IP Address (Default: 61.221.66.200
CenterServer TcpPort	Server TCP Port (Default: 24680)
CenterServer UdpPort	Server UDP Port (Default: 24681)

(1) Live view



- Equipments list display all the connecting equipments. Be able to play real-time image form all channels. Lift click mouse to open equipment channel than click on chennel to view the real-time image.
- Device List





• Split screen display mode button



N	Single display	Œ	Quad display	
	9 divisions display	Ē	16 disvisions display	
M	Muti-divisions display,25/36/49/64			

<section-header>

Live View- Quad Channels Display



• Live View Function buttons



	Recording	Signle snapshot as AVI file
Ð	Snapshot	Snapshot
æ	Auto-flip	Auto flip to next page
	Stop auto-flip	Stop auto-flip to next page
	Monitoring Status	Save the current live viewing channels to be able to retrieve it next time
	Go to previous page	Manually go to previous page
	Go to next page	Manually go to next page

1. Recording: To record the selected channel, the red recording signal will show up at the bottom of the screen.



2. Snaptshot: To take the snapshot of the selected channel, it will automatically go to the saving directory.



- 3. Start Auto-flip: Once auto-flip is triggered, it will go to next page in a period of time.
- Stop Auto-flip: Auto-flip function will stop. Auto-flip time setting, please go to Setting->Page 1->Auto flip period

Page-Once the time is up, it will automatically go to next page



5. Monitoring Status: To save the current live channels, input the status name then save it; next time when you log into 3G client software, you could click the saved status name to watch.



LiveView	v Status	
ID	Name	
1	AAA	LiveView Status Name:
		Save
		Delete
		Play

6. Manually select page: Manually select the previous or next page



 Live View Interface To select different display mode: Event/Dev List/Map to show different status.

1. Event	
Time	Info
[2013-12-17 09:43:18] [2013-12-17 09:43:18] [2013-12-17 09:44:14] [2013-12-17 09:44:14] [2013-12-17 09:44:14]	Connecting Version Error V1.0.4 Disconnect Connecting Connected
Event Dev	List Map

2. Dev List

Time	Info		
[2013-12-17 09:43:18] [2013-12-17 09:43:18] [2013-12-17 09:44:14] [2013-12-17 09:44:14] [2013-12-17 09:44:14]	Connecting Version Error V1. Disconnect Connecting Connected	0.4	
Event Dev	/ List	Мар	



(2) Electronic Map

% G-Mouse must equiped with Device to have GPS function to provide positioning information Once positioning is done, you could use the mouse to click the device for current position.





Without GPS function.

With GPS function Device Positioning.



To select different display mode: Event/Dev List/Map to show different status.

Time	Info
2013-10-03 10:15:05 2013-10-03 10:15:05 2013-10-03 10:15:06 2013-10-03 10:15:07 2013-10-03 10:15:12 2013-10-03 10:15:15 [2013-10-03 10:15:16] [2013-10-03 10:15:16]	[CARG0109 - 皖13658] GPIO 0 Alarm: Serial = 2318839 [CARG0109 - 皖13658] GPIO 0 Alarm: Serial = 2318840 [CARG0109 - 皖13658] GPIO 0 Alarm: Serial = 2318841 [ST000706 - Ducnhatlongan] GPIO 2 Alarm: Serial = 2318842 [TC002814 - 萩瞻貧◀] Online [CARG0102 - 萩瞻貧◀] Online [TC002766 - □眠] Offline [HT000396 - 28-3] Offline
Event Dev	/ List Map

2. Dev List

Vehicle Id	Driver	Speed	UpdateTi	me	
61C-005.22	Not specified	0 Km/h	2013-10-	03 10:35:16	
Casa particular	Not specified	GPS not valid	2013-10-	03 10:35:17	
Pq Campinas	Not specified	0 Km/h	2013-10-	03 10:35:18	
銘哲	Not specified	0 Km/h	2013-10-	03 10:35:16	
Kenh 17	Not specified	GPS not valid	2013-10-	03 10:35:15	
HT000256	Not specified	3 Km/h	2013-10-	03 10:35:17	
602-QQ	Not specified	0 Km/h	2013-10-	03 10:35:16	
jkjk	Not specified	0 Km/h	2013-10-	03 10:35:16	
373	Not charified	0 Km/h	2013-10-	03 10:35:13	
Event	Dev List	м	ар	Live View	



4. Live View



(3) Route

% G-Mouse must equiped with Device to have GPS function to provide positioning information

To display the positioned device at the track, you can notice the traveling route of the vehicle.



 Device Positioning Information Select the positioned device on the list, then it will show its current position and traveling route on the man



Tracking Route Search Choose Date and Car Name/ID to search the data



Remote Live View Message Interface Mode: Event/Dev List/Map/Live View **Event** 1

	11			
Time	Info			
[2013-12-17 09:43:18]	Connecting]		
[2013-12-17 09:43:18]	Version Err	or V1.0.4		
[2013-12-17 09:44:14]	Disconnect	:		
[2013-12-17 09:44:14]	Connecting]		
[2013-12-17 09:44:14]	Connected	l		
Event	Dev List	Мар	Live View	
	<u> </u>			

2.	Device List		
Vehicle Id	Driver	Speed	UpdateTime
47B-01140	Not specified	0 Km/h	2013-12-17 09:58:49
51001612	Not specified	U Km/h	2013-12-17 09:58:50
38 AB 033	Not specified	0 Km/h	2013-12-17 09:58:51
DL1PC-8928	Not specified	0 Km/h	2013-12-17 09:58:50
Ducnhatlongan	Not specified	0 Km/h	2013-12-17 09:58:51
ST000147	test	GPS not valid	2013-12-17 09:58:48
60C-02207	Not specified	53 Km/h	2013-12-17 09:58:47
ST001322	Not specified	GPS not valid	2013-12-17 09:58:46
HT000250	Not coacified	CDS not valid	2013-12-17 00:58:40
Event	Dev List	: Ma	ap Live View



4. Live View



(4) Set

Page 1

Setting the FPS, recording function, auto turn over page, and language.

Live View Electronic Map	Route Set	Remote PlayBack [ST001010 - schoo-Bus-ST001010] Offline
Local Set	Page1 Page2	Note: More buffer times has more delay, but more smoothing.
	Record Setting Record Path: Record Duration(Seconds): Disk Free Space(MB):	C:\Documents and Settings\hung741031\桌面\192.160 5 0: Not Limited 300 Total Space: 149,997 MB
	Snapshot Setting Snapshot Path:	C:\Documents and Settings\hung741031\桌面\192.166 Browse
	Cycle Page Auto-Change Duration(Seconds): Language: Language:	10 English
Version:1.0.4.15		Refresh Save Default

 Video Buffer Setting Real-Time-> Higher frame rate Smooth-> Higher video resolution

- Video Butter Settino		
Real-Time	Smooth	Note: More buffer times has more delay, but more smoothing.

2. Recording Setting Record Path, Record Duration (Seconds), and Disk Free Space(MB) are the relative options.

Record Path:	C:\Documents and Settings\hung741031\My Document Browse
Record Duration(Seconds):	60 0; Not Limited
Disk Free Space(MB):	300 Total Space: 149,997 MB

3. Snapshot Path Set the path after snapshot

Snapshot Setting		
Snapshot Path:	C:\Documents and Settings\hung741031\My Document	Browse
🗹 Open Path After Snapshoted		

4. Auto-Change Duration (Seconds) Set the duration in seconds of auto-change page.

•

Cycle Page	
Auto-Change Duration(Seconds):	10
5. Language	

Chinese (Taiwan)

5. Language

Set	language	e display
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CEletterm Client Application	Setting 3G function,	recording, and e-mail.
Live View Electronic Map	Route Set	Mail was send fail!!! [Error Code= 109]
	Page1 Page2	
Local Set		
	Unit Of Speed	Km/h 💌
	Auto Disconnect Time:	off 🔽
		600 Second
	Read Device	Only Read Online Device
	Event Record Setting	
	Alarm1	Сн1 Сн2 Сн3 🗹 Сн4
	Alarm2	
	Alarm3	
	Alarm4	СН1 СН2 СН3 СН4
	Record Duration	5 (seconds)
	Email Setting	
	Email Notify	
	SMTP Server	
	SMTP Port	Use SSL Vertication of the second sec
	Email Account	
	Email Password	
	Email Address	Email Test
	Attach File When email	
Version:1.0.4.10	ľ	Refresh Save Default

3G Setting 1.

Unit of Speed, Auto Disconnect Time, Read Device functions are available.

┌─3G Set		
Unit Of Speed	Km/h 🔽	
Auto Disconnect Time:	Off 🔽	
	30 Second	
Read Device	Only Read Online Device	

- Speed Unit: Speed unit of E-map and tracking • route display
- Auto Disconnect Time: During live video playing, • once it is set, the video image will be Close at the setup time.

- Read Device: To read all the devices or all available online devices. (If too many devices in this server, we recommend to select "only read online device" to have better PC performance.)
- 2. Event Record Setting To set the video recording channel and duration, once the alarm is triggered. (Remark: Once this function is set, all of online device video will be recorded; hence, if there are too many devices in this server, we recommend to close this functio to have better PC performance.)

Event Record Setting				
Alarm1	🗖 сні	🔲 сн2	🔲 снз	🔲 CH4
Alarm2	🗖 сні	🔲 снг	🔲 снз	🔲 CH4
Alarm3	🗖 сні	🔲 СН2	🔲 снз	🗖 CH4
Alarm4	🔲 сні	🔲 СН2	🔲 СНЗ	🔲 CH4
Record Duration	60	(seconds)		

3. E-mail setting

When the alarm is triggered, the server will send a email to the specific account, please refer to the following figure.

Email Notify		
SMTP Server	smtp.gmail.com	
SMTP Port	Use SSL 💽 465	
Email Account	Test@gmail.com	
Email Password	****	
Email Address	Test@gmail.com	Email Test
Attach File When email		

- SMTP Servr : SMTP Sever addres.
- SMTP Port : SMTP port.
- Email Account
- Email Password
- Email Address

• Attach File when email

(Remark: E-mail setting: Once the alarm is triggered, the e-mail will be sent to all of online device; hence, if there are too many devices in this server, we recommend to close this functio to occupy unnecessarily the space of the e-mail account.)

SMTP list table

Mail	SMTP	SSL Port	StartTLS
Googlemail	smtp.gmail.com	465	587
Yahoo Mail	smtp.mail.yahoo.com	465	х
Outlook	smtp.live.com	х	587

N. Capacity Evaluation of Continuous Recording Storage Device

Assumption of the minimum record time for Mobile DVR: 8Ch/15FPS, Statics Recording and different capacity of Hard Disk. The following recording table is evaluated by 1TB.







More product information Please visit VACRON web-site http://www.vacron.com

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