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User Manual *FULL HD Video-Blackbox*

Article no: 8802201







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A. Feature Description

- Full HD real-time recording (with H.264 compression technology)
- 105° Wide-angle CMOS Lens
- 2.5"TFT LCD
- GPS sensor
- Record video with sound inside and outside the car
- Compatible with SDHC Card up to 32GB
- Automatic loop recording
- Emergency recording, file save to separate area to prevent overwritten
- Built-in GPS for tracking speed and position
- Built-in G-Sensor, to automatically record footage in case of an accident
- Made in Taiwan, with a 1 year warrantee the longest of any dash-camera



B. Specification

Items	Description
Sensor	CMOS
View Angle	105° Wide-angle
Resolution	NTSC 30fps / PAL 25fps
V / A	DC5V±5% / 1A
Operating tmp.	-10°C ~ +60°C
Display	2.5" TFT LCD
Storage	4GB - 32 GB SDHC Card (SanDisk or Transcend Class 10 or above is recommended)
Manner of Recording	5 1 <i>i</i>
Recorded content	Date, Time, Image, Sound, G-Sensor data, GPS data
Storage Format	Proprietary format, playback on device or bundled software
Audio Input	Built-in microphone
Time setting	Internal calendar adjustable via GPS, remote control or bundled software
G-Sensor	Built-in 3D G-Sensor

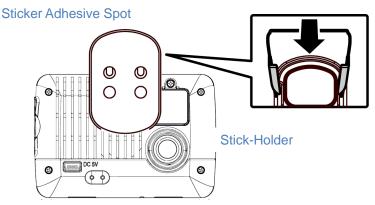
C. Accessories

Adapter / IR remote control / Software CD / Bracket / 3M sticker / 8 GB Class 10 SDHC Card



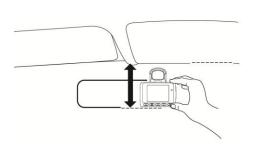
D. Schematic Diagram of The Installation Steps

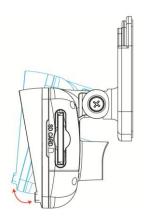
1. Install the device on the windshield using bundled 3M or suction cup mount



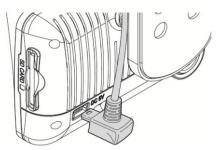
2. Find the optimal position of device on the windshield

3. Adjust to the appropriate recording angle

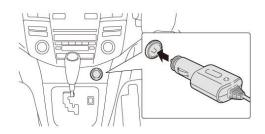




4. Plug in the DC5V Power Supply

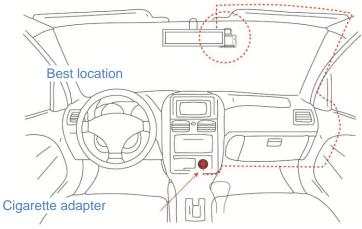


5. Plug in the Cigarette charger





6. Diagram of recommended device installation

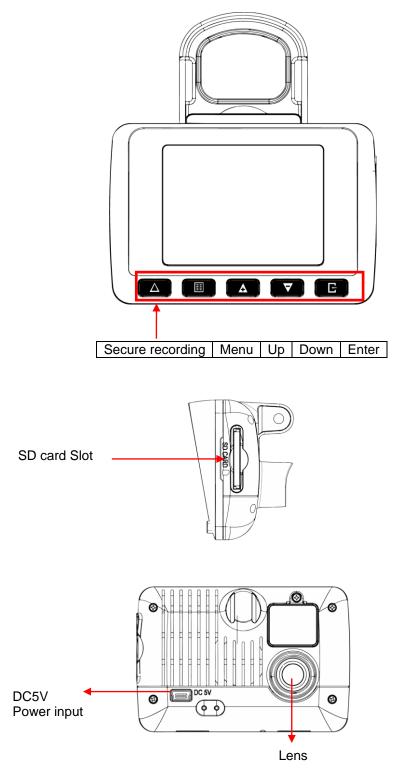




- (1). This device should be installed within the area of the windshield wipers
- (2). Format the SD card before first-time use
- (3). Set date and time on the OSD, or auto-calibration via GPS
- (4). Set NTSC or PAL through OSD



E. Product Function Introduction

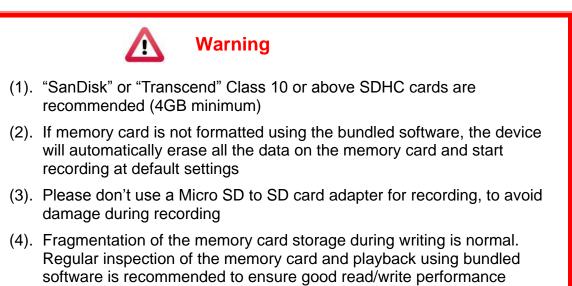




F. SD Card Installation

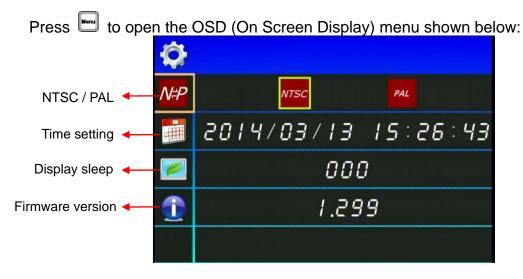


(1). To format the memory card; please refer to the other chapter "Formatting the memory card" for more detail.





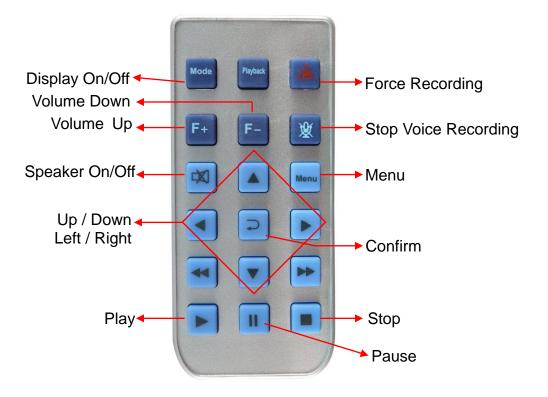
G. OSD Menu



- 1. Video standard: Click Me to choose NTSC / PAL
- 2. Time setting: Click **to adjust clock**
- 3. Display sleep: Click I to set delay time of display sleep
- 4. Firmware Version: 1 to show firmware version



H. Remote Controller Description





I. Recording / Stop Recording

1. Power On/Recording

The device automatically starts on car power on. Please allow 30 sec. for recording to start.

2. Power Off/Stop recording

When the car power is off, the device will stop recording video and sound. You can take out the memory card and insert it in your computer to view the video.

3. Indication

Blinking red light indicates recording. Fast blinking red light indicates activation of the secure recording feature.



J. The RS component Player



- This software requires DirectX 9.0 or above installed on your PC.
- 1. Operation icon introduction

	Back to previous file		
	Previous image		
	Reward		
	Pause		
Ð	Stop		
ß	Play		
	Next image		
H	Next footage		

2. Capture: Create a snapshot of current video frame

You can save a frame of your footage during playback of footage.

Click the button to take a snapshot of the current video frame.

The following window is shown, with the image captured shown on the right side. Snapshots are saved as Bitmap images (*.bmp) in the application directory /Snapshot sub-folder.

2010	01021\Snapshot	
	img-2010-11-03-15-16-05_ch0.bmp	
	img-2010-11-03-15-16-05_ch1.bmp	

(Snapshot file)



3. Configuration Science configure default settings

Before using the first-time connect the SD Card to your computer to format the SD card. Configure the desired video format (NTSC or PAL). Afterwards, you can insert the SD card into the device and start recording.

Configuration		
Video Quality High Video Frame Front 25(PAL) / 3 UIMode	User1 UserName Password	



1	Video Quality	Video Quality	Default quality is high
2	Video Frame Rate	Video Frame Rate 25(PAL) / 30(NTSC)	25(PAL) / 30(NTSC)
3	Set Password	Password User1 UserName Password User2 UserName Password	Encrypt the SD card to prevent unauthorized access. Password must be under 15 characters in length, for example: 123456789123456 After setup, the password is required for playback, configuration and formatting of the SD card. ★Note: password is case-sensitive; Remember the password. Without password footage cannot be retrieved.
4	Playback Password	Playback Password	You can set a password for playback on the built-in display of the device.
5	G-sensor sensitivity		The G-Sensor can detect impact and active the secure recording function automatically. Set the sensitivity here. Choose Car or Truck. The sensitivity has 5 options: Off / Very low / Low / Normal / High / Very high.
6	Audio Recording	Audio Recording	Turn audio recording on/off.



4. Ele backup: click to backup footage.

🚺 Backup	Backup						x	
		Removable Storage	2					
				•		Setting		
		🔘 Backup File			Browse	Backup Audio	✓ CH1	
	ID	RECORD TIME	EVENT TYPE	TIME END	Total Times	Backup Format	RAW Backup File(*.sd)	•
						Record Start	1970-01-01 08:00:00	
						Record End Time	1970-01-01 08:00:00	
						C:\BlackBox	Backup Path	
							Backup	
							backup	

<u>Step1</u>. Choose the source of the memory card.

Removable Storage	Removable Storage				
F:\	*				
Backup File					
D:\video\2013-04-23-11-43-53.sd	Browse				

Step2. Choose the footage you want to backup.

ID	RECORD TIME	EVENT TYPE	TIME END	Total Times
1	2013-04-23 07:31:43	G Sensor By Not Ov	2013-04-23 07:32:03	00:00:20
2	2013-04-23 07:32:03	Record Start	2013-04-23 07:40:40	00:08:37

<u>Step3</u>. Choose the target file format and the start and end points.

Setting	
Backup Audio	√ CH1
Backup Format	RAW Backup File(*.sd) RAW Backup File(*.sd) RAW Backup File(*.sd) AVI 1080P Backup File(*.av
Record Start	2013-04-23 07:32:03 🚔
Record End Time	2013-04-23 07:40:40 🚔



File format

(1) Proprietary file format

2013-06-06-09-49-33.sd SD File 104 MB	*.sd format	
---	-------------	--

(2) AVI video (*.avi)

2013-06-06-09-50-56-CHN01 00:00:30 55.2 MB	AVI format
--	------------

★Note:

To keep G-Sensor data, use proprietary format. AVI format doesn't not contain G-sensor data (only date/time/image/sound)

Step 4. Set the backup folder: default is C:\BlackBox

C:\BlackBox	Backup Path
	Parentap + aran

Step 5. Start backup

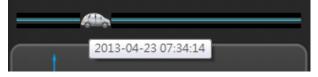
Backup
Duckup

5. Playback: Open file

	Removable Stora	ge		
	🔘 Backup File			Browse
ID	RECORD TIME	EVENT TYPE	TIME END	Total Times

6. Progress bar:

Use the mouse and drag the car icon to view a particular time of the footage





7. Play speed:

Choose 2, 4 or 8 times normal playback or 1/2, $\frac{1}{4}$ or $\frac{1}{8}$ times normal playback.



8. Volume control:

Click +/- to adjust volume.



9. G-SENSOR

The integrated G-Sensor can detect impact and record 1-3 minutes of footage automatically. This footage is protected to avoid files being overwritten.



 X: Detect vehicle horizontal change.

(2) Y: Detect vehicle vertical change.

(3) Z: Detect vehicle front/back change.

10. 🔀 Format:

Format memory card/Langue setting

💟 Format Tool Dialog	X
Removable Storage	-
Format And Clean Record Data	
Player after formatting will be copied	d to SD. Format
Restore Full Disk Space	Restore
Language Setting	Current Version
English	2014-02-11 V2.0.6.55





- (1). 「Format / Restore」 will erase all data on the SD-Card, Please make sure you have backed up any sensitive data before using 「Format / Restore」.
- (2). Before using ^Γ Format / Restore _」 , please ensure the SD-Card is unlocked.
- (3). User Account Control in Windows Vista, 7 and 8 may prevent the SD-Card from being formatted. In which case, please run the program as Administrator.
- a、 「Format」SD-Card When you use an SD card for the first time, it recommended you format the SD-Card.
- b、 「Restore」SD-Card

If you have a back up of your SD-Card, you may restore it's contents using the restore function.

c. Language setting

You can change the change the language setting. *Note: Changes will take effect after rebooting software.



d, Current Version

Curre	nt Version	
	2014-02-11 V2.0.6.55	



K. Estimated Recording Time

Note: The chart below of estimated recording times is for reference only. The length of recording may vary according to recording conditions.

Capacity Video Quality	8G	16G	32G
High	120 Min	240 Min	480 Min



L. Appendix: Bright and dark spot on the LCD

- Q: What is a bright/dark spot?
- A: Bright spot: An abnormal bright spot, against a dark background, is called a "bright spot"
 - Dark spot: An abnormal dark spot, against a multi-colored background (excluding dark backgrounds), is called "dark spot"

Indication of bright and dark spots

- (a) No bright spot is allowed in Area A, only a single dark spot
- (b) The maximum amount of bright spots and dark spots allowed in Area B is two of each
- (c) The maximum total amount of bright and dark spots in Area A and B are three or less

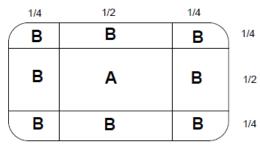


Diagram of areas A and B



- (1). There is a 30 day exchange window with the presence of bright and dark spots.
- (2). Please keep the receipt and contact your local dealer to exchange merchandise.
- (3). The maximum time interval is 30 days.