ALL IN ONE Vehicle Video Recorder

User Manual



2011 DEC. V2.1



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A. Features

- 1. Suitable for all personal vehicle, taxi, bus, truck.....
- Small size, easy installation and dismount, it does not affect the driver's line of sight.
- Insert the card and power on to start recording without additional operating.
- 4. Simultaneously recording interior and exterior condition.
- 5. Having full time, date recording and display on the screen directly.
- 6. Recording driving condition, sound, G-Sensor and GPS data.
- Front view angle approx. 120 degrees. Back view angle approx.
 170 degrees.
- Recording track of driving routes which can be shown on Google Map when we play the video.
- 9. Micro SD memory card Class 6 or above recommend.
- G-sensor sensitivity can be adjusted according to road situations.
 When detect a strong shock, system will start emergency recording and keep the files without being overwritten.
- 11. Professional file formats, without built-in lithium battery, no needs to afraid of heat and bursting concerns, it is the real black box.

B. Specification

ltem	Specification		
Chipset	H.264 image compression chip		
Sensor Device	Forward facing lens: VGA CMOS Sensor. Backward facing lens: VGA CMOS Sensor.		
View Angle	Outside vehicle approx : 120 degree Inside vehicle approx : 170 degree		
Voltage	Please use 5V±5%, 1A Cigarette lighter adapter. The machine needs 4.7v to start.		
Operating Temp	-15°C~+65°C (Inside Vehicle).		
Storage Device	Micro SD Card (4G/8G/16G/32G) of Silicon Power and Transcend recommend. 4GB/Class 6 or above specification is available.		
	Forward facing lens: 640x480; Highest resolution: 30fps/25fps (NTSC/PAL)		
Recording Frame	Backward facing lens: 640x480; Highest resolution: 15fps/15fps (NTSC/PAL)		
	Auto record when power up system; backward facing lens can be closed by setting of software.		
Recording Content	Date, time, image, sound, G-sensor data, GPS data.		
Recording Format	Specific format for software player.		
Microphone	Build-in high sensitivity of single microphone for automatic voice adjustment.		
Time Setup	Auto-calibrating by GPS signals. If GPS is not available, the built-in clock will be used.		
G-Sensor	Internal 3D G-Sensor.		
Out Device	 (a) TV-Out (1 Vp-p composite video output, 75 ohms), Video Output format: NTSC / PAL alternative. (b) Force Record Button: For emergency recording. Gleams in night time. (c) Red light: Recording indicator. In emergency recording, it flashes more frequently. (d) Green light Flashing: Searching GPS signals. Light on : GPS positioning ready (e) External hole to connect GPS Mouse Remark: When IR turns on, the LED light will be dimmer. 		

Description	 (a) The GPS positioning speed will be influenced by solar film of the front windshield, weather or other environment factors. (b) Starting and closing time of infra red will be subject to light intensity, the installation location, front windshield and other factors (c) Day and night mode having delay mechanism for about 30 seconds. Night mode will be priority when power on. (d) Mampar and formatted by using the plauback activates 		
	(d) Memory card formatted by using the playback software, windows will recognize the remaining capacity about 80MB for copying the player software to memory card.		
Important Notice	 copying the player software to memory card. (a) The current consumption of the machine over standard USB hole (output 500mA). When connect with PC power supply, it's better to buy another power cable with two holes for portable hard drive. (b) Machine must be installed in the area that wipe can be reached to ensure the clarity of recording video. (c) Please do not plug the power in both micro-USB soctets. The machine might be damaged. (d) If not use the player to format memory card, the machine will force to format the entire memory card and then start recording. (e) It's better not crossing the top of the machine and the left side of GPS. We suggest to put the cables via the right side of the DVR and then connect to the ceiling to get better GPS signal. (f) Initial screen and Live View screen may change due to software update or revision without notice. (g) The machine itself has a distinction between NTSC or PAL. Video output to the monitor with corresponding screen system. (h) Interior lens adopt ultra-wide-angle lens. There will be slight cover corner phenomenon at the corner edge. (i) Memory card has the number of reading and life issues, please check and use the computer to play video regularly in order to make sure the memory card can read and write property. 		
Accessories	Standard: (a) 5V cigarette Power adapter (b) USB card reader (c) 4 pings, 3.5 inch headphone jack to RCA output cable. (d) Suction cup bracket (e) Bracket holder (f) Remote control (g) Product CD (h) Quick Guide (a) Micro SD card (4GB/8GB/16GB/32GB) (b) External GPS Mouse (4P Phone, lack Connect)		

C. Structure of Product





% Please do not plug the power in both micro-USB terminals. The machine might be damaged.

D. Dimension

UNIT : mm



E. Installation Guide



Make the bracket facing upward.



Adjust the viewing angle.



Assemble the suction cups.





Set up the machine in proper position.



Plug the power cable to socket on photo No. 5 or No. 6, please do not plug in both sockets at the same time)



Plug in the cigarette adapter.



When the power is successfully connected, the IR LED will light on for 10 sec.



Force Record button: Light on when power is connected successfully.



Green: flashing while GPS is positioning, Light on when GPS is ready.



Red: flashing during recoding, Fast flashing in emergency mode.



Force Record Button: When press down, the red light will flashing rapidly. In the night its LED will light on as indicator.



Installation Complete!



God Speed!

Mode 义 * Menu 7 4 44 11

Button		Function Description		
	Force Recording Button	Manually establish a recorded file which cannot be overwritten.		
Mode	Mode Button	Full screen / Half screen spilt shift		
Menu	Menu Button	Firmware version of the device displayed		
×	Mute Button	Voice recording On/Off		
	Up key	Select the file or enter the password number		
	Down key	Select the file or enter the password number		
•	Left key	Left key to previous play list or previous password entered		
	Right key	Right key to next play list or next password entered		
P	Enter key	Confirm the file to play or password entered.		
1	Fast Forward	Speed up playback file		
¥	Fast Rewind	Reverse playback footage		
	Playback button	Enter the playback mode or to play the selected file.		
Π	Pause	Pause playback		
	Stop button	Stop playback, back to the play list		

F. Functions of Remote Controller -

- 1

 Introduction of OSD Interface: (Video output from connecting TV-OUT line to the device)



2. Event Record: Appears in the top right side of LIVE screen, it means that G-Sensor didn't receive abnormal signal. When you press the record button from the remote control or click this icon at the right top to force the machine to record manually.

When the icon appears at the top right that means G-Sensor detects abnormal vibrations and start force recording.

3. When turns to Live screen, it could click 🖃 via remote control to switch CH1(Front View) or CH2(Inner View), dual CH display with GPS information as shown below:



Front View (CH1)



Inner View (CH2)



Dual CH Display With GPS Information

4. When turns to Live screen, it could click with a remote control to show Firmware version.

5. In the LIVE screen you can choose whether open the recording, click the mute button on the remote control icon will appear top right of the screen, that means stop recording; When the icon appears in the top right that says on the recording.

6. GPS display: When icon appears at the top right of the Live screen, it means there is no GPS signal; when the icon appears in the top right of the Live screen, it indicates that the GPS is working.

7. Playback page password instructions: Click the playback button of remote control
When the machine sets up playback password, playback page will be asked to enter a password
(this feature requires to set up on player), Click the remote control
Select the next position; when the password is completed, you can click on the remote control
Enter the playback list page.



Enter the playback page to stop recording

- 1. Click the remote control in the playback page Select the time you want to play the file.
- 2. Click the remote control **I** select the next file page of playback list.
- 3. When you select a file to play the file, then click the remote control to start the playback.
- 4. To pause playback, tap the pause button 🛄 , and please click 🕒 again to continue the footage playback.
- 5. To leave the playback mode, click the remote control to return playback list page, click remote control• again, to back to live mode.
- To leave the Playback page simply click the stop button on the remote control to leave the file page and then enter the LIVE screen.

G. Start / Stop Recording

When power on the device, the screen will show a welcome message for the device starts if connected to TV-Out. The firmware version of the device will displayed before LIVE view of recording starts.

1. Power on / Start Recording

The device can be started completely after power on for one minute. When the device is started on programming, the green indicator light is flicker before GPS positioning completed. After one minute, the red indicator light will be kept flicker until e show n on right side of LIVE view; the device starts recording now.



Definition of Indicator

- Force record button: good for using at night
- Red indicator of REC: Stable flicker of red indicator: On recording Fast flicker of red indicator: Force recording
- Green indicator of GPS positioning:

Flicker of green indicator: GPS 3D positioning Steady of green indicator: GPS 3D positioning accomplished.

2. Power Off / Stop Recording

Power off and enter playback page to stop recording. Power off and then remove the memory card to read the recording file in computer.

H. Software Player Instruction How to read the files from Micro SD card?



Open the plastic lid.



Remove the card from the machine.



Insert the Micro SD card into the card reader (please make sure the direction is correct).



Connect the card reader to the PC and use the software in CD to play the files.

1. Play Video

Start the program 🗮 (you can locate it in the CD-R), The main screen will be like the picture below.

Press button, and choose where you insert memory card to play the files,

or click on button to manually select the memory card or recorded file in the hard disk.

During playback, the button would change to button and you can click on it to pause playback.

2. Main Screen



a. Play & Settings Icon Instruction:



1	H	play previous file
2	◄	play previous frame
3		play backward
4	н	Pause
5		Stop
6	۲	Play
7	≜	Play next frame
8	₩	Play next file
9		Open file
10		Disk back up
11	¢)	Google map
12	\$	Setting
13	1º	Snapshot
14	×	Format Micro SD Card

Disk Backup

Save the recorded files to your PC. Click on the button and it will pop up the screen as below.

1	Removable Storage					
	G:1		~		Setting	
-	O Backup File				1	Tinckude Aude
			Brow	ise		
ID	RECORD TIME	EVENT TYPE	TIME END	Total Time	Backup Format	RAW Backup File(*.sd)
1	2011 11 10 16 40.02	Duck Dathan Da Mak	2011.11.10.14.40.42	1000-100-10		
1	2011-11-10 16:40:03	G Sensor By Not	2011-11-10 10:40:43	00:00:40		
05	2011-11-19 17:56:50	Push Button By Not	2011-11-19 17:57:48	00:00:58	Record Start	2011-11-19 17:56:50
4	2011-11-19 19:57:57	Record Start	2011-11-19 20:03:48	00:05:51		
5	2011-11-19 20:31:56	Record Start	2011-11-19 20:33:24	00:01:28	Record End Time	2011-11-19 17:57:48
6	2011-11-19 22:30:18	Record Start	2011-11-19 22:34:42	00:04:24		
7	2011-11-20 14:24:08	Record Start	2011-11-20 14:29:14	00:05:06	-	
8	2011-11-20 17:02:03	Record Start	2011-11-20 17:05:14	00:03:11		
9	2011-11-20 17:48:10	Record Start	2011-11-20 17:52:33	00:04:23		
10	2011-11-20 18:44:44	Record Start	2011-11-20 18:49:07	00:04:23	4	
11	2011-11-20 18:49:07	G Sensor By Not Ov	2011-11-20 18:50:17	00:01:10	C:\BlackBox	Backur
12	2011-11-20 18:50:17	Record Start	2011-11-20 19:01:16	00:10:59		
13	2011-11-20 19:32:45	Record Start	2011-11-20 19:45:59	00:13:14		
14	2011-11-20 21:56:08	Record Start	2011-11-20 22:01:13	00:05:05		
15	2011-11-21 10:00:36	Record Start	2011-11-21 10:15:41	00:15:05		
16	2011-11-21 11:20:03	Record Start	2011-11-21 11:27:29	00:07:26	5	
17	2011-11-21 11:48:24	G Sensor By Not Ov	2011-11-21 11:49:43	00:01:19		Back
18	2011-11-21 11:49:43	Record Start	2011-11-21 11:51:14	00:01:31		
19	2011-11-21 11:51:47	Record Start	2011-11-21 11:52:05	00:00:18		
20	2011-11-21 11:58:39	Record Start	2011-11-21 12:30:08	00:31:29		
21	2011-11-21 13:44:48	Record Start	2011-11-21 14:34:59	00:50:11		
22	2011-11-21 14:34:59	G Sensor By Not Ov	2011-11-21 14:38:37	00:03:38		
23	2011-11-21 14:38:37	Record Start	2011-11-21 14:45:12	00:06:35		
24	2011-11-21 14:45:12	Record Start	2011-11-21 15:08:27	00:23:15		
25	2011-11-21 15:23:34	Record Start	2011-11-21 15:24:10	00:00:36		
26	2011-11-21 15:24:10	Push Button By Not	2011-11-21 15:26:01	00:01:51		

Step1: Select the origin for the Micro SD card

📀 Removable Storage		
G:\	*	

Setp2: Select the recorded file which you want to backup

	ID	RECORD TIME	EVENT TYPE	TIME END	Total Time 📥
	1	2011-11-18 16:40:03	Push Button By Not	2011-11-18 16:40:43	00:00:40
	2	2011-11-19 14:48:10	G Sensor By Not Ov	2011-11-19 14:49:03	00:00:53
	3	2011-11-19 17:56:50	Push Button By Not	2011-11-19 17:57:48	00:00:58
	4	2011-11-19 19:57:57	Record Start	2011-11-19 20:03:48	00:05:51
	5	2011-11-19 20:31:56	Record Start	2011-11-19 20:33:24	00:01:28
	6	2011-11-19 22:30:18	Record Start	2011-11-19 22:34:42	00:04:24
Step3: Choo	ose the	backup file	format		
(1)N	licro SE	Card Back	kup (*.sd)		
(2)A	VI File	Backup (*.a	ıvi)		
	Backup	Format	RAW Bad	:kup File(*.sd)	~
Bac	Backup format :				
(1) [Micro S	D card back	kup format		
		110-10-18-10-36-11.sd)檔案	Micro	SD Card File	type (*.sd

(2)AVI File Backup(*.avi)

2011-11-19-12-26-52-CHN01.avi 視訊短片 24,794 KB	Chn01 is the forward facing lens record. The file name is *.avi.
2011-11-19-12-26-52-CHN02.avi 視訊短片 6,958 KB	Chn02 is the backward facing lens record. The file name is *.avi.

★Note: If backup by original format of Micro SD card, the file recorded with location of GPS (longitude and latitude), speed and G-SENSOR. If backup by the format of *.avi, the file recorded date, video and audio. We suggest to backup by using original format of Micro SD card.

Step4: Backup Path: Select your backup destination (e.g.: C:\blackbox)

C:\BlackBox Back

Step5: Backup : Start backup the file to your specified destination



Setting ¹

One side of card translator is plug into Micro SD card, the other one is plug into USB plot before recording. Record format and display of the device can be set by configuration of PC client. After setting completed, the Micro SD card can plug into the device and start recording again.

Configuration - [F:\]	
Uideo Quality	4Password 6Unit Of Speed
Video Quality High • Video Frame Rate Front 25(PAL) / 30(NTSC) • Disable Rear Camera Rear 15 • Car Information • 0/10 0/39	User1 User1 User1 Will Of Speed Password Image: Copy Me To Storage Copy Save Cancel User2 Save Cancel

1	Video Quality	Video Quality High High Normal Low	Select the video Quality: High/ Normal / Low
---	------------------	--	---

2	Video Frame	Video Frame Rate Front 30 Disat 5 10 15 30 15 30 15	Set the recording frame rate for front camera NTSC(5 / 10 / 15 / 30) fps PAL(5 / 10 / 15 / 25)fps
		Disable Rear Camera	I urn the recording off for inside camera
		Rear 15 5 Video 10 15	Set the recording frame rate for inside camera (5 / 10 / 15)fps
3	Car Information	Car Information I688-FS 0/10 0/39 0/39	The license plate number information can be input here, the film is easy to identify which vehicles to record video record (only English letter and number acceptable.
4	Password	User1 UserName Password User2 UserName Password	This feature of the Micro SD card encryption, to prevent others from accessing any data. Set a password to 15 characters limited: 123,456,789,123,456. After setting the password, it is required to enter password to access the playback file, setting, formatting memory card.
5	Time zone	Time Zone +08:00 CST China Standard Time Time Setting 2011-11-21 11:20:50	Time Zone: GMT (GPS auto time correction)
6	Unit Of Speed	Unit Of Speed • Km/h Mile/h Knot	You can set up the speed unit here. Km/h: kilometer per hour Mile/h: mile per hour Knot : knot per hour ★ Note : 1 KM=0.6214 mile, 1 mile=1.6093KM, 1 Knot =1.853KM
7	On Screen Playback Password	Playback Password	On Screen playback password: When it is enable, need to enter password first before enter playback mode. Do the settings first and then set the password. The password setting from 0 to 9.
8	G-sensor Sensitivity	G-sensor Sensitivity Normal	Set the sensitivity for G-sensor. Six mode can be chosen. OFF, Light, Low, Normal, High, Heavy Note: In some uneven road, you might want to decrease the sensitivity to prevent repeated emergency recording.

9	Sensor Sensitivity at night	Sensor Sensitivity Front Normal Rear Normal	The night sensitivity settings for front and interior lens: very low, low, normal, high, very high. According to night conditions set sensitivity.
10	Audio Recording	Audio Recording	Audio recording. Open: recording voice / Close: stop voice recording.

Snapshot

While playing the recorded file, you can use this function to snapshot the picture and save it into your PC.

Default saving path for snapshot picture will be in /Snapshot folder. File type: BMP

案①	續輯(E)	檢親(⊻)	我的最爱(A) IA(I) I	(明田)
G±-	л . 6	0 - 1	,◎搜	尊 😥 資料夹	
網址①	C:\IBox	Player\Snap:	shot		
				🥌 img-2010-11-	03-15-16-05_ch0.bmp
	IL TA		0	🥑 img-2010-11-	03-15-16-05_ch1.bmp

b. Speed Meter & Volume



c. Video Search & Play Speed

Video Search Play speed

- (1)Video Search : You can use the mouse to drag the bar to search the video quickly.
- (2)Play Speed : Support 2x, 4x fast forwarding and -2x, -4x slow play mode.

d. G SENSOR

When detecting extraordinary G-force, the machine will record the images and separate the recorded file from normal recording.



G-Sensor

- (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.

I. Formatting Memory Card When You Should Format Micro SD CARD?

When you use the Micro SD card for the first time or just purchase a new card, you should format it in order to use it correctly. (The bundled Micro SD card has been formatted and tested by the manufacturer already.)

- Notice:
- 1. Before formatting Micro SD card, please ensure to unlock it first.
- If the card is unlocked but still cannot be formatted, this might be caused by Window Vista / 7 security restrictions. Please run the program as Administrator to prevent from this problem.

1	2
Lock Vide	IBoxPlayer Ibpl.dll Run as administrator

The steps are shown in below:

- 1. Insert the CD in your PC and open the directory Find and run in program and click on romat Micro SD Card".
- 2. Click on **Format** to start formatting the Micro SD card. Please see the following steps as reference.

Windows XP	Windows 7
Format SD Card (私本)	Format SD Card[-G\-] Format And Clean SD Card Format Rest BoxPlayer Correctors this disk[-G\-]? Larg Larg Larg Larg Larg Larg Larg No
Format SD Card [-M:A-] I Format And Clean SD Card 3 Format FAT32 Data Format Restore Full Disk Space Restore Language Setting I	Format SD Card(-HA-) Format And Clean SD Card Format And Clean SD Card Format Format Format Format Restore Full Disk Space Restore Language Setting Language English
Format SD Gerd () () () () () () () () () (Format SD Card[-HL\-] Format And Clean SD Card Format Restore Full Disk Space Restore Language Setting Language English

3. When formatting is completed, please insert the card into the machine for recording.



Open the plastic lid .



Insert the Micro SD card in correct direction.



Press the Micro SD card in until it is set.



Close the plastic lid.

J. Restoring Memory Card

When you have backup the recorded files into PC and want to use the Micro SD card for other purposes, you have to restore it first so it can be used correctly.

Notice:

- 1. Before formatting Micro SD card, please ensure to unlock it first.
- If the card is unlocked but still cannot be formatted, this might be caused by Window Vista / 7 security restrictions. Please run the program as Administrator to prevent from this problem.



How to restore it? Steps:



Insert the Micro SD card into the card reader (Please make sure the direction is correct)



Connect the card reader with the PC

- 3. Insert the CD in your PC and open the directory Find and run 🗮 program and click on 🚿 "Format Micro SD Card".
- 4. Click on **『**Restore』 to restore the Micro SD card. Please see the following steps as reference. After finished, you can use the memory card for other purposes.

Windows XP	Windows 7
Format SD Card (-M 1-) Image: Start (-M 1-) Format (-M 1-) Image: Start (-M 1-) Provide this disk(-M 1-)? Image: Start (-M 1-) Restore Full Disk Space Restore Tull Disk Space Language English	Format SD Card[-G:\-] Format And Clean SD Card Format And Clean SD Card Format Restore Full Disk Space Restore Restore Restore Ves No
Format SD Card ≤ Format And Clean SD Card 3 Image: Format FAT32 Data Format Restore Full Disk Space Restore Language Setting Language Language English	Format SD Card[-G:\-] Format And Clean SD Card Format And Clean SD Card Format Format FAT32 Data Format Restore Full Disk Space Language Setting Language English
Format SD Card [-M:A-] [2] Format And Clean SD Card Format FAT32 Data Format Restore Full Disk Space Language Setting Language English	Format SD Card[-G\-]