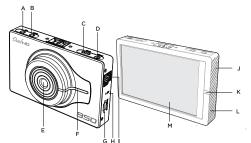


SIMPLE INSTALLATION LONG LIFE CYCLE _Memory Card I DWS Lane Departure Warning System 4.0 INCH IPS LCD FORMAT FREE _Memory Card AFR SYSTEM_Auto File Recovery

LOW POWER CONSUMPTION

USER QUICK START GUIDE

Part Name - Front Camera



- A. GPS connection port
 The port to connect a GPS
- B. AV OUT port
 A port to connect AV OUT cable parate sale of cable
- C. Rear connection port
 The port to connect Rea
 (power and video I/O)
- D. Normal power port Power (DC 12V) conn
- E. Front camera lens
- F. Security LED
 To check the ope
- G. Memory card slot A slot to insert micro SDHC card

- H. MIC A MIC input hole for audio recording
- Power switch Dash cam power ON/OFF

- K. Status LED

 MIC ON/OFF

 REC condition
- L. Heat emission The heat from the product will be
- M. LCD

Part Name - Rear Camera

Package Components

Rear Camera

Cable Holder Clips

The terminal that connects the rear camera cannot be connected to any other device. If micro USB cable except for rear only cable to rear connection port, it may cause the damage.





The components may be subject to change without prior notice to enhance the product's performance or quality.

A. Rear camera lens

Doble Sided Tape

- B. Security LED

& Card Adapte

External GPS

C. Attachable support

850

Manual

- D. Backward Connection Port

Thank you for purchasing product from HID Solution Co., Ltd.

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All the information contained in this Manual is protected under the Copyright Act.

HID Solution retains all rights to the program, which are protected under the Copyright Act.
This Manual was prepared on the basis of the current product specification, and the examples, tables and charts, illustrative images, detailed features of the product, and its hardware and software requirements may be subject to change without prior notice.

Product Overview

This product is an assistive device installed in automobiles to record driving video data.

Depending on the car's state or driving conditions, some features may not be supported. The device also does not guarantee all events are recorded. If an accident occurs due to a shock, which is too great to be detected by the built-in shock sensor, the accident may not

The Warranty is issued at the time of purchase of the product and is not re-issued.

Equipment for Office Use (Class A) (Broadcasting and Communication Equipment for Office Use)

Sellers and Users must note that this equipment is for office use (Class A) and certified with a radio waves suitability registration, and the equipment

1. Name of apparatus (model name): 850 2. Name of certified company: HID Solution Co., Ltd.
3. Date of manufacture: Indicated on the packaging box. 4. Manufacturer/Country of origin: HID Solution Co., Ltd. / Republic of Korea

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercia

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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to insure compliance.



Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipmen

This device complies with part 15 of the 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.

Set-Up

The actual product may vary from the images shown.



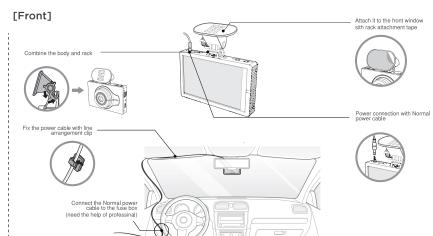
Select where to install front camera Recommended to install behind room mirror on the top of front window of vehicle.



Select where to install rear camera Recommended to install on the top of rear window



Insert a micro SDHC card



[Rear]

Specifications

ltem	Standard		Remarks
Model name	BCH-850		
Size/Weght	(F) 105 x 65 x 27mm, 100g / (R) 52 x 24 x	24mm, 25g	Weight not including cable and rack (Rear camera includes rack)
Support capacity	micro SDHC	16/32/64/128GB (up to 128GB)	MLC Class 10 & above
	Nomal recording		
	Impact detection recording		
Recording method	Manual Recording	(F) HD 720p@30fps (R) HD 720p@30fps	
	Parking recording (Recording when impact detection and motion detection)	(n) no /zup@aulps	
Lens	HD wide angle lens		4 Glass with IR Cur Filter(F/R)
Image sensor	High Quality CMOS Image Sensor		Front HD (no of valid pixel 1280x720) / Rear HD (no of valid pixel 1280x720)
View angle	(F) opposite angle 128 * / horizontal 101 * (R) opposite angle 128 * / horizontal 101 *	/ vertical 80 ° / vertical 80 °	
Video	(F/R) HD 720p@30fps		
Encoding	Image : MPEG-4 AVC / Voice : PCM		AVI.
Voice	Microphone embedded		
Speaker	Speaker embedded	8ohm	
Accelerator Sensor	3-axis	+2g / -2g	
Input power	DC 12V 3A		
Battery	Super capacity		
Power consumption	Average 3.5W / MAX 4.5W		2ch, basis
Operating temp./ Storage temp.	Operating temp10 °C ~ 60 °C / Storage ten	np20℃ ~ 70℃	
Interface	Normal power (POWER), rear camera (R-C image output (AV OUT) connection port	CAM), external GPS,	
Output method	NTSC		
Others	Security LED, Power On/Off, LDWS, Forma	at Free	

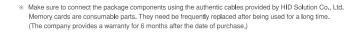
Warranty

This product has been delivered for domestic use within the Republic of Korea after having passed strict quality management and inspection. If any defect in workmanship or natural failure occurs during the warranty period, the company provides warranty service according to the information contained in the Warranty below.

Model Name			
Product Serial Number			
Warranty	Body	1year	
Period	All accessories (consumables)	3 months / Memory card— 6 months (See the information contained in the Warranty)	
Date of purchase	year	month day (Purchase Place :)

BLACKCAM CS/AS CENTER

1806 18F, DAERYUNG POST TOWER 5-CHA, DIGITAL-RO 9-GIL, GEUMCHEON-GU, SEOUL ☎ 82-1899-5448 blackcam@hidsolution.com



Starting the Product



 When booting, you can select one from Front / Rear / PIP / Clock View - For driving mode, you can select one from live view / LCD OFF (after 1 min. / after 3 min.) - When you touch the area out of menu button on the bottom,

it will be converted in the order of Front screen > Rear Screen > PIP > Clock Screen

[CONVERSION of LIVE VIEW - Driving Mode]





Live View





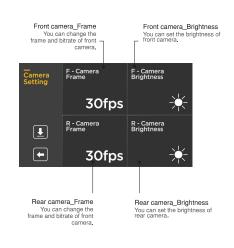
Recording While Driving

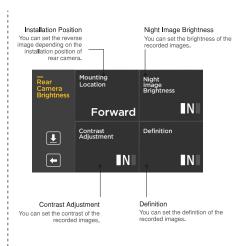
Impact sensitivity can be set as [menu ▶ system adjustment ▶ sensitivity setting]



Normal recording
When booting is completed, it will be converted to Normal recording mode. The recorded file will be saved in normal folder in page 1.

Front, Rear Camera Setting







Impact detection recording
When an impact is detected in normal recording mode, the mode will be converted to impact detection recording mode. Based on the point of impact occurrence, the video for total 35 seconds from before 5 seconds to after 30 seconds will be saved in event folder of memory card.

Press urgent recording button and the button will be changed with red and the mode will be changed to urgent recording mode.

Total 35 seconds from before 5 seconds to after 30 seconds will be recorded and the recorded file will be saved in the camcorder folder of memory card.

Recording While Parking



When you stop the vehicle (ACC power shutdown), the mode will be converte to Parking mode after 3 seconds, and when you start the engine again (ACC power connection), the mode will be converted to normal recording mode.

Impact detection recording

When impact is detected at parking detection mode, the detection recording starts (before 5 sec /after 30 sec. total 35 second). The recording file will be aved in event folder of memory card.

Motion detection recording

- When a motion is detected in the view range, the recording will start. (before 5 seconds / after 30 seconds, total 35 seconds)
- The recording file will be saved in parking folder of memory card.

Memory Setting

[menu ▶ memory setting] to change the setting

Micro SDHC card format - to format the activated memory card

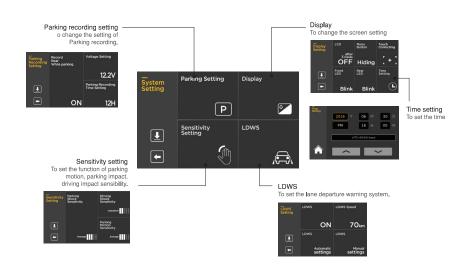


otion and Impact.					_
		Critical States	Penning Alexander	Evert Alexandra	micro SDF
Normal 01	Normal 02	Driving Preference	Parking Preference	Event Preference	T care save
Motion: 30 Driving: 50	Motion: 40 Driving: 40	Motion: 20 Driving: 50	Motion: 60 Driving: 20	Motion: 40 Driving: 30	
Event: 10	Event : 10	Event : 20	Event : 10	Event : 20	

The range of video that is recorded by recording mode and storage folder are as follows.

Mode		Storage Time	Storage Folder Name
Resolution		Front : 1280 x 720p,30fps / Rear : 1280 x 720p,30fps	
Driving	Nomal	Total 60 sec.	Normal
Recording	Impact Detection		_
Parking Recording	Impact Detection	Before 5 sec. / After 30 sec. Total 35 sec.	Event
	Motion Detection		Parking
Manual Recording		Before 5 sec. / After 30 sec. Total 35 sec.	Manual

System Setting



LDWS

[menu \blacktriangleright system setting \blacktriangleright LDWS] to adjust the alarm of lane departure warning system



LDWS Setting ON / OFF Warning Sound Beep Sound LDWS Speed 60km / 70km / 80km

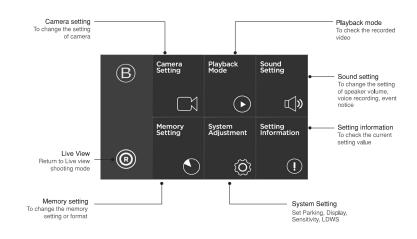


- For the first setting of LDWS, be sure to set the bonnet.
- After bonnet setting, the sensitivity setting will be proceeded automatically.
 After completed, automatically return to the previous page.
- In case of auto setting, it will take some time according to
- the condition of lane (within 5 seonds)

- Bonnet setting : sets the bonnet line of vehicle.
- Horizontal setting : sets the horizontal line. wheel location setting (left). Wheel setting (right)
- adjusts sensitivity according to the wheel location (left/right)

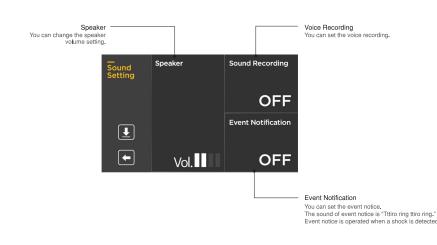
- For LDWS function, auto setting is recommended.
- Easy to use as LDWS is connected with GPS
- As warning is not available according to ambient environment or weather, or there may be wrong warning, the cares of driver should be taken.
- For the safety, set after parking.
- For smooth setting, set in the place that lanes are seen visibly

Main Menu



Sound Setting

[menu ▶ Sound Setting] to change the sound setting.



Play Mode / Setting Information

Play Mode



- 4 video lists for each page is displayed. Select the corresponding file and the corresponding recording video will be played.
- Press this button to move to next page Press this button to skip 3 pages
 - Press this button to store the desired video separately



Press this button to play the next file Press this button to save the file in Myfolder Use the round button of play bar to move to the desired section

Setting Information
[menu ▶ setting information] to check the current setting status



Imenu ▶ setting information]available to initialize with basic setting value. When changing the basic setting value, the basic data will be deleted and rebooted.