

950

SIMPLE INSTALLATION
LONG LIFE CYCLE _Memory Card
LDWS _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

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

Warranty and Support

Our official website is at <http://www.hidsolution.com>.

Get firmware updates and download the User Manual from our official website.

HID Solution makes no warranty, either implied or otherwise, as to sales activities, or the appropriateness thereof, other than those permitted by the company.

Copyright and Trademark

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 be recorded.

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 is intended for use in areas other than homes.

1. Name of apparatus (model name) : 950
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 commercial environment.

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.

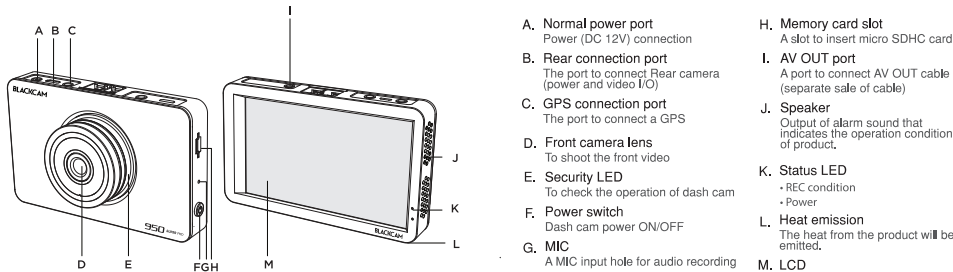


Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

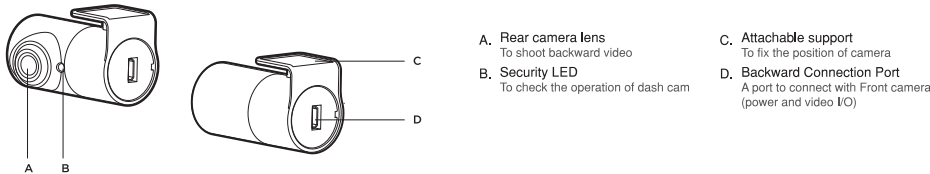
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Part Name - Front Camera



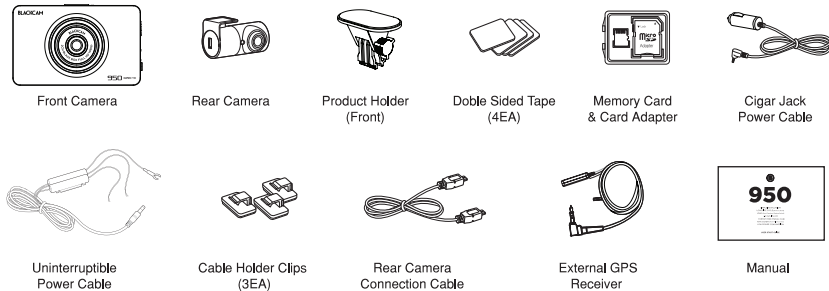
Part Name - Rear Camera

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.



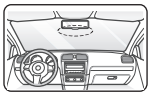
Package Components

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



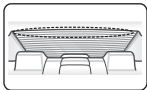
Set-Up

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.



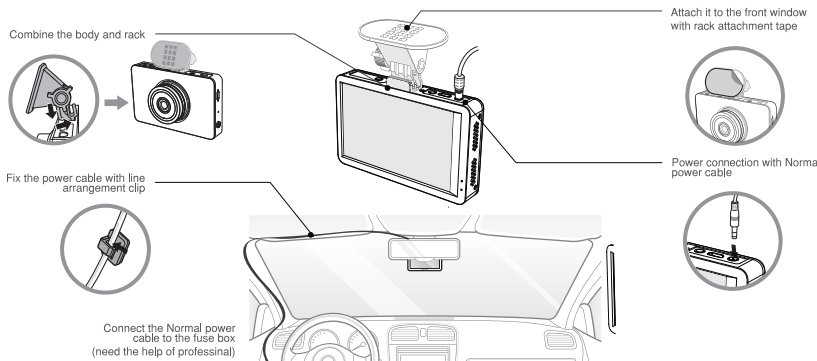
Select where to install rear camera

Recommended to install on the top of rear window.

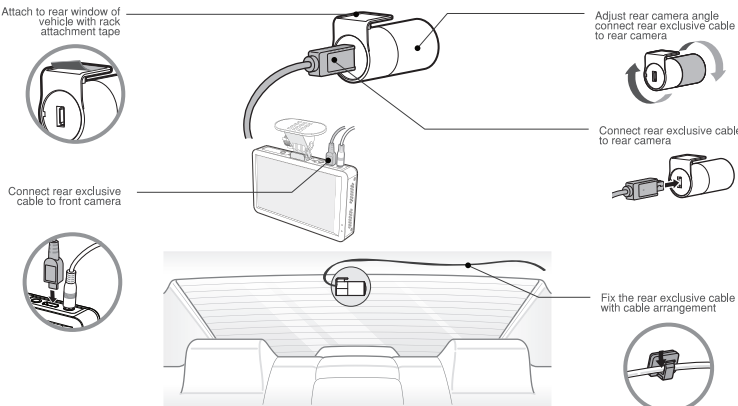


Insert a micro SD card

[Front]



[Rear]



Specifications

Item	Standard		Remarks
Model name	BCH-950		
Size/Weight	(F) 105 x 65 x 27mm, 122g / (R) 52 x 24 x 24mm, 20g		Weight not including cable and rack (Rear camera includes rack)
Support capacity	micro SD	16/32 GB	MLC Class 10 & above
Recording method	Normal recording	(F) FHD 1080p@24fps (R) D1 480p@24fps	Recording per 1 minute unit
	Impact detection recording		5 sec before impact occurrence / 30sec, total 35 sec.
	Urgent recording		5 sec before impact occurrence / 30sec, total 35 sec.
	Parking recording (Recording when impact detection and motion detection)		5 sec before impact and motion detection occurrence / 30sec, total 35 sec.
Lens	HD wide angle lens		4 Glass with IR Cut filter (F/R)
Image sensor	High Quality CMOS Image Sensor		Front HD (huo/ valid pixel 1280x720) / Rear D1 (huo/ valid pixel 720x480)
View angle	(F) opposite angle 135° / horizontal 128° / vertical 70° (R) opposite angle 95° / horizontal 85° / vertical 70°		
Video	(F) 1920x1080 / (R) 720x480		
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 supply to save video safely in case of shutdown of external power
Power consumption	MAX 4.5W (Parking mode 3.8W)		(LCD OFF)
Operating temp./Storage temp.	Operating temp. -10℃~ 60℃ /Storage temp. -20℃ ~ 70℃*		
Interface	Normal power (POWER), rear camera (R-CAM), external GPS, image output (AV OUT) connection port		
Output method	NTSC		
Others	Security LED, Power On/Off, LDWS, Format 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 Period	Body	1year
	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

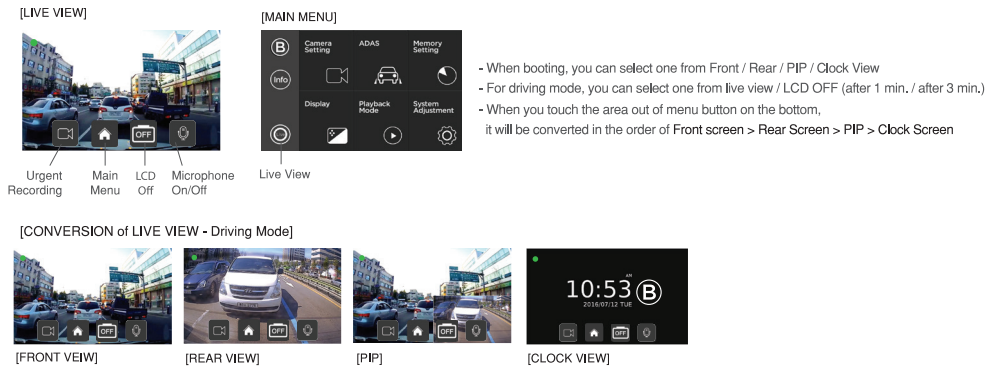
1806 18F, DAERYUNG POST TOWER 5-CHA, DIGITAL-RO 9-GIL, GEUMCHEON-GU, SEOUL

☎ 82-1899-5448 blackcam@hidsolution.com

<http://www.hidsolution.com>

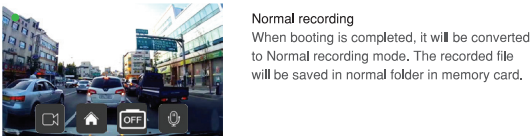
※ Make sure to connect the package components using the authentic cables provided by HID Solution Co., Ltd.
Memory cards are consumable parts. They need be frequently replaced after being used for a long time.
(The company provides a warranty for 6 months after the date of purchase.)

Starting the Product

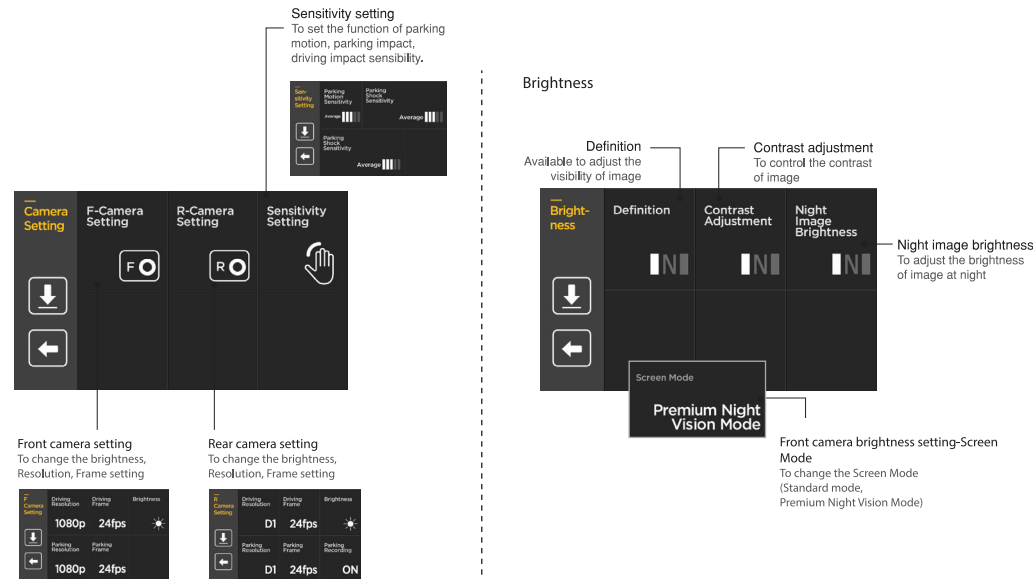


Recording While Driving

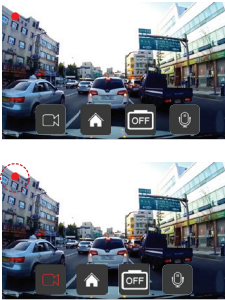
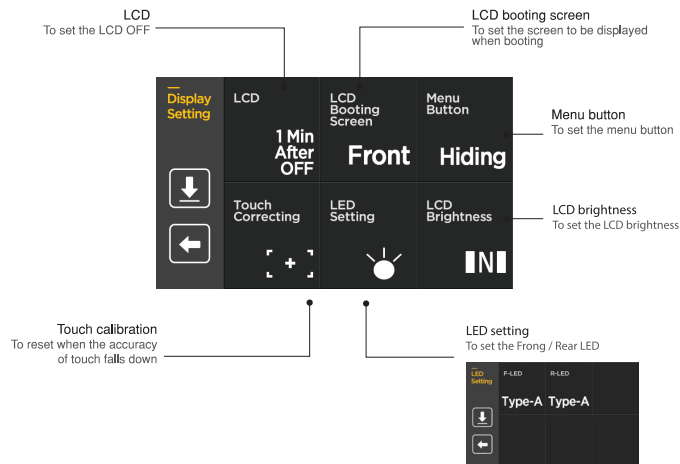
Impact sensitivity can be set as [menu ▶ camera setting ▶ sensitivity setting]



Front, Rear Camera Setting



Display



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.

Urgent recording

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



Parking mode

When you stop the vehicle (ACC power shutdown), the mode will be converted 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

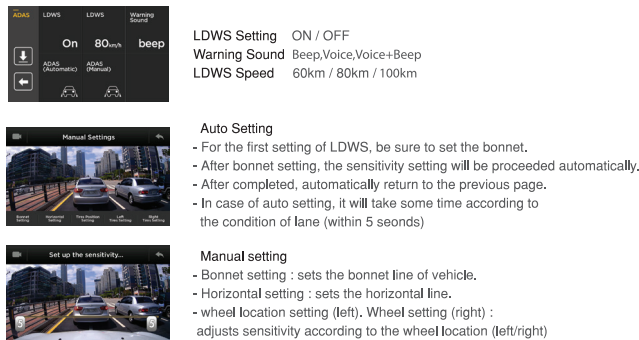
When impact is detected at parking detection mode, the detection recording starts (before 5 sec /after 30 sec. total 35 second). The recording file will be aved in event folder of memory card.

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.

ADAS

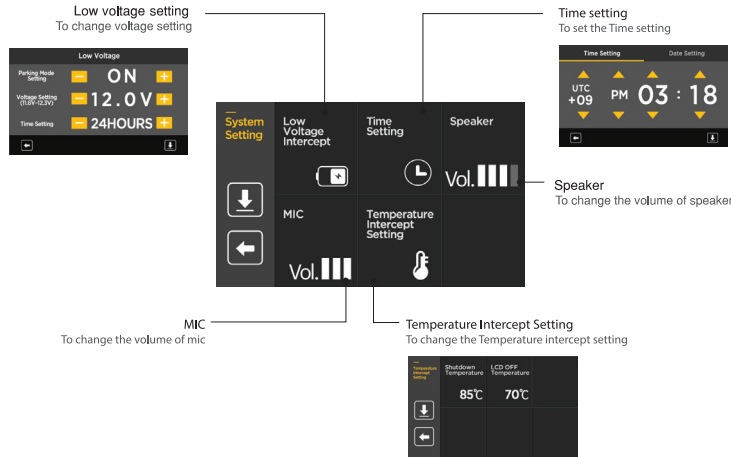
[menu ▶ ADAS] to adjust the alarm of lane departure warning system



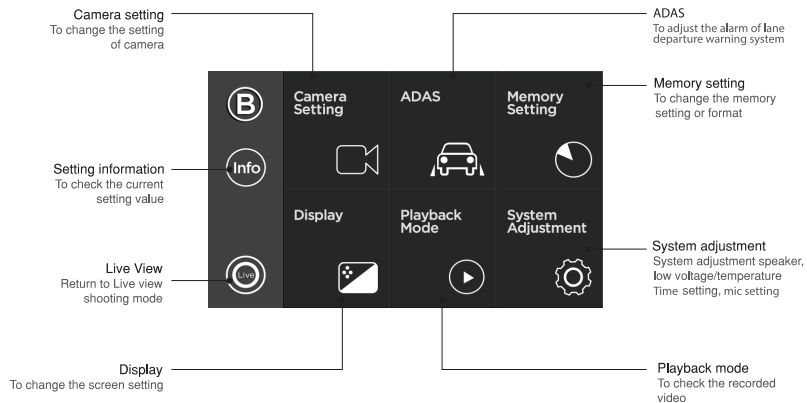
*Note

- 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

System Adjustment



Main Menu



Memory Setting

[menu ▶ memory setting] to change the memory setting
Micro SD card format – to format the activated memory card

Memory Allocation	Memory Allocation	Memory Allocation	Memory Allocation	Memory Allocation	Memory Allocation	Memory Allocation	Memory Allocation	Memory Allocation
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	micro SD card saved
Driving Normal : 35 Driving Shock : 15 Parking Shock : 15 Parking Motion : 35	Driving Normal : 40 Driving Shock : 10 Parking Shock : 10 Parking Motion : 40	Driving Normal : 50 Driving Shock : 10 Parking Shock : 10 Parking Motion : 25	Driving Normal : 25 Driving Shock : 10 Parking Shock : 15 Parking Motion : 50	Driving Normal : 80 Driving Shock : 20 Parking Shock : 0 Parking Motion : 0	Driving Normal : 10 Driving Shock : 10 Parking Shock : 70 Parking Motion : 0	Driving Normal : 40 Driving Shock : 5 Parking Shock : 50 Parking Motion : 50	Driving Normal : 30 Driving Shock : 10 Parking Shock : 10 Parking Motion : 50	
Emergency : 1GB / System : 1GB								

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

Mode		Storage Time	Storage Folder Name
Resolution		Front : 1920x1080p, 24fps / Rear: 720x480, 24fps	
Driving Recording	Normal	Total 60 sec.	Normal
	Impact Detection	Before 5 sec. / After 30 sec. Total 35 sec.	Event
Parking Recording	Impact Detection	Before 5 sec. / After 30 sec. Total 35 sec.	Parking
	Motion Detection		Motion
Urgent Recording		Before 5 sec. / After 30 sec. Total 35 sec.	Camcorder

Play Mode / Setting Information

Play Mode
[menu ▶ play mode] to check the recording videos

- 5 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 previous or next file
- Press this button to save the file in Myfolder
- Press this button to convert forward/backward
- Use the round button of play bar to move to the desired section

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

- [menu ▶ Info icon] available to initialize with basic setting value.
- When changing the basic setting value, the basic data will be deleted and rebooted.