B

750

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) : 750   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
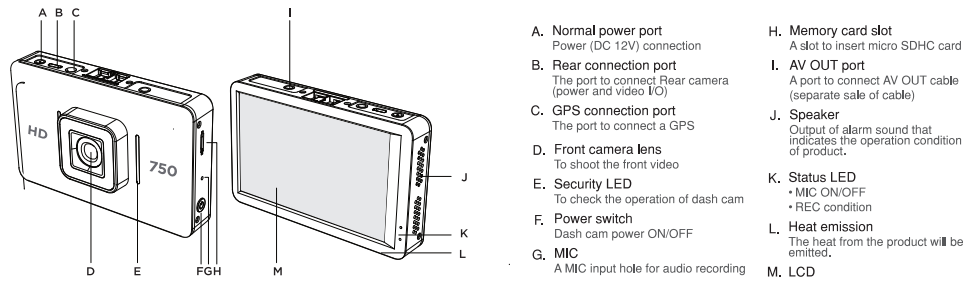
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates, 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.

⚠ CAUTION

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
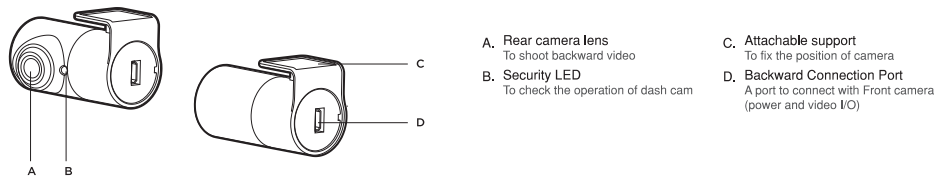
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Part Name - Front Camera

A. **Normal power port**
Power (DC 12V) connection
B. **Rear connection port**
The port to connect Rear camera (power and video I/O)
C. **GPS connection port**
The port to connect a GPS
D. **Front camera lens**
To shoot the front video
E. **Security LED**
To check the operation of dash cam
F. **Power switch**
Dash cam power ON/OFF
G. **MIC**
A MIC input hole for audio recording
H. **Memory card slot**
A slot to insert micro SDHC card
I. **AV OUT port**
A port to connect AV OUT cable (separate sale of cable)
J. **Speaker**
Output of alarm sound that indicates the operation condition of product.
K. **Status LED**
• MIC ON/OFF
• REC condition
L. **Heat emission**
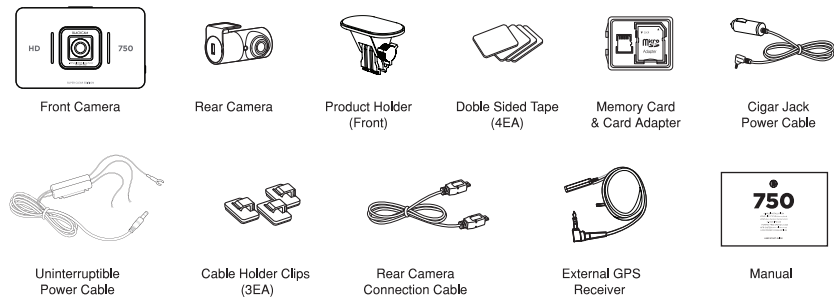The heat from the product will be emitted.
M. **LCD**

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.

A. **Rear camera lens**
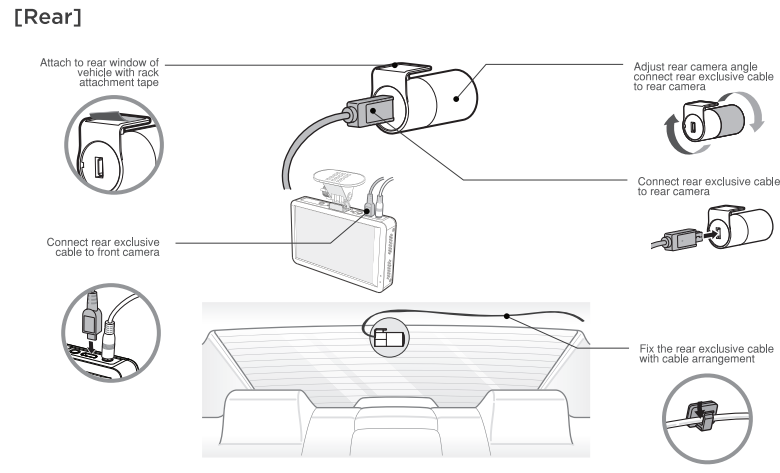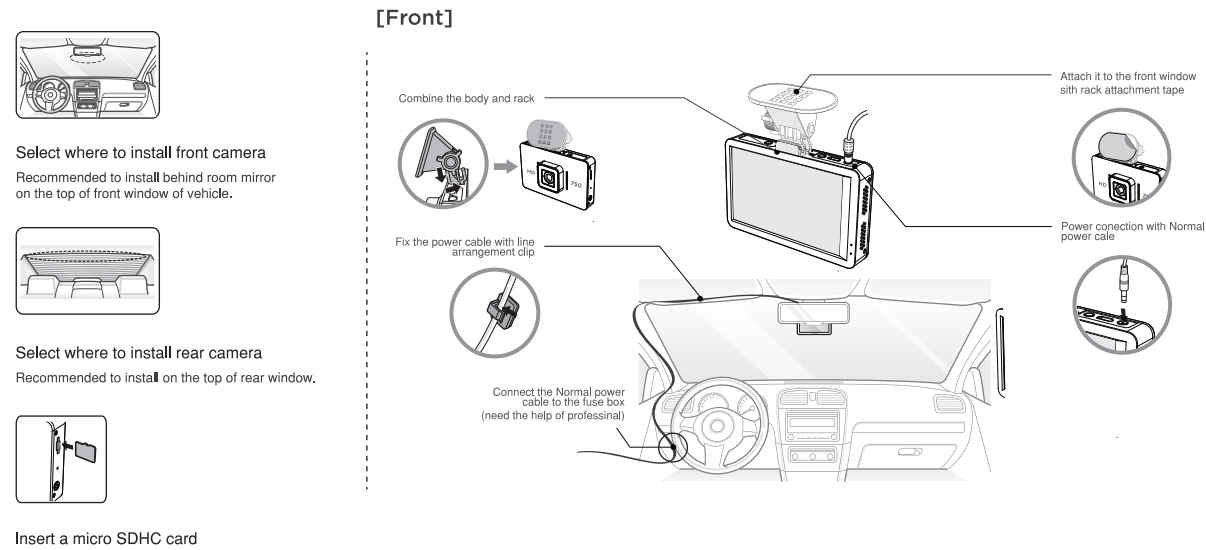To shoot backward video
B. **Security LED**
To check the operation of dash cam
C. **Attachable support**
To fix the position of camera
D. **Backward Connection Port**
A port to connect with Front camera (power and video I/O)

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

[Front]

Combine the body and rack
Fix the power cable with line arrangement clip
Connect the Normal power cable to the fuse box (need the help of professinal)
Attach it to the front window sith rack attachment tape
Power conection with Normal power cale

[Rear]

Attach to rear window of vehicle with rack attachment tape
Connect rear exclusive cable to front camera
Adjust rear camera angle connect rear exclusive cable to rear camera
Connect rear exclusive cable to rear camera
Fix the rear exclusive cable with cable arrangement

Package Components

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

Front Camera | Rear Camera | Product Holder (Front) | Doble Sided Tape (4EA) | Memory Card & Card Adapter | Cigar Jack Power Cable

Uninterruptible Power Cable | Cable Holder Clips (3EA) | Rear Camera Connection Cable | External GPS Receiver | Manual

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

Specifications

Item	Standard		Remarks
Model name	BCH-750		
Size/Weight	(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
Recording method	Nomal recording	(F) HD 720p@30fps (R) D1 480p@30fps	Recording per 1 minute unit
	Impact detection recording		5 sec before impact occurrence / 30sec, total 35 sec.
	Urgent recording		
	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 (no.of valid pixel 1280x720) / Rear D1 (no.of valid pixel 720x480)
View angle	(F) opposite angle 128 ° / horizontal 101 ° / vertical 80 ° (R) opposite angle 130 ° / horizontal 108 ° / vertical 80 °		
Video	HD wide angle lens		
Encoding	Image : MPEG-4 AVC / Voice : PCXM		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		2ch. basis
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

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Starting the Product

[LIVE VIEW]

- 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

Urgent Recording   Main Menu   Microphone On/Off   Live View

[CONVERSION of LIVE VIEW - Driving Mode]

[FRONT VEIW]   [REAR VIEW]   [PIP]   [CLOCK 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 memory card.

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

Switching to parking/stop mode.
LCD will turn off in the parking/stop mode.

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.

Main Menu

Front camera setting — To change the setting of front camera

Rear camera setting — To change the setting of rear camera

Memory setting — To change the memory setting or format

Setting information — To check the current setting value

Live View — Return to Live view shooting mode

Playback mode — To check the recorded video

System adjustment — System adjustment speaker, low voltage/temperature block setting, display, sensitivity setting, tie setting, LDWS value adjustment etc

Front, Rear Camera Setting

Resolution — Displays the recording resolution

Frame — Available to change the frame

1280x720P   30fps

Brightness — To adjust the brightness of image

Rear setting
- Record rear while parking
  to support rear camera OFF function

Definition — Available to adjust the visibility of image

Contrast adjustment — To control the contrast of image

Night image brightness — To adjust the brightness of image at night

Rear setting - mounting location — Available to set according to the location when installation

Forward

Memory Setting

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

For driving video, available to select the memory range according to operation environment of driver by dividing into Driving, Motion and Impact.

micro SDHC card saved

	Type - A	Type - B	Type - C	Type - D	Type - E	Type - F
Driving	20	20	30	40	50	50
Motion	50	60	40	40	20	30
Event	20	10	20	10	20	10

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 : 720 x 480p,30fps	
Driving Recording	Nomal	Total 60 sec.	Normal
	Impact Detection	Before 5 sec. / After 30 sec. Total 35 sec.	Event
Parking Recording	Impact Detection		Parking
	Motion Detection		
Urgent Recording		Before 5 sec. / After 30 sec. Total 35 sec.	Camcorder

System Adjustment

Low voltage/temp. block setting — To change voltage setting, time setting and block temperature setting

12.2V   12H

60℃   80℃

Speaker — To change the volume of speaker

Vol.

Sensitivity setting — To set the function of parking motion, parking impact, driving impact sensibility.

Display — To change the screen setting

OFF   PIP   Hiding

Blink   Blink

LDWS — To set the lane departure alarm

ON   Beep   70km

Time setting — To set the time

Diplay

LCD — To set the LCD OFF

LCD booting screen — To set the screen to be displayed when booting
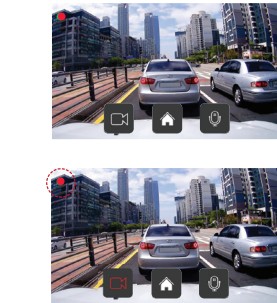
Menu button — To set the menu button

Touch calibration — To reset when the accuracy of touch falls down

after 3 minute   OFF   PIP   Hiding

Blink   Blink

Front LED — To set the front LED

Rear LED — To set the rear LED

LDWS

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

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

Auto Setting
- 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)

Manual setting
- 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)

*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

Play Mode / Setting Information

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

- 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 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 ▶ setting information] to check the current setting status

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