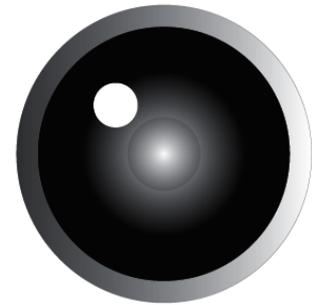


High performance
Vehicle black box

JS 450H / HV



USER MANUAL

LOGON
www.Log-On.co.kr

Before Use...

Please be sure to read this manual before use.

- **Actual product specifications may differ from what is indicated in this manual as product enhancements are implemented without prior notice.**
- **Printed at the time of production, this manual may contain technical or editorial mistakes or omission.**

The device is registered as Business A Grade equipment which assumption of use is other than Home use, and distributors and users should be cautious of usage area.

Product

JS 450H/HV is a secondary device recording detailed driving data such as Driving Video and Driving Location . Please use the data from the device for reference , depending on configuration, the device may not be available.

We are neither responsible nor compensate for any defect and damage caused by user's misuse and carelessness.

Product No. (Spec Label)

Spec Label is attached on the bottom side of product.

Product Name
& Model

Product: Smart Car DVR
Model : JS 450

Serial No.

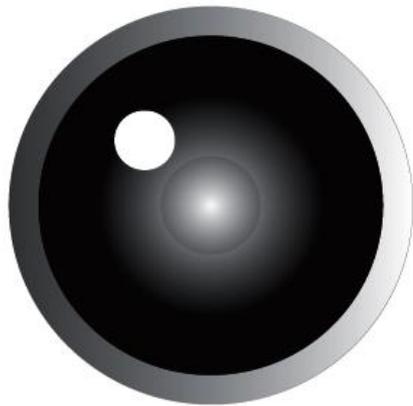


Serial No. : 1413 000001
Manufacturer : LOG ON Co.,LTD.

Made in Korea



Before Use...



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1	Features	-----	04
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FEATURES

➤ Note: Wi-Fi Feature is only for JS450HV



Wi-Fi
Easy Control



Wide Camera
Angle



Storage Upto 128G

TIME LAPSE



Hidden Type Design



Various
Cam Options



No Backup
Battery



ADAS
(Advanced Driving
Assistant System)

• PRECAUTIONS

Please be sure to read this manual before use for your safety.

To prevent causing damage to the user's property and to ensure the user's safety, please read carefully the following cautions.

• CAUTIONS

Please adjust camera angle after installation with checking the recorded file.
If the camera is installed on incorrect place, it may not record correctly.

The excessive tint could interfere GPS reception and recording .
Video recording color balance could be differed by tinting status.

Please keep window clean to get the optimized video quality.

This product is a device to record video by camera. The recorded video quality could be lowered when entering a tunnel ,or by figure's shadow contrast , on severe midday backlighting , during the middle of the night with no sun light.

The video may not be recorded when the product is damaged or the power is disconnected by a major accident.

Keep the lens clean and avoid any obstacles in the camera angle to get the clear view.
Foreign substances or finger prints on lens may give the negative effect to recorded video quality.

• CAUTIONS

Use the device under proper temperature.
Leaving the device for a long time under hot or cold temperature can be a cause of malfunction.
(Proper Temperature: 0 ~ 60°C)

Store the product under proper temperature, -5°C ~ 70°C, when not in use.
Otherwise, it can be the cause of malfunction and defect.

Do not use it under Hot temperature or wet condition.
It can cause malfunctions and defects that can not be repaired.
Manufacturer does not have the responsibility on it.

Avoid exposing this product to shock or impact and keep it away from magnetic fields or vibration.
Keep the product away from wet places.

Do not use Chemicals and detergent to wipe the product.
Please use soft cloth when wipes the product.

Do not disassemble, repair, or reconstruct without an authorized technician.

• CAUTIONS

Performing while driving can be a cause of accident.
Always park the car in a safe place first before operating the device.

Please install the product on the position where driving sight is not interfered.
It may be the cause of accident.

Please do not use any parts or accessories unauthorized by manufacturer.
We are also not responsible for any defect caused by such parts or accessories.

Prevent any foreign substance to come in contact with the memory card or the internal parts of this device, as it might cause malfunctions.

If you have any problem to use, please contact authorized local dealer or A/S center instantly to get appropriate support.
Using it continuously with the problem can cause the fatal problem.

The camera angle could be differed from the initial installation after long time use. Please have an adjustment of camera angle after using a certain period.

CAUTIONS IN USE

To prevent causing damage to the user's property and to ensure the user's safety, please read carefully the following precautions.

CAUTIONS

When uses the camera first after installation, start record for 5 minutes and check if video recording has been done correctly or not. There could be defects on SD Memory card or incorrect installation.

Do not save other files other than the video file created by JS 400 or JS 400N.
It may be a cause of malfunction.

Do not take SD card out before the system is power off completely.
The last file would not be created before LED is Off, after Engine is Off.

There should be at least 300MB free space on SD Memory card.
Please maintain SD Memory card to have the minimum free space for correct system performance.

Please format Micro SD card regularly.
It can keep stable performance of SD Memory card and minimize writing errors on Memory sectors.

Video recording error could be occurred after using a certain period since the Micro SD Card provided has a life cycle of reading and writing.
Please replace the Micro SD card with the new when the errors occur.
Manufacturer is not responsible for the errors occurred by the finished life cycle.

• CAUTIONS

Please use Micro SD card authorized by manufacturer.

Manufacturer is not responsible for the problems occurred by using unauthorized Micro SD card.

Please park your vehicle under shadow in the summer season.

- Disconnect the power when parks vehicle for a long time or not in use. Hot temperature inside of vehicle could be a cause of malfunction.
- This product is designed to disconnect the power automatically when the temperature in vehicle is higher than 80 °C to protect circuit board.

Car battery could be discharged on using direct power connection.

- Retirement Vehicle or long time parked vehicle could have lower power voltage and function.
- When connect direct car battery for Parking record mode, the battery could be discharged completely.
- JS 450H/HV has Battery Discharging Protection feature with using Parking Time Setting and Low Voltage Protection Circuit board.

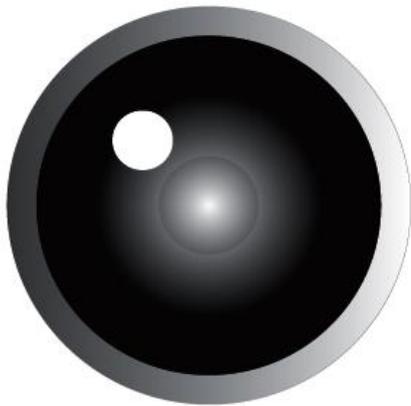
Micro SD is consumables. Please check and maintain it continuously for correct system performance.

- Warranty of Micro SD is 6 months. Manufacturer is not responsible for Micro SD longer than 6 month use.
- **Recommends formatting Micro SD card once a month.**
- To format, please use your PC or Smart Phone.

• OTHERS

- When inserts SD Card, please double check correct Micro SD card inserting direction and face.
- Please be careful. Micro SD card could be popped out by elasticity of spring when removes it from the system.
- Do not remove Micro SD Card during the system is working. It may be a cause of fatal problem of system or Micro SD Card.
- Do not remove Micro SD Card or disconnect power. It may be a cause of fatal system error and problem.
- When mounts Camera or main units with double side 3M form tape, please clean the spot to mount for firmed adhesion.
- Adhesiveness of double side 3M form tape would be weaker after multiple using, and Camera or Main unit could be detached due to it.
- When uses direct battery connection, please read this manual carefully and be sure to connect the connecting cable correctly. Incorrect cable connection can be a cause of fatal system error.
- The device may not operate on prolonged exposure to sunlight or high temperatures in summer.

INTRO



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CONTENTS

The contents could be changed to enhance the performance without notice.

CONTENTS



Main Body



FHD External Cam(Front)



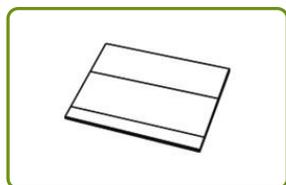
HD Rear Cam



5Pin WPMD Power Cable



SD Card & Adaptor



Quick Guide

✓ Note: Wi-Fi Dongle is only for JS450HV Model

Optional Item



External GPS



Wi-Fi Dongle
(only for JS450HV)



IR Cam



Water Proof Cam
(Normal or IR)



Cigar Power Cable

PART DESCRIPTIONS

EXTERIOR



1	Front Cam	Front External Cam Port
2	Rear Cam	Rear External Cam Port
3	GPS Port	External GPS Port
4	SD Slot	SD Card Slot
5	I/O Port	Input/Output Data Port
6	Power Connector	Power Cable
7	Wi-Fi Port (USB)	Wi-Fi Dongle Port (Only for 450HV)
8	Reset	Initializing Setting
9	Status LED	LEDs showing system operating status
10	Mounting stands & holes	Mounting stands and Screw holes

INSTALLATION



1 Insert Micro SD

Insert Micro SD card into the SD card slot on the main unit.
Before start the system, Micro SD card must be inserted .
Please be sure to insert Micro SD Card correctly as the image.

Note

★ If Micro SD card is not inserted correctly, JS 450H/HV announces the voice guide. “Please insert SD card” or “SD Card Error”.



2 Connect Front Camera Cable

Connect Front Camera Cable into Front Camera Cable port on side of the main unit as the image.

Front Camera must be connected correctly to the main unit. Otherwise, the system is not working.

The other side of cable should be connected to the external camera.

★ If the Front Camera is not connected, JS 450H/HV will announce the voice guide, “Front Camera Error”.

INSTALLATION



3 Connect Rear Camera Cable

Connect Rear Camera Cable into Front Camera Cable port on side of the main unit as the image.

The other side of cable should be connected to the external camera.

4 Connect GPS Receiver Cable

Connect external GPS Receiver into GPS port on the main unit as the image. Attach GPS Receiver on the spot where GPS reception is not interfered as the image. We strongly recommend to attach GPS receiver on Window as the image. **(The part attached on the window is Antenna side.)**

Note

★ Do not put GPS with camera and camera cable together. It will interfere GPS reception. Do not make them tangled. And keep at least 30 Cm distance each other, when you install GPS and Camera.

5 Connect Power Cable

After above installation process, please connect Power cable to the Power Port.

When connects the power correctly, Blue and Red LED lamps will be On as the image.

INSTALLATION



6 Adjust Camera Angles

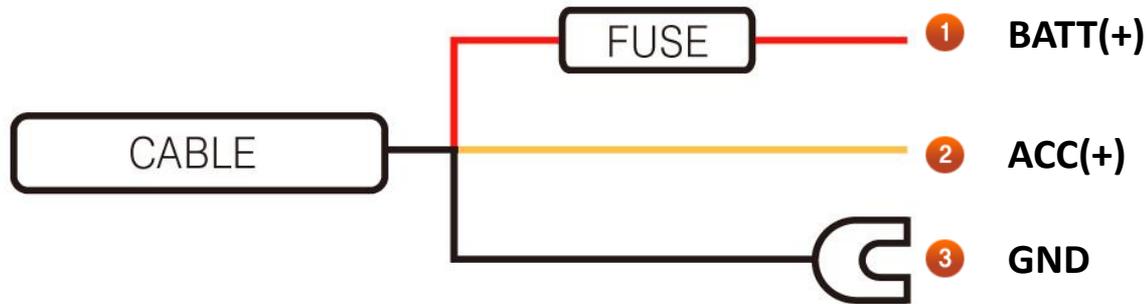
Records video for several minutes and check the camera angles through the Live video view on Wi-Fi App.

You can play the recorded video on your Smart Phone Wi-Fi App or PC Viewer.

CASE of INSTALLATION



DIRECT BATT. CONNECT



1 Red Wire BATT(+)

Connects Red wire of Power cable provided to regular Car Power in Fuse Box.
(Ex : Emergency Lights, Interior Lights, Tale Lights...etc.)

2 Yellow Wire ACC(+)

Connects Yellow Wire of Power Cable provided to the fuse that power comes in when engine is started.
(Ex : Cigar Lighter, Audio)

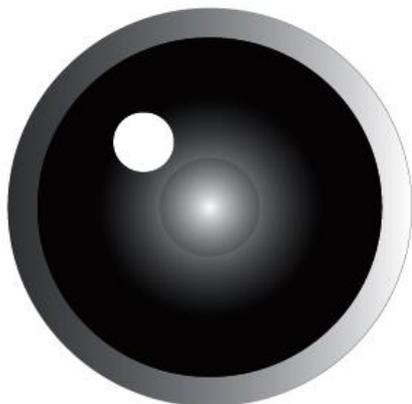
3 Black Wire

This is Ground. Connects it with metal parts of vehicle, such as metal bolt, screw...etc. as the image.



※ Wire color may be changed by circumstances of wire provider.

START



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STATUS LED

Starts System



1 Starts System

When connected to power , "Red" & "Green" LEDs are on while the system is booting up. (Voice : System begins)

After the boot completes, the Wi-Fi module is ready to be connected to the network. (Voice : Network is connected) → Only for JS450HV Model

When the recording starts, "Green" LED is off. (Voice : Infinite recording starts)

Note) Depending on the status of Wi-Fi network signal, the connection may be delayed somewhat. → Only for JS450HV Model

Closes System



2 Closes System

If you stop using the system and disconnect power, the LEDs will be Off instantly.

STATUS LED

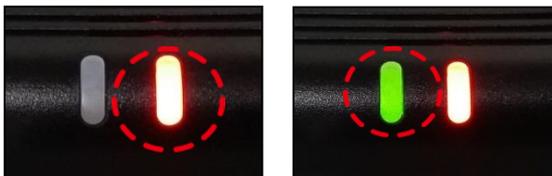
Recording



3 Recording Status LED

When "Red" LED is On, it indicates that recording is in progress. When the normal event occurs "Red" LED will blink at every 0.5 second intervals.

Operation Mode



Driving Mode



Parking Mode

4 LED on Each Mode / GPS Reception

• Driving Mode

- "Red" LED is always On.
- "Green" LED indicates GPS Reception status.
- When GPS is activated, "Green" LED blinks once at 5 second intervals.

• Parking Mode

- "Green" LED and "Red" LED will alternately blink.

STATUS LED

• System Error



Red LED

5 System Error

- **SD Card is not inserted**
 - "Red" LED will blink once every 2 second.
Insert the SD memory, the system will restart.
- **Front Camera is not connected correctly**
 - "Red" LED will blink once every 2 second.
When front camera is connected, the system will restart.
- **Other Errors**
 - "Red" LED repeatedly flashes at 0.25second intervals.

NOTE)

When the rear camera is not disconnected, automatically records only by front camera and the error is not occurred.
If the rear camera gets disconnected during recording, then records only front after restart system.

STATUS LED

6 LED Indications

ITEM		Green LED	Red LED	LED Pattern	Blink Interval	Note
Upgrade				Blinking / Blinking	0.5sec / 0.5sec	
Booting				ON / ON		
Driving Mode	GPS Disabled	OFF		OFF / ON		No GPS
				Blinking / ON	20sec	No 3D FIX
	GPS Activated			Blinking / ON	5sec	3D FIX Status
Parking Mode				Blinking / Blinking	1sec / 1sec	Red / Green Alternately
EVENT		OFF		OFF / Blinking	0.5sec	
ERROR	SD	OFF		OFF / Blinking	2sec	
	Front Camera	OFF		OFF / Blinking	2sec	
	Others	OFF		OFF / Blinking	0.25sec	

Folder Structure

Folder Name	Type	Description
CONFIG	Configuration Setting	· Configuration setting and system file are saved
EVENT	Event	· Even files occurred during Infinity and Parking Recording are saved
INF	Infinity Recording	· Infinity(Normal) recording files are saved
PARK	Parking Recording	· Motion Event files during Parking Recording are saved
USER	Manual Recording	· Manually recorded files during Infinity and Parking Recording are saved

Folder Name	Description				Example
	Type	Sort	File Name	Rec. Channel	
CONFIG	Configuration Set		config.bin boot.txt		
EVENT	Event	EVT	YearMonthDay_HourMinuteSec_Sort_Cam Channe.avi (YYYYMMDD_HHMMSS_EVT_Rec.Channel.avi)	1 or 2	1Ch : 20160101_133025_EVT_1.avi
					2Ch : 20160101_133025_EVT_2.avi
INF	Infinity Rec. (Normal Rec.)	INF	YearMonthDay_HourMinuteSec_Sort_Cam Channel.avi (YYYYMMDD_HHMMSS_INF_Rec.Channel.avi)	1 or 2	1Ch : 20160101_133025_INF_1.avi
					2Ch : 20160101_133025_INF_2.avi
PARK	Parking Rec.	PRK	YearMonthDay_HourMinuteSec_Sort_Cam Channel.avi (YYYYMMDD_HHMMSS_PRK_Rec.Channel.avi)	1 or 2	1Ch : 20160101_133025_PRK_1.avi
					2Ch : 20160101_133025_PRK_2.avi
USER	Manual Rec.	USR	YearMonthDay_HourMinuteSec_Sort_Cam Channel.avi (YYYYMMDD_HHMMSS_USR_Rec.Channel.avi)	1 or 2	1Ch : 20160101_133025_USR_1.avi
					2Ch : 20160101_133025_USR_2.avi

Configuration Setting Items

Category	Item	Values	Default	Descriptions
Video	Rec. Quality	Low, Middle, High	High	It sets the recorded video quality.
Sensing Level	Sense on Drive	Impact Event 0 ~3	2	Set Impact event sensing level on Infinity Rec.
	Sense on Park	Impact Event 0 ~3	2	Set Impact event sensing level on Parking Rec.
	F-Cam Motion	Motion Event 0 ~3	1	Set Front Camera Motion Event Sensing level on Parking Rec.
	R-Cam Motion	Motion Event 0 ~3	1	Set Rear Camera Motion Event Sensing level on Parking Rec.
	Time Lapse	On/Off	Off	
Audio	Volume(Speaker)	Low, Middle, High	Middle	Set speaker volume level.
	Audio Rec.	On/Off	On	Set if record Audio or not.
	Voice Guide	On/Off	On	Set if use Audio guide or not.
Date&Time	Time Setting			Sync with GPS time.
	GMT Time	-12 ~ +14	+8	Set your local time with GMT.

Configuration Setting Items

Category	Item	Values	Default	Descriptions
Battery Protection	Cut off Volt	11.7/23.7V, 11.9/23.9V, 12.1/24.1V, 12.3/24.3V	11.7/23.7V	To protect Battery discharging, set battery cut off voltage level during Parking Mode. (Device will be cut off automatically on the setting value.)
	Cut Off Time	After 6Hr, After 12Hr, After 24Hr, After 48Hr, Continue	After 6Hr	To protect Battery discharging, set power cut off time during Parking Mod. (Device will be cut off automatically on the setting value.)
	Parking Mode	On/Off	On	Select if uses the function that instantly switches the Rec Mode to Parking when turns off the engine.
Network	Wi-Fi Password			Change Wi-Fi Password.
ADAS	LDWS	On/Off	On	Select Lane Departure Warning System On or Off.
	Stop & Go	On/Off	On	Select Stop & Go feature On or Off.
System	SD Card Format			SD Card Format.
	SD Card Partition	Driving First, Event First, Parking First	Driving First	Allocate Memory by usage.
	Initialize			Initialize Setting values.
	Language	English, Korean, Japanese, Chinese	English	Set the language for Voice Guide

GMT

NO	GMT	NO	GMT	NO	GMT
1	+14:00	15	+6:00	29	-3:30
2	+13:45	16	+5:45	30	-4:00
3	+13:00	17	+5:30	31	-4:30
4	+12:45	18	+5:00	32	-5:00
5	+12:00	19	+4:30	33	-6:00
6	+11:30	20	+4:00	34	-7:00
7	+11:00	21	+3:30	35	-8:00
8	+10:30	22	+3:00	36	-9:00
9	+10:00	23	+2:00	37	-9:30
10	+9:30	24	+1:00	38	-10:00
11	+9:00	25	+0:00	39	-11:00
12	+8:00	26	-1:00	40	-12:00
13	+7:00	27	-2:00		
14	+6:30	28	-3:00		

Voice Guide

No	Case	Voice Guide
1	System starts	System begins
2	System close	System shutdown.(or Ding Dong Dang~ Effect sound)
3	System reboot	System is rebooting
4	Infinite recording starts	Infinite Recording Mode begins
5	Parking Rec Mode starts	Parking Recording Mode begins
6	Event Rec starts	Ding Dong~ (Effect Sound)
7	Recording close(Replay, Getting into Setting)	Recording stops
8	Motion Rec starts	Ding Dong~ (Effect Sound)
9	Manual Rec starts	Ding Dong~ (Effect Sound)
10	When SD card is not detected / No SD Card	No memory inside. Insert memory card
11	When SD size is less than 8GByte	Memory card is not compatible with the device. Please replace memory card
12	SD Card recognition error	Memory card error

Voice Guide

No	Case	Voice Guide
13	SD Card Cluster Size error	Necessary to format the memory card. It begins format automatically in 30 seconds
14	SD Card Format	Memory card is formatting. Please wait a moment
15	Firmware Upgrade	Firmware is upgrading. Do not turn off the device
16	Stop & Go Warning	Caution, ahead
17	LDWS Warning	Caution! Lane Departure
18	When GPS is connected	GPS is connected
19	When GPS is removed	GPS is removed
20	When High Temp setting level is reached to the setting value	High-temperature cutoff function is activated and the device shut down because temperature limit is over.
21	When Voltage cut off level is reached to the setting value	Battery discharge cutoff function is activated to prevent from battery discharge
22	When Power cut off level is reached to the setting time	
23	Audio recording starts	Audio recording is ON
24	Audio recording is off	Audio recording is OFF

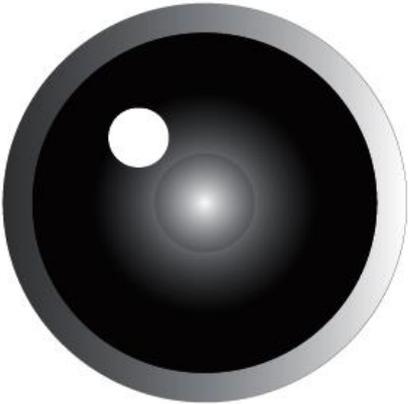
Product Specifications

PARTS		SPECIFICATION / DESCRIPTION
CAMERA	Resolution	Front : 1920 x 1080P / HD 1280 x 720 P
	Video Angle	Front more than 130° / Rear : 130°
	Lens	All glasses
STORING	Video/Voice	Permanent Recoding / 2M Pixel
	Video	AVI (Format Free Support)
	Voice	PCM
	GPS	NMEA on SD card
RECORD	Type	Driving/Event/Parking/Manual
	Driving	60sec/each
	Event	20sec (before and after 10sec the shock)
	Parking	20sec (before and after 10sec the motion) when Parking mode
	Manual	Record 10sec before and 10sec after when press manual button
VIDEO	Display	External Display through Wi-Fi
POWER	Driving	ACC On
	Parking	ACC Off (wait to 3min after ACC Off)
	Off	Adjustable (11.5~12.2 at 12V, 23.5~24.2 at 24V), turn-off after wait to 3min when reaches at OFF voltage

Product Specifications

PARTS		SPECIFICATION / DESCRIPTION
VOLTAGE		12V or 24V (range : 9V ~ 36V DC)
MICROPHONE		BUILT-IN
SPEAKER		BUILT-IN
EXT CAMERA		2.5Φ Plug
GPS		External
Wi-Fi		External USB Type / 802.11 b/g/n
Wi-Fi App		Android / iOS
LED		2 LEDs (RED/GRN)
SD CARD	Slots	1 Micro SD
	Capacity	Up to 128 GB
POWER COMPUTION		Max 4W (2Ch FHD+HD+Wi-Fi)
OPERATING TEMP		0°C ~ 70°C
STORGE TEMP		-30°C ~ 85°C
POWER CONNECTION		CAR BATTERY (CAR FUSE BOX) and Cigar Cable

PC Viewer & Smartphone App (For JS450Hv Model)



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(Only for JS450HV Model)
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PC Viewer Guide

Installation

1 Setup File Name

LOGON PC Viewer_Setup.exe

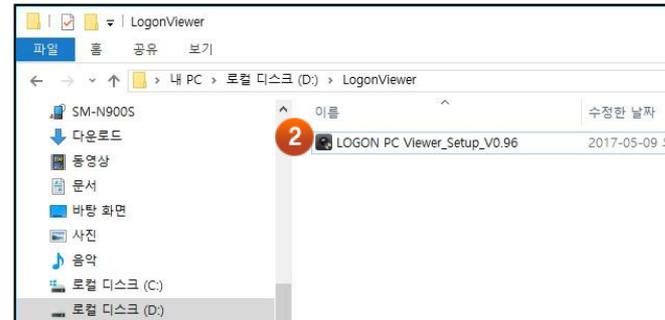
You can download it from our Web Site.
<http://www.log-on.co.kr/download/>

2 Start installation

Double click setup file downloaded to start program installation.

3 LOGON PC Viewer Install wizard

Click "Next"



PC Viewer Guide

Installation

4 Installation Folder

Choose the installation folder and click “install”



5 Progressing installation



6 Installation complete

Click “Finish”



7 Icon

When the installation is complete, the icon appear on the desktop.



PC Viewer & Smartphone App

PC Viewer Guide

Parts Description

The screenshot shows the PC Viewer interface with the following labeled components:

- Top Bar:**
 - Open/Select Drive
 - Open SD
 - System Info.
 - Image Capture
 - Print
 - Setting
 - Minimize
 - Max Screen
 - Close
- Main View:**
 - Cam 1 View (Left)
 - Cam 2 View (Right)
- Bottom Control Panel:**
 - Next Frame
 - Next File
 - 1 Sec Forward
 - Play
 - 1 Sec Backward
 - Previous File
 - Play Time Slide Bar
 - G-Sensor Graph
 - Zoom in
 - Zoom out
 - Full Screen
 - Switch
 - Delete
 - Timelapse
 - Play Speed (0.5x, 1.0x, 1.5x, 2.0x)
 - Speed Unit (62.00 km/h)
 - Volume
 - Time Lapse
 - File Save
 - Delete File
- File List Panel (Bottom Right):**
 - File List
 - Google Map
 - File List (Table)

Mode	Date	Hour	Duration	File Name	
<input type="checkbox"/>	Normal	20170517	075905	01:00	20170517_075905_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080005	01:00	20170517_080005_INF_2.avi
<input checked="" type="checkbox"/>	Normal	20170517	080105	01:00	20170517_080105_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080205	01:00	20170517_080205_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080305	01:00	20170517_080305_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080405	01:00	20170517_080405_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080505	01:00	20170517_080505_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080605	01:00	20170517_080605_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080705	01:00	20170517_080705_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080805	01:00	20170517_080805_INF_2.avi
<input type="checkbox"/>	Normal	20170517	080905	01:00	20170517_080905_INF_2.avi
<input type="checkbox"/>	Normal	20170517	081005	00:22	20170517_081005_INF_2.avi
<input type="checkbox"/>	Parking	20170517	081041	00:20	20170517_081041_PRK_2.avi

PC Viewer Guide

Configuration Set

Insert Micro SD Card, and select SD card drive. Then Configuration Setting button will be activated, then click it and Configuration Setting window pops up. You can also set the configuration on your Smart Phone App.



LOGON Configuration

Video
Video Quality: Low Middle High

Power Option
Cut-off Voltage: 11.7/23.7V 11.9/23.9V
 12.1/24.1V 12.3/24.3V
Cut-off Time: 6 hours

Sound
Voice Guide: Disabled Enabled
Voice Recording: Disabled Enabled
Speaker Volume: Low Middle High

Location
Language: Korean English
 Chinese Japanese
Timezone: +8:00

Memory Space
Memory Allocation: Normal-Priority Parking-Priority Event-Priority
Parking Rec.: Disabled Enabled
Time Lapse: Disabled Enabled

G-Sensor Level
Normal Rec.: Normal
Parking Rec.: Normal
Front Cam Motion Sensing Level: Insensitive
Rear Cam Motion Sensing Level: Insensitive

Safe Driving
LDWS: Disabled Enabled
StopGo: Disabled Enabled

WiFi Password
12345678

Time set
2017-05-18 19:51:08
 PC Time Save time

Product Information
Firmware Version: JS450H V0.41

Default Format Initialize Save Cancel

Smart Phone Application

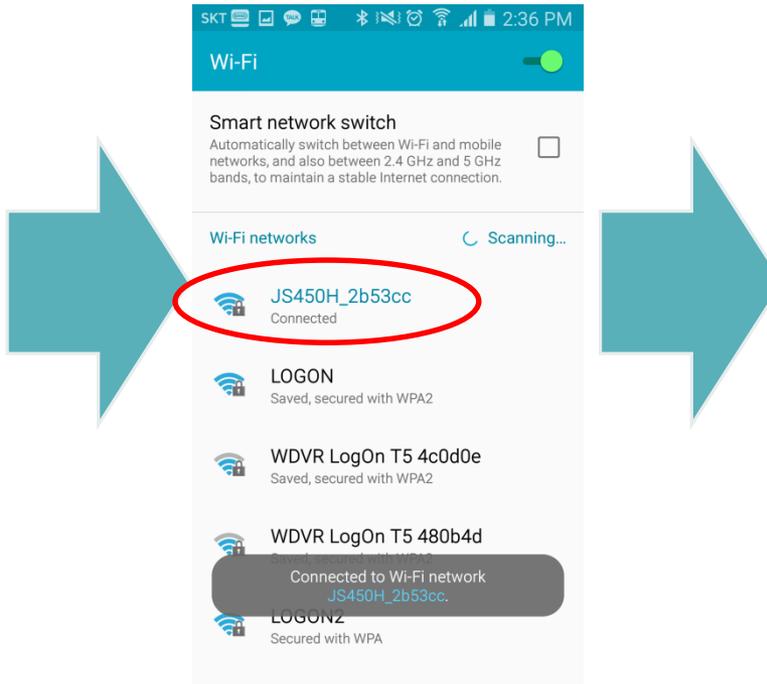
Download App & Connect Wi-Fi

- Access "Play Store" (Access "App Store" for iOS)
- Search "SmartBB" and install it.
- Run App and connect Wi-Fi as below images

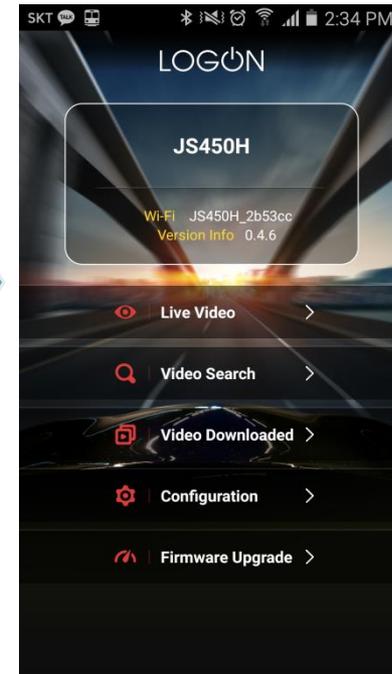
- Run "SmartBB" icon



Connect "JS450_xxxxx" on Wi-Fi list



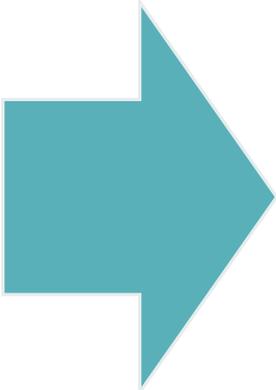
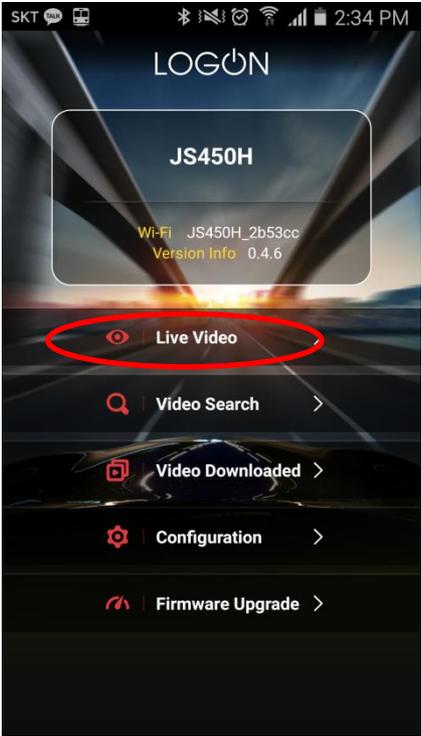
- Access Main Menu



Smart Phone Application

Live View

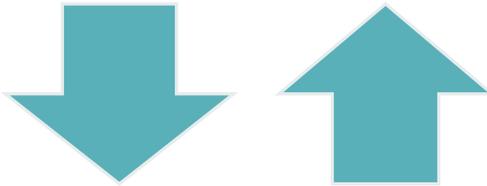
- Select "Live Video" on the Menu



- Front Cam Live View



Switch Front and Rear Cam View



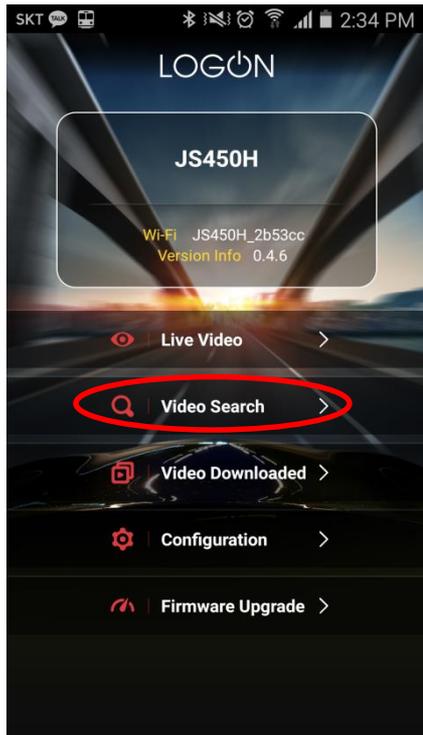
- Rear Cam Live View (IR Cam Video)

PC Viewer & Smartphone App

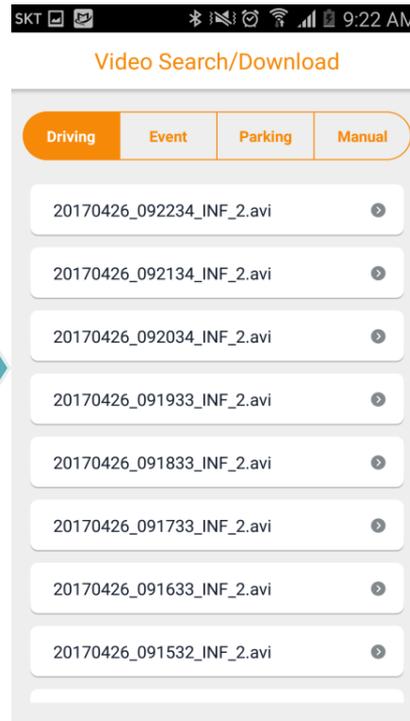
Smart Phone Application

Search & Save or Play

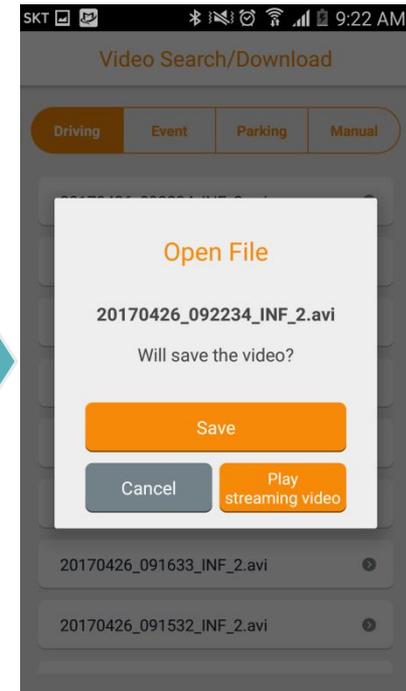
- Select Video Search on the Menu



- Select Video File



- Play File or Save

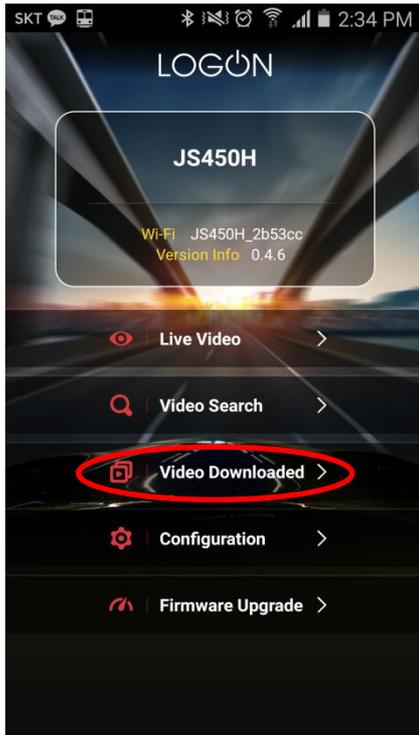


PC Viewer & Smartphone App

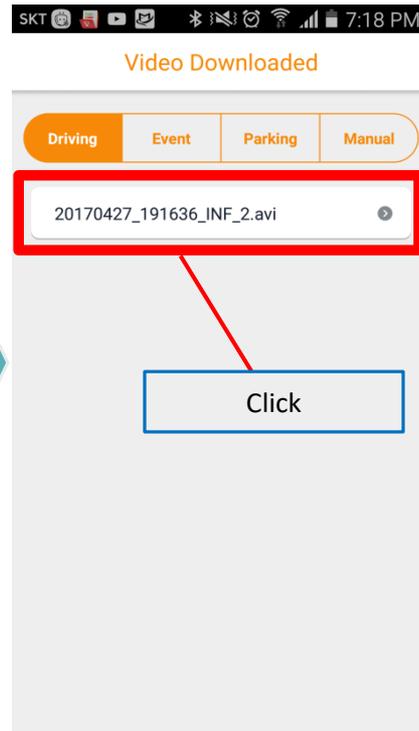
Smart Phone Application

Play File Saved

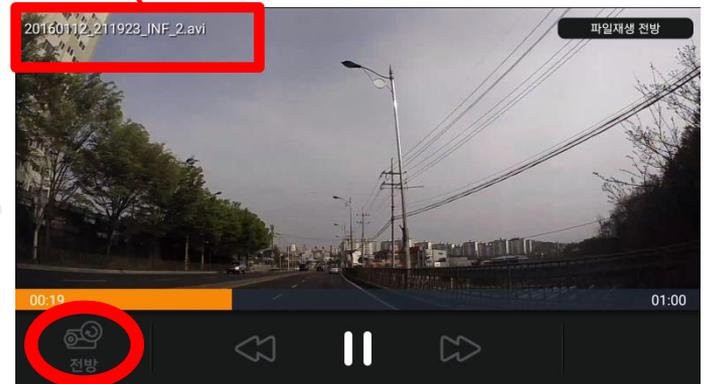
- Select "Video Downloaded" on the Menu.



- List of Files saved



File Name

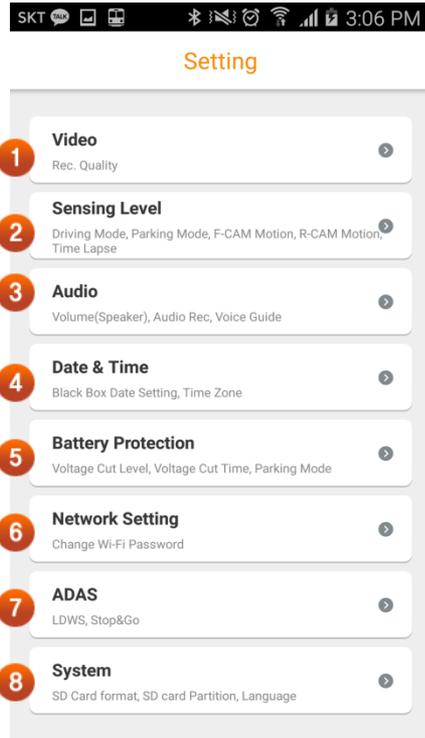
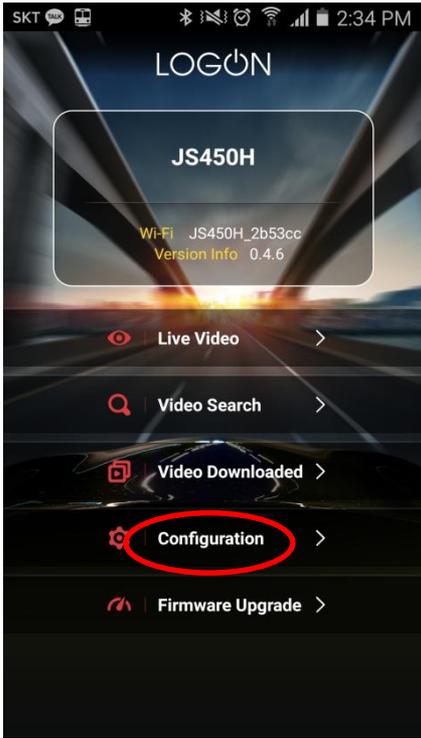


Switch Front and Rear Cam Video

PC Viewer & Smartphone App

Smart Phone Application

Configuration Setting



Category	Item	Values
1 Video	Rec. Quality	Low, Middle, High
	Driving Mode	0~3
2 Sensing Level	Parking Mode	0~3
	F-Cam Motion	0~3
	R-Cam Motion	0~3
	Time Lapse	On/Off
3 Audio	Volume(Speaker)	Low, Middle, High
	Audio Rec.	On/Off
	Voice Guide	On/Off
4 Date & Time	Black Box Date Setting	
	Time Zone Setting	-12 ~ +14
5 Battery Protection	Voltage Cut Level	(11.7/23.7), (11.9/23.9), (12.1/24.1), (12.3/24.3)
	Voltage Cut Time	Continue, Power Off after 6/12/24/48 Hours
	Parking Mode	On/Off
6 Network Setting	Change Wi-Fi Password	
7 ADAS	LDWS	On/Off
	Stop & Go	On/Off
8 System	SD Card Format	
	SD Card Partition	Preferred Driving/Parking/Event
	Initialize	
	Language	Korean, English, Chinese, Japanese