

Full  
HD

2.4  
Mega Pixel

Sony Image Sensor



Multiple-Language  
Support



Low-voltage Cut-off Function

LUKOS

Full HD Blackbox  
Dash Camera  
Driving Recorder  
酷维行车记录仪  
차량용 사고영상 기록장치

LK-7900 Ara & LK-7500 Real  
User's Manual



## Thank you for purchasing LUKAS dash cam!

This manual explains specifications of Lukas dash cam and how to use it.

Please read this manual carefully before using the product for your convenience.

You can download manuals, product firmwares and Lukas viewers at our website: [www.lukashd.com](http://www.lukashd.com)

### Read Carefully Before Use

- ※ Be sure to read the manual to ensure the correct use of this product.
- ※ Qrontech retains all rights to this manual in accordance with the copyright law.
- ※ Some functions may change without notice for quality improvement of the product.
- ※ There may be some differences in functions depending on the product's firmware version.
- ※ This manual is for the users of LK-7900 ARA and LK-7500 REAL. Please note that there may be some technical & editorial errors and omissions.
- ※ This device is designed as a guide for safe driving. In the event of an accident, the driver must take full responsibility. Please use this device accordingly.

### ▮ Scope of Guarantee and Responsibility ▮

- ※ This device is an equipment for recording videos and sounds to provide visual proof of a car accident, but we do not guarantee that it will record all accident videos and sounds.
- ※ We will not be held responsible for any damages due to a malfunction of this product, damage caused by data loss or other damages related with this product.
- ※ In general, the life span of the memory card is about 6 months, and there may be data loss due to static electricity or external voltage existing in the surrounding environment.  
For this reason, it is highly recommended to copy and save important data to other media (hard disk, CD, portable memory etc.).
- ※ Even in the event of a car accident, if an impact is not big enough, the internal sensor may not detect the impact for the auto-recording.
- ※ SD card may have corrupted images (omission of image recording, image cuts, frame change and omission, other defects in image recording) due to a slow-down in reading/writing speed and other defects. Be sure to use a genuine SD memory card, and format it periodically (Once a week for 16GB).
- ※ This device is an auxiliary device to record driving videos. Please use this device for references purposes only. There may be times when recording is unstable due to various driving conditions.

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## 1 Cautions in Usage

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- 1. Do not leave the product in a hot or cold place for extended periods of time.**

Exposure to direct sunlight in the summer or cold weather in the winter for an extended period of time may cause malfunction or damage. When not using the product, storage temperatures should carefully be watched.  
※ Color of the UV filter frame may change when exposed to direct sunlight for a long time.
- 2. Do not attempt to service the device.**

Do not attempt to disassemble, modify, or repair the device. Warranty cover will be void if a repair has been attempted by the user or an unauthorized source. For inspection and maintenance, please call our customer service center.
- 3. Do not alter or cut the cigar jack cable.**

This may damage the product or the car. Any resulting damage to the product or the car shall be the responsibility of the user.
- 4. Do not touch the area around powered switch of this product with wet hands, or allow water to enter the product.**

The product is not waterproof, and exposure to water may cause malfunction, a fire or electric shocks. When cleaning the product, use a soft dry cloth instead of water, volatile liquid or detergent.
- 5. Do not cause any heavy impact on the product, or put in other materials.**

Excessive impact, load or injection of alien material can cause its malfunction.
- 6. Only use compatible power cables and accessories that have been certified by the manufacturer.**

We will not be held responsible for product damage or other losses resulting from the use of non-certified parts.
- 7. We do not guarantee the operation of devices and accessories that we have not supplied.**

We only guarantee the compatibility of devices and accessories that bear a certificate of compatibility with this product. Any problems with incompatibility are the responsibility of the user.
- 8. Do not operate the dash cam for a long period of time while the car's engine is not running.**

This will run down the car battery, which will make it difficult to start the motor.
- 9. The product may not operate at a high temperature when 'Use of High Temperature Safety Mode' is selected.**

If the product is used at a high temperature, the recorded video may be changed or damaged, and the product may also be damaged. For the protection of the device and to ensure stable recording, the product has the function to stop the operation at high temperatures. By default, it is set to stop recording at temperatures higher than 70°C.  
(When 'Use of High Temperature Safety Mode' is set in the PC viewer program configuration.)
- 10. When the surrounding brightness changes radically, the quality of the recorded image may be affected.**

Remember that the quality of the recorded video may be lowered when the car enters/exits a tunnel, the background light is too strong or there is no light around it at night.
- 11. When an accident occurs with an impact lower than a certain threshold, the event data may not be recorded.**

When an accident occurs with an impact lower than a certain threshold, the event data may not be recorded. In addition, if the power is cutoff during a big accident, the video may not be recorded.

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12. Do not pull out the power cable while using the product or use it at a voltage other than the specified voltage.  
Do not pull out the power cable while using the product or use it at a voltage other than the specified voltage as this may damage the product or cause a fire.
  13. Some PC may not support Lukas viewer or there may be some disconnections in voice/image depending on PC's specifications.
  14. AE operation may not function normally at night on the color of the vehicle(black, red) reflecting less light.
  15. There may be omissions in frames due to rapid AE change such as darkened surroundings caused by AE operation
  16. The AE operation is affected by the installation angle.  
Please reset the installation angle of the dash cam if AE operation malfunctions.
  17. There may be noise in the video when recording in poor lighting environments.
  18. In the event of a sudden change of frame or driving→parking modes, there may be a loss in recorded data.
  19. When you stop or park the car, the recorded video may shutter due to the car's vibration.
  20. Motion detectors may malfunction due to changes in surrounding lights, weather and environment. Additional video files may be created by continuous motion detection.
  21. When parking in the underground parking lots and low light environments, the motion detection function may not operate normally due to noise and vehicle security LEDs.
  22. The left/right side video quality of this product may differ due to the characteristics of the wide-angle lens.
  23. Traffic lights may not be seen correctly or appear to be flickering on the recorded video depending on the location of street lights and power frequency.
  24. If you notice any problem in using the product, call the customer center for consultation.  
If you notice any problem in using the product, call the customer center for consultation. If you continue to use the product, the problem may worsen and you may not be able to get proper customer supports.
  25. This product does not have built-in battery discharge prevention function.  
If you connect directly to the vehicle battery, there is a risk for battery discharge. To prevent this, Lukas continuous power supply kit must be installed.
  26. This product supports OBD II interworking system, however we recommend users to inquire of seller or manufacturer about the car models that support the system and more detailed information before use. (software/hardware change)

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## ■ Installation Cautions ■

1. **Do not place any other objects near the product.**  
Please do not leave other objects near the product, as objects near the product may produce reflections on the front window of the vehicle.
2. **Be sure to keep the camera lens from being covered by dust, dirt or any other substance that may affect the quality of recorded video.**
3. **Do not attempt to install or operate the product while driving.**  
For your safety, please do not attempt to install or operate the product while driving. Attempting to do so may cause a traffic accident.
4. **Please keep the product securely fixed.**  
An incorrectly installed product may not operate properly, or may fall off and affect your driving.
5. **Please avoid using excessively dark window tinting, as it may render the recorded video hazy or distorted.**
6. **Install this product at a point farthest from the antenna of the receiver if possible.**  
The electromagnetic waves produced by the dash cam may result in a drop in signal reception.
7. **Video may appear dark when using the CPL filter.**  
We don't recommend using the CPL filter at night, or for cars with tinted windows. (Depending on tinting conditions, a rainbow effect may appear on recorded videos)
8. **When using the CPL filter, remove the UV filter first.**  
Depending on the camera angle, the CPL filter may cause a vignette effect on some images.

## ■ Cautions Regarding GPS ■

1. A typical GPS receiver achieves an accuracy of 15 meters. There may be conditions where GPS signals cannot be received depending on the driving environments such as tunnels, underpasses, skyscrapers, and street lights which affect the accuracy level.
2. It may take some time to receive GPS signal for the first time after power is turned on depending on the weather and other factors.
3. External devices (electronic, toll device) and window tinting may affect GPS reception.
4. The speed may vary (range of 1–30 km/h) depending on the reception area where the vehicle is parked.
5. GPS information may be lost when switching off the dash cam.

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## ■ Cautions Regarding Memory Cards ■

- 1. Do not remove the SD card by force while the product is in recording mode.**  
Be sure to turn off the product before removing the SD card. Removing the SD card when the device is turned on may damage the video file or cause an operation error of the SD card.
- 2. Please format the SD card at least once a week, (recommended for 16GB cards)**  
Repeated read–write operations may damage the files contained in the SD card. For this reason, regular formatting can prevent the files contained in the SD card from being damaged. In addition, the maximum lifespan of the SD card is six months, and we shall not be liable for any recording problems incurred by the use of an SD card beyond this period.
- 3. Always use SD cards supplied by the manufacturer.**  
We shall not be responsible for any problems caused by using SD cards not provided by the manufacturer.
- 4. Handle with care when inserting and removing SD card to avoid burns.**  
The SD card operates at very high temperatures, so you must be careful when handling the card.
- 5. Operating temperatures may vary depending on the performance of SD cards.**
- 6. Be sure to back up your recorded videos using an additional storage device. (PC, external HDD, etc.)**
- 7. A backup of the SD card data using an external storage device may prevent the loss of important data.**
- 8. Be sure to format the SD card when changing mode setting on Lukas viewer.**
- 9. Please set the configuration settings again when there is a change in the storage capacity of an SD card.**  
**Failure to do so may result in a critical error.**  
e.g.) 16GB → 32GB or 32GB → 16GB
- 10. Format SD card on a PC or on the device using the format function.**  
Connect the SD card to the PC using SD card reader to format or use the format function of the product.

## 2 Product Features

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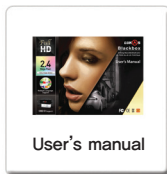
- ▶ **2.4M Pixel (1/2.9") CMOS Sony Full HD Image Sensor**
- ▶ **Full HD Best Display Quality** : 1920x1080p Full HD recording Max 30fps or 1280x720p HD recording / 16:9 wide screen
- ▶ **Viewing Angle Minimizing Distortion** : Diagonal angle(approx. 135°) 1080p/  
Effective angle: Horizontal angle (approx. 107°) Vertical angle (approx. 55°)
- ▶ **Diverse Recording Functions Support**
  - Driving Recording : Continuous creation of recorded files in units of 3 minutes.
  - Event Recording : Records total 30 seconds before/after an impact is detected.
  - Emergency Recording (Manual Recording) : Records total 30 seconds before/after pressing the button.
  - Parking Recording (Motion Detection) : Records total 30 seconds before/after impact or motion detection.
- ▶ **Built-in High-performance Microphone** : Voice and image can be recorded at the same time. (Voice Recording ON/OFF: Environment Setting on Viewer or, 'Enter' button of the device)
- ▶ **Direct Format Function** : Format SD card directly on Lukas dash cam, (refer to page 13)
- ▶ **Built-in Super Cap** : There is no need to change the battery as it is semi-permanent and even when the power is cut off, recorded data can be safely saved.
- ▶ **External Video Output** : Provides real-time recorded videos of the dash cam through V-out terminal. (AV cable can be purchased separately)
- ▶ **Equipped with Car Battery Discharge Prevention Function (LK-7500 only)**
  - ※ Separate power safety device is required for LK-7900 for use of Parking Mode after vehicle engine is off. (Not equipped with low-voltage cut-off feature)
- ▶ **Built-in 3-Axis Impact Sensor(G-Sensor)** : Separately saves the recorded files for impacts detected.
- ▶ **Auto-Deletion of Recorded Videos** : If the memory is fully filled, the oldest video is deleted and most recent video is saved.



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- ▶ **Built-in Security LED:** Prevents accidents by indicating that dash cam is installed with security LED when recording in parking mode.
  - ▶ **OSD Display:** Displays time and date on the bottom of the recorded video. (But it is not displayed on external video outputs)
  - ▶ **General Media Players & Lukas Viewer:** Check driving information and recorded videos on Lukas viewer. Only video playback is supported for other media players.
  
  - ▶ **Firmware Upgrade Function:** Supports firmware upgrade for correction of error and functional improvement of the product.
  - ▶ **High-temperature Safety Mode:** Function to protect the dash cam in high temperature condition. (Approx. 70°C)
  - ▶ **Time Notification:** Voice announcement of time at fixed intervals i.e. Every hour. (selectable on Setting of Lukas viewer)
  - ▶ **Multi-function Lukas Viewer :** Customized recording is provided for each situation on the settings of Lukas viewer.
  
  - ▶ **Supports Voice Guidance in 21 Languages :** English, Korean, Russian, Chinese, French, Spanish(Europe, South America), Arabic, Japanese, Thai, Vietnamese, German, Mogolian, Turkish, Italian, Hindi, Czech, Cantonese, Portuguese, Bahasa Indonesia, Bahasa Melayu

### 3 Product Composition

#### || LK-7900 Ara ||



- This package guide is based on type B (Non-OBD type) model.
- Check if there are all the component items as in the picture above.
- AV cable (purchase separately) is used to connect the dash cam and the products with AV IN terminal such as navigator and monitor.
- ※ Components may be changed without notice to improve product function or quality.
- ※ Using Lukas consumable items are recommended. The use of other consumables may restrict warranty service.
- ※ CPL filter may improve the spread reflection of the video during the day and noise or dimming of video may occur during the night.
- ※ CPL filters are not recommended for cars with tinted windows or cars that are frequently driven at night.
- ※ CPL filter creates vignette effect on parts of the video due to viewing angle of the lens.

≡ LK-7500 Real ≡



Main unit  
(UV filter included)



Hard wire  
power cable



Memory card



User's manual



Adhesive tapes



Fixing clips



CPL filter  
(Optional)



AV cable  
(Optional)



OBD II module  
(Optional)



External GPS  
(Optional)

## 4 Names of Product Parts

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### || LK-7900 Ara ||



### || LK-7500 Real ||



	Designation	Function
1	Installation Mount	Attached to the windscreen of the vehicle
2	Security LED	Security LED is kept on while power in on
3	Lens	Video recording, CMOS digital sensor
4	37mm UV Filter	Lens protection
5	Power Switch	Switch on/off the power
6	Micro USB	Connection of OBD II module
7	AV-OUT	Real time video output of dash cam using video output terminal
8	Emergency Recording Button (E)	Press longer than 3 sec: Manual switch of Driving ↔ Parking Mode
		Press shorter than 2 sec: Emergency(event) recording
9	Screws	Used to fix and set direction of the dash cam
10	Speaker	Various effect sound and sound output
11	Segment LED	Displays time, speed, status, etc.
12	DC Input Terminal	Power supply with the power connector
13	SD-card Slot	For insertion/removal of memory card
14	Voice Recording Button (M)	Press longer than 3 sec: Segment LED On/Off
		Press shorter than 2 sec: Voice Recording On/Off
15	GPS In	Connection of GPS

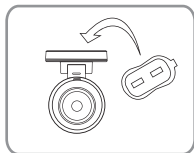
- If you switch voice recording and sound effects on/off with the button, it will reset the device configuration setting values to default when the dash cam is rebooted.

[ [How to format SD card](#) ]

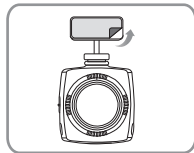
Method	Direct format from dash cam
Steps	<ol style="list-style-type: none"> <li>1. First, insert SD card into the dash cam and switch the power on then wait until booting is completed.</li> <li>2. Press no.8 'E' button and no.14 'M' button at the same time.</li> <li>3. Phrase segment LED "For" will blink on screen (waiting time 15 sec)</li> <li>4. Format starts: Press no.8 'E' button, 'For' disappears, and after voice alarm, it reboots (time consumed 12 sec/32GB standard time)</li> </ol>

\* Dash cam may reformat the SD card again depending on its type even though it was formatted from PC

## 5 Installation Guide

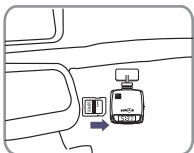


LK-7900 Ara

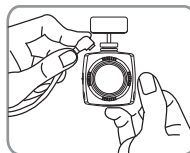


LK-7500 Real

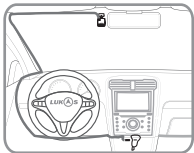
1. Apply the double-sided tape to the mounting bracket or to the holding deck of dash cam.



2. Select the place on the front window (behind the rear view mirror) not to interfere the driver's vision and attach the dash cam. Insert the SD card into the camera.



3. Connect the power cable to the main body of the device and push in the power cable along the A pillar (pillar beside the driver's seat).



4. Insert the power cigar jack and then start the engine to check if the firmware version is displayed on the segment window of the dash cam.

※ When adjusting the dash cam angle, it is better to use the video-out port for adjusting the angle so that you can check the image being displayed on the screen (AV cable is optional).

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## © Cautions When Installing

- ※ For the safety, be sure to check the following details before installation and follow the installation steps.
- ※ Park the car on a bright and flat ground and turn off the engine. Remove the key and then start the installation.
- ※ Clean the window glass where the dash cam will be attached.
- ※ Check the power terminal and the video-out terminal of the dash cam in advance before installing.
- ※ If the lens of the dash cam is set upwards, the product may not work properly.
- ※ To secure the optimum video quality, keep the front window clean at all times.
- ※ If the lens of dash cam is contaminated with impurities (e.g. fingerprint), the recording quality may be affected. Therefore, keep the lens clean at all times.
- ※ Ensure that there is no interference with the the driver's vision before attaching the device.

## 6 How to Adjust Camera Angle

The camera angle of Lukas dash cam can be adjusted up, down, left and right by the user. As the image quality may differ depending on how the angle is set, it is better to adjust the angle properly in accordance with to the following explanation.

※ Right images are the ones photographed at the same time and same place by just changing the angles up and down. Blue boxes on the left shows how the angle can be adjusted with different proportions of moving and fixed images. They are only examples, and it can be changed by the user appropriate for the vehicle (e.g. the slope of the windshield)

Moving Image 60%  
Fixed Image 40%

It is the image photographed in a car with Lukas dash cam installed with the camera angle adjusted to the ratio of 6:4. It maintains the appropriate brightness and resolution and, as you can see, it can photograph even the signal light in front of it when the car stops exactly at the stop line.



Moving Image 50%  
Fixed Image 50%

This problem occurs when it is bent excessively downward. As you see, there is no problem in brightness, but the correct information can hardly be obtained because the signal light is not seen.



Viewing angle is located at the end of the hood

If the viewing angle is installed too upwards, the screen gets generally dark due to the sun light. As shown here, the brightness of image may depend on the angle.



(Not Recommended)

Wait!

Due to the optical lens' inherent characteristics, there may be 20% unclear, distorted and left/right deviation. It generates 10% or lower deviation on left/right sides (10% or lower based on MTF).



20% 60% 20%



## 7 SD Card Usage

You can choose the video quality in Settings of the Lukas viewer. There is a difference in recording time depending on the video quality. (Type X: Y: Z = Always(Driving) : Event : Motion(Parking))

### 1. Driving Recording ( 215MB per video file / 3 minutes)

X:Y:Z	16 GB	32 GB	64 GB	128 GB
70:10:20	49 ea	101 ea	205 ea	413 ea
80:10:10	56 ea	116 ea	235 ea	473 ea
50:20:30	34 ea	71 ea	145 ea	294 ea

### 2. Event Recording ( 39MB per video file / 30 seconds)

X:Y:Z	16 GB	32 GB	64 GB	128 GB
70:10:20	38 ea	79 ea	161 ea	325 ea
80:10:10	38 ea	79 ea	161 ea	325 ea
50:20:30	79 ea	161 ea	325 ea	653 ea

### 3. Parking Recording ( 39MB per video file / 30 seconds)










X:Y:Z	16 GB	32 GB	64 GB	128 GB
70:10:20	79 ea	161 ea	325 ea	653 ea
80:10:10	38 ea	79 ea	161 ea	325 ea
50:20:30	120 ea	243 ea	489 ea	982 ea








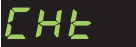


※ There may be subtle differences in the above charts as it was calculated using 10Mbps as standard. And video data transfer volume can also be another factor.

## 8 Segment Messages and Voice Guidance

### Segment LED Messages of Lukas dash cam

※ Entire segment message blink when event recording occurs.

Segment LED Message	Voice Guidance	Details
	Welcome, this is Lukas dash cam. Drive safely.	Firmware version appears at the initial boot of dash cam. (Firmware version may differ according to types of product models.)
	–	After boot is completed, parking/stopping time is displayed. (This may differ according to configuration)
	–	After boot is completed, parking/stopping date is displayed. (This may differ according to configuration)
	–	Displays the speed when driving. (Depends on configuration)
	Voice recording started. Voice recording stopped.	When the sound recording function is activated, the right DOT will blink.(3-second interval)
	–	Recording resolution is HD (720p). Dot on the bottom blinks.
	–	Appears when the voltage of input power is low. Dash cam is on standby and segment message blinks.
	Driving mode recording started.	When switched to driving mode, it displays 'drv.'
	Parking mode recording started. / Parking motion detection mode started.	When switched to parking mode, it displays 'PAR'.

Segment LED Message	Voice Guidance	Details
	Firmware update starting. Do not turn off the power. Firmware updating is complete.	When starting the firmware update, 'UPdA' appears.
	Format SD card.	When formatted by force, it blinks 'For' and stays in standby mode.
	No SD card detected.	When SD card is not inserted or removed by force, 'Sd_FAIL' is displayed.
	–	Appears when SD card is in need of formatting.
	–	If the dash cam is exposed to a hot environment while High-temperature safety mode is activated, 'SAFE' is displayed and the function starts.
	–	When the power goes off, 'SEE You' is displayed.
	Weekly car-free alarm function is activated.	If the function is activated, 'dAY' is displayed.
	Recording failure 2 / Recording failure 3 Please format.	It is displayed when there is a need for SD card format.
 ? 	–	Err0: RTC problem occurred. It needs to be repaired. Err1: Camera cannot be connected. It needs to be repaired. Err2: Memory card problem occurred. (Format the SD card then use again) Err3: Recording problem occurred. (Turn the power switch off and on again. It should be repaired if the problem persists.) Err4: OBD module communicating problem occurred. (Check the connection of OBD cable)

## 9 Basic Functions

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### ■ Power Connection ■

First, check if SD memory card is inserted into the main body. Then, start the engine while the the power to the dash cam is on. (Keep the power on.)

- While Booting: After the power supply, the firmware version is displayed on the segment window.  
(Version is displayed for about 23–30 seconds after booting and it changes to time display)
- Booting Complete: The recording starts after the voice announcement: “Welcome, this is Lukas dash cam, Drive safely”

### ■ Recording During Driving ■

- Driving Recording: While booting, voice alarm is said, And recording starts and the recorded video is saved in Always Movie folder.
- Event (Impact detection) Recording: When it detects an impact greater than the one set up by the user (crashing, quick braking, speed bump etc.), it starts the event recording and issues the sound effect once, blinking the segment window. The recorded video is saved in the Event Movie folder and the total recording time per file is 30 seconds before and after the event.
  - ※ The impact sensitivity level of G-sensor can be set up in the configuration of Lukas viewer.
  - ※ If another impact occurs during the event recording, it does not work until the first event recording is finished.
  - ※ If the power is turned off during the event recording, the power goes out after the completion of event recording.
- Emergency recording (Manual Recording): Even without any impact, if the emergency recording button is pressed, the dash cam will record and save the video in the Event Movie folder. The total recording time per file is 30 seconds before and after pressing the button.
  - ※ The emergency recording cannot be operated during an event recording.
  - ※ During the emergency recording, event recording will not operate even when an impact is detected.
- If SD Card Is Removed While recording.
  - (1) If SD card is removed from the device while recording, the video being recorded cannot be completed normally and becomes an unreadable video file.
  - (2) It can have a severe damage on SD card and the device.

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## ■ Termination of Recording ■

- ◆ When the engine is turned off, the power of the device also goes off and the recording will shut down (when the cigar jack cable is being used). Following the below steps for turning off the device is helpful for maintaining the lifespan of the device and preserving the data.
  1. In case of manual recording, it is better to wait for about 20 seconds before turning off the power.
  2. When the device is turned off, 'SEE You' message will appear on the segment window with the voice guidance "Terminating the system". Then, the power goes off.
    - ※ Notice: If SD card is removed before the power is off, an error may occur in the recorded video. Be sure to remove SD memory card only after turning off the device completely.
  3. If the power cable is pulled out from the cigar jack, it can prevent the discharge of car battery.  
(This is applied only to the cars where the battery power is supplied to the cigar jack even if the car engine is 'off'.)

## ■ Recording While Parked ■

1. The change to parking mode can be made in two ways: manual and automatic.
  - Manual: Press the emergency recording button for longer than 3 seconds. Then, 'PAr' sign blinks on the segment window to show the change to parking mode.
  - Automatic: If 'Auto Change to parking mode' is checked in the setting, the sign 'Par' blinks automatically about 10 min after the car stops and it is switched to parking mode. After completion of the change to parking mode, the sign 'Par' stops blinking and the voice guidance is said according to the setup.
    - ※ When switching to the parking or driving modes, it stops the recording and therefore the video data of about 5 seconds may be lost.
2. "Parking" is indicated at the bottom of the parking recording screen when playing the saved video.
  - ※ If it is switched to parking mode from driving, event, and manual recording, each recording is stopped to be switched to the parking mode. Therefore, it can cause the time delay.
3. When selecting motion detector, 30-second-long video is saved in the Motion Movie or Event Movie folder only in the event of motion detection or impact.
  - ※ When there is no motion detected, recording is not carried out. And in the event of motion detection, the security LED will flicker fast.
  - ※ Some movements may not be detected in the areas with no light.
  - ※ Parking mode is supported when power safety device is installed, and the operation time of recording in parking mode may differ depending on the battery status.
  - ※ Motion detector may cause omission of frames in recording depending on surrounding environments.

---

## ■ Basic Recording Mode ■

1. Always(Driving) Recording: It is saved under Always Movie folder. It records in units of 3 minutes during driving. It is not recorded in parking mode.
2. Event Recording: It is saved under Event Movie folder. The recording works under an impact while parked or driving. It is possible to configure using "G Sensor" in Lukas viewer.
3. Motion Recording: It is saved under Motion Movie folder. It only operates while parked and is possible to activate using "Motion Detector" in Lukas viewer

## ■ Recording Mode Setting ■

1. Always and Event: Always Movie, Event Movie, Motion Movie folders are created. The video is saved under Always Movie (driving recording) and Event Movie (event recording) driving mode. When in parking mode, only event and motion recording files will be recorded and saved. It does not record continuously but only 30 seconds before and after when the impact is detected.
  - ※ There may be video recording problems, or it may continue to operate in motion recording depending on surrounding environments. Therefore, the sensitivity level of G-sensor must be set by the user depending on various parking environments. Frequent movement while parked in an alley may interrupt motion detection recording.
2. Event: Always Movie and Event Movie folders are created, and event recording is used only in driving and parking modes.

## ■ Playing Recorded Video ■

1. In case that the video has to be checked urgently, turn off the power of the main device and, after checking the voice guidance "Terminating the system" and the sign 'See you' on the segment window, remove the memory card.
2. Insert the memory card into the PC or laptop, and play it on Lukas viewer or a other media players.
  - ※ Some media players may not play the video.

### [When playing back on media players other than Lukas viewer]

Get into My Computer/Portable Disk/Recorded Video Folder, and double-click the video file you wish to check or drag it to the screen of the player.

### [When playing back on Lukas viewer]

Start Lukas viewer. Click OPEN on the top of the viewer. Select My Computer/Portable Disk/Recorded Video Folder, and press ENTER. Double-click the file to open and it will appear on the right hand side in the list. Then the video will start playing.

---

## ■ Checking Real-Time Video ■

1. To check real-time video, connect the camera to external input (AV In) on devices such as a GPS navigation device or TV. It can be used to adjust the dash cam angle.
  - ※ Some frames may be left out when connected to external output display during driving. Please remove the video output cable after adjusting the angle. Due to connected external devices, it may not work properly, which may cause a problem in recording the video.
  - ※ OSD will not be shown in the external output display.

## ■ Checking Driving Information ■

This function is only available for GPS-built-in models. Lukas dash cam is able to store approx. 100,000 driving information on the SD card. Setting intervals for saving driving information in the configuration allows the dash cam to save the driving information of your vehicle at defined intervals.

### [How to check driving information]

1. Insert the SD card having the driving information into your SD card reader and then into your PC, followed by running Lukas viewer.
  - Then, click on the [Information] tab on the settings.
2. You can view each driving information at the user-defined saving intervals.
3. Clicking on selected driving data will display a corresponding map.

## ■ Operation of Security LED ■

1. In always mode: LED is kept on
2. In parking mode: LED blinks
3. When motion detection or event recording occurs: LED blinks fast
  - ※ Setting is changeable and LED doesn't operate when set to off.

## 10 Lukas Viewer

### Program Installation



- ※ You can download viewer program from Lukas website ([www.lukashd.com](http://www.lukashd.com)).
- ※ Viewer icon, name or design, etc. may differ according to the product model or use of OBD II.

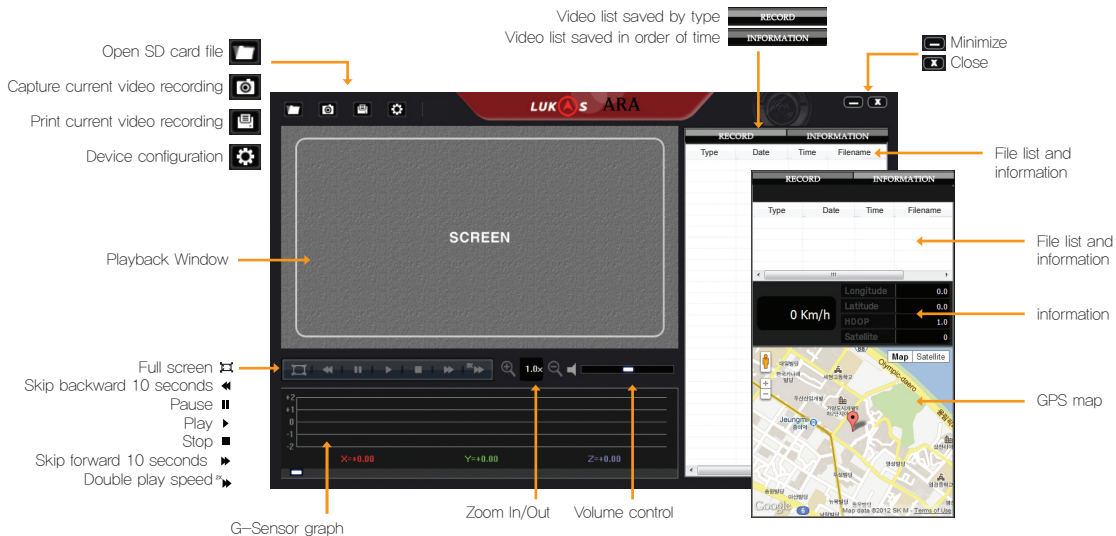
#### Recommended PC specifications for using Lukas viewer

OS: Windows XP SP3, Vista (32Bit), 7(32/64bit)  
H/W: Quad core 2.8Ghz/ 4G RAM  
Web browser: Microsoft internet explorer 7.0  
Direct X version: Direct X9.0 (JUNE2010)  
Others: Windows.NET Framework 3.5

- ※ This Lukas dash cam records in Full HD resolution. However, there may be display and sound cuts, changes in play speed, and other errors depending on the computer type.



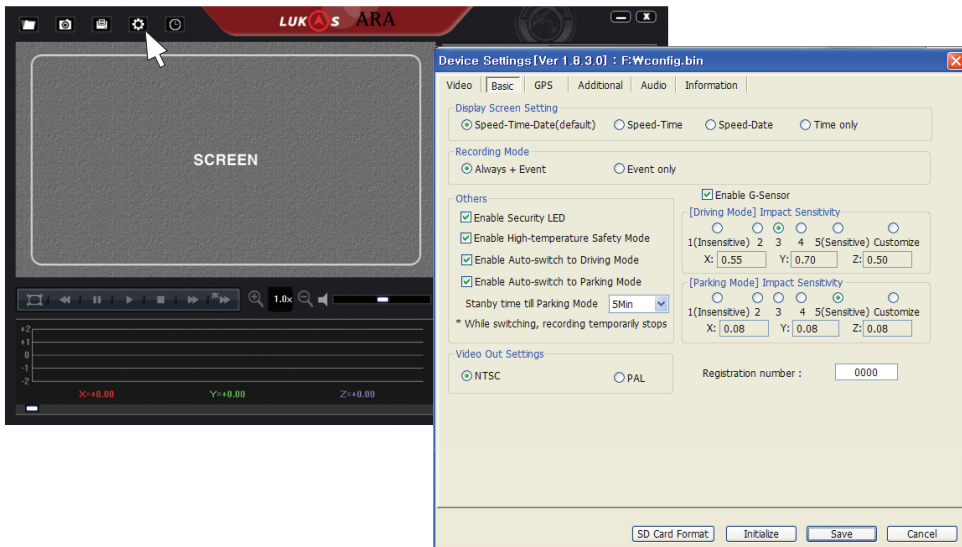
## Components in Viewer Screen



- ※ GPS map information may not be displayed if the PC is not connected to internet or if GPS reception is poor.
- ※ Map linking will only work on Internet Explorer 7.0 or higher version.
- ※ Use full screen to maximize FULL HD resolution.
- ※ Design of viewer may vary according to the device model.

## Device Configuration

You can change diverse settings using “Setting” in the program menu.



## Video Screen Details



- |   |                |                       |   |
|---|----------------|-----------------------|---|
| 1 | 2013/10/11 Fri | Driving date          | YY/MM/DD Day  |
| 2 | / 1080P        | Resolution            | Full HD(1920x1080)<br>HD(1280x720)                    |
| 3 | / 11M          | Image quality(Mbps)   |   |
| 4 | / 13.4V        | Input voltage         |   |
| 5 | 80Km/h         | Current driving speed |   |
| 6 | A              | GPS reception         | A: GPS reception<br>V: No GPS reception<br>F: GPS off |
| 7 | always         | Recording mode        | Always<br>Parking<br>Motion<br>Event                  |
| 8 | 16.96Km /      | Mileage               |   |
| 9 | 18 : 00 : 04   | Time                  | HH:MM:SS  |

※ OSD display can be changed after firmware upgrades.

## 11 Product Specification

Items	Specification	Details
Camera	2.4M Pixels CMOS Sensor, 1/2.9(inch)	
Viewing Angle	Lens: Diagonal angle(approx. 135°) / Effective angle: horizontal (approx. 107°) vertical (approx. 55°)	
Recording Resolution	1920×1080p(Full HD) or 1280×720p(HD)	
Recording Speed(Max)	30fps	
Sensitivity	0.5 Lux	
Video Compression	H,264 (AVI Format)	
Gravity Sensor	Built-in 3-axis gravity sensor (impact, sudden brake, sudden start)	
GPS	LK-7900 : Built-in Sirf Star III / LK-7500 : Built-in Ublox 8	
Storage Medium	Supports SD/SDHC/SDXC memory card (Basic 8GB, Max, 512GB)	
Viewer program	General media players and Lukas viewer program.	
Audio	Built-in microphone and speaker	
Operating Voltage and Current Consumption	Operating voltage: DC 10V-24V Average current consumption: LK-7900: approx. 200mA(13.4V) / LK-7500: approx. 186mA(13.4)	with GPS module
Video Output Mode	NTSC / PAL	
Operating Temperature	LK-7900: -20℃ ~ 80℃ / LK-7500 : -20℃ ~ 70℃	
Storage Temperature	LK-7900: -30℃ ~ 90℃ / LK-7500 : -30℃ ~ 80℃	
Size / Weight	LK-7900: 90x70x48(mm) / approx. 128g	UV filter included
	LK-7500: 96.6x59x36.4(mm) / approx. 110g	UV filter included

# How to Hardwire Continuous Power Cable.

1

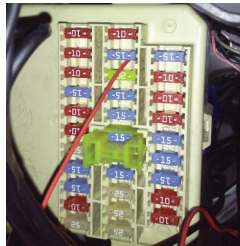


Before you open or work on a fuse box, be sure that your vehicle's ignition is turned off. Then, locate the fuse box and the chart that shows you what each fuse is for. Choose where to wire the continuous power cord and the ACC wire.

※ Use fuse tools to easily insert and remove individual fuses.



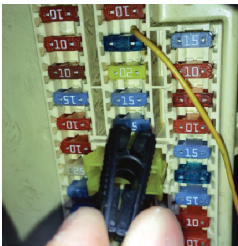
2



Identify a fuse that has no power (e.g. cigarette lighter, audio etc.) to connect with the red ACC wire and insert it back to fuse box.

- ※ Location of ACC power supply may differ depending on the vehicle.
- ※ Please connect the ACC wire to the output terminal. If wired incorrectly; there is a risk of a fire.

3



Identify a fuse that has power (e.g. emergency lamp, indoor lamp, tall lamp etc.) to connect with the yellow B+ wire and insert it back to fuse box.

- ※ Location of B+ may differ depending on the vehicle.
- ※ Please connect the ACC wire to the output terminal. If wired incorrectly; there is a risk of a fire.

4



Connect the black GND terminal to a grounding source (e.g. metal component)

※



If the power cable is improperly hard-wired, the device will not function properly.

We recommend that users use a dual fuse holder as seen in the adjacent photo to make the process easier.

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# How to use mounting brackets.

## 1. Rotating Type Mounting Bracket



1. Remove power cable from the device.



2. Press the protruded part of the bracket outwards.



3. Pull the dash cam out slightly.



4. Take the dash cam out of the bracket as you twist the other side.



5. Dash cam is separated from the bracket.

※ Be careful not to damage the bracket by forcibly pulling both sides at the same time when separating the dash cam from the bracket.

---

## 2. Fixed Type Mounting Bracket



- 1.** Remove power cable from the device.



- 2.** Press the protruded part of the bracket outwards.



- 3.** Slightly push the dash cam out of the bracket.



- 4.** Dash cam is separated from the bracket.



## Quality Assurance

Model Name		Product S/N	
Customer's Name		Purchase Date	
Customer's Phone Number		Purchased Place	

1. A standard one-year warranty is provided from the date of purchase.  
However, a six-month warranty is provided for accessories, including memory cards.
2. This device has been manufactured under the strict quality control and test procedure.
3. This manual works as the warranty. Please keep it carefully as it is not re-issued.
4. When requesting a repair, please present this warranty.
5. We are not responsible for any costs incurred to install or uninstall the device, regardless of warranty status.

### ■ Certification Information ■



1. Certified Company: QRONTECH Co., Ltd.
2. Equipment (Model) Name: Lukas dash cam (LK-7900/LK-7500)
3. Certification Number : KCC-REM-QRN-ACE (LK-7900)  
KCC-REM-QRN-CUTY (LK-7500)
4. Manufacturer/Country : QRONTECH Co., Ltd / South Korea  
Dealers or users shall take note that this is not for domestic use as this machine is an electromagnetic equipment for business purposes (B Level).



Conformité Européenne  
(European Communities; EC)  
EU Joint Standard Certification



Federal Communications Commission  
Electromagnetic Wave Suitability  
Certification

