

BLACKVUE™
R-100 REARVIEW KIT
MANUAL



BLACKVUE™ R-100
REARVIEW KIT

PITTASOFT
www.blackvue.com

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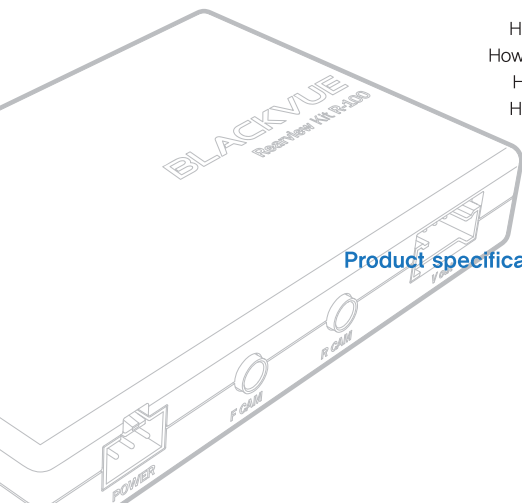
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Introduction to the Manual

Thank you for purchasing a BlackVue R-100 from Pittasoft Co., Ltd. This user's manual contains information on how to operate the R-100. Please read all the contents of this manual carefully before using the product. The contents of the manual may be changed without notice to improve the performance of the product in the future.

» Warranty and Support

- Pittasoft Co., Ltd. is not responsible for any problems caused by using this product illegally, in accordance with the Personal Information Protection Law and related laws and regulations,
- This product is an auxiliary equipment to check rear views, Pittasoft Co., Ltd. does not assume responsibility for profit or loss caused by any accidents,

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► Cautions for Safety

- **Do not disassemble, repair or remodel the product randomly.**
This may cause a fire, electric shock or breakdown of the product. Please request internal inspection or repair from the Customer Satisfaction Centre.
- **If the product has been exposed to water or other foreign objects, disconnect the power lines.**
Please request repair from the Customer Satisfaction Centre.
- **Do not use any damaged or modified cables. Please use the cables provided by the manufacturer.**
It may cause an explosion, fire or malfunction.
- **Do not operate with wet hands.**
This may cause an electric shock.
- **Do not install in places with high humidity, highly flammable liquid or gas.**
This may cause an explosion or fire.
- **When cleaning the inside of the vehicle, do not spray water or wax directly on the product.**
There may be a risk of fire, electric shock or failure.
- **If you notice smoke or odour from the cables, remove them promptly.**
Please contact the Customer Satisfaction Centre or the dealer.
- **Do not use voltages other than the input voltage.**
It may cause an explosion, fire or malfunction.
- **Plug cables all the way until the end, so they will not move.**
This may cause an explosion or fire.
- **Do not cover the product with cloths or blankets.**
This may cause a fire or deformation of the exterior of the product. Always use the product and other contents in ventilated areas.
- **If the product is used outside of the optimal temperature range (0 °C ~ 60 °C), this may cause performance.**
Avoid direct sunlight when installing the product.
- **Make sure the product is installed properly.**
- **Please be fully aware of how to use the product and the precautions before operating.**
- **It is recommended to install the product at official BLACKVUE dealers.**
The official dealers can be found at the webpage(www.blackvue.com).
- **Please disconnect the power cable if you will not be using the product for a long time.**

» Product Features



Car Dashcam video recording and simultaneous playback of rear camera images in real time

For DR650GW-2CH and DR650GW-2CH TRUCK models only Car Dashcam recording and checking the rear view camera images simultaneously in real time



Automatic video playback of rear camera when vehicle is reversing

Automatically displaying rear camera images on the LCD when the reverse signal is detected helps safe driving.



Playback of rear camera images anytime and anywhere the driver wants

Use the video On/Off button whenever you want to check the rear view images.



Compatible with the LCD (navigation, etc.) that is already in use

You can connect to the LCD in use without an additional dedicated LCD because of the Video Out port, which supports both NTSC/PAL formats to display images.



Coaxial cables for excellent data transfer

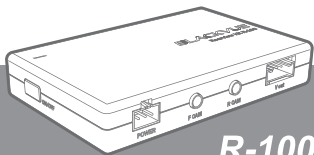
Coaxial cables provide stable and high-quality data transmission and prevent any missing rear view images or data loss.



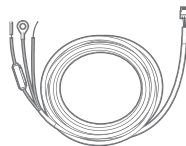
Repeater Function

Receiving and amplifying video signals help the product to transfer images to further distances.

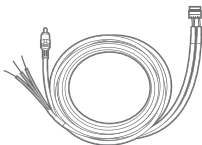
Package Components



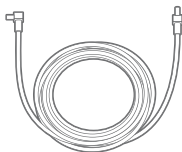
R-100



Power cable



Cables for
LCD connection



Coaxial cable (6m)
for front camera connection



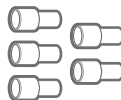
Car Reverse
Extension Cable



User's Manual



R-100 mounting
double-sided tape



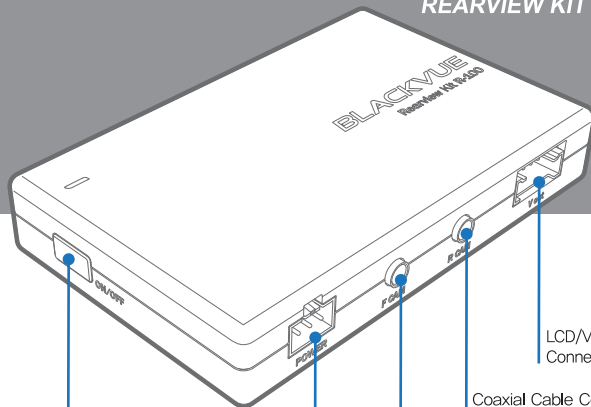
Connector

Remarks

- The LCD monitor and other components are available only for the RearView Kit package.
- Components of this product may be changed without prior notice in order to improve product performance.
- You can purchase additional package components at the webpage of BLACKVUE (www.blackvue.com).

BLACKVUE™ R-100

REARVIEW KIT



Video ON/OFF Button

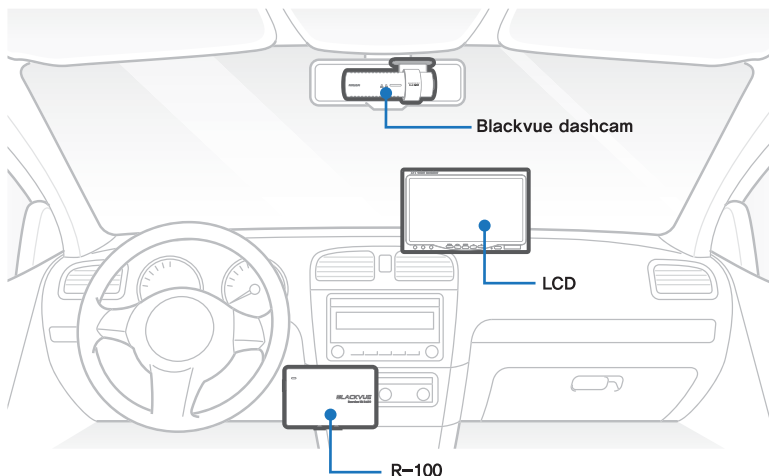
Power Cable Connector Terminal

Coaxial Cable Connector Terminal
for Front Camera

Coaxial Cable Connector Terminal
for Rear Camera

LCD/V Out Cable
Connector Terminal

How to Install the R-100

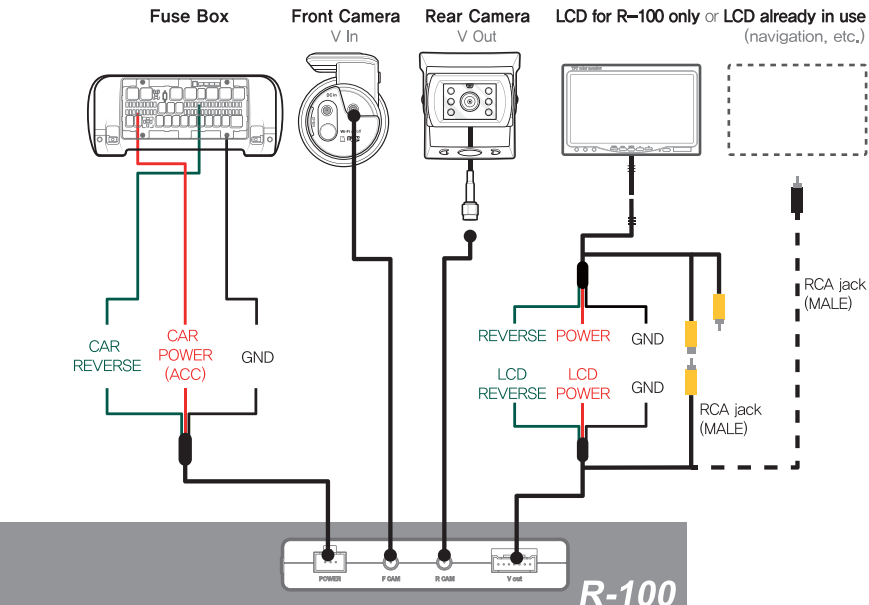


Remarks

- Install the product in a location that does not interfere with the driver's vision.
- Please install the product near the driver's seat for easy access to the **Video ON/OFF** button. If you do not use that button often, install it as you prefer.
- Please install the product at official BLACKVUE dealers.

Full wiring connection diagram

* Please check the components and cables before you install.



Remarks

- The locations for wiring connection to CAR REVERSE vary for each vehicle. It might be in the rear lights or in the junction box if it is not in the fuse box.

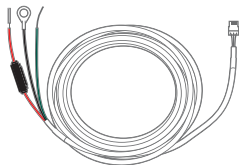
➤ Cautions before Installation

- * The location of the fuse box may differ for each vehicle model. If you are not familiar with the fuse box or have difficulties during installation, please contact the official dealers nearby.

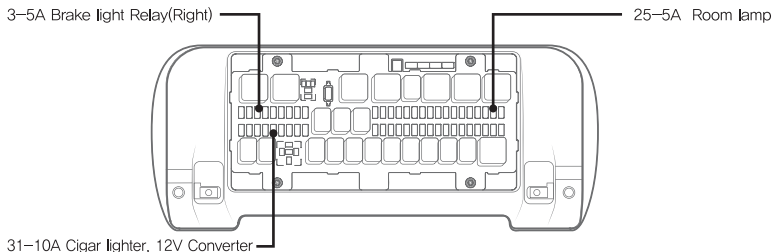
➤ How to connect power cables

- 1 Turn off the engine in a bright and safe place and pull out the key.
- 2 Check the wiring connection of the R-100 power cables.

- Black(GND) : Earth cable
- Green(Car reverse) : vehicle reverse recognition cables
- Red(Car Power) : R-100 power cables



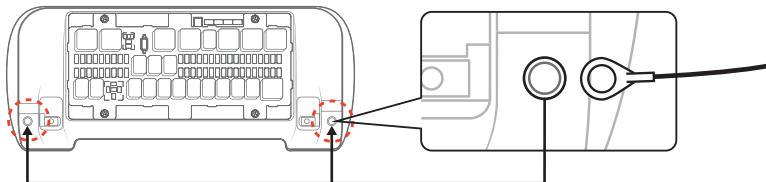
- 3 Check the menu location of the fuse box in the vehicle.



📄 Remarks

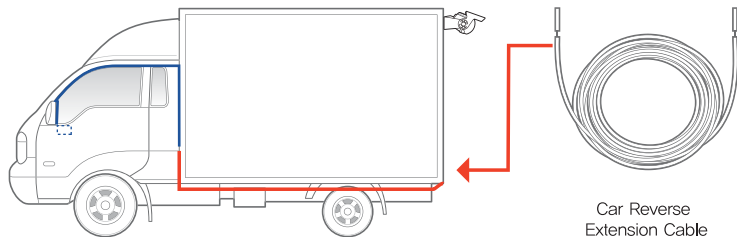
- The fuse box diagram may differ for each vehicle model so please check prior installation.

4 Connect the black wiring (GND) of the product to the metal parts or screw parts of the vehicle.



5 Connects the green wiring (Car REVERSE) to the incoming signals (e.g. Rear Light, Reverse Line, etc.) when the car goes backward.

* If the fuse that indicates the reverse signal is located on the back side of the rear light, please use the **Car Reverse extension cable**.



Remarks

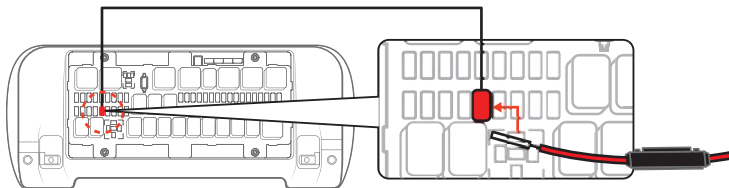
- The locations for wiring connection to CAR REVERSE vary for each vehicle. It might be in the rear lights or in the junction box if it is not in the fuse box.

6 How to connect the red wiring (Car Power)

6-1 When using the Car Dashcam in regular mode only

- * Car Dashcam and R-100 do not work when the engine is off.
- * The Dashcam and R-100 do not work when the car stalled during driving.

- a.** Connect the red wiring (CAR POWER) of the product to the fuse in the vehicle.
(ex. cigarette lighter, audio, etc.)



- b.** Wrap the connected wires with insulating tape. Use connectors for neat wiring connections.

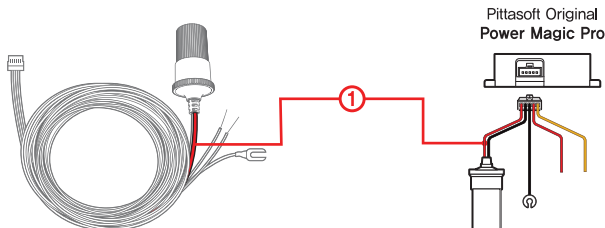
Remarks

- If you do not use a regular power device (Power Magic Pro), it may cause lower battery performance or discharge.
- Connect to the Car Dashcam that is already connected to the regular power device (Power Magic Pro), or use an additional regular power device (Power Magic Pro).
- Please refer to a professional manual for the installation of Power Magic Pro.

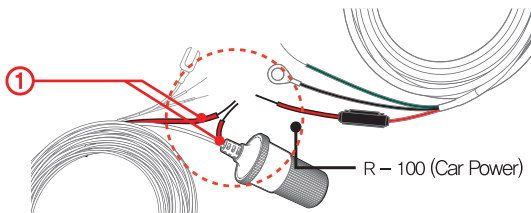
6-2 When using the Car Dashcam in regular and parking mode

* The power passes through the device (Power Magic Pro) in regular mode to the Car Dashcam and R-100.

a. Check the cable of the regular power device (Power Magic Pro).



b. Connect the red wiring of the Power Magic Pro socket (1) to the red wiring of the R-100 (Car Power).



c. Wrap the connected wires with insulating tape. Use connectors for neat wiring connections.

Remarks

- R-100's black wiring (GND) and green wiring (Car Reverse) shall be connected using above No. 4 and No. 5.

7 Connect the connector of the power cable to the **Power** terminal of the R-100 unit.

8 Arrange the cables so as not to interfere with the driver's vision.

► How to install and connect to the LCD

* Explained for BLACKVUE RearView Kit LCD only. Other LCDs in use might be different.

1 Please install the LCD after connecting the R-100 **power cable**.

2 Determine the **location** to install the LCD in.

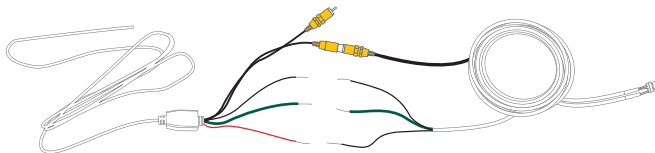
* Please refer to Confirming the location of installation. (Page 06)

3 Check the wiring of the R-100 to the **LCD connection cable**.

- Black : GND
- Green : LCD reverse
- Red : LCD Power



4 Connect the wiring of the LCD to the wiring of the **LCD connection cable** according to each color. **RCA jacks (male)** should be connected to the **RCA jacks (female)** of the LCD.



5 Wrap the connected wires with insulating tape. Use connectors for neat wiring connections.

6 Connect the connector of the **LCD connection cable** to the **V out** terminal of the R-100 unit.

7 Arrange the cables so as not to interfere with the driver's vision.

📖 Remarks

◁When you connect to the LCD (navigation, etc.) already in use ▷

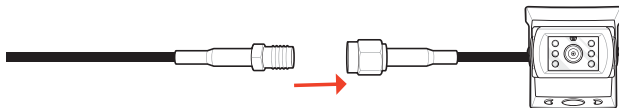
- Connect the **RCA jacks (male)** of the LCD connection cable to the **RCA jacks (female)** of the LCD already in use.
- The specifications and operating methods may differ for each product. Please connect after reviewing the user's manual of the LCD being used.

► How to connect the R-100 to the rear camera

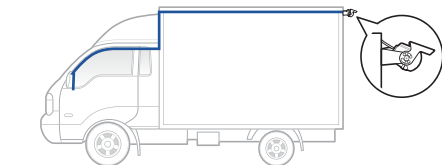
- 1 Please install after connecting the R-100 **power cable** to the LCD.
- 2 Insert the **angled** connector terminal of the coaxial cable for the rear camera included in the Dashcam into the **R cam** terminal.



- 3 Combine the other connection terminal of the coaxial cable for the rear camera with V out input terminal of the rear camera.



- 4 Arrange the cables so as not to interfere with the driver's vision.



📄 Remarks

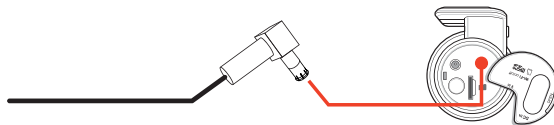
- R-100 is for DR650GW-2CH and DR650GW-2CH TRUCK models only.
- Coaxial cables for the rear camera are included in the Car Dashcam package that you purchased.
- Above instructions are based on DR650GW-2CH TRUCK.

▶ How to connect the R-100 to the front camera

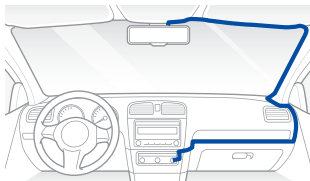
- 1 Please install after connecting the R-100 **power cable** to the LCD.
- 2 Insert the connector terminal of the **coaxial cable for front camera** to the **F cam** terminal.



- 3 Insert the other end of the **angled** connector terminal to the **V in** input terminal of the front camera.



- 4 Arrange the cables so as not to interfere with the driver's vision.



📄 Remarks

- R-100 is for DR650GW-2CH and DR650GW-2CH TRUCK models only.
- If you do not connect to the front camera after connecting to the rear camera, you can see the rear view through the LCD but not record. So please do not forget to connect to the front camera.

▶ After installation

Once you have connected all the wires, start the engine and check the operation of the product. Please refer to the detailed operating method in the "R-100 User's Manual". (Page 15)

How to Using the R-100

R-100 is an auxiliary equipment of the BLACKVUE Dashcam. It detects the reverse signal when the vehicle moves backwards and shows images from the rear camera on the LCD in real time.

	Vehicle Operation	LCD Status
1	When the engine is on	Screen OFF
2	Reverse gear Pull-IN	Rear camera image ON
3	Reverse gear Pull-OUT	Screen OFF
4	Pressing the "Video ON/OFF button" while driving/parking to check the rear view	Rear camera image ON
4-1	Reverse gear Pull-IN in situation 4	Rear camera video
4-2	Reverse gear Pull-OUT in situation 4-1	Screen OFF
5	Using the external input option	
5-1	Reverse gear Pull-IN	Rear camera video
5-2	Reverse gear IN→ OUT	External input image
5-3	Pressing the "Video ON/OFF button" while using the external input option (When pressing the button again, it will return to the external input.)	Rear camera video
6	When the engine is off	Last Display channel memory

Remarks

- Explained for BLACKVUE RearView Kit LCD only. Other LCDs in use might be different.
- Switch NTSC/PAL: R-100's LCD default video display format is set to NTSC. If you want to use PAL LCD, please hold down **Image ON/OFF** button for more than 5 seconds to switch the display format.

Product Specifications

Model name	R-100
Color/size/weight	Black / 89x57x15mm / 47g
LED Status Display	LED Operation Status (White lights flashing during power on)
Button	Video on/off button ※ When pressing the Video On/Off button manually, the rear view video is displayed on the LCD in real time.
Cable	Power cable (4.5m) Cable for connection to LCD (3m) Coaxial cable for front camera connection (6m) Car Reverse additional extension cable (15m)
Input power	DC 12V~24V
Power consumption	Avg. 0.96 W (12V/80mA, 24V/40mA)
Operating temperature	-20℃ ~ 60℃
Storage temperature	-20℃ ~ 70℃
Certifications	KC, CE, FCC

BLACKVUE™



MSIP-REM-PTA-R-100

Name | BlackVue Rearview Kit

Model | R-100

Manufacturer | Pittasoft Co., Ltd / South Korea

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