



Power Magic Ultra Battery B-124X

User Manual



ENGLISH / 한국어 / 中文 /
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BLACKVUE

POWER MAGIC ULTRA BATTERY B-124X

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如需最新版本的用戶手冊和客戶支持，請訪問網址 www.blackvue.com

Para consultar la última versión del manual y obtener soporte al cliente, vaya a www.blackvue.com

取扱説明書の最新版やカスタマーサポートについては www.blackvue.com をご覧ください。

Pour obtenir la dernière version du manuel et contacter le service client, rendez-vous sur www.blackvue.com

FCC Compliance Information

FCC Part 15.19 Statements

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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Part 15.105 Statement (Class B)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Part 15.21 Statement

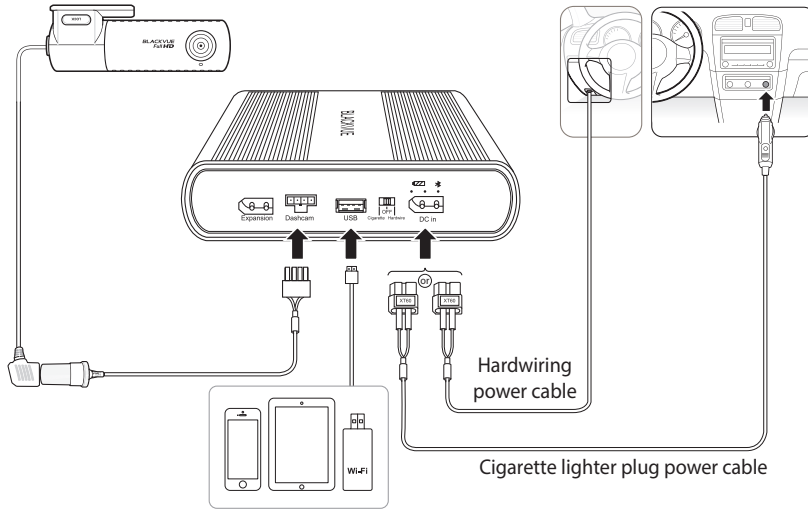
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

MPE

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

▶ BlackVue Power Magic Ultra Battery B-124X

The Power Magic Ultra Battery is designed to power your BlackVue dashcam in Parking Mode for extended periods of time without using your vehicle's battery.



▶ Safety instructions

Incorrect use of the Power Magic Ultra Battery can lead to poor performance and may cause overheating, ignition, explosion, etc. To use the product correctly please observe the following directions:

- Familiarize yourself with the contents of the user manual before using the product.
- Only use original BlackVue cables provided by the manufacturer. For replacements contact customer support or your nearest distributor.
- Only use the product to power a dashcam.
- Do not expose the product to direct sunlight or heat.
- Do not expose to high temperatures.
- Do not use a cigarette lighter multi-socket splitter (adapter) with the product.
- Do not put the product in a microwave oven or place it in a high-pressure environment.
- Do not repair or modify the product yourself.
- Do not throw the battery or subject it to any physical shock.
- Do not disassemble, compress or puncture the product.
- Do not use the product in an electrostatic environment as it can affect the operation of the battery protection circuitry.
- If the product emits an unusual odor during use, unplug it immediately and contact customer support or your nearest distributor.

- If the battery swells up, immediately discontinue using the product. Contact customer support or your nearest distributor.
- Keep the product away from children and pets.
- Do not allow metal objects to contact the terminals of the power and output cables.
- Ensure the battery does not come into contact with water or other liquids.
- Pittasoft Co., Ltd. is not liable for damage resulting from disassembling, opening or modifying the product.

› Disposal of your battery pack

1. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities. Contact local authorities to learn about disposal and recycling options available in your area.
2. Do not incinerate or expose to fire. Exposure to excess heat may result in fire or an explosion.

› Componets

Check the box for each of the following items before installing the Power Magic Ultra Battery B-124X.



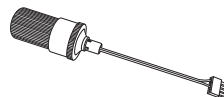
Power Magic Ultra
Battery B-124X



User Manual



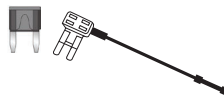
Cigarette lighter
plug power cable



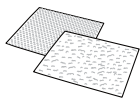
Output cable for dashcam
(Cigarette lighter socket)



Hardwiring power cable



Fuse tap kit (3 types)

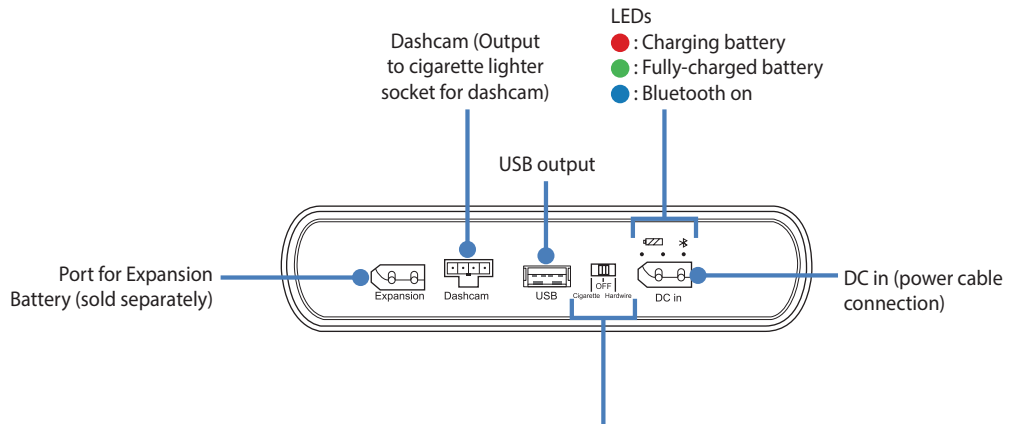
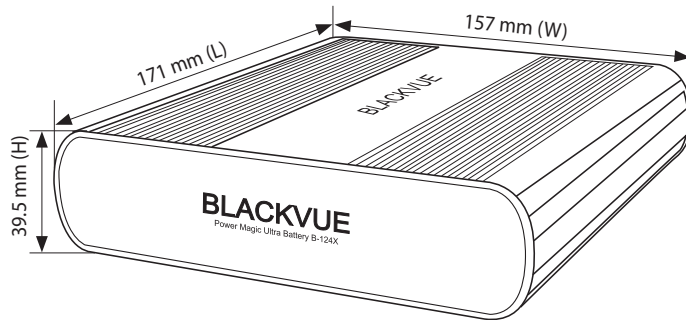


Velcro strips (2 EA)

Note

The Power Magic Expansion Battery B-124E comes with a connector cable in place of the above cables/fuse tap kit.






















At a glance



Power switch

- Cigarette: Select this when the Ultra Battery is powered from a cigarette lighter socket using a cigarette lighter plug power cable (standard 5 A charging)
- Hardwire: Select this when the Ultra Battery is hardwired to the vehicle's fuse panel using a hardwiring power cable (rapid 9 A charging)
- OFF: Turn off the Ultra Battery

LED indicators and beeps

	LEDs		Beep*
Powered on	  	All 3 LEDs turn on together and then turn off one by one.	Beeps four times
Started charging	  	Red LED blinks for 5 seconds	Beeps once
Charging	  	Red LED is on	
Fully charged	  	Green LED is on	
Bluetooth connected	  	Blue LED is on	
Low input voltage warning/High input voltage warning	  	Red and Green LED blink together	
Overheated warning	  	Red LED and Green LED blink one after another	Beeps every second

* Beeping can be disabled over Bluetooth using the BlackVue Battery manager app.

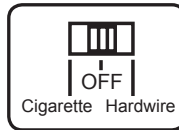
Product features

Charges while driving. Powers your dashcam while parked.

- Approximately 25 hours 35 mins of power from 40 minutes of charging (based on a dashcam that uses 3 W and a hardwired installation).
- Compatible with 2 installation methods:
 - DIY installation – standard cigarette lighter socket and plug (standard 5 A charging); or
 - Hardwired installation – standard cigarette lighter socket and hardwiring cable (rapid 9 A charging)
- Easily double usage time by plugging in an Expansion Battery (sold separately)
- Configure settings via Bluetooth using the companion smartphone app
- Compatible with both car (12 V) and heavy vehicle (24 V) electrical systems
- Battery protection circuitry for increased safety and extended battery life.
- Simultaneously charge your Ultra Battery and power your dashcam while driving.
- Power output automatically switches to draw power from the Ultra Battery when the engine is off.
- Battery cycle life: Rated for 1,500 full charge/recharge cycles before battery capacity falls under 80% of its original capacity.
- High temperature cut-off function shuts down the battery if the internal temperature reaches 80 °C (176 °F).
- When switched OFF the Ultra Battery retains its charge for more than 1 year.
- 1 USB port (5 V) allows you to simultaneously charge another device (smartphone, mobile Wi-Fi hotspot, etc.) while powering the dashcam

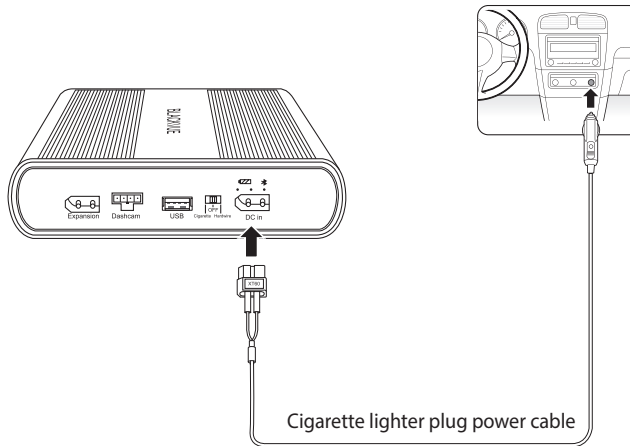
► Installation guide

1. Set the power switch to the OFF position.

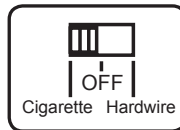


2. **For DIY installation using a cigarette lighter plug power cable:**

- a. Plug the *cigarette lighter plug power cable* into the Ultra Battery's **DC in** port. Plug the other end of the power cable into the vehicle's cigarette lighter socket.



- b. Set the power switch to the **Cigarette** position. Proceed to step 3.



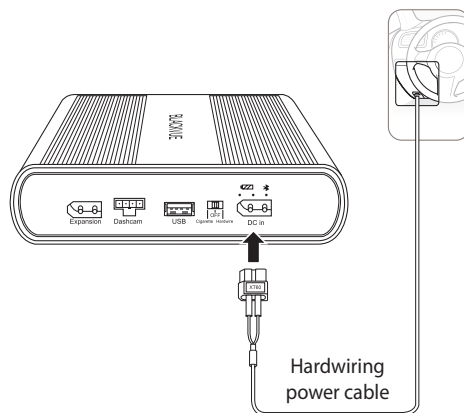
⚠ Caution

When using a *cigarette lighter plug power cable* you must set the switch to **Cigarette**. If you set the switch to the **Hardwire** position when using a *cigarette lighter plug power cable* it may result in product failure, overheating, ignition, etc.

or

2. For a hardwired installation using a *hardwiring power cable*:

- Plug the *hardwiring power cable* into the Ultra Battery's **DC in** port.

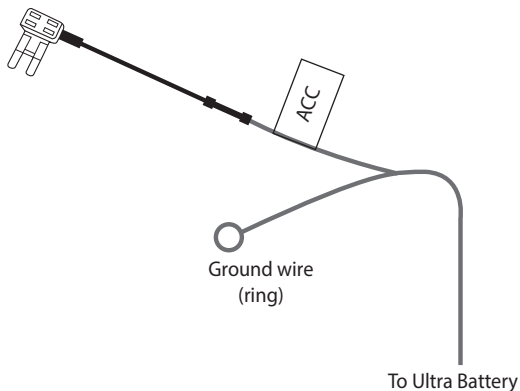


- Referring to your vehicle Owner's Manual, identify a **Switched** (accessory power) fuse of 10A or less in your interior fuse panel. Typical examples are the cigarette lighter and car stereo fuse slots.

Caution

If you connect the Ultra Battery to a **Constant Power** (BATT) fuse it may result in depletion of your vehicle's battery.

- Remove the identified **Switched** fuse and match its type with one of the 3 fuse taps.
- Insert the **ACC** wire into the connector end of the fuse tap. Use a crimping tool or pliers to crimp the connector onto the wire.

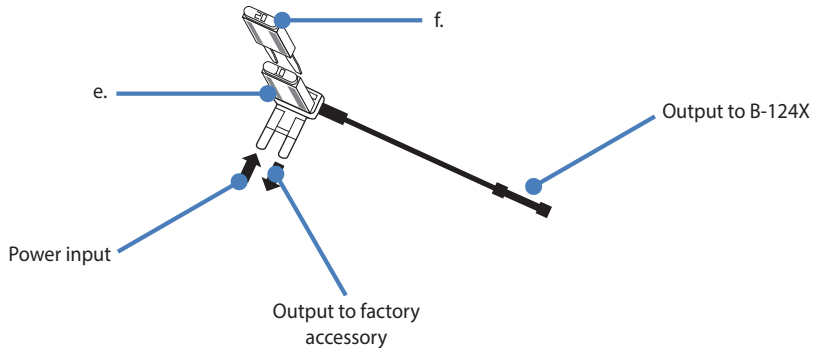


e. Insert the fuse you removed from the fuse panel into the slot closest to the blades on the fuse tap.

 **Note**

If the original fuse is a low-profile mini type, use the new 10A mini type fuse instead (included).

f. Insert a new 20A fuse into the slot furthest away from the fuse tap blades.



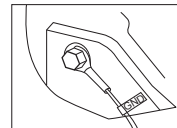
g. Insert the fuse tap into the empty **Switched** fuse slot in the fuse panel.

 **Caution**

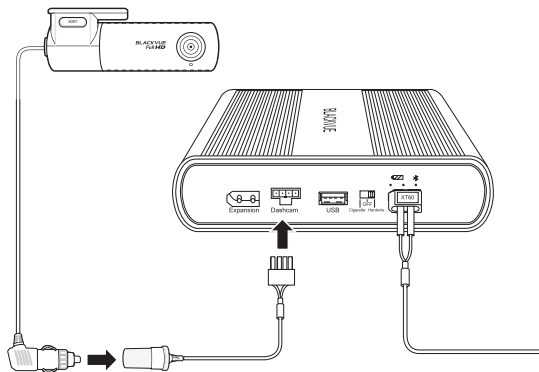
Refer to the diagram and insert the fuse tap in the correct orientation. In the correct orientation the new fuse (f.) gets power directly from the fuse slot without putting an additional load on the original fuse (e.). If you insert the fuse tap in the reversed orientation the additional load on the original fuse may cause it to blow.

h. Connect the ground wire (ring) to a ground point, such as a bolt, that is directly on a bare metal part of the vehicle's frame. Secure the ground wire to the bare metal frame (for example by securing it under the bolt).

i. Set the power switch to the **Hardwire** position.



3. Plug the 'Output cable' into the port labeled **Dashcam** on the Ultra Battery.

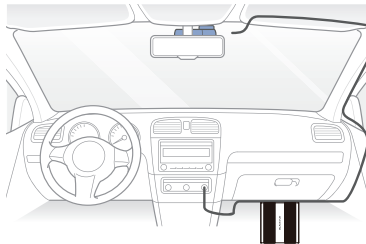


4. Plug your dashcam's power plug into the cigarette lighter socket on the Ultra Battery's 'Output cable'.

Note

To ensure good electrical contact you can use electrical tape to tape the plug and socket together.

5. Use a pry tool to lift the edges of the windshield trim/molding and tuck in the power cord. Use the supplied Velcro strips to fix the Ultra Battery in place



Caution

Do not expose the product to direct sunlight and/or heat.

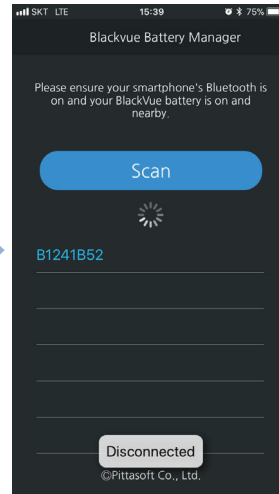
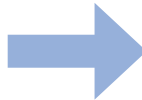
▶ BlackVue Battery Manager App

Download the **BlackVue Battery** manager app from the Google Play Store (Android) or the Apple App Store (iOS) to manage power and settings.



Connecting to the Ultra Battery via Bluetooth

1. Turn on the Ultra Battery.
 - If you are using the *cigarette lighter plug power cable* set the power switch to the **Cigarette** position.
 - If you are using the *hardwiring power cable* set the power switch to the **Hardwire** position.
2. Go to your smartphone's **Settings** and turn on **Bluetooth**.
3. Open the BlackVue Battery manager app. Select your Ultra Battery from the list. If your Ultra Battery is not shown tap **Scan** to refresh the list.
 - A sticker with the unique Bluetooth ID is attached to each Ultra Battery.



Battery information screen

Left Screen (Charging):

- Settings
- Battery's Bluetooth ID: BlackVue / B-124 / B1241B52
- Current battery status: Charging battery
- Current charge state: 45%
- Battery temperature: 23°C
- Real-time input voltage and current: DC in (V/A) 11.6V/5.0A
- Real-time output voltage and current: Output (V/A) 13.9V/0.2A
- Total battery capacity available for use (set by user): Battery capacity 12600mA
- Estimated time to full charge (hours: mins) at the present power input level: Charging time remaining 01:28
- Estimated usage time (hours: mins) at the present power draw level: Usage time remaining 00:00

Right Screen (Discharging):

- Model: BlackVue / B-124 / B1241B52
- Current battery status: Discharging battery
- Current charge state: 99%
- Battery temperature: 26°C
- Device plugged into USB port*
- Real-time input voltage and current: DC in (V/A) 0.0V/0.0A
- Real-time output voltage and current: Output (V/A) 13.2V/0.2A
- Total battery capacity available for use (set by user): Battery capacity 12000mA
- Estimated time to full charge (hours: mins) at the present power input level: Charging time remaining 00:00
- Estimated usage time (hours: mins) at the present power draw level: Usage time remaining 63:38

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* Some USB cables may not be detected

Battery settings screen

Back/cancel

This setting only applies to newer luxury vehicles (in particular BMWs manufactured for use in Korea) with an in-built dashcam that limits the time in parking mode. You can turn this setting off if you are using an aftermarket dashcam such as a BlackVue dashcam.

Override parking mode time-out function

Beep on/off — Turn beep alerts on or off

Battery capacity — Set the total available battery capacity. See table below for recommended settings.

Reset — Reset to the default factory settings

Save — Save changes

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Battery capacity

No. of battery packs	Recommended battery capacity setting
1 (Ultra)	6,000 mAh
1 (Ultra) + 1 (Expansion)	12,600 mAh
1 (Ultra) + 2 (Expansion)	19,200 mAh
1 (Ultra) + 3 (Expansion)	25,800 mAh
1 (Ultra) + 4 (Expansion)	32,400 mAh
1 (Ultra) + 5 (Expansion)	39,000 mAh

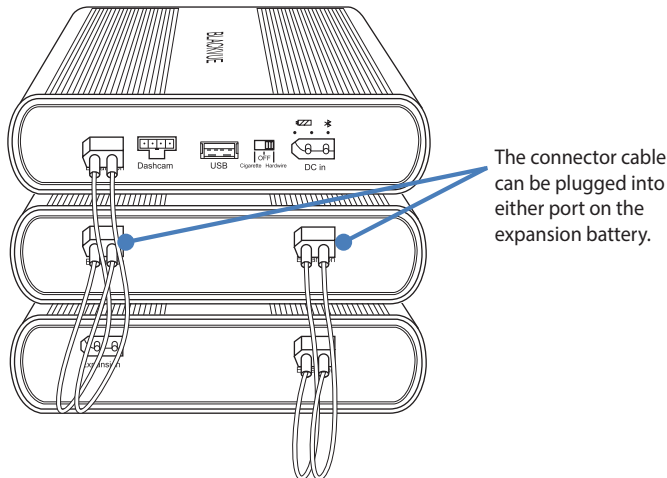
For each additional expansion battery we recommend incrementing by 6,600 mAh.

▶ Power Magic Expansion Battery B-124E (sold separately)

Easily double usage time by plugging in a Power Magic Expansion Battery B-124E (6,600 mAh / 84.5 Wh). When the Ultra Battery and 1 Expansion Battery are fully charged they can supply power for approximately 53 hours 45 mins in total (based on a single dashcam that consumes 3 W). Charging time is approximately 2 hour 30 mins (Cigarette lighter plug) / 1 hour 20 mins (Hardwired).

When you add 1 or more expansion batteries please adjust the total available battery capacity using the BlackVue Battery manager app.

Multiple expansion batteries can be connected together in sequence to extend usage time even further. Please note charging time will also increase accordingly.



Product specifications

Model	Power Magic Ultra Battery B-124X
Color / Size / Weight	Black / 157 mm (W) x 171 mm (L) x 39.5 mm (H) / 1.4 kg
Battery Cell Type	LiFePO4
Input Voltage / Current	12V system: - Cigarette lighter plug: 12 V–17 V / 6.5 A (max) - Hardwired: 12 V–17 V / 13.5 A (max)
	24V system: - Cigarette lighter plug: 23 V–30 V / 3.4 A (max) - Hardwired: 23 V–30 V / 7.1 A (max)
Charging Voltage / Current	Cigarette lighter plug: 14.2 V / 5 A Hardwired: 14.2 V / 9 A
Charging Time	Cigarette lighter plug (standard 5 A charging): Approx. 80 mins Hardwired (rapid 9 A charging): Approx. 40 mins
Hours of Use	Approx. 25 hours 35 mins (based on a single dashcam that consumes 3 W)
Operating Temperature	Charging Temperature: 0 °C – 45 °C (32 °F – 113 °F)
	Discharging Temperature: -10 °C – 60 °C (14 °F – 140 °F)
	Storage Temperature: -20 °C – 45 °C (-4 °F – 113 °F)
High Temperature Cut-Off	Approx. 80 °C (176 °F)
Capacity	12.8 V / 6,000 mAh / 76.8 Wh
Output Voltage / Current	Dashcam port: 11 V–14.2 V / 2 A (max)
	USB port: 4.75 V–5.25 V / 2 A (max)

Customer Support

For customer support, manual and any updates please visit www.blackvue.com.

You can also email a Customer Support expert at cs@pittasoft.com.

Limited Warranty

- The warranty period of this product is 1 year from the purchase data.
- If the product fails during normal and correct use within the warranty period, our service center will repair the product free of charge.
- Any disassembly, modification or alteration of the product will void the warranty.
- The cost to repair or fix any malfunction or problem caused by incorrect usage during the warranty period may be charged to the consumer.
- The manufacturer shall not be responsible or liable for any loss or damage caused by incorrectly using the product.