

ULTRADASH
HARDWIRE KIT **4W1**



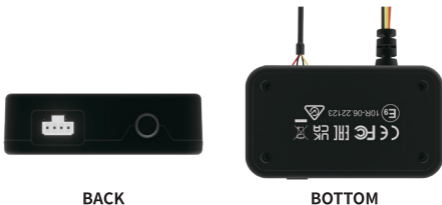
INSTRUCTION MANUAL

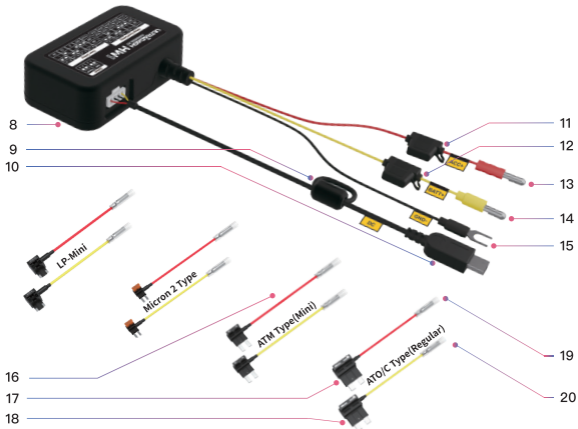
Thank you for choosing UltraDash hardware kit HW1.

The following are the instructions for installing HW1 properly on your vehicle. Before installing HW1, please read the instruction thoroughly for the best results.

HW1 is designed for both 12V compact and 24V heavy-duty vehicles.

HARDWARE KIT PARTS & CONTROLS





1. **Main Switch:** The main switch is responsible for controlling the function of HW1 to ON /OFF. ON enables low voltage protection and timer functions, and OFF turns off the low voltage protection and timer functions. When the switch is turned OFF, HW1 will automatically set the low-voltage protection to the lowest value (cut off at 11.8V/23.6V) and the vehicle is still running (with ACC power detected) , the device will still be powered. It is equivalent to using a 12 V socket (Only Hot When Start).
2. **Four Switches:** The four switches are responsible for setting the voltage valve and timer. We will introduce these functions in the following content. The settings will be made in different combinations by the four button switches.
3. **Status LED Indicator:** When the light is on, it means that the device has been powered by the vehicle, and when the light is off, it means that the device has not been powered by the vehicle.
4. **Hardwire Cable:** This cable consists of red ACC cable, yellow BATT cable and ground cable. The total cable length is 3.3 ft.
5. **Power Cable:** This cable connects the power supply to the dash cam. For HW1-A/HW1-B, the total cable length is 9.8 ft. For HW1-C/HW1-D, the front cable length is 13 ft and the rear cable length is 19.7 ft.

6. **Settings Instruction:** To make it easier for you to adjust the settings at any time, we put simple instructions into stickers and stick them on the top of the HW1. You can refer to and change the settings at any time.
7. **3M Adhesive Tape:** For sticking to the bottom of HW1, the adhesive can adhere to any surface on the car.
8. **12–24Vdc to 5Vdc Regulator:** The circuit inside converts 12–24V electricity into 5V electricity for the dash cam.
9. **Ferrite Core:** It is for reducing high–frequency noise. Let the power cable pass through the magnetic ring and be wound a few times to get the best result. Usually, you don't need to use this thing.
10. **5V Power Output Cable:** Connect the Mini USB end (CAM) to the DC–IN interface of the dash cam or the magnetic power mount, and insert the white connector at the other end into the regulator of the hardwire kit. HW1 has four kinds of 5V power output cables. Please purchase the corresponding model according to your needs. HW1–A single I–shape cable, HW1–B single L–shape cable, HW1–C dual I–shape cables, HW1–D dual L–shape cables.
11. **Positive (+) Red ACC Cable Fuse:** It protects the ACC cable.
12. **Positive (+) Yellow BATT Cable Fuse:** It protects the Battery cable.
13. **Positive (+) Red ACC Cable Bullet Connector (ACC+):** Connect this end (Bullet Connector) to the fuse tap cable (Bullet Adaptor), and make sure there is no loose connection. The Connector and Adaptor are locked in place. After connecting, use needle–nose pliers to flatten the connection to avoid loosening.
14. **Positive (+) Yellow BATT Cable Bullet Connector (BATT+):** Connect this end (Bullet Connector) to the fuse tap cable (Bullet Adaptor), and make sure there is no loose connection. The Connector and Adaptor are locked in place. After connecting, use needle–nose pliers to flatten the connection to avoid loosening.
15. **Negative (–) Ground Spade Connector (GND–):** Lock this connector in the car where it can be grounded. Usually, a bare metal part of a vehicle's chassis, use existing bolts sticking out from the chassis behind the dashboard.
16. **ATO/C(Regular), ATM(Mini), Micro 2, and Low Profile Mini Type Fuse Tap Cable:** We offer four fuses, two of each type, red and yellow, for use in most vehicles. Notice: Make sure you select the correct type fuse tap cable. Check the vehicle fuse panel or refer to the owner's manual to confirm the type of fuse your vehicle is using. Once the cable bullet connector is connected to the fuse tape cable, it will be locked and cannot be unplugged.
17. **Positive (+) ACC Fuse Tab Cable Slot Connector:** Insert to the fuse slot of the ACC (Hot When Start) power supply on the car, and if there is an original vehicle fuse, insert it into the extra slot above the fuse tap cable.

- 18. Positive (+) BATT Fuse Tab Cable Slot Connector:** Insert to the fuse slot of the Permanent (Always Hot) power supply on the car, and if there is an original vehicle fuse, insert it into the extra slot above the fuse tap cable.
- 19. Positive (+) Red ACC Fuse Tab Cable Bullet Adaptor:** Connect this end (Bullet Connector) to the fuse tap cable (Bullet Adaptor), and make sure there is no loose connection. The Connector and Adaptor are locked in place. After connecting, use needle-nose pliers to flatten the connection to avoid loosening.
- 20. Positive (+) Yellow BATT Fuse Tab Cable Bullet Adaptor:** Connect this end (Bullet Connector) to the fuse tap cable (Bullet Adaptor), and make sure there is no loose connection. The Connector and Adaptor are locked in place. After connecting, use needle-nose pliers to flatten the connection to avoid loosening.

HARDWARE KIT INSTALLATION

PLEASE READ BEFORE INSTALLATION

SAFETY

- Turn off your vehicle and dash cam while installing the hardwire kit.
- Do not strip the cables.
- Identify the electrical polarity carefully.
- Only ground it to negative circuit correctly for safe installation.

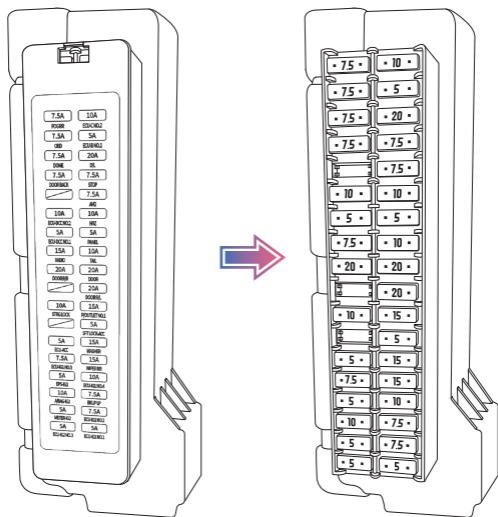
WARNINGS

- Consult an expert before installation. If there is any doubt, we suggest you contact a vehicle technician to start the installation instead of doing it yourself.
- Check if everything is correct before adding an electrical load into the fuse box, an improper connection may result in a discharge of the vehicle battery.
- Follow the safety tips and instructions. Incorrect installation may permanently damage the product and your vehicle, which will not be covered under the manufacturer's warranty.

STEP 1: FIND THE FUSE BOX COMPARTMENT

Find the fuse box in your car, usually under the steering wheel, or refer to your owner's manual for detailed location information.

Remove the cover/lid of the fuse box. The lid/cover clip is easy to remove. Just pull it down lightly. After removal, store the lid cover in your glove box. Once the fuse tap cable is plugged into the outlet, the lid cover won't fit to close the fuse box.



STEP 2: CHOOSE TWO FUSE SLOTS

Select two fuse slots to be us. We will need one ACC (Hot When Start) slot and one Permanent (Always Hot) slot. We recommend choosing the fuses with a current between 7.5A ~ 15A . The fuse slot position can be viewed on the cover lab. The corresponding slot abbreviations are written above. Refer to your owner's manual for details.

Here are a few locations for reference:

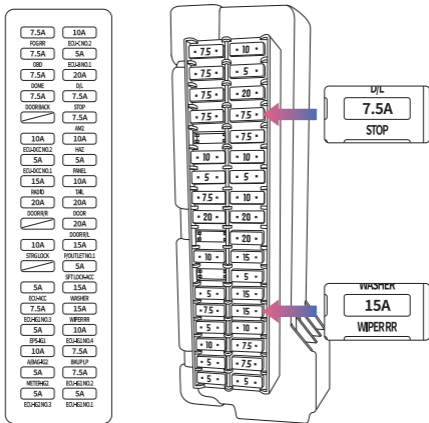
ACC (Hot When Start) power supply: WIPER RR (rear wiper)

Permanent (Always Hot) power supply: STOP (brake light)

Or you can use a multimeter to determine whether the fuse slot is a permanent (Always Hot) power supply or an ACC (Hot when Start) power supply.

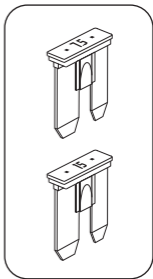
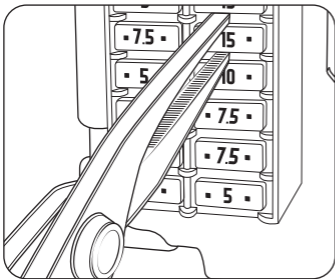
Turn the dial on the multi-meter to 12V. Use the red probe (positive) , and insert it into the fuse slot to be tested (remove the fuse with an extraction tool first) . Black probe (negative) Find a solid metal bolt for the ground.

If the 12V power supply can be measured when the vehicle is not started, this slot is a permanent (Always Hot) power supply. If the power is detected only after the car starts, it is an ACC (Hot when Start) power supply.



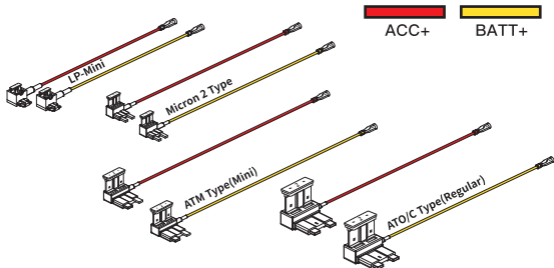
STEP 3: REMOVE OF SELECTED FUSES

Use the extraction tool to remove the original permanent power and ACC power fuses. It is not recommended to use a bare hand for removal, it is hard to pull out, and the plastic housing of the fuse can be damaged.



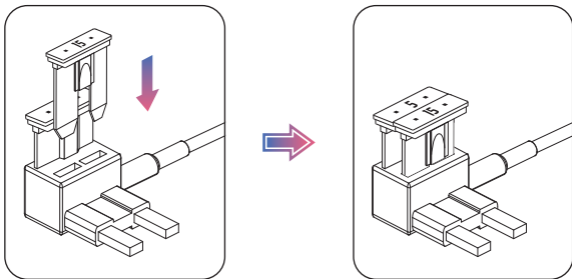
STEP 4: SELECT THE CORRECT FUSE TAP CABLE

You are matching the fuse to the same included fuse tap cable. You can check the size of the unplugged fuse to select the corresponding cable. Use one of the four fuse tap cables that match your vehicle. There are ATO/C (Regular) , ATM (Mini) , Micro 2, and Low Profile Mini Type. We offer four fuses, two of each type, one for the ACC (Hot When Start) slot and the other for the permanent (Always Hot) slot.



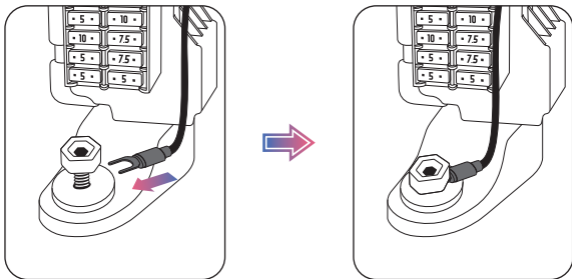
STEP 5: INSERT THE ORIGINAL FUSE INTO THE EMPTY SLOT OF THE FUSE TAP CABLE

Insert the original fuse into the extra slot of the fuse tap cable. There is a 2Amp fuse on the fuse tap cable. Please do not remove it. This protects the dash cam, so there will be two fuses in the fuse tap cable.



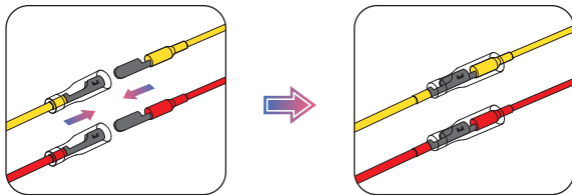
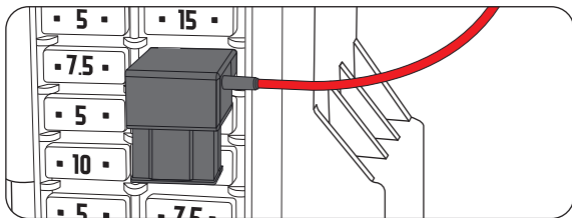
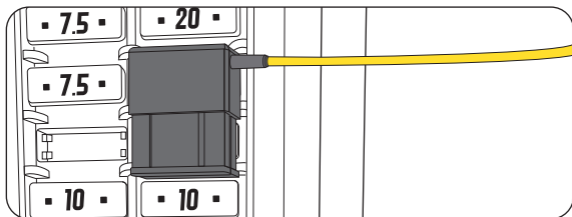
STEP 6: FIND A PROPER GROUNDING SPOT

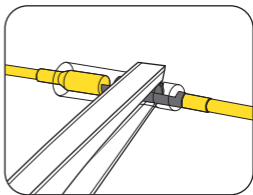
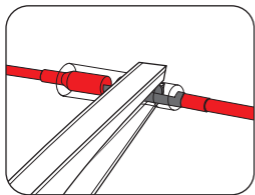
Find a place to ground the black wire (Negative (-) Ground Spade Connector), and look for a solid metal piece around the fuse box. There should be a bolt/screw around the metal parts. Loosen the bolt/screw on the grounding spot, connect the black wire (Negative (-) Ground Spade Connector), and tighten it with a wrench or screwdriver to complete the grounding.



STEP 7: CONNECT THE FUSE TAP INTO THE FUSE SLOT

Plug the fuse tap cables back into the fuse slots you just removed. Connect the red wire (Positive (+) ACC Cable Bullet Connector) to the ACC fuse tap cable and the yellow wire (Positive (+) Battery Cable Bullet Connector) to the permanent (Always Hot) fuse tap cable. After connecting, use needle-nose pliers to flatten the connection to avoid loosening.

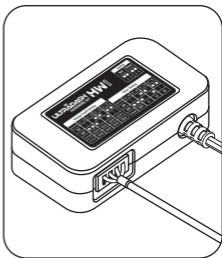
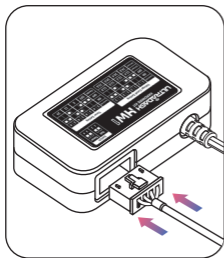




STEP 8: CONNECT THE REGULATOR AND 5V POWER OUTPUT CABLE

Locate the white connector on the 5V power output cable and connect this end to the regulator of the hardwire kit.

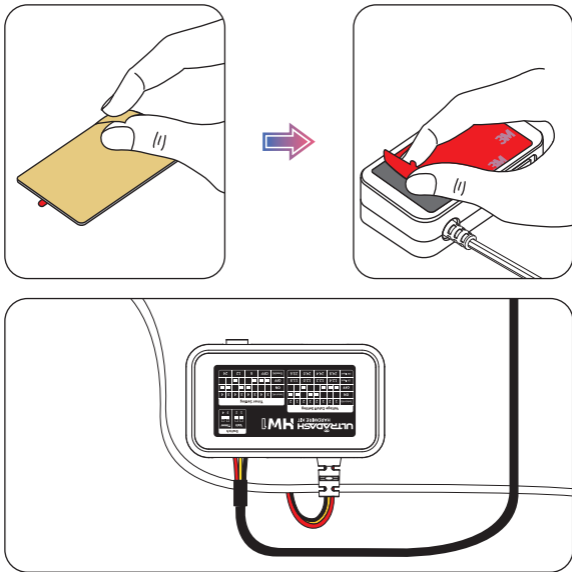
Note: Be sure to insert the white connector until you hear the "click" sound.



STEP 9: SECURE DEVICE IN PLACE

Placing HW1 in a clean selected location, use the 3M adhesive application to secure the device. Clean the selected location from dust, remove protective liner at the edge (yellow color side), lay application on the bottom side (do not block the setting menu), and apply constant pressure to the tape application, then again remove protective liner at the edge from (red color side), apply constant pressure to the selected location, ensure good contact between the tape application and the surface.

Note: 3M adhesive applications are consumables and may fall off in due time. Please replace a new application when unusable.

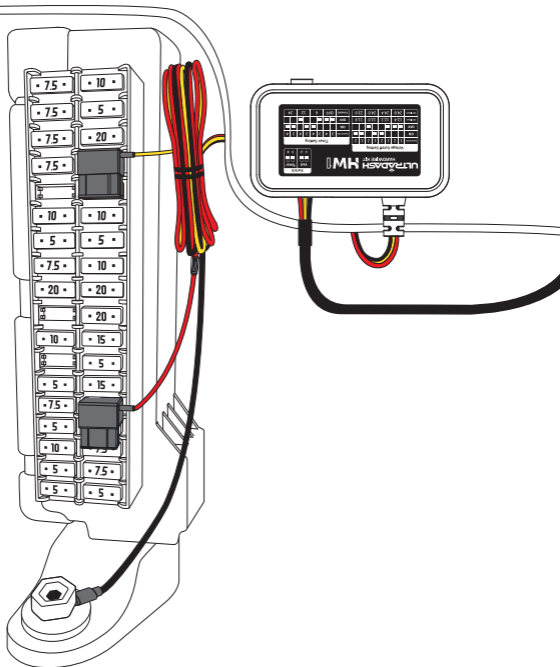


STEP 10: TIE UP THE EXCESS WIRE

Excess wire can be fastened to the surrounding empty space with a zip tie. Hide the additional connecting wire behind the carpet.

For another wiring, please refer to the instruction manual of the dash cam.

Congratulations! The installation of Hardwiring for the dash cam is completed.



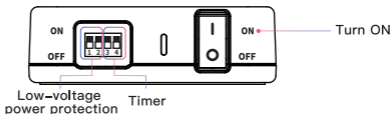
HARDWARE KIT FUNCTION

Turn your HW1 main switch ON to start using its function.

HW1 is equipped with two functions, Low-Voltage Power Protection and Timer.

Note:

- The main switch must be set to ON for the following functions to work.
- HW1 is mainly designed to be used with Parking mode instead of continuous recording, but if you want to continue recording, please manually turn on your UltraDash when the engine is turned off, and the dash cam can continue to record nonstop until the low voltage or timer condition is met.



- **Low-voltage power protection** : It will automatically cut off the power when the car battery is below a specific voltage. You can adjust four settings through the switches on the HW1. When it is off, the LED indicator light will turn off. When the voltage returns to the set value, HW1 will automatically start the power supply itself.

OPTIONS:



Setting 1 : Cut off at 12.4V or 24.8V. Restore at 12.7V or 25.2V.
(Switch 1 is OFF and Switch 2 is OFF)



Setting 2 : Cut off at 12.2V or 24.4V. Restore at 12.5V or 24.8V.
(Switch 1 is OFF and Switch 2 is ON)



Setting 3 : Cut off at 12.0V or 24.0V. Restore at 12.3V or 24.4V.
(Switch 1 is ON and Switch 2 is OFF)



Setting 4 : Cut off at 11.8V or 23.6V. Restore at 12.1V or 24.0V.
(Switch 1 is ON and Switch 2 is ON)

- **Timer** : It allows you to decide how long the HW1 will remain powered. There are four settings you can make via the Switches on the HW1. When the time is up, the HW1 will power off, and the LED indicator light will go out. It will reset the timer once it detects the ACC signal, which means every time you turn on and off the engine, the timer will be reset.

OPTIONS:



Setting 1 : Won't cut off. (Switch 3 is OFF and Switch 4 is OFF)



Setting 2 : Cut off after 6 hours. (Switch 3 is OFF and Switch 4 is ON)



Setting 3 : Cut off after 12 hours. (Switch 3 is ON and Switch 4 is OFF)



Setting 4 : Cut off after 24 hours. (Switch 3 is ON and Switch 4 is ON)

WARRANTY

Take a minute to register your new UltraDash product at

<https://cansonic.com/pages/registration> and save a copy of your receipt or bill of sales as proof of purchase.

You will enjoy our manufacture warranty coverage, repair / replacement service and customer support.

ONE (1) YEAR LIMITED WARRANTY

Cansonic warrants UltraDash branded products against defects in materials and workmanship when used normally in accordance with our official guidelines

<https://cansonic.com/pages/warranty> for a period of ONE (1) YEAR from the date of original retail purchase.

IF ANY PROBLEM

Contact us : service_usa@cansonic.com

Call us : **626-460-8807**

We are more than happy to help! **Will try our best to satisfy your request! :)**

If we did not answer your call, please leave your phone number, and we will contact you back within 24hrs.



Instagram: @cansonic_usa



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Youtube: Cansonic USA



Official: www.cansonic.com

Product Name: Hardwire Kit

Model: HW1

Manufacturer: Cansonic Company Limited

Address: 3/F, Building 1, Guanlan Automotive–electronics Characteristic Industrial Park,
Shenliang Group, No.299 Guanping Road, Guanglan Town, Longhua District, Shenzhen

Subject to change disclaimer:

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