APHCARIOS

USER GUIDE

WARIF
PREMIUM

CONTENTS

APHCARIOS

⚠ SAFETY WARNINGS

Please make sure to read the following warnings thoroughly as it may pose danger to your device or your vehicle.

- When lifting the product with a hoist, use M6 eyebolts on the upper four corners. When manually handling the product, ensure that it is carried on the structure rather than the covers. The weight of the product is around 65kg, and four-man handling is advisable.
- It is recommended that a cut-off switch with a fuse be installed between the power cord and the battery. It is advised that the installation be carried out by third-party automotive electricians. When the product is not in use, turn off the cut-off switch.
- There is an installed 15A-rated fuse, which is connected in line with the positive power cable. Make sure to check the condition of the fuse and the connection.
- Check for loose fasteners which may have come off during transportation and before and after any offroad travel.
- Aux power outlet is only rated for max power 150W.
- After rainfall or vehicle pressure wash, ensure the product is dried thoroughly.

💡 GENERAL TIPS

Please consider the following points

- When handling the product box, be careful not to lean it up against the roller side. Additionally, be careful to handle the merchandise packaging correctly.
- There is a 5-second initialization delay after powering on.
- Vehicle body can be used as a ground, perform, and verify continuity test and ensure stable grounding.
- For vehicle aerodynamics, align the slope of the vehicle's windscreen with the slope of the product's front cover.
- For vehicles with back hatch ensure the product body is clear from its opening path.
- In the case when the product operates slower than usual, please check the battery health, and turn the vehicle on.
- Avoid metal-on-metal contact between the bracket and the vehicle's body. Strips of neoprene rubber or urethane foam should be used between the interfaces.
- Tighten fasteners before engaging in off-road activity.

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📦 WHAT IS IN THE BOX?

NO	PART NAME	QTY
1	Warif Premium	1
2	Roof Rack Option (Wire Mesh or Slotted Crossbars)	As per request
3	Mounting Brackets	As per request
4	Remote	1
5	Power Cord	1
6	M8x16mm Hex Socket Cap Head	8
7	M8 Spring Washer	8
8	M8 Flat Washer	8

MAIN COMPONENT

1
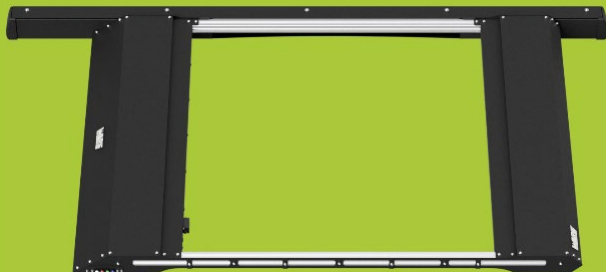
WIRE MESH RACK

2
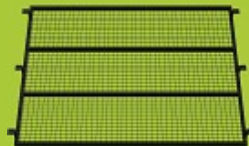
SLOTTED CROSSBARS

2

MOUNTING BRACKETS

3

REMOTE

4

POWER CORD

5

FASTENERS

6

7

8

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📋 PREPARATIONS

TOOLS & MATERIALS REQUIRED

1. Hex Key (Allen Key) No 10
2. Hex Key (Allen Key) No 6
3. Spirit Level 1mtr
4. Measuring Tape
5. GP Silicone Sealant with Applicator Gun
6. Cable Sleeve
7. Hand Drill Machine with Drill bit Ø6.5mm & Ø3mm *
8. Hand Tap Wrench*
9. Hand Tap M8x1.25mm*
10. HT Silicone Sealant*

1	3	5	7*	9*
2	4	6	8*	10*

* When mounting brackets require holes to be drilled into the car roof.

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⚒ MOUNTING INSTRUCTIONS

Mounting of **Warif** is different for different car models, kindly consult with Aphcarios Sales Team for further information. Appropriate Mounting Brackets are available (sold separately). In general, there are three ways for roof-top accessory mounting.

SIDE GUTTER MOUNTING

1. Look beneath the structure frame for the M8 sliding nut with fasteners. Unscrew the fasteners; this will be used in the next stage.
2. The brackets are now loosely attached to the product structure using the supplied fasteners.
3. The product is then raised into position and placed on top of the side gutter of the car.
4. Attach the gutter grip to the bracket body and loosely secure it in place.
5. Check that the product is centred and level with the car roof. If not, move the bracket over the slotted profile.
6. After determining the location, tighten all fasteners.
7. Conduct a road test to ensure the product's stability.

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1. In this arrangement, the brackets are usually fastened to the car roof mounting points first, where car roof mounting points are supplied with appropriate screws. Use these supplied screws to secure brackets with car body.
2. Take the roof rack (mesh or crossbars) off the product.
3. Locate the M8 sliding nut with fasteners beneath the slotted frame. Unscrew the fasteners; this will be needed later.
4. The product is then lifted and placed on top of the brackets.
5. Ensure that the product is centred and level with the vehicle's roof. In any case, place the bracket over the slotted profile.
6. Tighten the fasteners from step-3 after identifying the location and refit the roof rack with its fasteners in position.
7. Put the product through a road test to assure its stability.

SELF-MADE MOUNTING POINTS
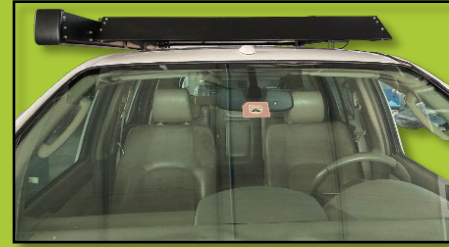
1. Measure the car roof; find and mark the locations of the eight mounting points.
2. Use a 3mm drill bit to drill a pilot hole in the chosen spot.
3. Drill the holes once more with the larger 6.5mm drill bit.
4. Thread the holes with an M8x1.25 hand tap set.
5. If the thickness of the roof sheet is less than 3mm, an M8 rivet nut / plus nut may be required. Please use the correct tools and hardware for this task.
6. The brackets are then attached to the mounting locations on the car's roof. Use the appropriate screw, spring washer, and washer set for this step.
7. Detach the product's roof rack (mesh or crossbars).
8. Locate the M8 sliding nut with fasteners beneath the slotted frame. Unscrew the fasteners; this will be needed later.
9. The product is then lifted and placed on top of the brackets.
10. Ensure that the product is centred and level with the vehicle's roof. In any case, place the bracket over the slotted profile.
11. After identifying the mounting location, tighten the fasteners from step-3 and refit the roof rack with the fasteners in place.
12. Conduct a road test to ensure the product's stability.

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⚡ WIRING INSTRUCTIONS & STARTUP

CAR BATTERY CONNECTION

1. The power cord pack includes one red and one black wire with different connectors.
2. Connect the red cable tagged +12V to the positive terminal of the car battery. Secure the crimped end of the cable with the clamp nut and route the cable neatly.
3. Select a ground point; the mounting point could be utilized as a ground. Conduct a continuity test to check the grounding point's stability. Connect the black wire labelled GND to this point and secure the crimped end with the bracket mounting screws.
4. If a suitable ground point cannot be located, route the black cable neatly and attach it to the battery's negative terminal. Secure the crimped end of the cable with the battery clamp nut.
5. Please consult a local auto electrician about installing a cut-off switch between the power and ground connections. This switch is available and sold separately.


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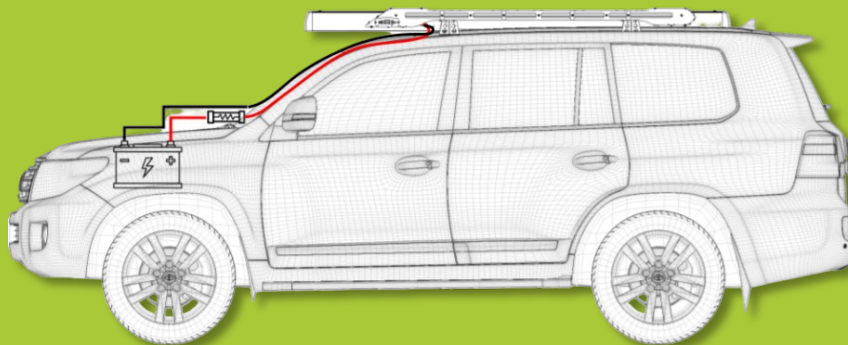
AUX POWER OUTLET CONNECTION

1. An auxiliary power outlet junction box, placed beside the product's front covers, is provided. This can power and control any 12V DC accessory (with a maximum rating of 150 W).
2. To obtain access to the outlet, unscrew four phillip head screws.
3. Unscrew the threaded cable gland and insert the auxiliary wire through it. Connect the positive and negative terminals of the accessory wires to the terminal block and secure.
4. Check that the seal is intact and in place, then close the box lid, screw in all four screws, and tighten the cable gland to ensure weatherproofing.
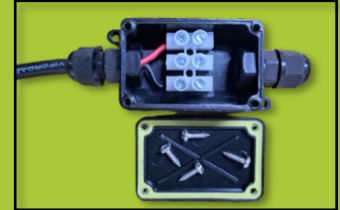
REMOTE PROGRAMMING

1. In most cases, the product comes with a pre-programmed remote in the package.
2. To program a new remote with the product, press once the green and red push buttons at the exact same time.
3. Then, in this order, push the remote's buttons A, B, C, and D.
4. Now that the remote has been configured for the product, all functionalities can be tested.

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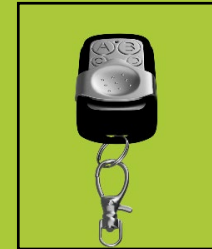
⚙ OPERATION

The product can be operated using two ways –

A. PUSH BUTTONS

1. Use the green and red buttons to open and close the awning. These buttons are configured as momentary switches; the operation is activated when the button is pressed and is deactivated when the button is released.
2. Press the white button to turn on the onboard LED strip. This button is configured as a latch switch; when pressed, the action opens and remains open until the button is pressed again, at which point the operation ends and the LED is turned off.
3. Press the blue button to turn on the attached accessory. This button is configured as a latch switch; when pressed, the action opens and remains open until the button is pressed again, at which point the operation ends and the accessory is powered off.
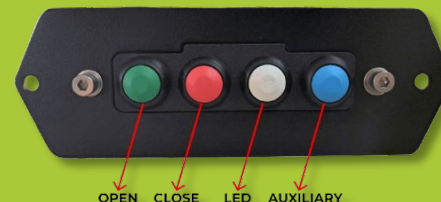
B. REMOTE CONTROL

1. Use the buttons A & B to open and close the awning. These buttons are configured as momentary switches; the operation is activated when the button is pressed and is deactivated when the button is released.
2. Press the button C to turn on the onboard LED strip. This button is configured as a latch switch; when pressed, the action opens and remains open until the button is pressed again, at which point the operation ends and the LED is turned off.
3. Press the button D to turn on the attached accessory. This button is configured as a latch switch; when pressed, the action opens and remains open until the button is pressed again, at which point the operation ends and the accessory is powered off.

☑ TROUBLESHOOTING

ISSUE	REASONS	FIX
Open and close motion is staggered	• Low Battery • Grounding	• Run the car for a short while and then check the system again. • Check the grounding point condition. And, if necessary, clean it and reconnect it.
LED light may be flickering	• Low Battery • Grounding	• Run the car for a short while and then check the system again. • Check the grounding point condition. And, if necessary, clean it and reconnect it.
One side mechanism opens and leads faster than the other side mechanism	• Mechanism Calibration	• Open the product a little until there is access to the front actuator bracket. • Use Hex key and M6 Nut spanner and unscrew the screw from the bracket. • Close the disconnected actuator in normal state. • Reopen the actuator to position. • Re-attach the bracket with the actuator rod using the removed fasteners. • If the problem persists, contact Aphcarios Sales Team for further advice.
Remote press does not get registered	• Low Battery • Signal Noise	• The remote battery level may be low. Install new A27 battery by removing the remote's back cover using a small Philip head screwdriver. • Other consumer devices in the vicinity may cause disturbance in the signal. Move to another area and recheck. • If the problem persists, contact Aphcarios Sales Team for further advice.
Device is not powering up	• Blown Fuse • Loose Electric Contact • Grounding	• Check the inline fuse condition of the power cable. And if installed the cut-off switch fuse as well. • Make sure the power cable crimps are intact. • Check the grounding point as well. And, if necessary, clean it and reconnect it. • If the problem persists, contact Aphcarios Sales Team for further advice.

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⚲ ABOUT US

Aphcarios Engineering Solutions was founded with the motto "Innovate For A Better Tomorrow". We take our innovative electro-mechanical product ideas through the development process, starting from concept all the way to production. We leverage our personal experience and passion to produce unique and patent registered products.

ⓘ HELP & SUPPORT

For more help and support do not hesitate to contact us

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⦿ USEFUL LINK

♺ SAFE DISPOSAL OF PRODUCT

- This symbol means that electrical products shall not be disposed with normal Household waste.
- Please follow your country's rules and regulations for the safe disposal of electrical products.

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Enriching Your Outdoor Experience