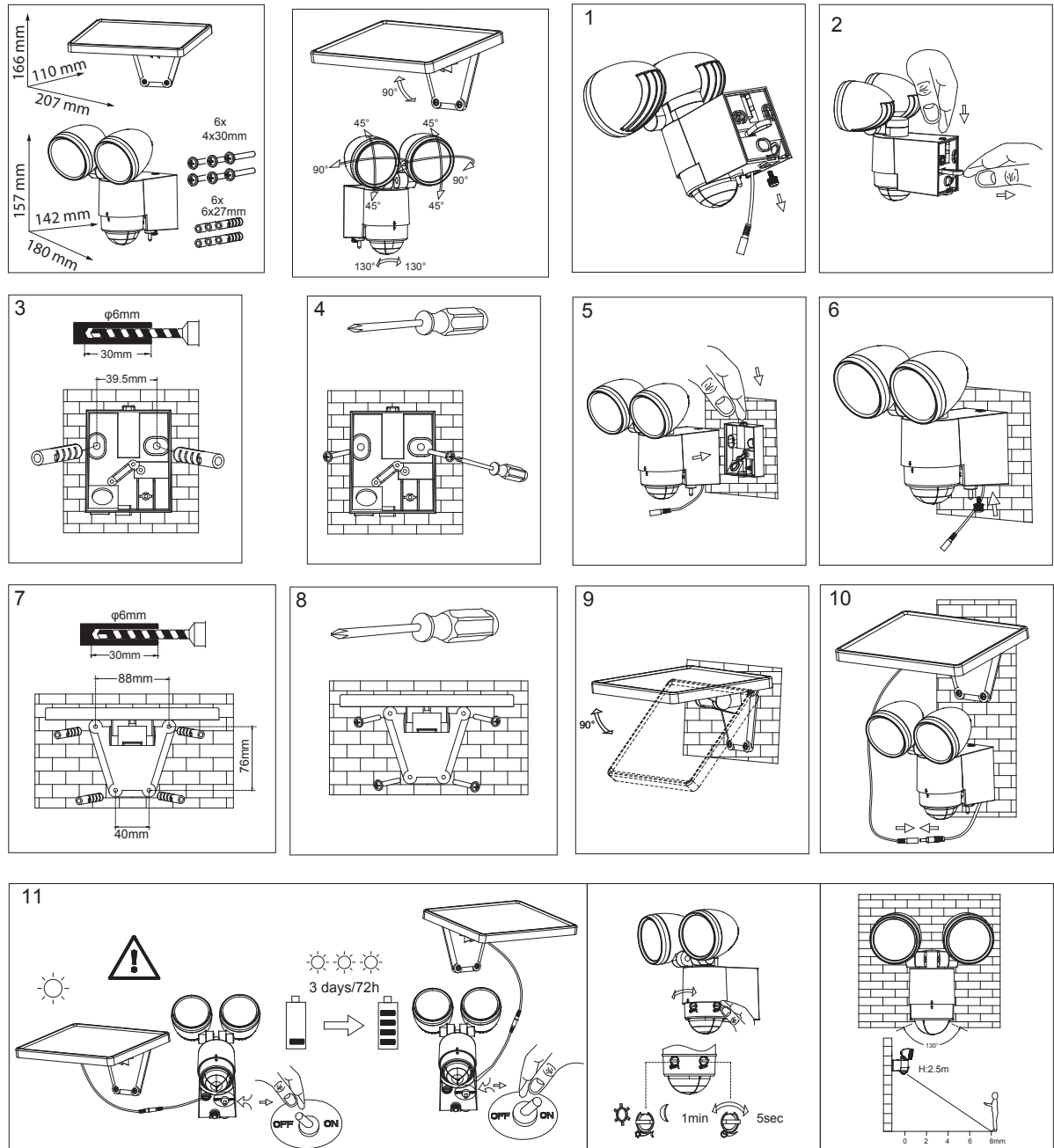




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# VAP Duo WL Black Solar MODEL: 90500



**Important:** Please ensure that you charge the solar lights in maximum sunlight for a period of up to 3 days (for 2200mAh Ni-MH) before switching on the lights, in order that the lights work on a full charge

## HOW TO DETERMINE WHERE TO MOUNT YOUR SOLAR PIR SENSOR LIGHT

The most important thing to remember for the operation of your SOLAR PIR SENSOR LIGHT is that it works from the power contained in **DIRECT SUNLIGHT**. The more direct sunlight the solar cell receives in a day, the longer the light will operate.

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## Main Unit:

The main unit contains the 2\*6\*0.5W LED, motion sensor and battery (**Ni-MH Rechargeable battery, 3.6V 2200mAh**). When deciding where to mount this unit, keep in mind that the motion sensor that activates the light has a “field of vision” of min. 8 meters (in front of the light) and about 130° (horizontal) at 25 °C environmental temperature.

## Solar Cell:

The solar cell is the power source for the SOLAR PIR SENSOR LIGHT. It converts the sun’s energy into electricity that charges the battery stored in main unit. This requires **DIRECT SUNLIGHT** falling onto the face of solar cell for as long as possible over the course of day.

Use the three screws supplied (#4 on parts list) to mount the solar cell unit onto a solid surface. Make sure it is anchored into the solid surface.

You can adjust the angle of the solar cell by moving the adjustment support to the appropriate hook on the mounting bracket. Remember, it must face as much **DIRECT SUNLIGHT** over the course of the day as possible. Keep in mind shadows that may block sunlight at some point during the day.

Now carefully route the solar cell power cord to the main unit and plug it into the connector on the side of the unit.

## FINAL ADJUSTMENT AND START-UP

After you successfully installed your SOLAR PIR SENSOR LIGHT, you are almost ready for carefree operation with a few final steps:

### Initial 3-days Charge:

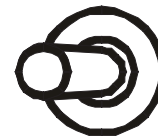
On the main unit there is a dial switch with 2 positions:

● OFF ● AUTO

**AUTO —**

Position for normal operation of unit.

**OFF ---**



**OFF AUTO**

- 1) Position for shipping or extended periods of non-use
- 2) Position for initial 3-day charge before final adjustment and first use. (Although the unit can charge, it is not operational in this mode)

For now, turn the dial switch to OFF position. In this position the solar cell will charge the battery without activating the unit. Leave the switch in this position for 3 sunny days to ensure that the battery has a full charge prior to motion sensor adjustment and normal operation.

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## HOW TO ADJUST THE MOTION SENSOR

After the initial 3-day charge, slide the switch on the main unit to AUTO position.

On the motion sensor there are three adjusting knobs: **TIME / LUX**

- 1) **TIME** --- Duration time: Depending on how long you wish the unit to stay lit after motion stops in the field of vision, the duration time will adjust from 10 seconds to 1 minute. Note: Once the light has been triggered by the PIR sensor any subsequent detection will start the timed period again from the beginning..
- 2) **LUX** – Lux control level: The Lux control module has a built-in sensing device (photocell) that detects daylight and darkness. ( \* ) position denotes that the loading will be turned on by PIR during day and night, ( ☺ ) position denotes that the loading will be turned on by PIR only at night. You can set to operate the unit at the desired level by adjusting the LUX knob.

Note: If, in daily position, the unit turns on when it is too light outside, turn the control towards ( ☺ ). however, if the light is not activating during nighttime because of a street light or bright house light, turn this control towards ( \* ).

### Walking-test:

Point the motion sensor to face the area you want to detect motion in and set the TIME knob to minimum (-) position and LUX knob to “light” ( \* ) position. Walking slowly within its detection area, the sensor can detect moving invisible infra-red radiation given off by a human body and then turn on the light. Test the coverage of the area by walking slowly around until not to switch on the light.

### ADJUSTMENT OF THE LAMP HOUSING:

Point the lamp housing to face the area you wish to illuminate.

## GENERAL ELECTRICAL AND SAFETY WARNINGS

- 1) The AUTO/OFF switch on the main unit must be in the OFF position when changing battery.
- 2) Do not cut the solar cell wire. Discontinue use if the wire becomes frayed or broken.
- 3) Do not immerse components in liquid.
- 4) Do not use any other charge than the single solar charging panel provided with the SOLAR PIR SENSOR LIGHT. This may result in injury or damage to the light and voids any warranty.
- 5) Position so that the cord is securely fastened and will not result in a hazard (such as tripping).



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- 6) When changing battery, be careful of any sharp edges that could cut you or the wires. Do not pull on wires.

## **CLEANING**

It is important that the solar panel is kept free of dirt and debris. A dirty solar panel will not allow the battery to fully charge and this will shorten the life of battery and cause the light to malfunction.

## **STORAGE**

If you wish to store your light indoors for more than two or three days, follow these steps to prevent damage to battery:

1. Turn the switch to OFF position
2. Store the light and solar panel where it can receive some sunlight or room light each day. The battery needs light to maintain a charge during storage.

## **NOTE THE FOLLOWING TROUBLE-SHOOTING:**

1. Symptom: Light doesn't activate in normal operation.

**Correction:** make sure that:

- 1) The main unit switch is at the AUTO position.
- 2) The Lux control is not set too far toward (  $\text{D}$  )
- 3) The motion sensor is positioned to face oncoming movement
- 4) The solar cell is angled so that it gets plenty of direct sunlight for most of day, if not the entire day.
- 5) Battery charge is not too low (charge for 3 sunny days—switch turned to OFF)

2. Symptom: Light turns on during the day.

**Correction:** Make sure that

- 1) The Lux control is not set too far toward (  $\text{✳}$  )

3. Symptom: Light quickly flashes on and off

**Correction:**

- 1) Move the Lux control toward (  $\text{✳}$  )
- 2) Low battery (charge for 3 sunny days—switch turned to OFF).

4. Symptom: Light is not as bright as normal.

**Correction:**

- 1) Low battery (charge for 3 sunny days—switch turned to OFF).