

USER MANUAL

DOMINIUM Motion Sensor Solar Street Light



THANK YOU FOR YOUR PURCHASE
PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION / MAINTENANCE

SPECIFICATIONS

Wattage: 50w
Lamp: In-built Bridgelux 5050 LED Chip
Colour Temperature: 6000K (Daylight White)
Lumen Output: 3000 lm (190-200 lm/w)
CRI: 75
Beam Angle: 150 x 70 degrees (Type II)
LED Life Expectancy: up to 50,000 hours
Sensor: Microwave (Motion Sensor) + Light Sensor
Motion Sensor Detection: Up to 10m
Motion Sensor Delay Time: Less than 1 second
Battery Type: LiFePO4 12AH 12.8V (Replaceable)
Battery Lifespan: 8 years+
Battery Charge Time: 5-7 hours full sunshine (to full capacity)
Max Illumination Time at Full Charge: up to 5 nights
Solar Panel: 50W 18v Monocrystalline Silicon (20-25yrs lifespan)
IP Rating: IP65
Materials: Die Cast Aluminium, Tempered Glass
Weight: 8.6KG fitted (approx.)
Collar Size: 60mm diameter / 95-100mm depth
Install Height: 3-5m recommended
Features: Adjustable luminaire, adjustable panel, remote control, multi-function
Functions: Light Control, Time Control, Super Brightness, Microwave Sensor, Time + Microwave, ON
Remote Control Range: < 7m (3m install height)
Working Temperature: -25C – 65°C
Included: see packing list
EN 55015:2013/A1:2015 // EN 61547:2009



✓✓✓✓
**5 YEAR
GUARANTEE**
see website for
more details



Producer Registration Numbers: WEE/KC3440XY / BPRN0843

! WARNINGS !

- If a fitting is found to be damaged, cease use immediately.
- The unit may get warm whilst on for a period of time.
- Always take care when installing your solar light, especially when mounting it in high places (2 person install).
- Ensure the fitting is mounted out of range of head height to avoid injury.
- Fitting must be mounted to a solid lamp post with correct collar size.
- This Solar Light will not charge correctly if the panel is behind glass or artificial light is used. Poor weather will affect charging capability.
- For replacement battery, contact the manufacturer.

CLEANING & MAINTENANCE:

Occasional cleaning and care are recommended for this product. Wipe with a soft, slightly damp cloth to remove any surface dirt. To maintain efficiency, specifically clean the solar panel, LEDs and sensor on a regular basis. Also, keep the solar panel free of debris and snow to prevent reduced battery life or malfunction. Do not use abrasive cleaners or a lot of water as this could damage the fitting. Please refer to our website for more information on the best way to clean different materials.

DISPOSAL / RECYCLING: Waste Electrical Products & Batteries should not be disposed of with household waste. Please check with your local authority or contact us for more information. Please recycle packaging.



RETURNS:

If purchased from a 3rd party, please contact your supplier. If purchased direct, contact us by phone or email:
Exterior Lights UK Ltd Tel: +44 1689 606342 Our full returns policy is available on our website. Email: sales@exteriorlights.co.uk

Full product range & more information: www.exteriorlights.co.uk

DOMINIUM TECHNOLOGY:

The Dominium is a highly efficient solar street light with high capacity LiFePO4 batteries and a fast charging Monocrystalline solar panel. This means that even on cloudy and rainy days, it will re-charge efficiently. The high battery capacity gives enough power for up to 5 nights. Although charging can be compromised by poor weather conditions, the working mode can be changed in accordance with the seasons and the solar panel can be adjusted for optimum charging. In addition, the controller automatically adjusts the output power to match variable weather conditions encountered by the solar panel. The 3000 lumens light output is impressively bright, powerful enough to illuminate car parks, driveways and paths, making them safe to navigate at night. Alternatively, angle the light to illuminate signs on a pole.

INSTALLATION:

SUPPLIED IN TWO BOXES

LOCATION:- It is important that the installation location is carefully considered, avoiding shady areas. The best solar panel position is south facing. Take note of motion sensor and illumination direction. Ensure there are no other lights which could interfere with the sensors, imitating daylight.

Height of pole	Distance between pole
3-5m	10-13m

ACTIVATION:- This solar light will need to be activated upon receipt.

For outdoor activation, connect the waterproof cables and put the full set outside in full sunshine to charge for at least 3 minutes. When the red indicator light flashes red, the activation is successful.

For indoor activation, connect the waterproof cables and then press the ON button on the remote control (remove plastic battery tab first). The lamp will turn on for 1 minute and turn back off. Activation is successful.

Allow at least 1 full day's charge prior to usual night time use.

ASSEMBLY:-

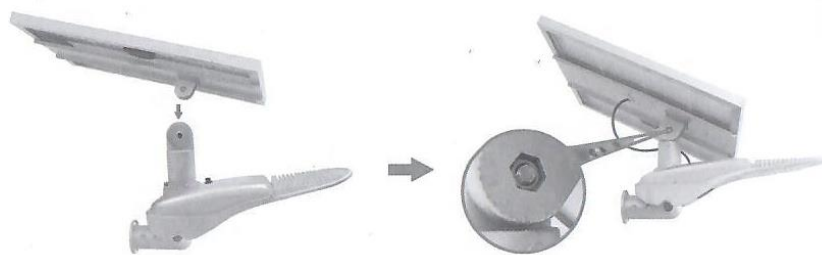
1. Remove the protective sleeve from the aluminium frame of the solar panel
2. Split the solar panel serrated clamp bracket in two by removing the M14 screw / nut with the 12mm allen key (supplied)
3. Attach the square base bracket to the solar panel using 4 x M6 socket screws and 5mm allen key (supplied) – see image. NOTE: bracket located closer to the front of the solar panel.
4. Attach the other half of the bracket to the top of the Dominium Head on the 360 degree platform initially aligning the centre of each adjustable cut-out to the pre-drilled screw points, using the 4 x M6 socket screws already fixed to the head and 5mm allen key.



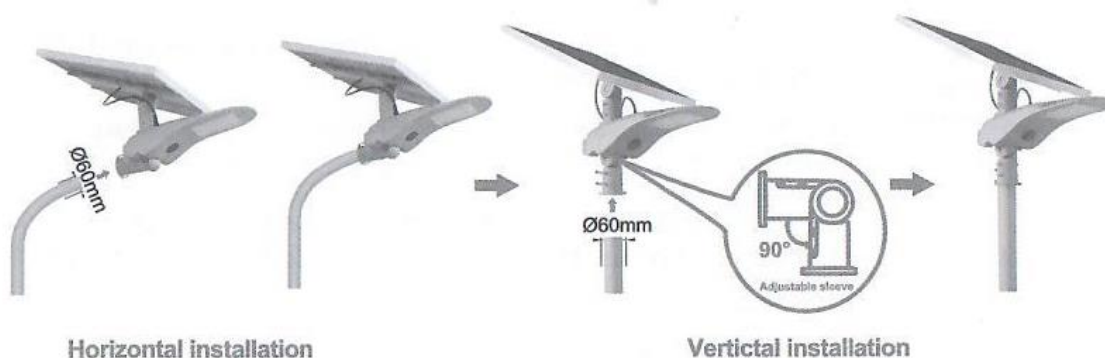
NO.	Components	Quantity	Images
1	M6x25 screws	4pcs	
	Φ5mm wrench	1pc	
2	M8x20 screws	6pcs	
	Φ6mm wrench	1pc	
3	M14x45 screws	1set	
	Φ12mm wrench	1pc	
4	Light body	1pc	
5	Solar panel	1pc	
7	360° rotating platform	1pc	
8	Elliptical bracket	1pc	
9	User Manual	1set	
10	Remote	1pc	

INSTALLATION: (continued)

5. Re-assemble the adjustable panel to attach the solar panel to the top of the Dominion head with the previously removed M14 bolt, lock washer and nut with the M12 allen key. NOTE: washer to remain with screw head.



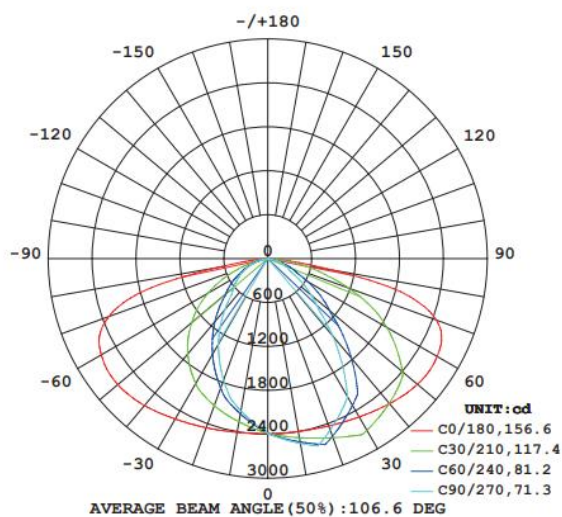
6. Slide the assembled fitting onto the installed, 60mm diameter post via the lower serrated clamp joint / collar, positioning the fitting in the required position.
7. Secure to the pole with the 6 x M6 socket screws and 5mm allen key. IMPORTANT: Fasten each screw a little at a time to keep the fitting central to the pole.



8. Connect the solar panel cable to the lamp body via the waterproof connection (align pins and cut out, push in socket and secure in place with outer screw cap – turn screw cap clockwise until fully fastened).
9. Adjust the angle of the head / panel accordingly (see Adjustments below).
10. Select function with remote control – see Modes & Settings below.



Spectrum Chart



ADJUSTMENTS

To adjust the solar panel angle, loosen the single M14 bolt through the centre of the serrated clamp joint, adjust angle to full sun position and retighten.

To adjust solar panel position, loosen the 3 M5 bolts on the 360° platform, rotate the bracket to the desired position and then retighten the bolts. NOTE: the angles are marked on the platform.

To adjust the angle of the head, loosen the M14 bolt through the serrated clamp joint attached to the post (below head), adjust angle to desired position and retighten the bolt.



MODES / SETTINGS:

As default, the Dominion is set to Mode M. Change the mode to the desired function with the remote control. See below.

MICROWAVE MOTION SENSOR MODES: When triggered, the Dominion will remain at the higher brightness for approx. 10 seconds before returning to reduced brightness (% varies based on mode selected).

REMOTE CONTROL

ON – Turn on the light
OFF – Turn off the light
L – Light Control (2hrs 100%, 2hrs 70%, 8hrs 20%)
T – Time Control (1hr 50%, 4hrs 100%, 3hrs 50%, 4hrs 25%)
S – Super Brightness (6hrs 100%, 6hrs 50%)
M – Microwave Sensor (30%, 100% when motion detected)
U – Time + Microwave (2hrs 100%, 2hrs 70%, 2hrs 50%, THEN 20%, 50% when motion detected)
 -20% - Decrease brightness by 20%
 +20% - Increase brightness by 20%



NOTE: Solar charge controller automatically adjusts the output power to match variable weather, sunlight input conditions and the battery charge level. This usually goes unnoticed but positively affects discharge time.

MEMORY FUNCTION

When a function is selected, this will remain active for every cycle, unless changed manually.

If the lamp is turned off via the remote control, it will remain off until it is manually turned back on with the remote control. When turned back on, the setting will return to original default (M) unless an alternative function is selected.

INDICATOR LIGHTS

No	Light status	Operation indicator(Yellow)	Charging indicator(Green)	Discharging indicator(Red)
1	Initialization	Flash	Flash	Flash
2	Standby	ON	OFF	OFF
3	Normal function	ON	OFF	ON
4	Charging	ON	ON	OFF
5	LED open & short circuit	OFF	OFF	Fast flash
7	Battery exhausted	OFF	Slow flash	OFF
8	Light off at given	OFF	OFF	Slow flash
9	Incorrect connection with battery	OFF	OFF	OFF
10	Overvoltage on battery	Slow flash	OFF	OFF
11	Overvoltage on solar panel	Fast flash	OFF	OFF
12	Incorrect connection with panel solar	Fast flash	Fast flash	OFF

TROUBLESHOOTING:

In particularly long periods of dull weather, illumination time may be affected due to a lower charge rate. To boost charge, turn the light off for 1-2 nights which will result in the light charging but not illuminating. Then turn the light back on as normal and select the function required. It is recommended that Microwave Mode (M) is used at times when weather is poor to help retain charge.

PROBLEM	TROUBLE SHOOTING STEPS	SOLUTION
No light at night	Check if the solar panel is blocked from sunlight by houses, trees, or other obstacles.	Clear obstructions or change installation location.
	Check if there are any artificial light source(s) affecting the solar panel.	Remove artificial light source(s) or change the installation location.
	Check the battery has power. There will be a green light flashing on the microwave sensor to indicate if there is power.	Put the solar light in strong sunshine on charge for approx. 4-6 hours, then observe the light(s) again.
	If all above steps do not resolve the issue:	Disconnect the cable between the solar panel and lamp, then connect it again. Press M mode, then wait for 1 minute and the lamp should light again.
	Test the battery voltage	If the battery voltage is lower than 11v, it is protected automatically. Use the solar panel to charge the battery directly. After fully charged, battery voltage should show 14v or above. Then observe the light again.
	Test the solar panel voltage	Test the solar panel voltage, if the voltage is lower than 10v, the battery will need replacing.
A serious shortage of working time	Check if the solar panel is blocked from sunlight by houses, trees and other obstacles.	Clear obstructions or change the installation location.
	Check if the solar panel is dusty or covered.	Clean the surface of the solar panel.
	Confirm if the working mode is correct.	Use the remote control to readjust the mode to 'M'.
	If there has been cloudy and rainy conditions for more than 5 days, this may have an effect.	After a full day of sunshine, observe the lights again. The light can be turned off at night to help boost charge.
Lights fail to turn on properly via motion sensor	Check if the working mode is correct.	Adjust the mode to 'M' or 'U'
	Check if the temperature outside has been very hot.	When the air temperature is very hot, motion detection may slow down. It will return to normal when the temperature has lowered.
	Check if the light has been installed too high up.	If the light exceeds 10m high, it's out of the motion sensor detection range. It is recommended to reduce the height.