

Quick Start Guide

AV-HL-FL

Thank you for purchasing this product. This guide will provide you with a brief summary of the steps involved in deploying the AV-HL-FL.

The purpose of this Quick Start Guide is to present a brief summary of the steps involved in deploying your Avlite provided floodlight. Your product will consist of a prewired and preassembled AV-HL-FL light fixture (and solar assembly for solar variants) on a frangible mount assembly.

Heliport Flood Light AV-HL-FL

Avlite's floodlight has been specifically designed for helipads to provide uniform surface lighting where the TLOF and FATO lights need to be supplemented with floodlighting. The fixture is available in solar (PV) and wired versions (DC and Universal Mains UM).

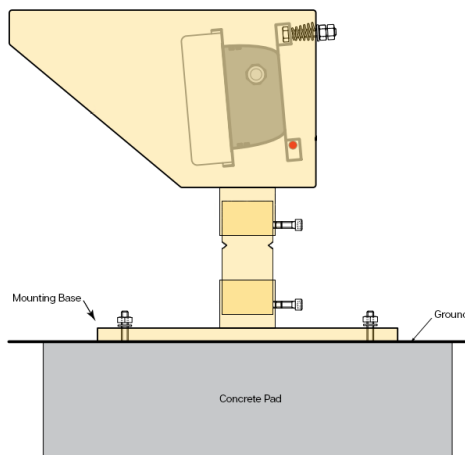


Theory Of Operations

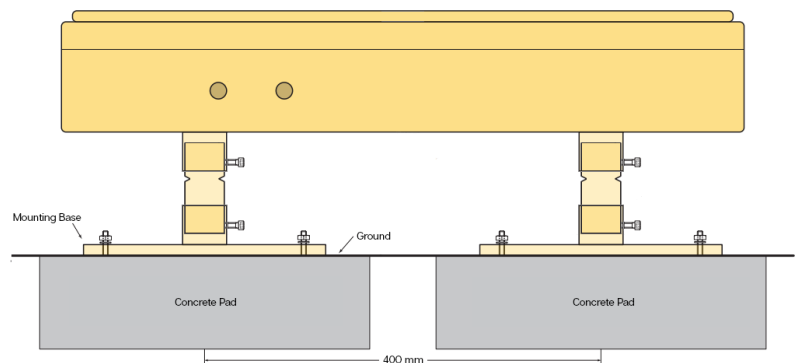
AV-HL-FL-PV model: The solar module of the light converts sunlight to an electrical current that is used to charge the battery during daylight hours. The battery provides power to operate the light at night. For optimum solar charge performance, it is recommended that the unit is orientated with the solar panels facing East-West.

AV-HL-FL-DC and UM models: The wired fixtures are connected to one another as part of a daisy chain configuration where power, control and monitoring points are wired in parallel utilizing a single cable route per lighting circuit and junction boxes per fixture. The HLS is controlled from a primary Helipad Controller which provides power and state transitions to each connected lighting circuit.

LED Floodlight Unit - Side View



Solar Assembly - Front View



Step 1: Install the LED Floodlight Units and solar assembly (if required)

Set up a number of concrete pads at equidistant points around the TLOF at ground level. The concrete pads should have a dimension of approximately 400mm x 400mm with sufficient depth depending on soil conditions. Embed 4 bolts, using the Mount Base as a placing template, fitting level when dry. As an alternative, it is possible to use rubber tiles instead of concrete pads.

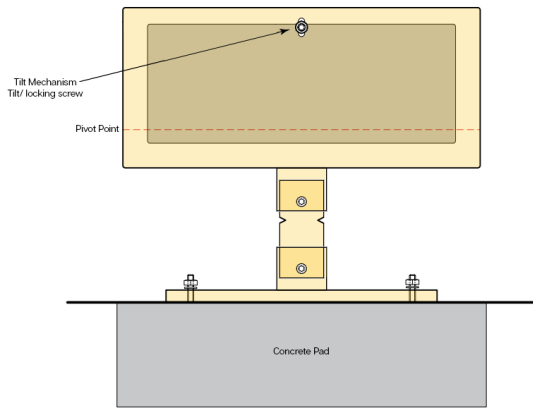
Repeat for installing solar assembly, which requires two concrete pads with 400 mm between the mounting centrepoints.

AV-HL-FL-PV model only: Connect the LED Floodlight Unit to the Solar Assembly using the Avlite supplied 2m long cable.



For the full manual, visit the link below:

avlite.com/product/product-page-url-NotTheDirectManualLink/

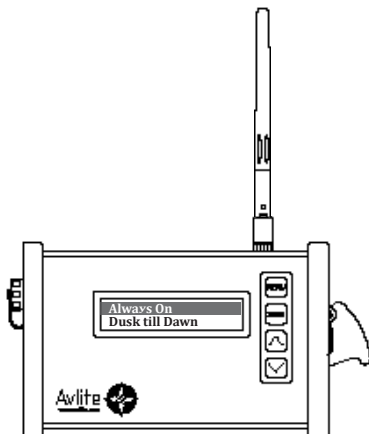


Step 2: Adjustment of LED Floodlight Unit

AV-HL-FL-PV models: Determine to which group each individual light belongs.

Set the light group by adjusting the Rotary Switch A on the PCB to the appropriate light group (E.g. 0, 1, 2 etc).

AV-HL-FL-DC or UM Models: Wire the LED Floodlight Unit into the daisy chain configuration via the junction box. Follow the wiring instructions in section 7.0 of the Installation Manual.



Step 4: Test and secure

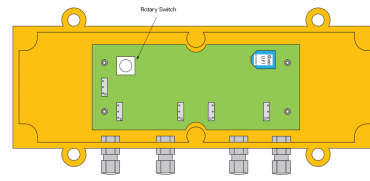
AV-HL-FL-PV models: Test the operation of the light by using the Radio Controller

Close the PCB enclosure and Solar Assembly. Secure the lid with the provided bolt.

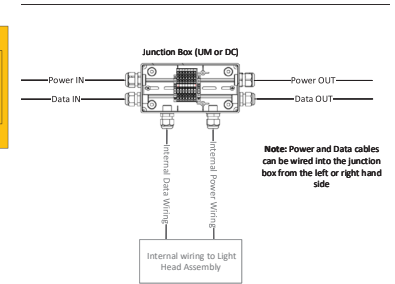
AV-HL-FL-DC and UM Models: Test the Operation of the lighting circuits in the Helipad Lighting System using the Primary Helipad Controller (AV-HL-CTRL-T1 or AV-HL-CTRL-T2)

Bolt the light to its final location.

PV Model



DC and UM Models



Step 3: Set the Light Group (PV Model Only) or wire the Floodlight unit (DC and UM Models Only)

AV-HL-FL-PV models: Determine to which group each individual light belongs.

Set the light group by adjusting the Rotary Switch A on the PCB to the appropriate light group (E.g. 0, 1, 2 etc).

AV-HL-FL-DC or UM Models: Wire the LED Floodlight Unit into the daisy chain configuration via the junction box. Follow the wiring instructions in section 7.0 of the Installation Manual.



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