

# M650 SOLAR MARINE LIGHT

## INSTALLATION AND BEACON CONFIGURATION

**Note: Install the M650 beacon and other top-side mounts before installing the solar tower on the buoy.**



**Figure 1:** NexSens M650H 4-Nautical Mile Solar Marine Light

### IR Remote Programming

- 1 Point the IR remote at the side of the M650 and hold down the power button for approximately three seconds.
  - a. The right-most decimal point on the bottom screen will illuminate.
- 2 Activate the beacon by entering the passcode sequence  $\text{⏻} \text{7} \text{5} \text{3} \text{✓}$ 
  - a. The main LED will flash once with each registered keypress.
    - The bottom screen will display "I r Pr" followed by "I r X" where X indicates the number pressed on the IR remote.
  - b. Three quick flashes following a sequence indicates that the command was accepted.
  - c. Two slow flashes indicate that the command was refused. Carefully re-enter the command.

- 3 Once the passcode is accepted, check the battery charge by entering the sequence

$\text{⏻} \text{8} \text{1} \text{0} \text{✓}$

- a. Once the sequence is entered, the beacon will quickly flash 3 times to acknowledge the command. Observe the flash pattern that follows.
  - 4 flashes indicate a bad battery
  - 5 flashes indicate a low battery
  - 7 flashes indicate a battery that needs charged
  - 10 flashes indicate a good battery

- 4 Turn on the beacon by setting a flash code.

- a. Enter the default flash code:

$\text{⏻} \text{0} \text{6} \text{6} \text{✓}$

- b. Additional flash codes are available following Appendix E of the M650 user manual.
  - [nexsens.com/m650hman](https://nexsens.com/m650hman)
- c. The beacon will flash with the designated pattern for 60 seconds after the code is accepted. It will resume flashing when low ambient light is detected.

### Powering Off The Beacon

- 1 Whenever a beacon will be stored indoors for more than a day, it should be turned off to preserve battery.

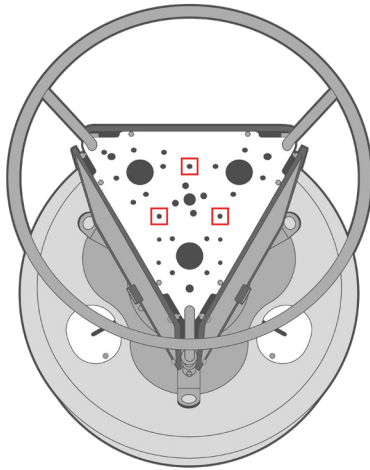
- a. Enter the passcode sequence from step 2.
- b. Send the following command:

$\text{⏻} \text{0} \text{0} \text{0} \text{✓}$

- When successful, the main LED will flash quickly 3 times to acknowledge the command.

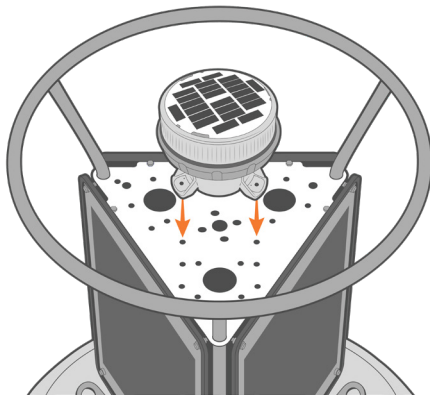
## Installation on NexSens Solar Tower

- 1 Follow the included M650 illustration guide to install the bird spike kit.
- 2 Locate the (3) threaded inserts on top of the CB-Series solar tower outlined by the red squares in the schematic below.



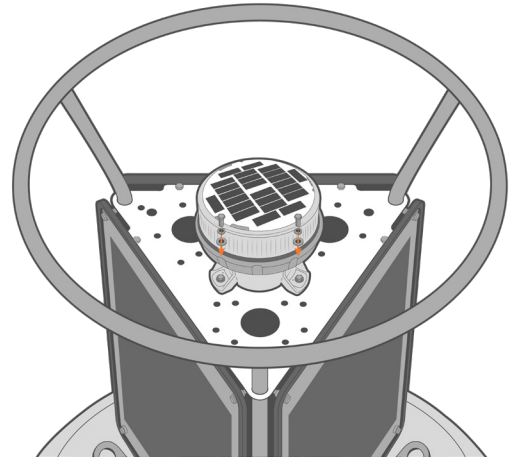
**Figure 2:** M650 mounting points on the CB-Series solar tower.

- 3 Align the (3) holes at the base of the marine light with the mounting points.



**Figure 3:** M650 mounting alignment.

- 4 Place a bolt with a lockwasher and flat washer into each mounting point.
  - a. Tighten down the bolts with a 7/16" socket wrench.



**Figure 4:** Securing the M650 solar marine light.