# MESH SCHEDULER, MESH-SCHD

The Mesh Scheduler, MESH-SCHD, provides interval and intensity scheduling for the NVision ecosystem of **Bluetooth®** mesh lighting controllers, including all MESH-CTRL variants. All these devices are easily commissioned with either of the NVision Android or iOS mobile apps and do not require an Internet connection to set up or operate.

Technology Partner SILVAIR Bluetooth


Combining the reliability of **Bluetooth®** mesh with integrated battery backup, the MESH-SCHD delivers a simple and robust mechanism for scheduling light fixtures to be at the correct intensity at the correct time for uninterrupted lighting control. Lighting schedules and device settings can be set directly through the button interface of the MESH-SCHD or through via a web browser on your Desktop, Tablet, or Smart Phone, using the integrated web server. Lighting schedules can have up to 24 intervals over a single day and intensities are set from 0% to 100% in 1% increments.

Operationally, each MESH-SCHD can be provisioned to the same network as the MESH-CTRL products and be used to control a group of MESH-CTRL lighting controllers. Each controller in the group is dimmed to, and maintained at, the desired % intensity from a **Bluetooth®** mesh command from the MESH-SCHD. For 0-10V drivers with dim-to-off capability, an intensity level of 0% turns the fixture off.

## Features:

- Robust control scheme with **Bluetooth®** mesh protocol
- Easily configured and provisioned through NVision mobile applications
- No Internet connection required to setup or operate
- User-selectable intensity settings from 0-100% (1% increments)
- Uninterrupted control after power outage or equipment relocation with internal battery backup
- Built-in rapid charge battery charger (full charge in ~4hr)
- Horticultural Lighting – easily integrated into commercial or home grow environments

## Specifications:

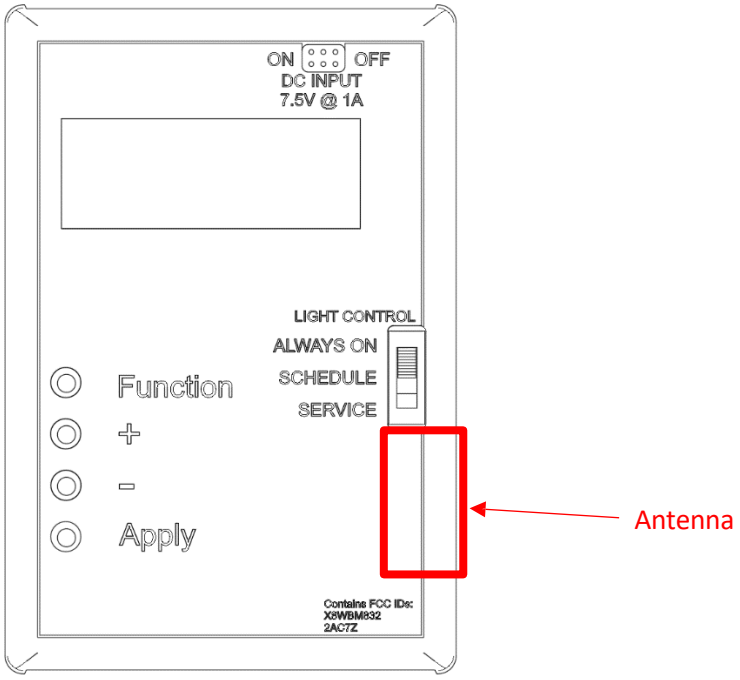
- Powered from 7.5 V AC/DC Power Adapter
- Integrated battery backup (3x NiMH AAA)
- Battery life: 24 hours

## Range:

- The range between a MESH-SCHD and one of the MESH light controllers can vary greatly. Factors determining communication range include obstacles (walls, equipment, etc.) and enclosure material. In open air, the range between two units can exceed 200m. However, if either device is enclosed in a metal structure, the range could be limited to under 1m.
- A benefit of using the MESH-SCHD and the NVision eco-system of Bluetooth® mesh lighting controllers is that they all employ mesh technology, in which each device rebroadcasts the message it receives, thus extending the overall coverage area of the mesh network.

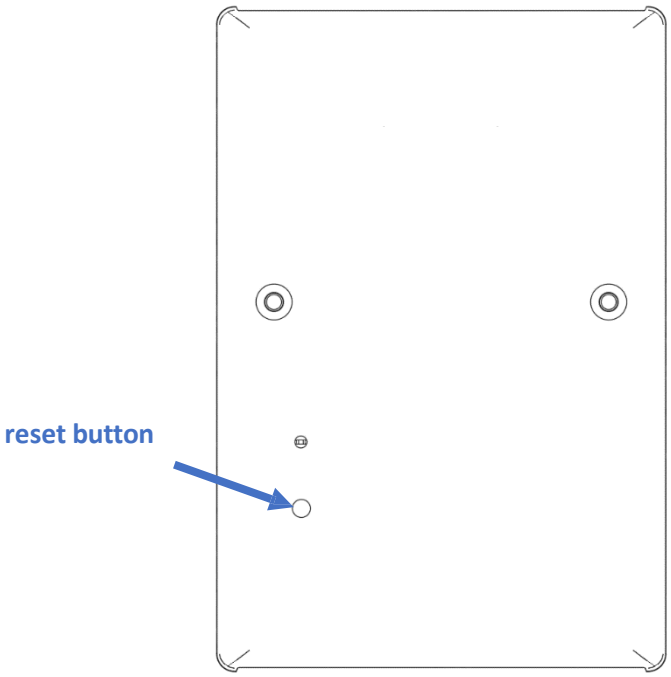
## Antenna Location:

- The **RED** box indicates the PCB antenna location. If the MESH-SCHD is located within a custom enclosure, please make sure the enclosure material allows for the propagation of wireless signals through the material. For instance, windowless metal enclosures are not an ideal housing for wireless devices.
- For best Bluetooth range performance, keep all external metal at least 30mm from the antenna area.



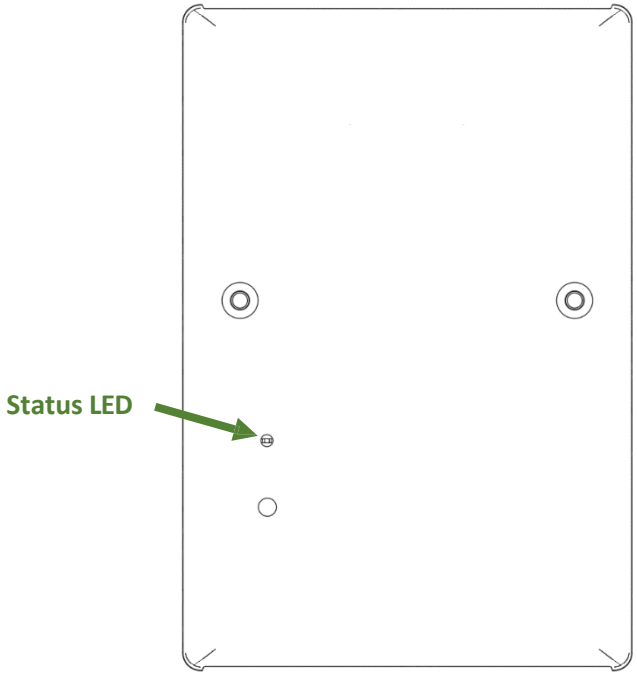
## Factory Reset:

- The MESH-SCHD can be reset to the factory default state by holding the **reset button** for a minimum of 5 seconds while power is applied. While the **reset button** is being held down, the **status LED** will stay on for 1 second, then fast blink 2 times per second for 5 seconds, and then turn off. Once the reset is complete, the **status LED** will blink at 3 times per second to indicate the device is in an un-provisioned state.



## Status LED:

- The **status LED** indicates the MESH-SCHD is in one of two states:
  - **Un-provisioned State:** The **status LED** will blink approximately 3 times per second.
  - **Provisioned State:** The **status LED** will blink approximately 1 time every 2 seconds.
- The **status LED** also indicates when a mesh package is received by blinking two times in rapid succession.




## In the box:

- MESH-SCHD
- 7.5V@1A AC/DC Power Adapter
- Quick Start Guide (url)
- Detailed User Manual (url)

## Certifications:

- Bluetooth QDID: Pending
- FCC ID: X8WBM832 & 2AC7Z-ESP32WROOM32E
- IC (Industrial Canada) ID: 4100A-BM832
- CE: Compliant

Information in this document is subject to change.