# Keilton +autani

**CS107D**

# Line Voltage Dual - Tech Ceiling Sensor

## User Guide

**2026**

**Download the Keilton+autani App**

Keilton iOS

Keilton Android
@GooglePlay

**LiteTrace Brands**

# TABLE OF CONTENTS

# Product Introduction

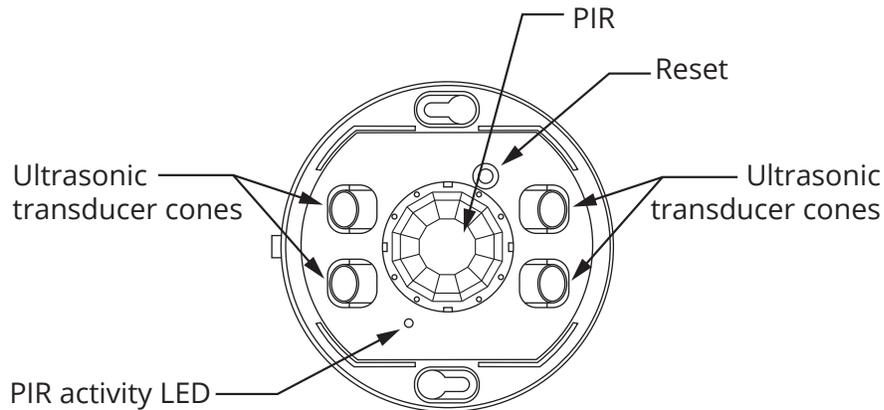## CS107D Series- Line Voltage Dual-Tech Ceiling Sensor

The CS107D is a line-voltage dual-tech occupancy sensor that combines PIR and ultrasonic technologies to provide high accuracy and wide coverage. The integrated photocell provides an adjustable ambient light "Hold-OFF" feature. If ambient light exceeds a programmed threshold, the sensor will keep lights off, even when occupancy is detected.

Commissioning via the Keilton+autani app allows the sensor to turn a load on and hold it on if either or both technologies detect movement. The CS107D works seamlessly together with other wireless devices in the Keilton+autani system.

Main features of CS107D include:

- 120-277VAC input
- 600 sq ft room coverage
- Daylight Harvesting
- Dual-tech PIR + Ultrasonic technology provides high accuracy and wide coverage
- Wireless Bluetooth connection to other Keilton+autani devices

# Reset Button and Indicator



PIR

Reset

Ultrasonic transducer cones

Ultrasonic transducer cones

PIR activity LED

**LED Indicator**:
The indicator flashes in two colors, blue and green.
Blue: Receives a wireless package/triggered by PIR
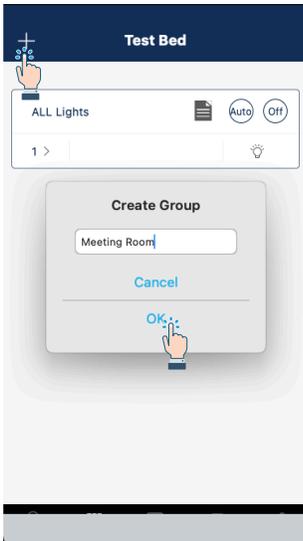Green: Triggered by ultra sonic

**Reset Button**:
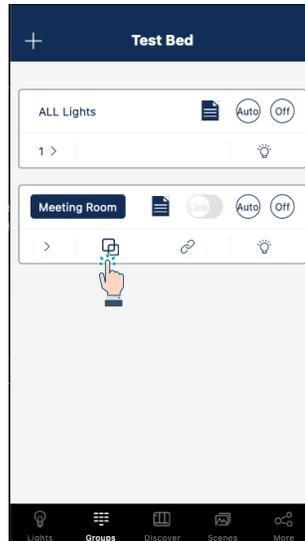Remove the face plate and you may find the reset button.
Press the reset button for 3 seconds to reset the CS107D to factory setting. The indicator will flash blue quickly and you may pair it with APP within 30 seconds.

# Create and Add the Light to the Group
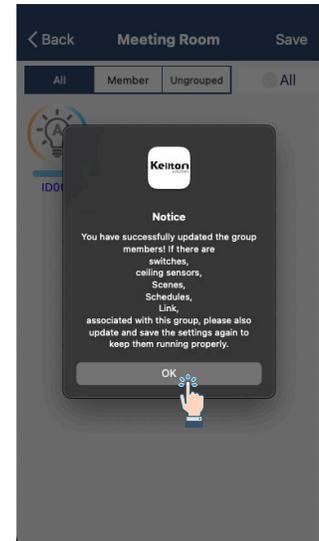
## Switch / Group Association



**1.** Select the "**+**" button to create a new Group. Type the group name and select "**OK**".

**2.** Select the Member symbol to list the lights in Group.
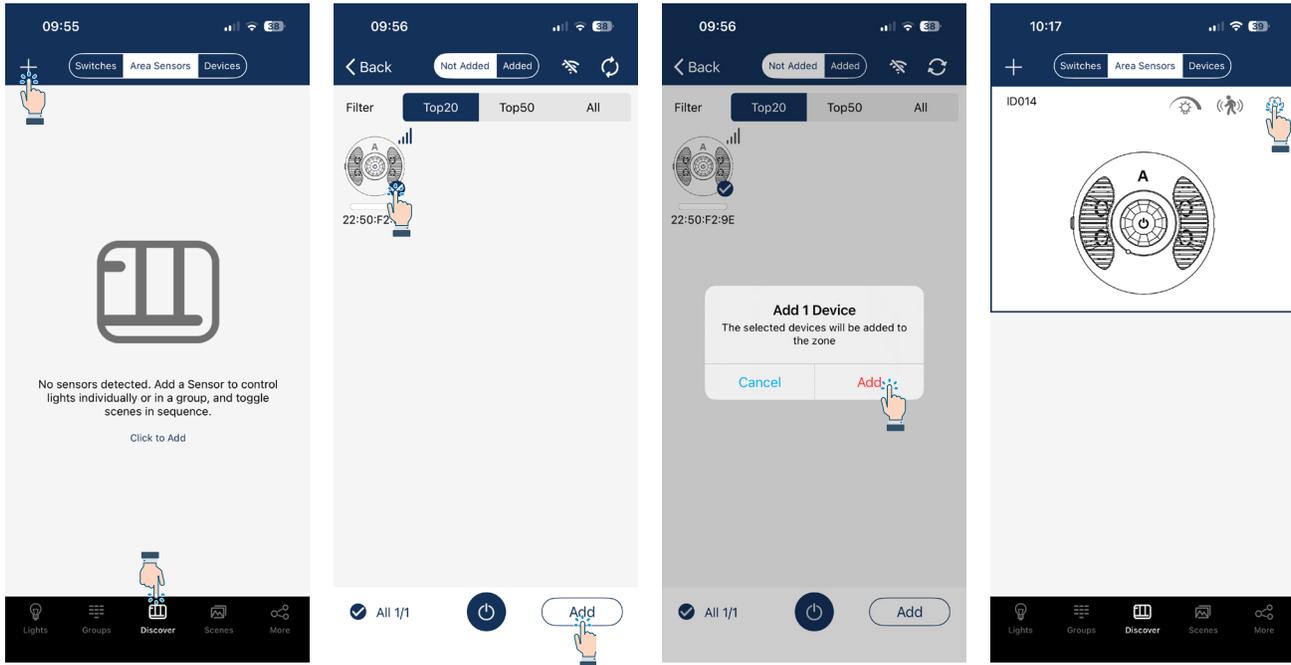
**3.** Select which lights you want to add or remove. Select "**Save**" to confirm changes.

**4.** Select "**OK**" to confirm.
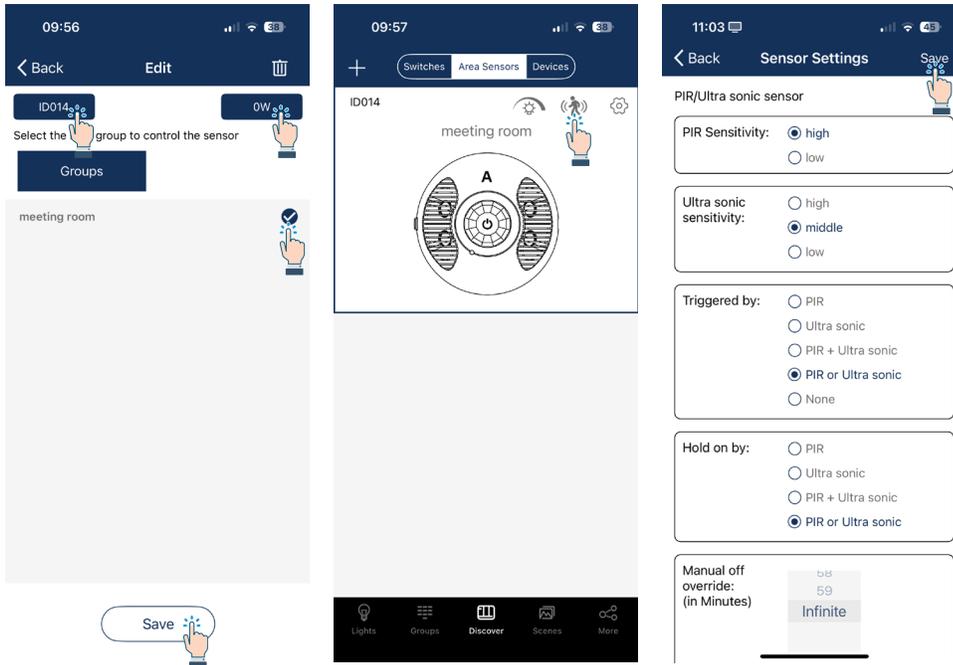
# Add CS107D to Keilton APP



**1.** CS107D works as an Area sensor in Keilton APP. Go to '**Discover**' page on Keilton APP and select Area sensors, select the '**+**' button to start adding the CS107D sensor.

**2.** Select '**Add**' to confirm adding. Please reset the CS107D to factory setting if it failed to show up.

**3.** Select the configuration button on the top right corner of the sensor to bring out the configuration page.

# CS107D Configuration

## Adjust Sensor Settings



**1.** You may re-name the sensor, input the rated wattage for relay output load, and associate the sensor to a light group.

**2.** Then select the sensor setting button.
'**A**' means the CS107D is in auto mode, it can be triggered after the lights turn off automatically.

**3.** You may set the sensitivity of PIR and Ultra sonic sensor, how motion should be triggered and held and the hold time. Select '**Save**' to save the settings
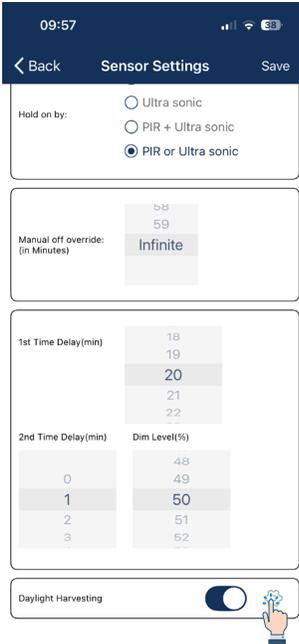
Triggered by and hold on by options:

- PIR: only motion detected by PIR is effective.

- Ultra sonic: only motion detected by ultra sonic is effective.

- PIR + Ultra sonic: only motion detected by both PIR and ultra sonic is effective.

- PIR or Ultra sonic: motion detected either by PIR or ultra sonic is effective.

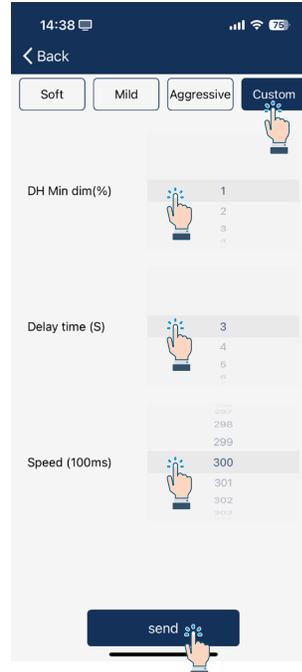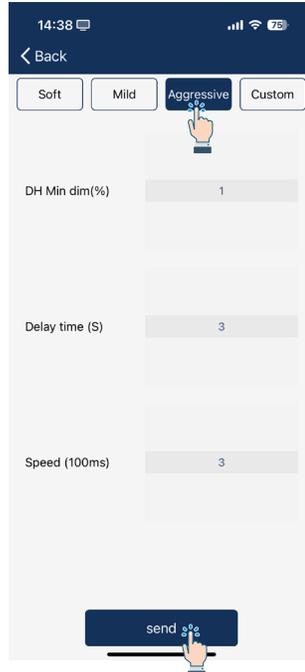- None: similar to vacancy mode, motion won't trigger any action.

Manual off override: When light is turned OFF manually, by either APP, switch or schedule, it remains OFF and won't be triggered by motion during the 'Manual OFF override time' period. If motion is detected during this period, it will restart the time counter.

# CS107D Configuration
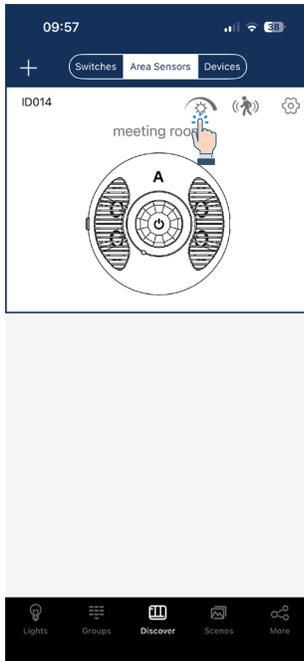
## Daylight Harvesting



**1.** You may enable/disable Daylight harvesting and set the Daylight harvesting parameters.

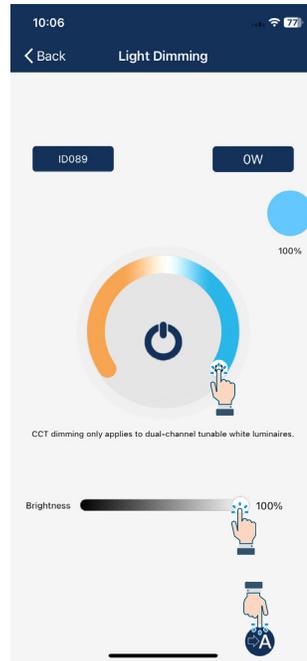**2.** There are three pre-defined strategies select one that best fits application or select the Customer to fine-tune the parameters. Select '**Send**' to save the settings.

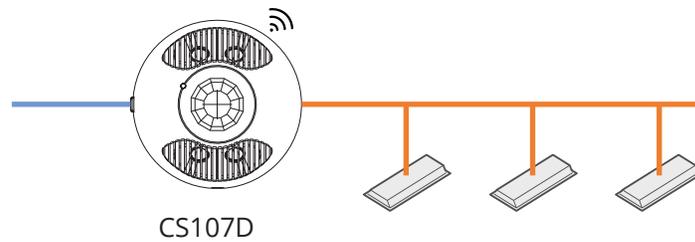# CS107D Configuration

## Adjust Light Dimming Settings





**1.** Select the dimming button to bring out Light Dimming settings page.

**2.** Set to the desired dimming and tuning levels and Select the '**A**' to save the current ambient brightness.

# Typical Applications

## Relay Configuration



CS107D

**Legend:**

───────  Power supply

───────  Relay Output

 Non-KPA Enabled Lights / Appliances

To ensure proper operation of non-KPA enabled lights or appliances, they must be connected to the relay output side of the CS107D controller. **DO NOT** connect Wireless KPA Enabled Light Fixtures to this output.
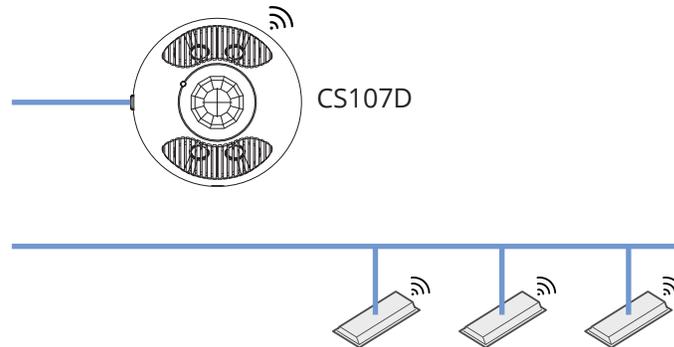
Use the CS107D to turn ON/OFF non-Keilton-inside lights and appliances.

Connect those lights and appliances to the relay output of the CS107D so it will automatically turn ON them when motion is detected and turn OFF them when it timed out.
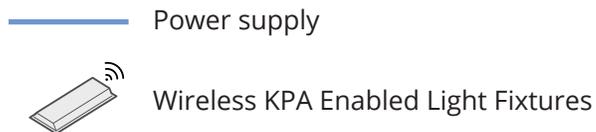
You may also associate a switch to the same group with CS107D so to manually turn ON/OFF them when necessary.

# Typical Applications

## Linkage Application



CS107D

**Legend:**

—————  Power supply

Wireless KPA Enabled Light Fixtures

> To ensure proper linkage functionality, Wireless KPA Enabled Light Fixtures must be connected to constant unswitched power. **DO NOT** connect these fixtures to the load/relay side of the CS107D controller.

Use the CS107D to turn ON/OFF Keilton-inside lights and appliances.

Associate the CS107D to a group of Keilton-inside lights, so it will automatically turn on them when motion is detected and turn off them when it timed out.

You may also associate a switch to the same group with CS107D so to manually turn ON/OFF them when necessary.

Please follow the instructions to provide bi-level dimming on Keilton-inside light together with the CS107D ceiling sensor:

- Commission the CS107D and the lights to a ZONE by Keilton+autani App.
- Create a group and add those lights as members.
- Enable the motion sensor function for Keilton-inside lights on Keilton App (even there are no motions sensors installed on these lights).
- Disable the daylight harvesting sensor function for the group.
- Set proper T1/T2 and dim level for those lights.
- Dim the group to proper level and save it as auto point.
- Better set the T1/T2/DIM same as the group.
- Bind the CS107D to this group.

# Need Help?

**Technical Support For installation, configuration, and troubleshooting assistance**
Support Center: https://autani.zendesk.com/hc/en-us | Email: support@autani.com
Phone: +1 (443) 320-2233 | Hours: Monday-Friday, 9 AM - 5 PM EST

**Sales & Product Information**
For product questions, quotes, and orders:
Email: sales@litetrace.com
Phone: +1 (443) 320-2233

**Company Information**
LiteTrace Brands
7001 Columbia Gateway Dr, #210 Columbia,
MD 21046, United States

**Online Resources**
Website: https://www.litetrace.com
Resources: https://www.litetrace.com/resource

**Document Information**
Keilton+autani CS107D User Guide
Published: February 2026 Document