Keilton +autani

Setup Guide

This guide will help you get started with the most commonly used features of the Keilton+autani mobile app and Bluetooth® system hardware.

For detailed instructions, please refer to the complete Keilton+autani App Instructions available online at litetrace.com.

IMPORTANT

Important – Please Read Before Using the App

1. **Do not add any lights to the app** until your electrician or product manager begins the commissioning process.
2. **Only one person and one device** should be involved during the commissioning .
3. **For security reasons**, always save the QR code in a secure place after creating the zones.

SYSTEM CAPABILITIES

Capacity Limits

The following chart provides the capacity limits of the Keilton+autani system.

Luminaires	Up to 100 lights (nodes) per zone. Unlimited zones available with each zone having its own sharable QR code with commands and setting info assignable for administrative or user level
Luminaire / Group	A light can be a member of up to 20 groups.
Scene	Up to 32 scenes can be set to a light. Up to 127 scenes can be set to a zone.
Schedule	Up to 32 schedules can be set to a zone.
Switch	Up to 32 switches can be set to a zone. *Note: switches and lights are calculated separately. Adding switches to a zone does not affect the maximum number of lights.*

DEFAULT SENSOR SETTINGS

Integrated Sensors

Models: IFS108, IFS105, EFS106, EFS104, IFS101

Motion sensor = ON
Photo sensor = OFF
T1 = 20 min
T2 = 1 min
Dim level = 50%
Sensitivity = 100%
High trim = 100%
Low end trim = 1% or 10%, depend on products
Daylight min dim = Low end trim
Occupancy/Vacancy mode = Occupancy
Linkage = OFF
Linkage level = 100%
Photocell ON threshold = 50FC
Photocell OFF threshold = 150FC

Note: PC function available on certain models

Line Voltage Occupancy Sensor Single Mode

Model: CS107S

PIR Sensitivity: High
Mode: Occupancy (auto on/auto off)
Hold time: 1 min
Photocell: Off

Sensor-Ready Controllers

Models: FA102, WPPA102, PPA102S, PPA104S, WF20R

Note: Controllers without integrated sensors, may later connect to Eco-Sensors
Motion sensor = OFF
Photo sensor = OFF
T1 = 20 min
T2 = 1 min
Dim level = 50%
Sensitivity = 100%
High trim = 100%
Low end trim = 1% or 10%, depend on products
Daylight min dim = Low end trim
Occupancy/Vacancy mode = Occupancy
Linkage = OFF
Linkage level = 100%
Photocell ON threshold = 50FC
Photocell OFF threshold = 150FC

Note: PC function available on certain models

Line Voltage Occupancy Sensor Dual Mode

Model: CS107D

PIR sensitivity: High
Ultrasonic sensitivity: Middle
Triggered by: PIR
Hold on by: PIR
Hold time: 1 min
Photocell: Off

PREVIEW STEPS AND DOWNLOAD APP

To download the Keilton+autani APP, scan the QR code below, which corresponds to the type of smart phone/tablet that will be downloading the APP:

Download on the App Store

GET IT ON Google Play

1

Preparation Work:
a. Define the Control Intent Narrative and SOO
b. Install lights and test power for each

2

Setting Lights, Groups, and Scenes:
a. Create Zones and generate QR Codes
b. Connect lights to the APP
c. Group lights
d. Create Scene settings
e. Add switch controls
f. Set switches, timers, and schedules

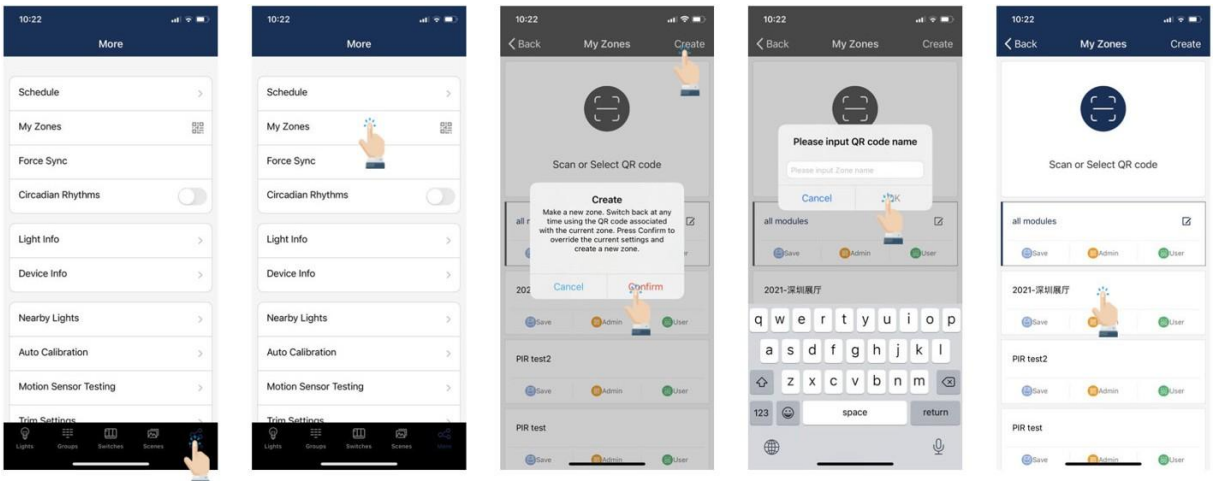
3

Set Lights with Sensors:
a. Set sensor parameters
b. Configure light linkage levels
c. Set Auto Light levels

4

Deliver Project:
a. Share QR codes

NAME PROJECT AND CREATE CONTROL ZONES



Name the project and create the Zone.

- Important to select “OK” when mobile device prompts you for permission to access your photo library.
- Tips and Notes:
  - 100 nodes max per Zone (switches not included in count)
  - Be sure to connect to internet during process to save the QR code with settings.

ADD LIGHTS/DEVICES

1. From the Lights page, select the "**+**" button in the upper left corner.

2. Select **Top20**, **Top50** or **All** from the filter at top of screen to show lights with the strongest Bluetooth signal

3. The APP will scan for lights that can be added to the zone. Lights can be identified in a room by pressing the icons to turn it on and off.

4. Select the lights you want to add by pressing the check mark located in the lower right corner of desired light icons.

5. Select "**Add**" to associate all of the selected lights into the zone.

6. Confirm by selecting the "**Add**" button in the dialog box. A light will blink to indicate a successful connection.

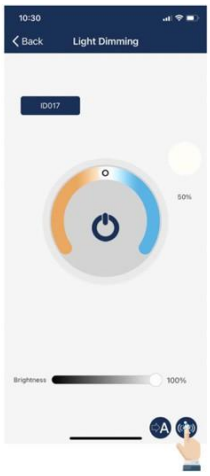
7. Select the "**Back**" button to return to the Lights page.
8. Confirm that all lights have been added and successfully connected with the APP.

Tips and Notes:

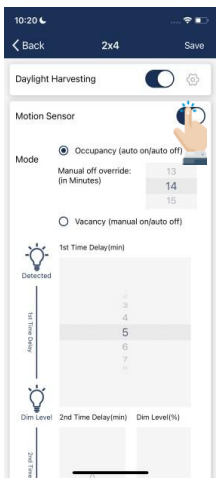
- If possible, only energize devices you want to add to limit radio traffic and to simplify the commissioning process.
- If there are visible devices NOT added to the Zone, move closer to the devices to improve signal strength.
- Your phone's antenna and proximity to the Bluetooth devices determines the the signal strength.
  - Adding a Keilton+autani Signal Booster accessory can improve signal strength.
  - Apple (iOS) mobile devices typicaly have a stronger Bluetooth antenna than Android devices and MAY detect devices better.
- Once Bluetooth devices are added to the Zone, other mobile devices with the app have no access to the Bluetooth devices unless the QR codes are shared later.
- Devices will be visible in the app only if you are within range of the Bluetooth mesh network (or any node belonging to the mesh).

CREATE SENSOR SETTINGS

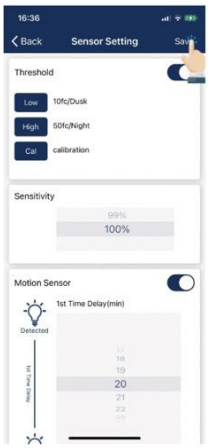
1. From the Lights page, do an extended press and hold on a light's icon to open the Light Dimming settings page.



2. Select the "**Sensor Settings**" icon in the lower right corner.



3. Enable or disable motion sensors, and set levels as desired.

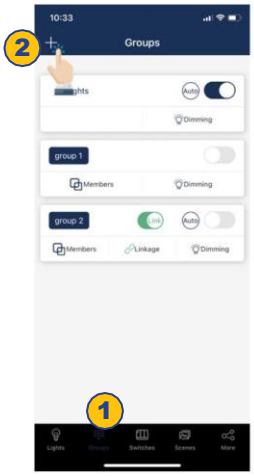


4. Select the "**Save**" button in the upper right to save sensor settings.

Tips and Notes:

- Default setting for most devices:
  - Daylight Harvesting = OFF (for devices that feature Daylight Harvesting)
  - T1 = 20min
  - T2 = 1min
  - Dim level = 50%
- There are two working modes of motion sensors:
  - Occupancy mode: Auto turns on when motion is detedted and auto turns off when T1/T2 timeout.
  - Vacancy mode: Auto turns off when T1/T2 timeout, lights must be manually turned on with switch.
- T1 and T2 time delays may be set to infinite to prevent lights form turning off.

CREATE GROUPS



1. Select the "**Groups**" page in the bottom menu.
2. Select the "**+**" in the top left corner.

3. Type the group name and then press "**OK**".

4. Select the **lights** that you want to add in the group by selecting the checkbox in the bottom right of the desired Light icon.

5. Use the filter at the top of the screen to help add proper lights to the group:
   - **All**: All lights are shown
   - **Grouped**: Only lights added to at least 1 group are shown
   - **Ungrouped**: Only lights that have NOT been added to a group are shown

6. After all Lights have been selected, press "**Save**" to save the Group.

Tips and Notes:

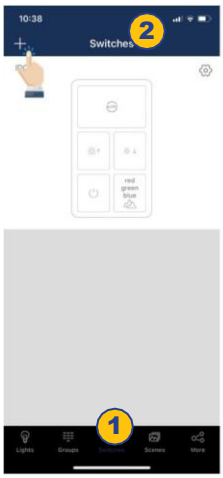
- Devices must be online to be added to a group.
- Luminaires within the group will flash when they are successfully added to the group.
- It is suggested that the application area is grouped by space within a Bluetooth network range. Example: Private Office = one group. Name groups to correspond with building room/area naming.
- Linkage means the light dimming level for the luminaire is activated by motion from a device in the same group.
- Be sure to activate Auto mode (select "A") and Save the settings for the dimming level and motion settings.
- Use Group settings to make commissioning quicker. Select Save when complete to override individual light settings.

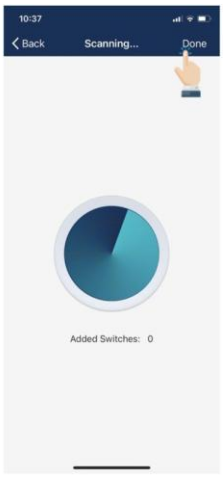
QUICK SCENES

Tips and Notes:

- Quick Create Scences
  - A scene can be created for each Group with specified brightness and CCT settings (if luminaire is CCT tunable)

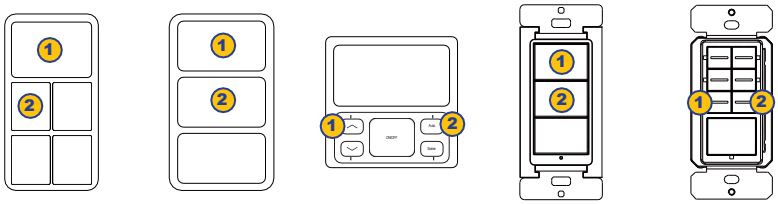
ADD SWITCHES





Tips and Notes:

- Each switch can be set in pairing mode by pressing buttons 1 and 2 shown below at same time for 3 seconds till blue LED light flashes.
- Release switch when light flashes. The app will show the switch model when paired.

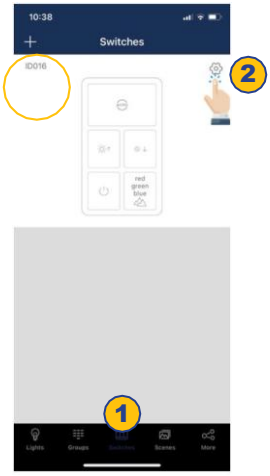


1. Select the "**Switches**" page of the APP.
2. Press the "**+**" button in the upper left corner.

3. The APP will search for nearby switches.

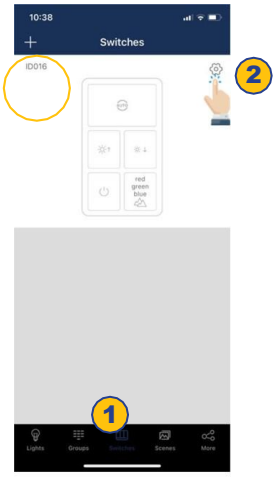
4. Follow the instructions below in order to pair the specific Switch type.

PAIR LIGHTS TO SWITCHES



1. From the "**Switches**" page of the APP, select the switch to assign lights.
2. Press the settings button in the upper right to access switch settings.
3. Select "**Lights**" to see a list of individual lights.
4. Select only one light to assign to the switch.
5. Select "**Next Step**" at the bottom to continue.

PAIR GROUPS TO SWITCHES

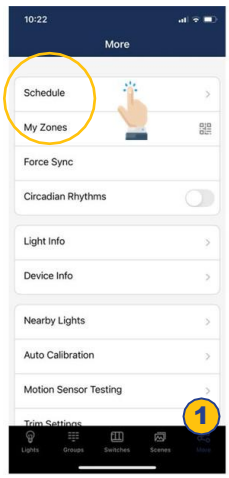


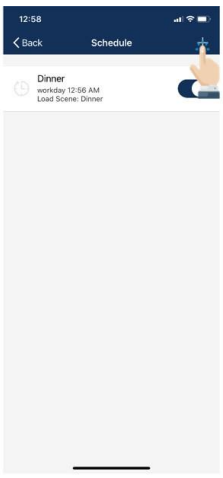
1. From the "**Switches**" page, select a switch to assign a group.
2. Press the settings button in the upper right to access switch settings.
3. Select "**Groups**" to see a list of groups.
4. Select only one group to assign to the switch.
5. Select "**Next Step**" at the bottom to continue.

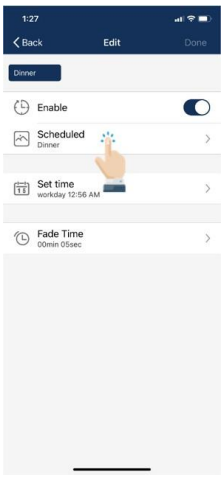
Tips and Notes:

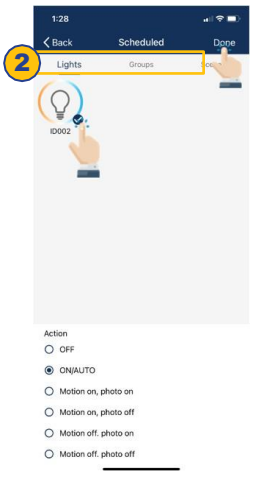
- One switch can control one light or a group of lights.
- One light or a group of lights can be controlled by multiple wall switches.
- To add ceiling sensors, see full Keilton+autani App Instructions.

SET SCHEDULES









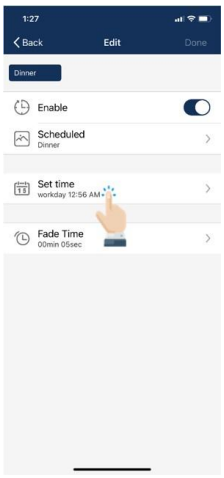
1. From the "**More**" page, press "**Schedule**".

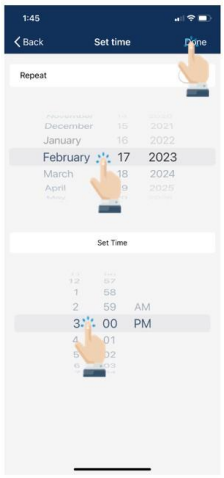
2. Select the "**+**" in the upper right corner.

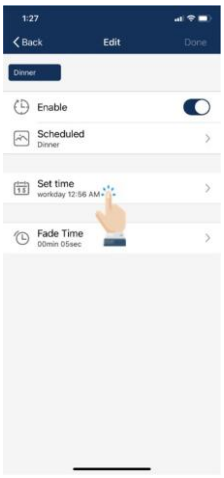
3. Type in a name for the schedule.
4. Press "**OK**" to continue.

5. On the Edit screen of a selected schedule, press "**Scheduled**".

6. Choose between "**Lights**", "**Groups**", or "**Scenes**".
7. Select one light/group/ scene to schedule.
8. Press "**Done**" to continue.







1. On the Edit screen of a selected schedule, press "**Set time**".

2. Choose preferred date for the schedule.
3. Choose preferred time for the schedule.
4. Press "**Done**" to continue.

5. On the Edit screen of a selected schedule, press "**Set time**".
6. Select to enable the Repeat switch.

7. Choose which days of the week you want the schedule to repeat.
8. Set desired time for the schedule.
9. Press "**Done**" to continue.

Tips and Notes:

- The Bluetooth devices have no internal time clock. A real Time Clock accessory such as the Keilton+autani CR01 device must be used (One device per Zone) to maintain schedules during power outages.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