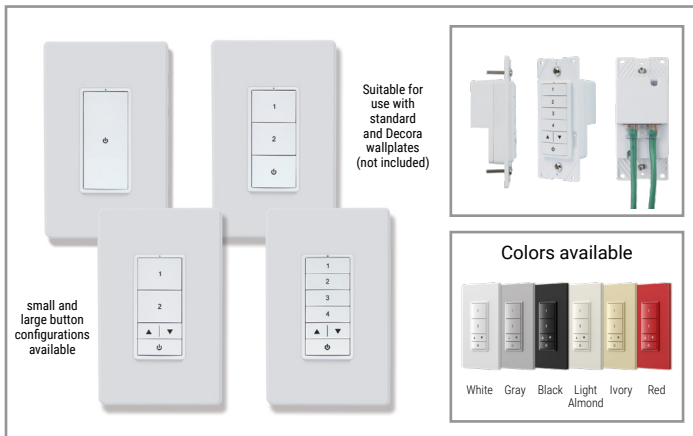


Project		Catalog #		Type	
Prepared by		Notes		Date	



WaveLinX

CAT Wallstation (WST-C series)

Multi-scene, single zone, affected zones dimming control, and toggle features

Typical Applications

Office • Education • Hospitality • Retail

Interactive Menu

- Order Information page 2
- Additional Resources page 3
- Connected Systems page 5
- Product Warranty



- Meets latest ASHRAE 90.1 - 2019 requirements
- Meets latest IECC - 2021 requirements
- Meets latest Title 24 - 2019 requirements
- Manufactured in an ISO 9001 certified factory

Product Features



Compatibility



Overview

The WaveLinX CAT Wallstation is a sleek commercial keypad with smooth tactile feedback that allows users to control lighting levels in a space managed by WaveLinX CAT switchpacks. The wallstation is a single gang decorator keypad that enable toggle/raise/lower/scene and level control of lighting zones. The wallstation is powered by and communicates with the other CAT devices via CAT5 cable through RJ45 connectors. The same CAT5 cable is used to power the wallstation. The wallstation is available in a variety of button configurations. Each button's action can be customized using the intuitive WaveLinX CAT mobile app.

Product Features & Benefits

- **Comprehensive button configuration options (multi-scene selection, raise/lower, on/off, zone control)** – Allowing specifier to offer customized experience in areas such as conference rooms, private offices, and other areas requiring architectural dimming
- **Powered by the category cable** – No separate power source required to power the wallstation
- **Clean and Elegant design** – Suitable for all interior applications
- **Software programmable buttons** – Customize each button and light level to improve occupant experience
- Reduced commissioning time with easy configuration through WaveLinX CAT mobile app

product diagrams

Order Information

WaveLinx CAT Wallstations are accessories to the WaveLinx system which may be commissioned via the WaveLinx mobile apps.

SAMPLE ORDER NUMBER: **WST-C-3D-Z12** (WaveLinx CAT 3 Button Dimming Zone 1 and Zone 2 Control)

Catalog Number

Standard Wallstation Configurations

Color	Custom Engraving
[BLANK] = White V = Ivory G = Gray A = Light Almond B = Black R = Red	ENGRV = Custom Engraved
Notes To order color options and for custom engraving, please use the variant configurator tool	



WaveLinx CAT application required to customize programming for each button.
 Suitable for use with standard and Decora wallplates (not included).
 Buttons are not field replaceable.

Additional Accessories

Wallplates are not included with Wallstations. Please order separately.

Catalog Number

Catalog Number	Description
PJS26W	1 Gang Screwless Faceplate, White
PJS262W	2 Gang Screwless Faceplate, White
PJS263W	3 Gang Screwless Faceplate, White
PJS264W	4 Gang Screwless Faceplate, White
PJS265W	5 Gang Screwless Faceplate, White

Required Accessory

The WaveLinx CAT network requires termination of the local CAT bus network on both ends.

Catalog Number

Catalog Number	Description
ACC-C-TP-6PK	ACC-C Canbus Termination Plug - 6PK

Optional Accessories

Catalog Number

Catalog Number	Description
GGRJ45-03-G	RJ45 cables 3 feet
GGRJ45-10-G	RJ45 cables 10 feet
GGRJ45-25-G	RJ45 cables 25 feet
GGRJ45-50-G	RJ45 cables 50 feet
GGRJ45-100-G	RJ45 cables 100 feet
GGRJ45-10P-G	RJ45 cables 10 feet plenum rated
GGRJ45-25P-G	RJ45 cables 25 feet plenum rated
GGRJ45-50P-G	RJ45 cables 50 feet plenum rated
GGRJ45-100P-G	RJ45 cables 100 feet plenum rated

Product Specifications

Mechanical

Size: 4.2"H x 1.8"W x 1.5"D (107mm x 45mm x 39mm)

Mounting: Standard decorator opening (wallplate not included)

Colors: White, Ivory, Gray, Light Almond, Black and Red

Environmental:

- **Operating temperature:** 32°F to 104°F (0°C to 40°C)
- **Operating relative humidity:** 5% to 85% non-condensing
- **Storage temperature:** -22°F to 158°F (-30°C to 70°C)
- For indoor use only

Electrical

Input power: CAT powered

Network connection:

- CAT5 Solid Copper 24AWG
- T568B pin/pair assignment is recommended for all CAT5 cable

Hardware Specifications

Status Indicators:

- Single indicator LED
- LED functionality (active for 3 seconds after action)
 - Indication of wireless network join request
 - Indication of wireless network connection
 - Scene indication of operations

Software Specifications

- Each button programmable to trigger Scene or Zone
- Default values when joined to a network (area) via WaveLinx application
- Models available with dominant button 50% light level
- Secure firmware upgrade OTA from mobile application

Standards/Ratings*

- cULus Listed - Energy Management Equipment (UL916)
- FCC Part 15
- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC 2021 requirements
- Meets latest CEC Title 24 requirements
- NEMA WD-7 and NEMA 4 compliant
- CA Title 20 and Prop 65 compliant
- WaveLinx CAT is DLC Listed for interior applications - meeting the NLC5 Technical Requirements

Environmental Regulations:

- RoHS

Warning

- This product is not intended to be used in applications involving the use of ammonia-based or VOC cleaners.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- For detailed cleaning guidelines please refer to: Controls Care and Maintenance instructions at the end of this document.

Warranty

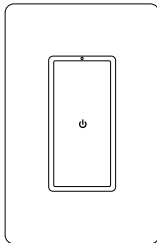
Five year warranty standard



Download the WaveLinx CAT Mobile App from either the Google Play or Apple Store®

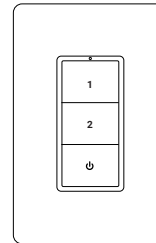
Configurations

Scene control



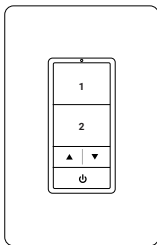
WST-C-1-*

Power Toggle Scene (Scene 0/Scene 1)



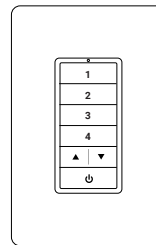
WST-C-3-*

Button 1 Scene 1 = 100%
Button 2 Scene 3 = 50%
Power Scene 0 (OFF)



WST-C-3D-*

Button 1 Scene 1 = 100%
Button 2 Scene 3 = 50%
Raise/Lower Raise/Lower the last button press action in the current area
Power Toggle Scene (Scene 0/Scene 1)
Raise Press* Increase 1% (per press)
 Hold* Increase 15% (per sec)
Lower Press* Decrease 1% (per press)
 Hold* Decrease 15% (per sec)

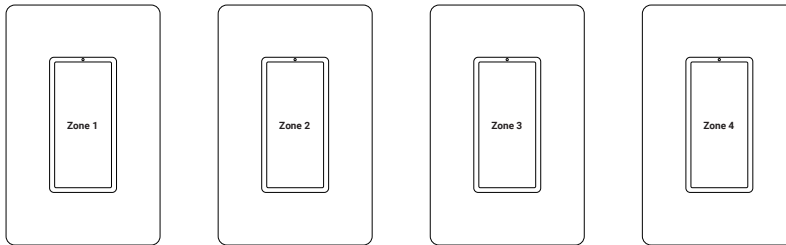


WST-C-5D-*

Button 1 Scene 1 = 100%
Button 2 Scene 2 = 70%
Button 3 Scene 3 = 50%
Button 4 Scene 4 = 30%
Raise/Lower Raise/Lower the last button press action in the current area
Power Toggle Scene (Scene 0/Scene 1)

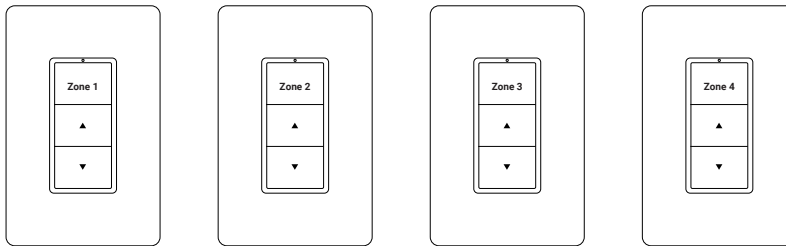
Configurations

Zone control

**WST-C-1-Z***

Button 1 Toggle Zone
(Zone OFF/Zone 100%)

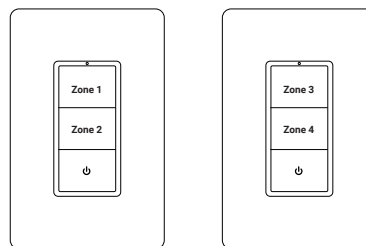
NOTE: select from zone 1 (Z1), zone 2 (Z2), zone 3 (Z3), or zone 4 (Z4)

**WST-C-1D-Z***

Button 1 Toggle Zone
(Zone OFF/Zone 100%)

Raise/Lower Raise/Lower the preconfigured zone in Current Area

NOTE: select from zone 1 (Z1), zone 2 (Z2), zone 3 (Z3), or zone 4 (Z4)

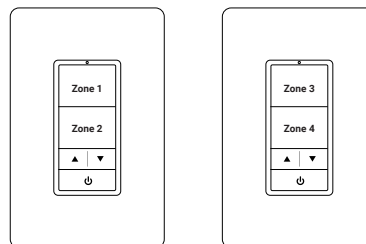
**WST-C-3-Z***

Button 1 Toggle Zone
(Zone OFF/Zone 100%)

Button 2 Toggle Zone
(Zone OFF/Zone 100%)

Power Toggle Scene (Scene 0/Scene 1)

NOTE: select from zone 1&2 (Z1Z2) or zone 3&4 (Z3Z4)

**WST-C-3D-Z***

Button 1 Toggle Zone
(Zone OFF/Zone 100%)

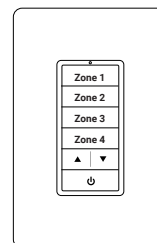
Button 2 Toggle Zone
(Zone OFF/Zone 100%)

Raise/Lower Raise/Lower the light level of the last zone or scene command

Power Toggle Scene (Scene 0/Scene 1)

Press: Toggle Scene (Scene 0/ Scene 1)
Hold: Scene 0 (OFF)

NOTE: select from zone 1&2 (Z1Z2) or zone 3&4 (Z3Z4)

**WST-C-5D-Z**

Button 1 Toggle Zone 1
(Zone OFF/Zone 100%)

Button 2 Toggle Zone 2
(Zone OFF/Zone 100%)

Button 3 Toggle Zone 3
(Zone OFF/Zone 100%)

Button 4 Toggle Zone 4
(Zone OFF/Zone 100%)

Raise/Lower Raise/Lower the light level of the last zone or scene command

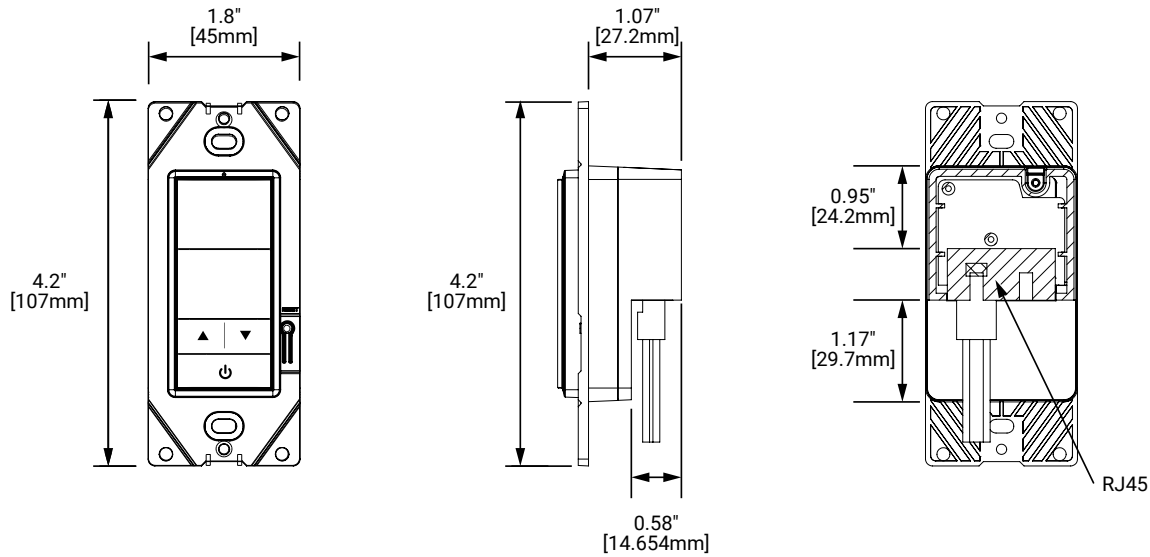
Power Toggle Scene (Scene 0/Scene 1)

Press: Toggle Scene (Scene 0/ Scene 1)
Hold: Scene 0 (OFF)

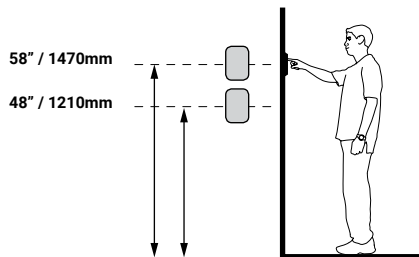
Note

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- Suitable for use with standard and Decora wallplates (not included).
- Buttons are not field replaceable.

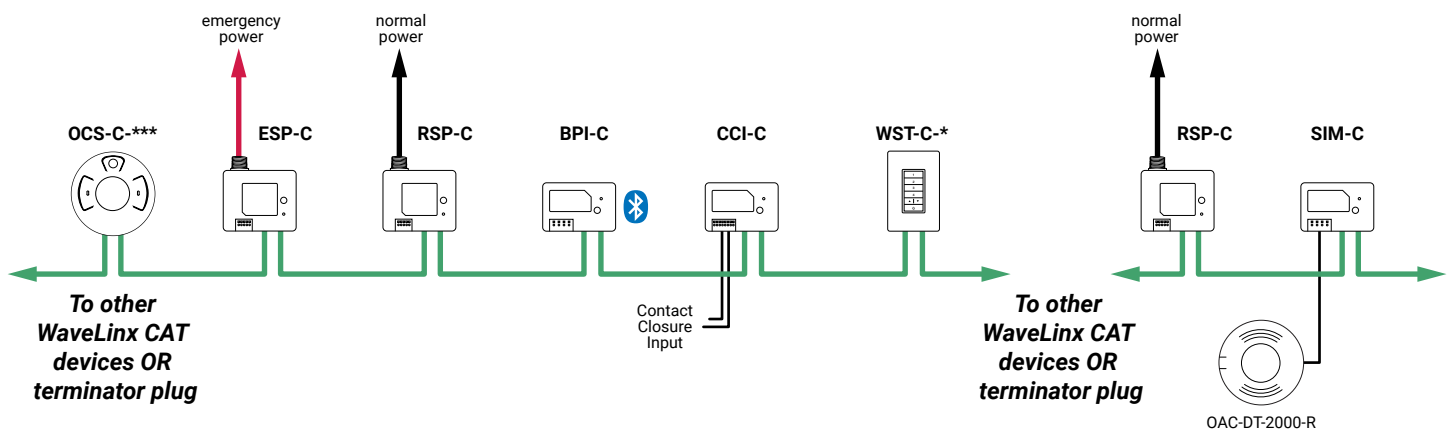
Dimensional Details



Mounting Height



Typical Topology



System Diagram:

This diagram shows the main components of the WaveLinx connected lighting system with WaveLinx DALI, CAT and PRO devices.

The PRO devices communicate using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinx Area Controller (WAC) is required for power and data access to the building lighting network.

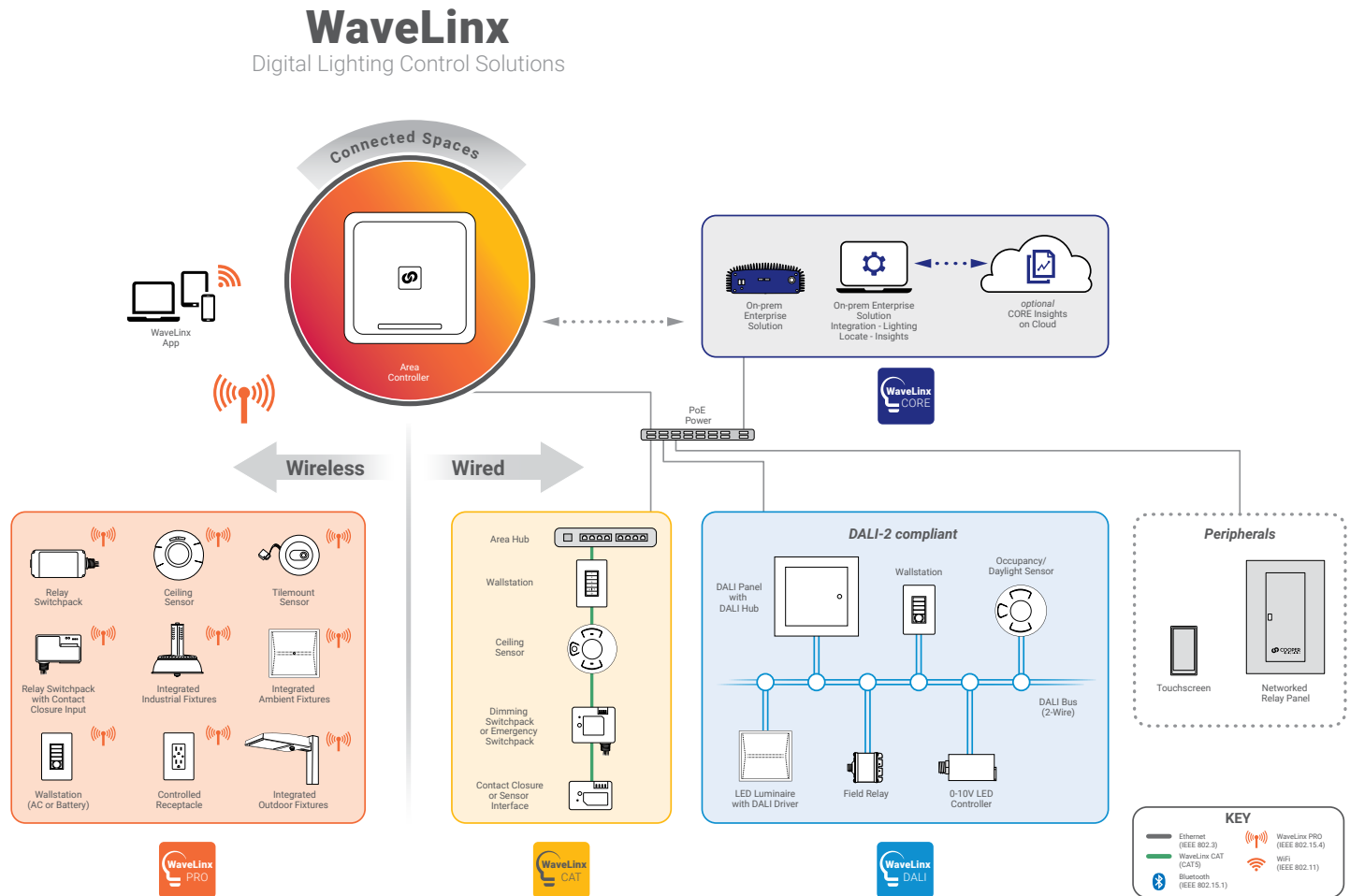
The CAT devices communicate over the category 5 based communication bus and control the light fixtures using a relay (on/off) and 0-10V output (dim/raise).

WaveLinx DALI devices communicate via a DALI bus (2 wires), which connects various components including DALI fixtures, a DALI DAC (DALI to 0-10V converter), DALI field relays, DALI wallstations, and DALI occupancy sensors.

WaveLinx Area Controllers (WAC) communicate with WaveLinx CORE Apps over the Ethernet network.



View
WaveLinx Network
and IT Guidance
Technical Guide



Control Systems

• WaveLinx



Cooper Lighting Solutions has developed recommended guidelines for cleaning our products that will not impact the operation or finish of the product.

Recommended cleaning tips:

- **Never spray any fluids directly into the device.**
- **Use of ammonia-based or VOC cleaners on this device must be avoided.** Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- **Use a damp rag or single-use wipe** to avoid excess liquid penetrating the device.
- Be sure to wipe up remaining excess liquid after cleaning.
- Ensure the cleaning agent used does not have harsh chemicals such as bleach, ammonia, highly alkaline or concentrated acids (such as hydrochloric acid that can be found in household cleaners such as toilet bowl cleaners, bathroom tile and porcelain cleaners) as they could damage the device, causing them to become brittle and discolored.
- Cooper Lighting Solutions recommends the use of a mild liquid detergent and water to clean the devices. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however the single-use wipes **cannot contain bleach, ammonia, highly alkaline or concentrated acids.**

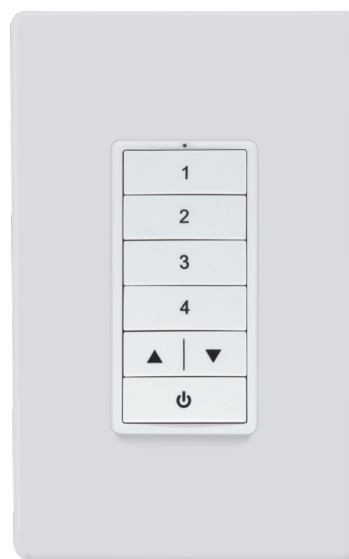


image for
reference only



WARNING

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Prolonged use may cause loss of integrity and expose electrified components.

If this occurs, turn OFF power to the unit and replace.

Recommended cleaning instructions:

- **Never spray any fluids directly into the device.**
- Apply the mild liquid detergent to a damp cloth or paper towel. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however single-use wipes cannot contain bleach, ammonia, highly alkaline or concentrated acids.
- If excess liquid is present, remove by wringing out the cloth or paper towel to avoid liquid penetration into the device.
- Clean the Cooper Lighting Solutions device by wiping over the surface with the damp cloth.
- Remove an excess liquid remaining on the device with a dry cloth or paper towel.