Smart Control System Catalog

LIGHTING

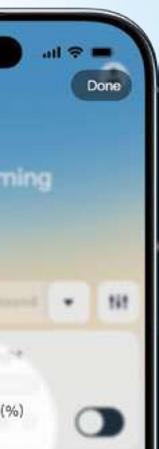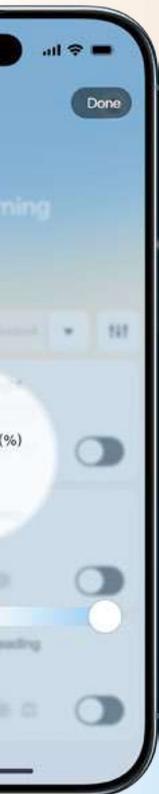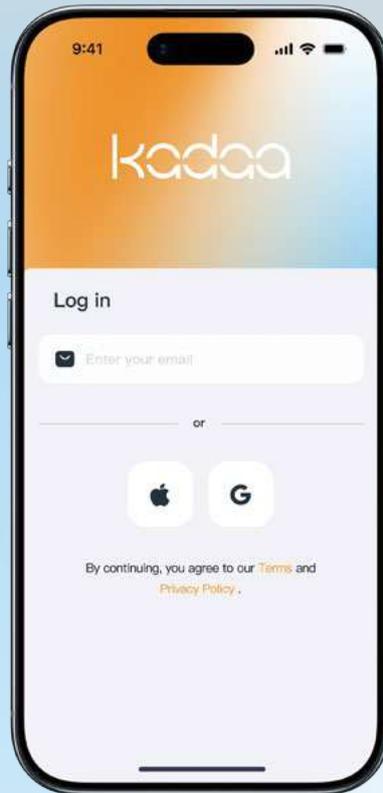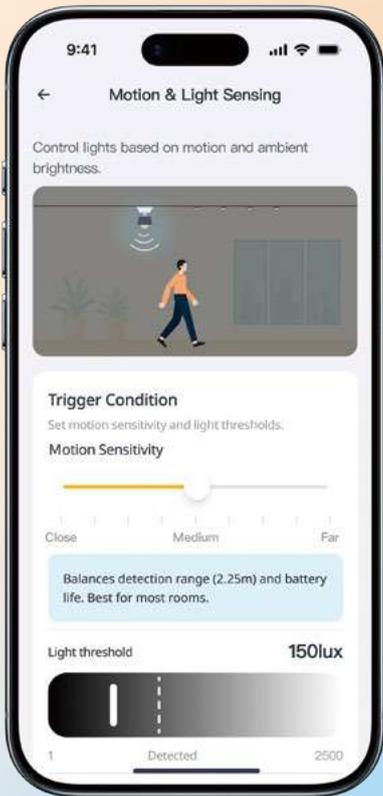*Sense the future, Embrace the innovation.*

EDISON

Sense the future. Embrace the innovation.

Content

0

Game Time

h Time   Reading

My Home ▼   Done

Room 1
Brightness (%)
50

Room Room2 Room3 Room4 ▼ ⇅↑

Good Morning   Night

Game Time   Sleep

h Time   Reading

My Home ▼

9:41

← **Motion & Light Sensing**

Control lights based on motion and ambient brightness.

Trigger Condition
Set motion sensitivity and light thresholds.
Motion Sensitivity

Close   Medium   Far

Balances detection range (2.25m) and battery life. Best for most rooms.

Light threshold   **150lux**

1   Detected   2500

9:41

My Home ▼

Good Morning

Room1 Room2 Room3

Summer   Autumn

Breeze   Sunset

Sunrise   Nightfall

Master on/off

Done

ment
Edit

oup

3 Devices   01

ght

Strip

able
ght Strip

lay

lay

9:41   Done

ning

(%)

eading

9:41   .ul ≈ ■

kadaa

Log in

✉ Enter your email

or

🍎   G

By continuing, you agree to our Terms and
Privacy Policy .

9:41

← **Light Control**   ⊙

Lamp ✏   ⬤

🌈 RGB

100%   100%

9:41   Done

ming

(%)
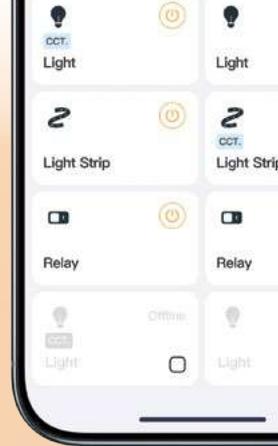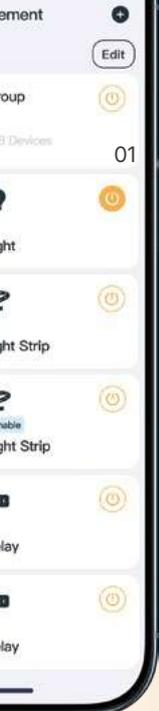
Smart Lighting Control System for Instant Ambiance at Your Finger Tips.

Centered on wireless smart control, Kadaa provides smart lighting and equipment with centralized management. Supporting rapid pairing, grouping, and scene control, it enables system integrators to achieve fast deployment, flexible expansion, and simplified post-setup adjustments.

Market Opportunity

Addressing the cumbersome challenges of wired systems to unlock the full potential of smart control.

Cost Barrier
High entry costs hinder small-to-mid scale retrofits.

Operational Complexity
Tedious setup and difficult troubleshooting drain labor.

Network Congestion
Device expansion often leads to system latency and instability.

Poor User Experience
Long-standing interfaces lead to abandonment of smart features.

Comparison of Wireless Communication Protocols

Techonology & Infrastructure	Kadaa	Wi-Fi	Zigbee
Ease of Deployment	No internet required when controlling; rapid on-site pairing via smartphone	Requires existing router/AP network and heavy bandwidth evaluation.	Dependent on a central gateway/coordinator setup.
Response Time & Stability	Instant response; high stability through localized mesh networking.	Increased network load leads to latency and drop-outs in high-density areas.	Stable, but complex to reconfigure if network topology changes.
Power Consumption	Ultra-low power consumption; ideal for long-term battery or eco-friendly use.	High power consumption; typically requires constant AC power.	Low power consumption.
Scalability & Application	Ideal for high-density commercial lighting, smart homes, and large venues.	Best for small-scale connectivity or simple residential setups.	Designed for large-scale and fixed-site industrial projects.

Wireless Advantages

Efficiency & Cost saving

Eliminating the need for complex control wiring (DALI, DMX, 0-10V), our system significantly slashes material and labor costs. It enables rapid commissioning and flexible re-configuration without rewiring.
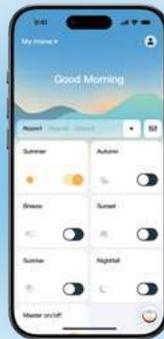
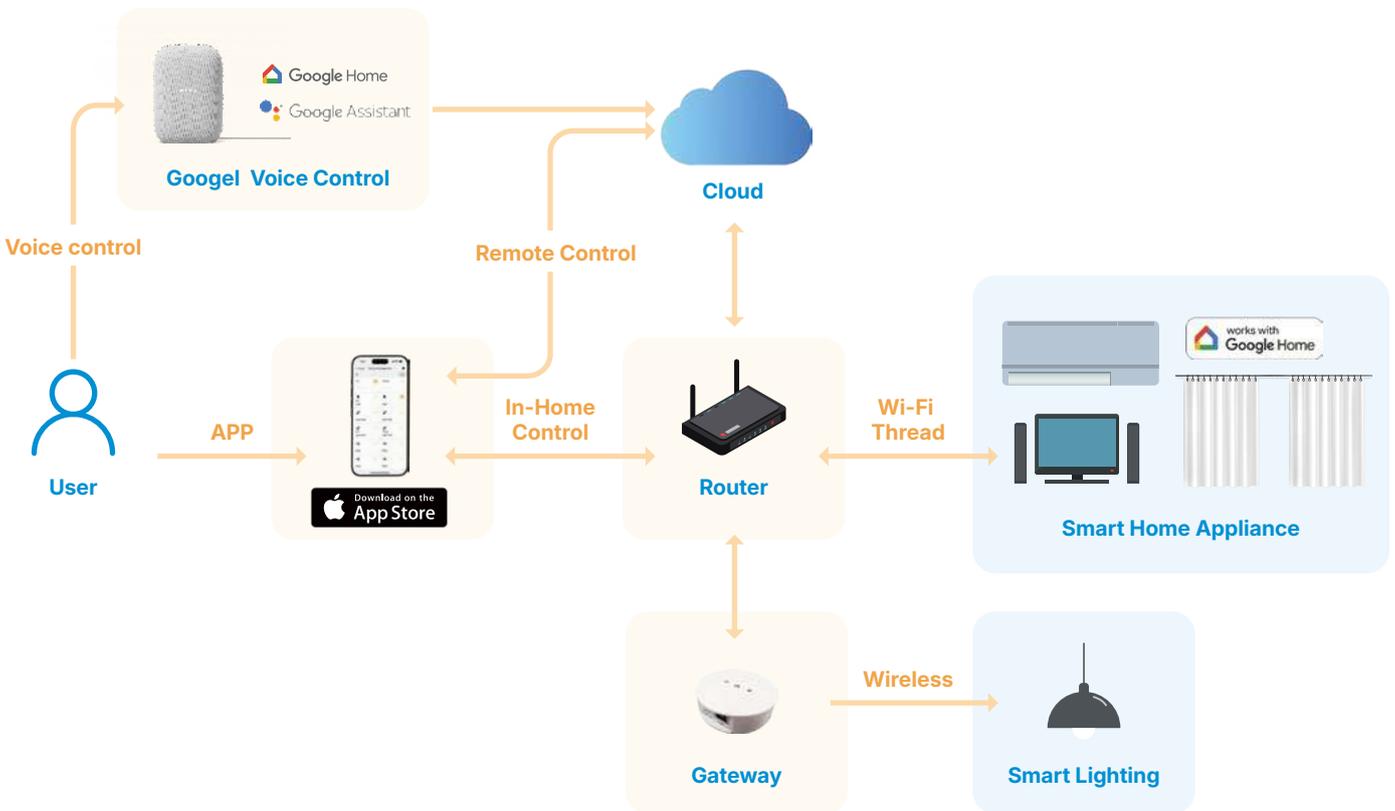**User Friendly Experience**

Extreme Scalability

Mobile-first management. No complex control coordinators or constant internet connection, our system delivers instant responses and real-time synchronization, offering an intuitive experience for both homeowners and professional facility managers.

From residential to massive commercial lighting. Our mesh architecture supports seamless expansion from a few devices to hundreds of nodes. It maintains peak performance in high-density environments, ensuring reliable connectivity where the Wi-Fi network is unstable.

System Structure

Powered by our proprietary wireless mesh protocol, the system ensures ultra-stable, low-latency connectivity even for large-scale device deployments. This robust core allows for real-time responsiveness that professionals demand. At the same time, through our specialized gateway, the system effortlessly integrates into the wider smart control ecosystem. Users can effortlessly sync with various smart appliances and enjoy hands-free management via Google Assistant Voice Control, achieving a truly integrated and intelligent control experience.

Googel Voice Control

Voice control

Cloud

Remote Control

User

APP

In-Home Control

Router

Wi-Fi Thread

Smart Home Appliance

Gateway

Wireless

Smart Lighting

Core Competencies

Wire-free and rapid installation
Utilizing wireless technology, Kadaa eliminates the need for complex signal wiring, significantly reducing installation labor and project overhead.

Intuitive user interface
A human-centric UI designed for efficiency, allowing installers and users to set up and manage large-scale networks with ease.

Mesh Networking
Decentralized self-linking mesh technology ensures rock-solid stability and seamless, zero-dead-zone coverage for high-density environments.

Flexible expansion and integration
Highly scalable architecture that grows from residential rooms to massive commercial projects, ensuring frictionless interoperability with diverse hardware.

Smart Scheduling
Advanced scheduling paired with sensor integration enables precise automated control and long-term energy-saving goals.

Offline operational mechanism
Mission-critical reliability through local edge intelligence, ensuring the system remains fully operational even without internet connectivity.
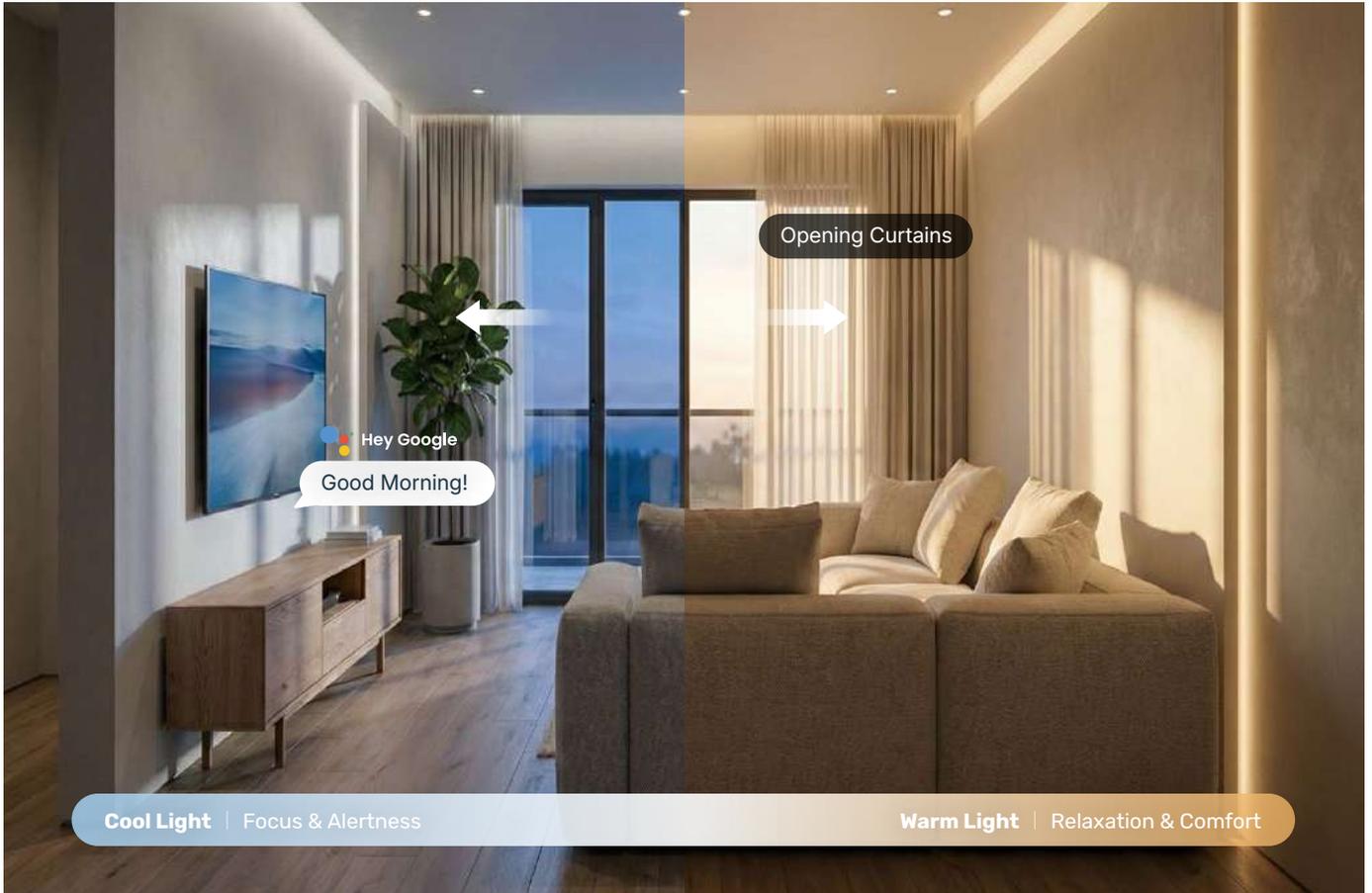
Multi-Scene Linkage
Effortlessly orchestrate personalized lighting atmospheres and responsive environments through smooth multi-device coordination.

OTA Firmware Updates
Seamless Over-The-Air updates provide remote lifecycle maintenance and feature enhancements, minimizing the need for costly on-site service visits.

Opening Curtains

Hey Google

Good Morning!

Cool Light | Focus & Alertness

Warm Light | Relaxation & Comfort

Control

Adjust your lights with a single tap

Centered on wireless smart control, Kadaa provides centralized management for smart lighting and equipment. Supporting rapid pairing, grouping, and scene control, it enables system integrators to achieve fast deployment, flexible expansion, and simplified post-setup adjustments.

Scene

Kadaa supports advanced scene management for static and dynamic lighting. Fully customizable for any space, designed for versatile applications.
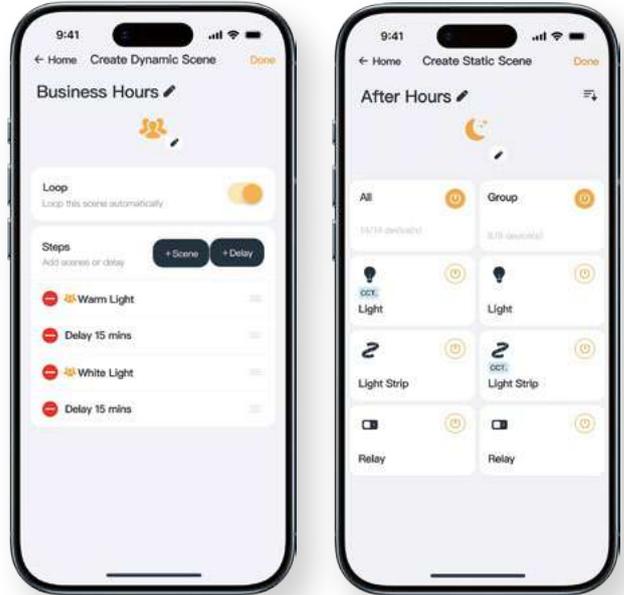

Business Hours

After Hours

Device Management

Kadaa offers intuitive device management with multi-select capabilities, allowing for rapid device relocation, batch group configuration, and precise control over brightness, color temperature, and power states.

Light   Strips   Controller   Relay   Panel

Curtain

Light 3000K / light 10%

Wake Up Tomorrow | AM 8:00 >>> PM 11:00 | Tonight's Sleep
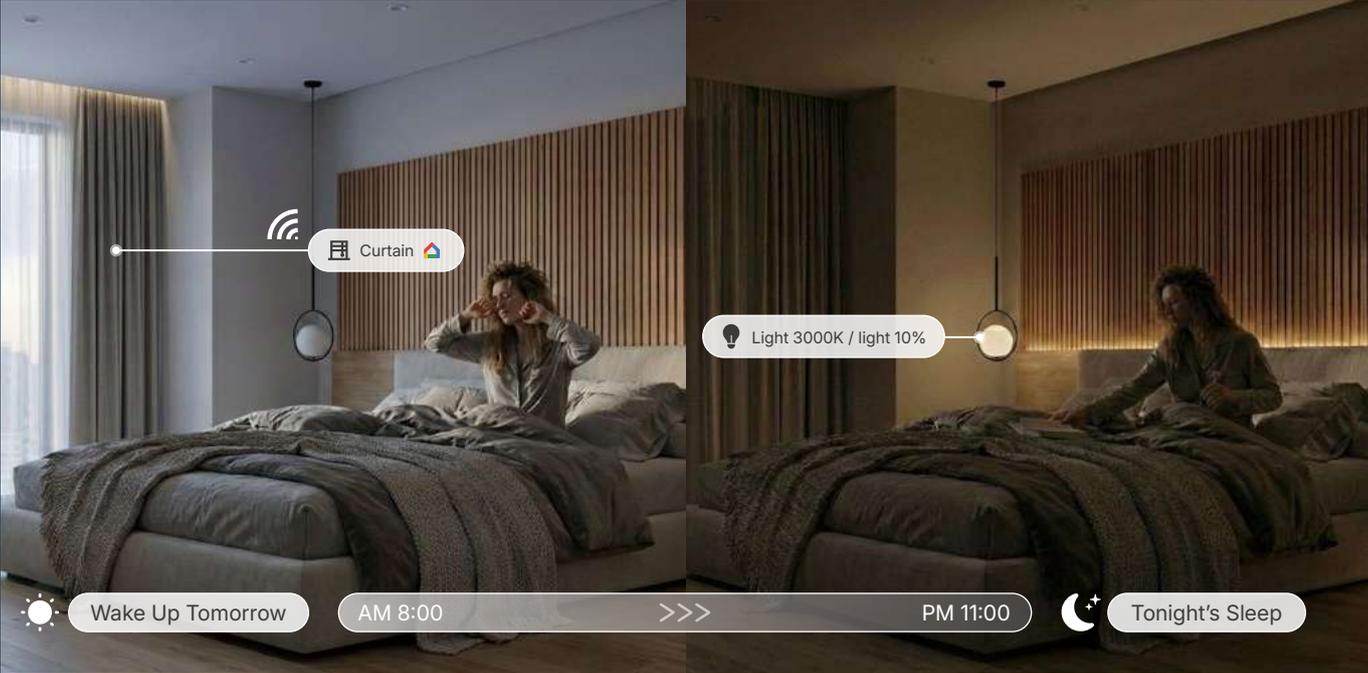
Circadian Rhythm

Through app-based scheduling and automation, the system enables seamless transitions between fixtures and scenes. By harmonizing human-centric lighting with energy efficiency, it significantly elevates the system's value to the fullest.

Application

Public spaces

After sunset, no motion detected   After sunset, motion detected

By leveraging automated brightness and color temperature adjustment, the system intelligently adapts to different times and ambient light conditions. This not only elevates the user experience but also optimizes energy efficiency, significantly bolstering the solution's market competitiveness.

Classroom & Office

- Relax mode: Low blue light, pure comfort.
- Concentration Mode: Boost blue light for better productivity.
- Motion sensing with automated shutdown for energy efficiency and carbon footprint reduction.

Medical institutions

Daytime Mode | Rest Mode

- Even in windowless wards, it simulates natural circadian rhythms to maintain patients' physiological cycles.
- Smart scene switching optimizes clinical workflows by providing precise illumination for examinations while avoiding full brightness to minimize patient's discomfort.

Commercial

Lights On Upon Detection | Lights Off After Departure
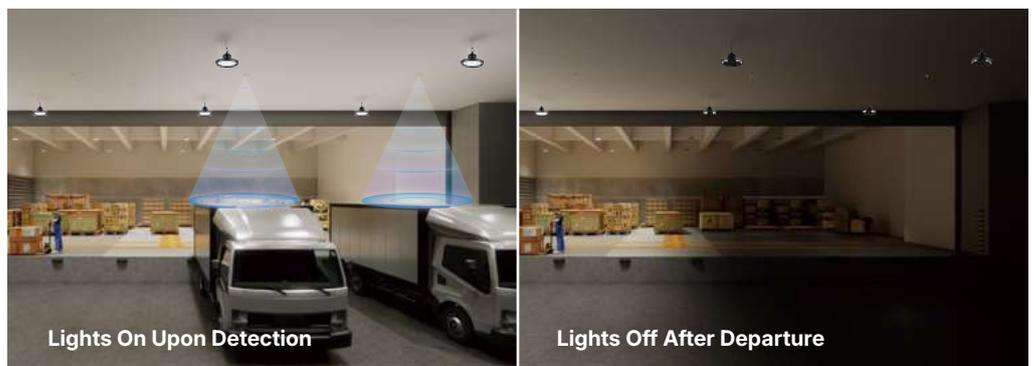
- Automatic sensing: automatically turns lights on when occupied and off when vacant.
- Cost-Efficient: Effectively reduces electricity expenditures.
- Sustainability: Carbon reduction aligned with ESG criteria.
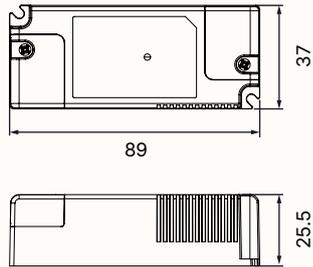
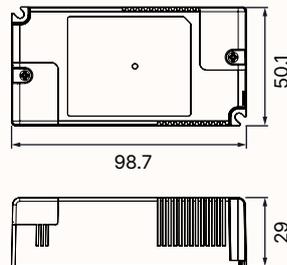# Products

Driver

Controller

Relay

Accessories

Driver

Unit : mm

Product	Wireless 12W NFC	Input Voltage	100-240Vac, 50/60Hz
	Constant Power Driver	Output Voltage	6-42Vdc
Model Name	13EDH12BN201	Output Current	280-570mA
Power Rated	12W		

Unit : mm

Product	Wireless 25W NFC	Input Voltage	100-277Vac, 50/60Hz
	Constant Power Driver	Output Voltage	6-54Vdc
Model Name	13EDH25BN201	Output Current	460-920mA
Power Rated	25W		
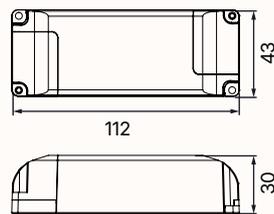
Controller

Unit : mm

Product	Wireless 0-10V	Input Voltage	100-240Vac, 50/60Hz
	Tunable White Controller	Input Current	0.1A
Model Name	13EHU10VB201	Relay Current	4.55A Max.
Dimming Interface	0-10Vdc	Power	1000W Max. @240Vac
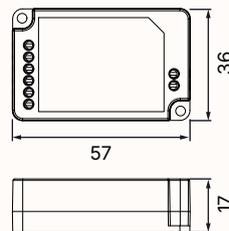
Unit : mm

Product	Wireless RGBCW CV Controller	Input Voltage	12/24Vdc
Model Name	13EHL06XB501	Output Voltage	12-24Vdc
Load current	2A per CH, Max = 6A	Load Power	72W @12Vdc, 144W@24Vdc

Relay

34

67

24
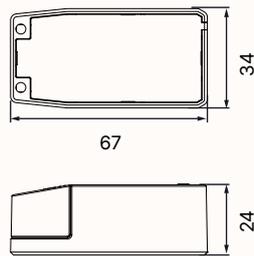
Unit : mm

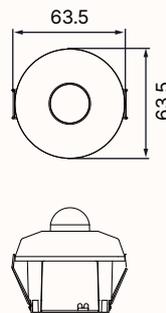| Product	Wireless Relay	Working Voltage	100-240Vac, 50/60Hz
Model Name	13ERU10BX001	Standby Power	≦0.5W
AC Switch Current	Triac switch 10A, LED 1.8A Max	Working Power	Relay ON 0.45W, relay OFF 0.15W

Accessories
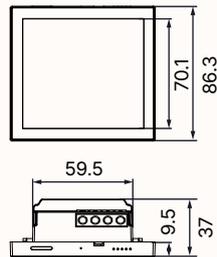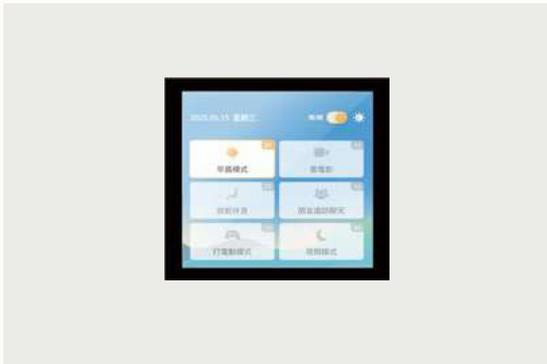
Unit : mm

Product	Smart Panel
Model Name	13EKUEKB0001
Color	Black

Input Voltage	100-240Vac, 50/60Hz
Active Power	<3W (Working)
Resolution	480 × 480 pixels

Unit : mm

Product	PIR+Daylight Sensor
Model Name	13EJUCDW0001
Shell Color	White
Control Output	0-10V

Working Voltage	100-240Vac, 50/60Hz
Active Power	2W
Illumination Detection	0~2500Lux
Installation method	Reccessed, Surface Mounted

Become Our Distribution Partner

Our solutions revolve around intuitive APP experiences and wireless control, creating an easy to use, simplified, and highly marketable lighting solution. We are now seeking distribution partners to benefit from flexible deployment and scalable growth. Connect with us today to lead the smart lighting market and elevate your service value!

Contact e-mail：smartcontrol@edison-opto.com.tw

艾笛森光電股份有限公司
Edison Opto Corporation

全球營運總部 Headquarters
235029 新北市中和區橋和路17號17樓
17F., No. 17, Qiaohe Rd., Zhonghe Dist., New Taipei City 235029, Taiwan
T +886 2 8227 6996

台北廠 Factory
235015 新北市中和區中正路800號5樓
5F., NO. 800, Zhongzheng Rd., Zhonghe Dist., New Taipei City,
235015, Taiwan

美國艾笛森光電公司
Edison Opto USA Corporation

1809 Excise Avenue, Suite 201, Ontario, California 91761 USA
T +1 909 284 9710

东莞艾笛森光电有限公司
Edison Opto (Dong Guan) Co., Ltd.

523460 東莞市橫瀝鎮西城一區西聚路9號 (B16棟)
B16, No.9, Xiju Rd., Xi-Cheng Industrial Park,
Heng-li, DongGuan City 523460, GuangDong Province, China
T +86 769 8101 1898

扬州艾笛森光电有限公司
Yangzhou Edison Opto Corporation

225009 揚州市華揚西路101號
NO. 101, Hua-Yang West Rd., Yangzhou City
225009, Jiangsu Province, China
T +86 514 8777 7101

✉ service-eng@edison-opto.com.tw
🌐 www.edison-opto.com

Linkedin   WeChat   YouTube   Website