

bluEmber Permanent LED Lighting System

A permanent, low-voltage, low-profile exterior lighting system installed primarily for security and safety. It consolidates security lighting, accent lighting, smart home integration, and HOA-scheduled holiday lighting into a single professionally installed system.

AT A GLANCE

BULB SPACING

11"

LIGHT DIRECTION

Downward

POWER

Low voltage

PROTRUSION FROM TRIM

1/4"

TYPICAL BRIGHTNESS

30–40 lm / bulb

RATINGS

UL Listed · IP68

WIRE VISIBILITY

0 wires visible

EVERYDAY LIGHT

Steady, no flashing

HOLIDAY COLORS

HOA dates only

APPEARANCE & INSTALLATION

Low-profile color-matched track system

Slim aluminum channels are painted to match the home's trim and installed behind the fascia, under the eaves. Bulbs sit flush with the track, extending only 1/4 inch, so the system is nearly invisible in the daytime and effectively invisible from the street when off.

Fully concealed wiring

All wiring is encased within the track, and attic jumps are made wherever possible to eliminate exterior wire runs. No visible cables, no exposed conduit, and no surface-mounted wires.

Low voltage and safe

Every component is UL Listed and IP68 rated for weather resistance. Fixtures connect with a plug-and-play system, so no wires are cut or spliced during installation.

Completely reversible

The lights and channels can be removed at any time without alteration or damage to the existing structure.

Professional installation — one time

Installed once by licensed, insured professionals. No seasonal ladder work after the initial install, eliminating the recurring risk of injury and property damage from hanging and removing temporary holiday lights.

LIGHT OUTPUT & NEIGHBOR IMPACT

Down-facing light design

All fixtures are angled downward to direct light toward the home and its immediate area. Seated inside the track, the bulbs produce minimal sidewall glare and no upward scatter, keeping light spill and glare away from neighbors and preserving the night sky.

Soft, warm brightness

The lights are typically set to approximately 30–40 lumens per bulb — a soft, warm glow rather than a bright, intrusive light. This gives excellent visibility on dark walkways and entrances while keeping light within the property footprint and maintaining the neighborhood's aesthetic harmony.

SECURITY & SAFETY

Crime deterrence — *RESEARCH-SUPPORTED*

National and international studies consistently show that exterior lighting — combined with one additional deterrent such as a visible security camera — significantly reduces property crime. The system targets light precisely at the darkest zones: corners, windows, entry points, and side gates.

Camera image quality

Consistent, low-intensity ambient lighting improves security camera footage at night. The warm white accent setting provides even illumination that enhances facial and vehicle recognition without overexposing the frame.

Walkway & stair illumination

Accent lighting illuminates walkways, driveways, and stairs, reducing slip-and-fall risk by exposing debris, wet surfaces, and elevation changes — especially relevant for guests, deliveries, and elderly residents.

HOME AUTOMATION & SMART INTEGRATION

Voice & smart home platforms

Fully compatible with Amazon Alexa, Google Home, and Control4. Scenes, schedules, and zones can be voice-controlled or built into existing routines alongside smart doorbells, thermostats, and other connected devices.

Motion sensor integration

When a connected motion sensor detects movement — via Alexa, Google Home, or a third-party sensor — designated lights turn on at a set brightness and color. Ideal for driveways, side yards, and rear entries, adding both convenience and deterrence.

Security camera sync

With a compatible camera system, lights turn on when the camera detects movement or a person. The camera flags the event and the lights respond, with no action required from the homeowner.

Home alarm system sync

When a connected home security alarm is triggered, all exterior lights turn on at full brightness — flooding the perimeter with light, deterring intruders, and making the home immediately visible to neighbors and first responders.

Smoke detector integration — *EMERGENCY ONLY*

This is the only situation in which the lights flash. Synced with a compatible smart smoke detector, the system can flash the exterior lights red once smoke or CO alarms have been active for a set duration (for example, 30 seconds of continuous alarm), so emergency services can identify the correct address immediately — especially among similar-looking homes or at night when address numbers are hard to read.

Supplements an existing alarm system; does not replace direct emergency notification. Compatibility depends on the homeowner's smoke detector and smart home ecosystem.

CONTROL & SCHEDULING

Per-zone control

The front, back, and sides of the home operate as independent zones. The front can stay on white security lighting while the back patio runs a color scene for a private outdoor gathering — simultaneously, from the same app.

Individual bulb control

Each light can be turned on or off independently, so homeowners can illuminate only the most critical areas — entry doors, dark corners, garage approaches — rather than the full perimeter.

Nightly timers & dimming

Multiple programmable nightly timers turn security lighting on at sunset and off at sunrise, or at custom set times. Brightness and timers can be adjusted to comply with any community lighting preferences, with no manual input once configured.

Annual holiday calendar

Holiday colors are scheduled in advance on a yearly calendar. They turn on and off automatically within the dates defined by HOA guidelines, and the system returns to steady white security lighting outside those dates — no resident action required to stay in compliance.

Custom white balance

Homeowners can set a custom color temperature for the white accent setting to match existing exterior fixtures or landscape lighting. The default is 3000K warm white.

HOA RELEVANCE

Compliant with CC&Rs

In everyday use the lights are stationary and non-flashing, providing steady white light for year-round security and safety rather than seasonal display. Holiday colors run only on HOA-approved dates.

Why this matters for the community

Unlike temporary holiday lighting that varies year to year in placement, quality, and removal timing, the system is installed once and remains uniform in appearance — no ladders, no dangling cords, and no lights left up past permitted dates. It enhances the property's safety and curb appeal without disrupting the visual character of the neighborhood.

Available on request

Photos of the installed product, full product specifications, additional visual mockups, and the proposed timer and dimmer settings.

Submitting this request

This document requests HOA approval for a permanent, low-voltage, non-obtrusive bluEmber exterior LED lighting system, intended to deter crime and improve visibility while maintaining the architectural character of the neighborhood. Please include these details with the original application packet for the Board's review. The homeowner is available to answer questions or arrange a demonstration. Thank you for your time and consideration.

The Light, the Track, and the Result



The bluEmber light: 6 diodes



Color-matched track under the eave



Daytime: track blends into trim



Warm-white roofline and gables



The whole home in warm white, with every light on



Soft downward light on walkways, entry, and patio

THE LIGHT

BRIGHTNESS

Up to 95 lumens per light (typically dimmed to 30–40)

DIODES

6 per light, RGBW (red, green, blue + white)

WHITE SETTINGS

3000K warm white default; 5000K cool alert scene

LENS

Frosted diffusion lens (frosted and full-frosted options)

RATED LIFESPAN

100,000 hours — twice the 50,000-hour standard

WEATHER RATING

IP68, sealed for full submersion

SAFETY

UL listed; self-extinguishing gel fill

LIGHT SPACING

11"

WARRANTY

Lifetime on LEDs — any failed diode is covered

POWER & WIRING

SYSTEM VOLTAGE

48V low voltage

POWER SUPPLY

48V, 450W–1,200W options

POWER INPUT

Standard 110V plug-in, no hardwiring

CABLE

16-gauge, double-jacketed

DATA

4-wire redundant; backup data wire on every run

CONNECTORS

Metal-threaded, waterproof couplers

CAPACITY

Up to 4,112 lights per system

CONTROLLER

Sealed IP68 enclosure, built-in cooling fan, indoor or outdoor mounting

CONTROLLER WARRANTY

5 years

TRACK & CONTROL

CHANNEL

Corner-mitred aluminum channel

COLORS

Six paint-matched channel colors

WIRING

Fully hidden wire runs

INSTALLATION

Same-day on most homes

APP

bluEMBER app via Wi-Fi + Bluetooth

SMART HOME

Relay switch module for smart home integration

ZONES

4 zones + individually addressable lights

PRESETS

Unlimited presets; full scheduling, dusk-to-dawn

SECURITY

Motion-sensor security zones