



FENCE LINE

FIRST LINE

OUR LINE™

# PERIMETER IR™

INFRARED SECURITY LIGHTING SOLUTIONS



CAST Perimeter IR™ Series lighting systems are constructed of the highest quality materials, delivering a rugged system that is moisture and dust resistant and can operate in austere environments of -40°C to 55°C. Incorporating a patented design, CAST LED Perimeter IR™ lights provide not only up to 85% in energy savings compared to other systems, but also deliver maintenance-free operation for an expected 10+ years.

The safe, low-voltage system is easily installed by anyone, and provides reliable Infrared (IR) illumination directed on and around the fence line where it's needed, significantly improving the effectiveness of night vision-capable CCTV systems. Optional models offer selectable intensity, and the ability to switch to visible light on demand. This system can be integrated with sophisticated monitoring systems, and activate upon predetermined triggering events.



- ✓ **Safe 24-Volt System**
- ✓ **Quality Cree® LED's**
- ✓ **60,500 Hr. Life (L70)**
- ✓ **Dust & Moisture Resistant**
- ✓ **Surge & Spike Protected**
- ✓ **Selectable Intensity Settings**

[www.cast-lighting.com](http://www.cast-lighting.com)

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# Specifications

## Sustainability & Replaceability

**Sustainable:** CAST fixtures are designed for a lifetime of use. Cast-metal components are sand-cast in CAST Lighting's own foundry that incorporates trimmings into new product. Nothing is discarded.

**Replaceable and Upgradable:** All parts of the CAST Infrared Perimeter Lights are replaceable and upgradable. Should the LED array or driver fail, then the body or base can be replaced or repaired in the field without special tools or training. New technology can be incorporated into the fixture in the future.

## Operational Features

**Ambient Temperature Range (Operating):** -40°C to +55°C

**Voltage Input:** Fixtures: 12 to 24 volts AC/DC; Transformers: Both 120V and 220/240V models available

**Thermal Management:** Passive thermal transfer through integrated components in physical contact with thermal pads and luminaire components.

**Component Selection:** No electrolytic capacitors in drive circuit; components rated for high temperature and long life.

**Surge & Spike Protection:** Voltage suppression for transient spikes and surges for voltages over 40V.

**Moisture Protection:** Encapsulated driver in thermally conductive epoxy, borosilicate dome to protect LEDs.

**Electromagnetic Interference Prevention:** Compliance with FCC Class B Conducted & Radiated.

## Mounting, Control, and Security Options

**Mounting:**

**CPL11XIR, CPL12XIR, CPL13XIR, CPL14XIR:** Fence Light attaches to top of fence posts up to 4" diameter.

**CPWP1IR:** Mounting tabs at top and bottom used for flush mounting on wall or other surface; mounting holes in back plate align with standard mounting tabs on single gang junction box.

**Transformer Control:** 24 Volt 300, 600, 1200 VA50/60 HZ single phase. Available in 120V CPT300 (3.0 Amp), CPT600 (6.0 Amp), CPT1200 (12.0 Amp) and 220/240 Volt E1CPT300 (1.5 Amp), E1CPT600 (3.0 Amp), E1CPT1200 (6.0 Amp).

**Dimensions:** 300 & 600VA 14-3/8" (36cm) L X 6-7/8" (17.4cm)W X 5-3/4" (14.6cm)D, 1200 VA 16-5/8" (42cm)L X 7-1/8" (18cm)W X 6-3/4" (17.5cm)D. Optional Manual On/Off Time Clock can be combined with optional photo cell (CTPC) or run off any existing control system.

**Weights:** 300:19lbs (8.6kg) 600:25lbs. (11kg) 1200:36lbs (16.32kg)

## Dimensions & Construction

<b>Infrared Perimeter Fence Light (Higher Power) (CPL11XIR, CPL12XIR, CPL13XIR, CPL14XIR, CPL14XIRD)</b>	35.3" tall x 7" wide. Eurometal hat, vase, and base; galvanized steel stem; stainless steel saddle bracket; stainless steel bolts; borosilicate glass LED enclosure.
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<b>LED Perimeter Wall Pack Light (CPWP1IR)</b>	4.5" wide x 3" tall x 3" deep (matches plate size of single-gang electrical junction box). Eurometal body; borosilicate glass LED enclosure; stainless steel hardware.
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Fixture Lead Wires (All): (2) 4" Tin-Coated Marine-Grade #20 AWG wires for connections to be made inside luminaire junction box. Parallel crimp connectors included.

## Photometric & Electrical Data

Name (Model #)	Light Source: Osram Oslon 850nm Infrared LED Array	Included:	Lumen Maintenance (L70) (Hrs)	Input Voltage (V)	Input Current (A)	Input Power (W) at 14 VAC	Input Power (W) at 24 VAC	Power Factor (pf)	Nanometer (nm)	Milliwatt (mW) at 14 VAC	Milliwatt (mW) at 24 VAC
Infrared Perimeter Wall Pack (CPWP1IR)	Osram Oslon 850nm Infrared LED Array	(3) LEDs	50,000	12-24 AC/DC	0.38	0.54	7.0	0.82	850	261	320
Infrared Perimeter Fence Light (1X Fixed Power) (CPL11XIR)		(3) LEDs			0.38	0.54	7.0	0.82	850	261	320
Infrared Perimeter Fence Light (2X Fixed Power) (CPL12XIR)		(6) LEDs			0.76	11.5	14.0	0.82	850	522	640
Infrared Perimeter Fence Light (3X Fixed Power) (CPL13XIR)		(9) LEDs			1.14	16.7	21.0	0.82	850	775	960
Infrared Perimeter Fence Light (4X Fixed Power) (CPL14XIR)		(12) LEDs			1.52	22.6	28.0	0.82	850	1044	1280
Infrared Perimeter Fence Light (4X Adjustable Power) (CPL14XIRD)		(12) LEDs			1.52	22.6	28.0	0.72	850	1044	1280
Optional 4450°Kelvin 77 CRI White Light second circuit feature (CPHL7)		CREE XLT Array			(3) LEDs	66,500		0.38	5.4	7.0	0.82

IESNA Cut-Off Classification: Full-Cut off (0% above Nadir); Dark-Sky Compliant (MLO) for reduction of light pollution and light trespass.

Contact CAST for photometrics, calculators and kit information.

## Listings & Certifications

All CAST LED Lights: Conform to: UL Std's. 1838 & 8750; CE; Certified to CAN/CSA Stds C22.2 No. 250.0 & C22.2 No. 250.13. Suitable for wet locations. FCC Class B Conducted and Radiated. RoHS. IP66 Rated.

