



**Flight Light Inc.**  
 2708 47th Ave.  
 Sacramento, California, U.S.A.  
 95822-3806



**PowerFlare®**  
**Helicopter**  
**Landing Zone Kit**

**PH (916) 394-2800**    **FX (916) 394-2809**  
**TF (800) 806-3548**    **EM info@flightlight.com**

**Compliance and Applications**

U.S. DOT (FMCSA) 49 CFR §§ 392.25 & 393.95(g)  
 MUTCD Type A (flashing) and Type C (solid on)  
 MIL-SPEC/MIL-STD 810 for shock, vibration, and water-resistance

Military, law enforcement, and emergency medical service (MedEvac) operations often require temporary or portable helicopter landing zones (LZs). The PowerFlare can be rapidly deployed to provide perimeter lighting to mark the LZ. The compact (4") beacons emit 360° of ultra-bright LED light, visible up to 10 miles away. Since the light output is angled and diffused, the pilot's night vision is less likely to be impaired when the aircraft makes its approach or hovers above the LZ. To further improve LZ safety, vehicles, personnel, and gurneys can also be marked with PowerFlare beacons.

The PowerFlare comes in two models: rechargeable and non-rechargeable. The rechargeable beacons are designed for daily use, while the non-rechargeable model has a user-replaceable lithium battery that has a 10 year storage life and won't leak in harsh temperatures. This allows for safe, long-term storage in a car trunk or first aid kit.

Our PowerFlare 6-Pack Rechargeable System comes with 6 of the beacons in a rugged recharging case. The smart recharger (no "memory effect") is plugged into a vehicle hot point (12-30VDC) or, for charging in the office or home, can be plugged into a 120VAC receptacle with optional adapter.

The PowerFlare is waterproof and so tough, it can withstand being run over by trucks at highway speeds. Unlike flashlights with alkaline batteries or light sticks, PowerFlare beacons can handle extreme temperatures and many HAZMAT situations (intrinsically safe). The LED bulbs are unbreakable and can operate thousands of hours. PowerFlare beacons have been proven with some of the most demanding users in the world: military, special forces, SWAT teams (tactical infrared available), rescue units, law enforcement and first responders.

**PowerFlare Applications**

- Helicopter Landing Zones (LZs): perimeter lighting.
- Airport safety: temporary runway/taxiway marking.
- Tactical operations (military): infrared (IR) model available.
- Search and rescue (SAR) operations: emergency response teams (ERT, CERT).
- Traffic control, work zone safety: beacons can be placed on ground or "wedged" inside of standard traffic cones.
- Use as lantern in case of power failure, earthquake, hurricane or other disaster.
- 360° safety light for cars, motorcycles and bicycles (optional mounting magnets available).
- SCUBA diving/boating: waterproof to 80'.
- Personnel safety: can be clipped on belts, backpacks.

**PowerFlare Features**

- LED colors: red, amber (yellow), white, green, blue, infrared.
- Flash up to 100 hours (rechargeable), 150 hours (non-rechargeable).
- 10 flash patterns, including 'S-O-S' (Morse) and solid-on (lantern).
- Waterproof, rugged, high grade military polymer shell.



*Place PowerFlares on the ground or inside traffic cones for better visibility.*

*Police car destroyed from accidental combustion of pyrotechnic road flare.*

**PowerFlare Advantages**

- Superior visibility: over 10 miles from the air.
- Rugged: waterproof, can withstand extreme impact.
- Rapid deployment: rechargeable beacons automatically activate when removed from the charger.
- Deployable in harsh environments: can handle extreme temperatures and many HAZMAT situations.
- Compact: about the size of a hockey puck, reducing vulnerability to rotor wash and wind.
- Versatile: can be used for traffic control, as a warning light, as a rescue beacon.
- Tactical: can be deployed for clandestine LZs, drop zones.
- Environmentally friendly: no pollution or fire danger.
- Made in the USA: Don't waste your money or sacrifice your safety with cheap imitations, buy quality American-made beacons.

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**PowerFlare Packages**



**Single PowerFlare Light:**  
With red or amber LEDs in yellow shell with standard retail packaging.  
Part number shown:  
PF210-R-Y



**2-Pack with Orange Custom Carry Bag:**  
2 PowerFlare lights with red or amber LEDs in a yellow shell, 2 spare batteries.  
Part number shown:  
SP2O-R-Y



**3-Pack with Yellow Custom Carry Bag:**  
3 PowerFlare lights with red or amber LEDs in a yellow shell, 3 spare batteries.  
Part number shown:  
SP3Y-R-Y



**4-Pack with Yellow Custom Carry Bag:**  
4 PowerFlare lights with red or amber LEDs in a yellow shell, 4 spare batteries.  
Part number shown:  
SP4Y-R-Y



**6-Pack with Yellow Custom Carry Bag:**  
6 PowerFlare lights with red or amber LEDs in a yellow shell, 6 spare batteries.  
Part number shown:  
SP6Y-R-Y



**8-Pack with Orange Custom Carry Bag:**  
8 PowerFlare lights with red or amber LEDs in a yellow shell, 8 spare batteries.  
Part number shown:  
SP8O-R-Y



**6-Pack Rechargeable System:**  
6 rechargeable PowerFlare lights with red or amber LEDs in a yellow shell, rugged recharging case.  
Part number shown:  
PF6P-210R-R-Y



**24-Pack with Yellow Custom Carry Case:**  
24 PowerFlare lights with red or amber LEDs in a yellow shell, Pelican case, 24 spare batteries.  
Part number shown:  
PFPACK24Y-R-Y



**60-Pack with Yellow Roller Carry Case:**  
60 PowerFlare lights with red or amber LEDs in a yellow shell, Pelican case, 60 spare batteries in separate carry bag.  
Part number shown:  
PFPACK60BK-R-Y



**Bucket of Beacons:**  
Comes in two sizes with white easy-twist on/off reseal lids. Buckets can be ordered with or without a bag of spare batteries.  
Large Bucket (5-gallon size): holds up to 36 PowerFlare lights.  
Small Bucket (3.5-gallon size): holds up to 24 PowerFlare lights.

Additional special order LED and outer shell colors are available for the PowerFlare. Please call for details.

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**Specifications**

<b>Size:</b>	4.25" (10.8cm) diameter x 1.25" (3.2cm) tall		
<b>Weight:</b>	Less than 7 oz. (200g) with battery		
<b>Battery:</b>	<b>Rechargeable:</b> 1 replaceable RCR-123 3.6V rechargeable Li-Ion battery <b>Non-Rechargeable:</b> 1 replaceable CR-123 Lithium battery		
<b>Shelf-life:</b>	<b>Rechargeable:</b> Holds useful charge for ~60 days out of charger (leave in charger when not in use) <b>Non-Rechargeable:</b> 10 years		
<b>Buoyancy:</b>	Positive (floats); can attach weight		
<b>External Power (rechargeable):</b>	Charger: 12-30VDC, 1A (max.); 0.7A trickle (A/C adapter avail.) @12VDC nominal		
<b>Op. &amp; Storage Temps:</b>	-40/-40° to 212/248° F -40/-40° to 100/120° C		
<b>Emission Source:</b>	360° LED array: solid-state; no filament		
<b>LED Light Colors (per unit):</b>	Red, amber, blue, green, white, infrared (IR). Custom colors available.		
<b>Light Output Wavelength (nm)</b> <b>Color &amp; Power (PEP):</b>	Red: 630 @ 128,000 mcd Amber: 595 @ 80,000 mcd Blue: 464 @ 38,400 mcd Green: 525 @ 80,000 mcd White: white spectrum @ 96,000 mcd Infrared: 890 @ 236 mW		
<b>Daylight &amp; Night Visibility Ranges:</b>	Night: visible 3,000 ft (914 m) on road or water, >10 miles (16 km) from air Day: visible 1,000 ft (305 m)		
<b>Housing Color &amp; Material:</b>	Black, yellow, orange, or olive drab (OD) polymer		
<b>Water Depth Rating:</b>	80' submersion		
<b>HAZMAT:</b>	Hermetically sealed; intrinsically safe		
<b>Chemical:</b>	Contains no hazardous chemicals. Withstands exposure to petroleum-based fuels. Avoid acetones and benzopyrenes.		
<b>Switch Type:</b>	Push button		
<b>Flash Patterns (user-selectable)</b> <b>Max. Run Times, Continuous:*</b>	<b>Flash Pattern:</b>	<b>Rechargeable:</b>	<b>Non-rechargeable:</b>
	Solid-On High: .....	2 hours .....	8 hours
	Rotate: .....	3 hours .....	16 hours
	Alternate: .....	2 hours .....	10 hours
	Quad-Blink: .....	10 hours .....	50 hours
	Double-Blink: .....	7 hours .....	35 hours
	Fast-Blink: .....	8 hours .....	20 hours
	Slow-Blink: .....	100 hours .....	150 hours
	Solid-On Low: .....	36 hours .....	100 hours
	"S-O-S": .....	4 hours .....	24 hours
	Flashlight: .....	3 hours .....	25 hours

\* Note: Times listed are for red, amber, and IR LEDs. Blue, green and white color LED versions will run from 50-80% of listed times depending on pattern used.

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## PowerFlare® Cone-Top Adapter

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When traffic control, construction, or accident scenes need elevated lighting for extra visibility, PowerFlare lights can be mounted on top of any standard traffic cone using our patent-pending Cone-Top Adapter.

The Cone-Top Adapter (CTA-001) can be used with magnetic PowerFlare lights, which attach to an internal piece of metal, allowing for quick and easy installation and removal. For PowerFlare units without magnets, elastic cords (included) makes securing the light a snap!



*Magnetic PowerFlare lights attach to an internal piece of metal in the CTA-001.*



*PowerFlare lights without magnets attach to the CTA-001 with included elastic cords.*



*Available kits include one CTA-001 per PowerFlare, and are available in packages of 2, 4, 8, 12, and 20. Standard kits come with Red, Amber, or Red/Blue LEDs in yellow shells.*



*CTA-001s are also available in packs of 5, 10, 20, and 40 in custom carry bags. Each CTA-001 is supplied with two elastic cords.*

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