

The Trusted Standard in Extreme Range Illumination.

“Designed for operators who demand absolute clarity—no matter the distance.”

ADVANCED OPTICAL POWER SYSTEM

OptiSpike S-50

Engineered for mission-critical visibility and uncompromising performance.



Key Features

- Up to 9,000,000 Candela
- Long Range: 6 KM (3.7 Miles)
- Hybrid Diode Pump Technology
- Adjustable Beam Width
- Up To 4.5-hour runtime
- Lightweight Design
- Rugged Aerospace Machined Aluminum Construction

Overview

The OptiSpike S-50 redefines the limits of tactical illumination with a beam capable of reaching up to 6 kilometers. Engineered with advanced Hybrid Diode Pump (HDP) technology, the S-50 delivers an exceptionally bright and focused white light that outperforms conventional LED and XENON systems while maintaining superior efficiency and durability.

Designed for both handheld and mounted applications, the S-50 features a fully adjustable beam width, multi-mode operation, and an ergonomic one-hand control interface. Its rugged aerospace-grade aluminum housing and IP67 water-resistant rating ensure reliability in the most demanding field conditions.

Powered by the K6 rechargeable battery bank or an external DC input, the S-50 provides up to 75 minutes at full brightness and an extended runtime of 4.5 hours at lower output levels. Compact, versatile, and mission-ready—the OptiSpike S-50 stands as the ultimate solution for professionals who demand uncompromising performance and reach.

Need details or support? Contact our experts anytime.

 **+1 260-438-6144**

Technical Specifications

Optical Specifications

Peak Beam Intensity:	Up to 9,000,000 CD (Candela)
Maximum Range:	6 km (ANSI/NEMA FL-1)
Beam Divergence:	0.75° – 30° (adjustable)
Light Source:	Hybrid Diode Pump (HDP) System
Output Modes:	100% Power, 30%–100% Dimming, Strobe, IR Mode

OptiSpike S-50

Power Requirements

Voltage Input:	12 – 28 V DC
Power Consumption:	52 W Max
Battery System:	K6 Rechargeable Battery Bank (detachable)
Runtime:	75 min @ 100% Power / Up to 4.5 hrs Low Power
Charging Options:	External DC Power Port (optional)

Physical Specifications

Length:	218 mm (8.6 in)
Bezel Diameter:	133 mm (5.2 in)
Housing Diameter:	84 mm (3.3 in)
Weight:	2.1 kg (4.6lbs) light only / 3 kg (6.6lbs) with Battery Bank
Material:	Aerospace-Grade Aluminum Alloy
Environmental Rating:	IP67 Water & Dust Resistant
Operating Temperature:	-33 °C to +55 °C

Kit Includes

1 x S-50 Searchlight Unit	1 x DC Power Port
1 x K6 Rechargeable Battery Bank	1 x Rail Mount with Handle
1 x Picatinny Rail Mount with Handle	1 x Operators' Manual



The Trusted Standard in Extreme Range Illumination.

“Designed for operators who demand absolute clarity—no matter the distance.”

ADVANCED OPTICAL POWER SYSTEM

OptiSpike S-90

Engineered for mission-critical visibility and uncompromising performance.



Key Features

- Up to 21,000,000 Candela
- Long Range: 10 KM (6.2 Miles)
- Hybrid Diode Pump Technology
- Adjustable Beam Width
- Remote Control Interface
- Lightweight Design
- Rugged Aerospace Machined Aluminum Construction


Overview

The OptiSpike S-90 Ultra-Long Range Tactical Searchlight delivers an unprecedented 10+ kilometer beam range with a staggering 21,000,000 candela peak intensity. Powered by advanced Hybrid Diode Pump (HDP) technology, it projects a focused laser-illuminated phosphor beam that outperforms conventional LED and XENON systems without overheating or burnout.

Engineered for professional operators, the S-90 features remote motorized focusing, RS232 control, and multi-mode operation (strobe, high, and dimming from 1–50%) all through a single-button interface. Built from aerospace-grade aluminum with a HAIII military-grade hard-anodized finish, the S-90 ensures rugged reliability in extreme environments with an IP67 waterproof rating.

Ideal for military, law enforcement, and high-security applications, the S-90 can be handheld, mounted, or remotely operated, making it the most powerful and adaptable tactical light in its class.

Need details or support? Contact our experts anytime.

 **+1 260-438-6144**

Technical Specifications

Optical Specifications

Peak Beam Intensity:	Up to 21,000,000 CD (Candela)
Maximum Range:	10 KM+ (6.2+ Miles)
Beam Divergence:	0.4° – 25° (Adjustable)
Light Source:	Hybrid Diode Pump (HDP) System
Output Modes:	100% Power, 1–50% Dimming, Strobe, Remote RS232 Control

OptiSpike S-90

Power Requirements

Voltage Input:	12 – 28 V DC
Power Consumption:	62 W Max
Battery System:	External DC Power Supply or Vehicle Mount
Runtime:	75 min @ 100% Power / Up to 4.5 hrs Low Power
Charging Options:	External DC Power Port (optional)

Physical Specifications

Length:	280 mm (11.0 in)
Bezel Diameter:	160 mm (6.3 in)
Housing Diameter:	150 mm (5.9 in)
Weight:	4.5 kg (9.9 lbs)
Material:	Aerospace-Grade Aluminum Alloy (HAIII Hard-Anodized Finish)
Environmental Rating:	IP67 Water & Dust Resistant
Operating Temperature:	-33 °C to +55 °C

Kit Includes

1 × S-90 Searchlight Unit	1 × Handle
1 × Remote Switch	1 × Computer Cable
1 × AC Power Adapter	1 × Safety Carrying Case
1 × DC Power Cable	

The Trusted Standard in Extreme Range Illumination.

“Designed for operators who demand absolute clarity—no matter the distance.”



ADVANCED OPTICAL POWER SYSTEM

SquareSpot-12

Engineered for mission-critical visibility and uncompromising performance.

Key Features

- Up to 100,000 Candela
- Long Range: 2 KM (1.25 Miles)
- High-Power LED Array
- Adjustable Beam Width
- 36-Hour Max Runtime
- Lightweight - Under 1 lb
- Rugged Aerospace Machined Aluminum Construction


Overview

The SquareSpot-12 is a compact, precision lighting platform engineered for professionals who demand performance, range, and control in a lightweight form. Delivering 100,000 candela of focused intensity, it produces a clean, defined beam reaching over 2 kilometers, offering exceptional clarity and beam consistency.

Its hybrid optical system features an adjustable 1°–30° beam that quickly shifts from a narrow long-range spotlight to a wide flood pattern. Multiple output modes, including a tactical strobe, provide versatility across field, industrial, and security applications.

Constructed from aerospace-grade aluminum and weighing under one pound, the SquareSpot-12 is built to perform in demanding environments. With up to 36 hours of runtime and IP-rated durability, it delivers professional-grade illumination with the perfect balance of precision, endurance, and reliability.

Need details or support? Contact our experts anytime.

 +1 260-438-6144

Technical Specifications

Optical Specifications

Peak Beam Intensity:	Up to 100,000 CD (Candela)
Maximum Range:	2 KM+ (1.25 Miles)
Beam Divergence:	1° – 30° (Adjustable)
Light Source:	High-Output White LED Array
Output Modes:	100% Power, 50% Dimming, Strobe

SquareSpot-12

Power Requirements

Battery System:	(3) 18650 Cells or (6) CR123A
Charger:	A2 AC Charger
Runtime:	Max 36 Hours
Charging Time:	75 Minutes

Physical Specifications

Length:	170.3–185.8 mm (6.7–7.31 in)
Bezel Diameter:	54 mm (2.12 in)
Body Diameter:	42 mm (1.65 in)
Weight:	0.43 kg (0.94 lb)
Material:	Aerospace-Grade Aluminum Alloy (HAIII Hard-Anodized Finish)
Environmental Rating:	IP67 Water & Dust Resistant
Operating Temperature:	-10°C to 45°C

Kit Includes

1 × SquareSpot-12 Light Unit	1 × Body Holster
1 × Battery Charger	1 × Safety Carrying Case



The Trusted Standard in Extreme Range Illumination.

“Designed for operators who demand absolute clarity—no matter the distance.”

ADVANCED OPTICAL POWER SYSTEM

OptiSpike PTL2

Engineered for mission-critical visibility and uncompromising performance.



Key Features

- Up to 330,000 Candela
- Long Range: 1.2 KM (0.75 miles)
- High-Power LED Array
- Adjustable Beam Width
- 130-Hour Max Runtime
- Lightweight - Under 1 lb
- Rugged Aerospace Machined Aluminum Construction


Overview

The OptiSpike PTL2 is a long-range tactical illumination system engineered for professionals who demand exceptional range, durability, and precision. Delivering 330,000 candela of peak intensity, it projects a clean, focused beam reaching up to 1.2 kilometers, providing superior visibility and beam uniformity in all conditions.

Its adjustable beam divergence from 1.5° to 28° allows seamless transitions between narrow long-distance targeting and wide-area coverage. With multiple operating modes—including full power, dimming, and tactical strobe—the PTL2R adapts effortlessly to mission or operational requirements.

Constructed from aerospace-grade aluminum with a HAIII military anodized finish, the PTL2R is waterproof to 10 meters (IP68) and impact-resistant to 1.5 meters, ensuring uncompromising reliability. Offering up to 130 hours of runtime, it delivers high-performance illumination built for tactical, field, and industrial use.

Need details or support? Contact our experts anytime.

 +1 260-438-6144

Technical Specifications

Optical Specifications

Peak Beam Intensity:	Up to 330,000 CD (Candela)
Maximum Range:	2 KM+ (1.25 Miles)
Beam Divergence:	1.5° – 28° (Adjustable)
Light Source:	High-Output White LED Array
Output Modes:	100% Power, 1–100% Dimming, Strobe

OptiSpike PTL2

Power Requirements

Battery System:	External Power Supply via 4-Pin Connector
Charger:	2 Hours at Full Power
Runtime:	Up to 130 Hours (Low Power Mode)
Charging Time:	External DC Power Input

Physical Specifications

Length:	157 mm (6.18 in)
Bezel Diameter:	54 mm (2.12 in)
Body Diameter:	45 mm (1.77 in)
Weight:	0.36 kg (0.79 lbs)
Material:	Aerospace-Grade Aluminum Alloy (HAIII Hard-Anodized Finish)
Environmental Rating:	IP68 Waterproof (10 m Depth) & 1.5 m Drop Resistant
Operating Temperature:	-10°C to 45°C

Kit Includes

- 1 × PTL2R Light Unit
- 1 × Power Supply Cable
- 1 × Remote Switch