

MICROFIRE PRODUCT CATALOG - 2025





MicroFire is a leading technology company with about 20 years of experience in designing and manufacturing top-of-the-line tactical lighting products including flashlights, searchlights, and laser dazzlers. Driven by innovation, we at MicroFire are constantly looking for new ways to translate cutting-edge technology into value, quality, and ultimately superior performance. All of our products are made per U.S. MIL-SPEC and we pride ourselves in our mission to provide combat and law enforcement personnel, including some of the most elite troops around the world, with the best lighting solutions possible.

2025 marks a another beginning for us. With the successful introduction of several ground-breaking products that have surpassed all major competitors last year, MicroFire is now poised to transform the landscape of the entire tactical lighting industry.

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Hand-held Tactical Flashlights

Our relentless pursuit for excellence and perfection pushes the boundaries of what a flashlight can do. Although no single flashlight is suitable for all circumstances, when you look for a lighting product to fulfill your tactical need, look no further than MicroFire: you are guaranteed a top-quality, ultra-reliable and most durable product that can help you complete the mission successfully and return safely.

At MicroFire there is always a lighting product that can meet or even exceed your expectations. All products are designed, manufactured and tested for the most extreme environment possible. We believe that MicroFire hand-held flashlights are the first choice for all military and law enforcement personnel as well as hardcore outdoor enthusiasts.





Excalibur H20

Ultra-Bright Tactical Flashlight



2,200 m

6.5 hr

IP68

Ideal for:

Army

Navy

Police

Combining state-of-the-art optical engineering and a customized LED light source, Excalibur H20 features:

-  Multi-mode operation: Strobe, high, and 1%-50% dimming, selectable with the press (and hold) of a single button
-  Continuous twist focusing that makes it easy to adjust from spot to flood
-  A direct charging port and a power indicator that shows the battery status
-  A watertight, shock-resistant carrying case with open-cell foam padding for extra protection
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions and is waterproof up to 5 m of submersion.

Ideal for military and law enforcement applications, this flashlight is also a must-have for civilian security professionals and hardcore outdoor enthusiasts.



New Product



Beam spot 1,200 meters away

Peak beam intensity	1,210,000 cd ★ World Record ★
Range	2,200 m (as per ANSI/PLATO FL1-2016)
Modes	100% power; 1%-50% dimming; Strobe
Runtime	6.5 hr (100% power); 226 hr (1% power)
Power supply	Built-in Panasonic rechargeable Li-ion battery pack (75 Wh)
Charge time	3 hr (by 3A MicroFire AC charger)
Beam divergence	1.4°- 30°
LED power consumption	10 W
Bezel diameter	87 mm
Housing diameter	46 mm
Length	257 mm
Weight	960 g
Working temperature	-20 °C - +70 °C
Water resistance	IP68, up to 5 m of submersion (as per U.S. MIL-STD-810G)
Drop	1.5 m (as per U.S. MIL-STD-810G)
Standard accessories	3A direct wall charger; water-proof and shock-proof carrying case; vehicle charging adaptor
Optional accessories	Red, amber, green, blue filters



Explorer H11

Long-range Tactical Flashlight



1,100 m

2 hr

302,500 cd

Ideal for:

Army

Navy

Police

Delivering a far-reaching beam of up to 1,100 meters, H11 packs state-of-the-art optical engineering and a customized LED light source into a single unit. Some of its amazing features include:

-  Multi-mode operation: Strobe, high, and 1%-50% dimming, selectable with the press (and hold) of a single button
-  Continuous twist focusing that makes it easy to adjust from spot to flood
-  A push button tailcap that also features a remote switch/direct charging port
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions and is waterproof up to 10 m of submersion.

H11 can either be mounted on weapons such as rifles and machine guns, or it can be hand carried by military and law enforcement professionals.



New Product



Peak beam intensity	302,500 cd
Range	1,100 m (as per ANSI/PLATO FL1-2016)
Modes	100% power; 1%-50% dimming; Strobe
Runtime	2 hr (100% power); 120 hr (1% power)
Power supply	2*18650 (3400 mAh) rechargeable Li-ion batteries
Charge time	3.5 hr (by MicroFire A2 AC charger)
Beam divergence	3° - 28°
LED power consumption	10 W
Bezel diameter	54 mm
Housing diameter	42 mm
Length	170 mm
Weight	430 g (including batteries)
Working temperature	- 40 °C - +60 °C
Water resistance	IP68, up to 10 m of submersion (as per U.S. MIL-STD-810G)
Drop	1.5 m (as per U.S. MIL-STD-810G)
Optional accessories	3,400 mAh Panasonic 18650 rechargeable Li-ion battery (2x); 1 A direct charger; A2 cradle/vehicle dual charger; red, amber, green, blue filters; holster



Falcon H8

Mid-range Tactical Flashlight



800 m

2 hr

IP68

Ideal for:

Army

Navy

Police

Falcon H8 is a compact hand-held LED tactical flashlight, which packs state-of-the-art optical engineering and a customized LED light source into a single unit.

-  With a power consumption of only 10 w, it puts out a beam as far as 800 m which is a world record in terms of brightness and beam throw for its class
-  Multi-mode operation: Strobe, high, and 1%-50% dimming, selectable with the press (and hold) of a single button
-  Continuous twist focusing that makes it easy to adjust from spot to flood
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions and is waterproof up to 5 m of submersion





G8 serves in Chinese Armed Police

Peak beam intensity	160,000 cd ★ World Record ★
Range	800 m (as per ANSI/PLATO FL1-2016)
Modes	100% power; 1%- 50% dimming; Strobe
Runtime	2 hr (100% power); 56 hr (1% power)
Power supply	1*18650 (3,400mAh) rechargeable Li-ion batteries or 2*CR123A
Charge time	3.5 hr (by MicroFire A1 AC charger)
Beam divergence	2.4° - 24°
LED power consumption	10 W
Bezel diameter	40 mm
Housing diameter	25.4 mm
Length	149 mm
Weight	220 g (including batteries)
Working temperature	-40 °C - +60 °C
Water resistance	IP68, up to 5 m of submersion (as per U.S. MIL-STD-810G)
Drop	1.5 m (as per U.S. MIL-STD-810G)



Challenger H5

Hand-held Tactical Floodlight



450 m

3,000 lm

IP68

Ideal for:

Army

Navy

Police

Designed to work in flood mode only, Challenger H5 puts out a whopping 3,000 lumens via 7 high efficient LEDs. Some of its unique features include:

-  Multi-mode operation: High, medium, low, strobe, and standby, selectable via a mode selection ring
-  Efficient heat dissipation via a built-in water-proof fan to keep the housing cool
-  An optional K6 rechargeable battery pack to double the run time
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions and is waterproof up to 10 m of submersion.

Potential application scenarios: military and law enforcement operations, search and rescue missions, photography, snorkeling, hiking, hunting, camping, and other outdoor activities.



Beam shot picture



Peak beam intensity	50,000 cd
Range	450 m (as per ANSI/PLATO FL1-2016)
Modes	Turbo; 100% power; 50% dimming; 5% dimming; Strobe; Standby
Runtime	1.5 hr (K3S-X: 100% power); 35 hr (K3S-X: 5% dimming) 3 hr (K6S: 100% power); 70 hr (K6S: 5% dimming)
Power supply	K3S-X Panasonic rechargeable battery pack (3*3400 mAh) or K6S Panasonic rechargeable battery pack (6*3400 mAh)
Charge time	3.5 hr (by MicroFire AC charger)
Beam divergence	40°
LED power consumption	35 W
Bezel diameter	76 mm
Housing diameter	47 mm
Length	178 mm
Weight	670 g (including batteries)
Working temperature	-20 °C - +70 °C
Water resistance	IP68, up to 10 m of submersion (as per MIL-STD-810G)
Drop	1.5 m (as per MIL-STD-810G)
Standard accessories	K3S-X: 1.5 A AC charger K6S: 3 A AC charger
Optional accessories	K3S-X Panasonic rechargeable battery pack (3*3400 mAh); K6S Panasonic rechargeable battery pack (6*3400 mAh); vehicle charging adaptor; red, amber, green, blue filters; holster



HGLD5

Hand-Held Green Laser Dazzler



6,400 m

500 mW

IP68

Ideal for:

Army

Navy

Police

As a non-lethal weapon designed to incapacitate targeted personnel, HGLD5 has many advantages over its competitors. For example, the choice of semiconductor laser as its light source allows for not only light weight and compact size, but also a maximum output power of 500 mW. Other features of this game-changing product include:

-  Multi-mode operation: Strobe, high, and 30%-100% dimming, selectable with the press (and hold) of a single button
-  Continuous twist focusing that makes it easy to adjust from spot to flood
-  Keep reliable performance under extreme condition from -25°C~ 50°C
-  Stable configuration ensure to bear the recoil of weapons
-  Featured by innovated light source with a long life time more than 10,000 hours
-  IP68, waterproof under 5 m of submersion.



New product



Max Output	500 mW (green laser)
Effective Distance	960 m (day); 6,400 m (night)
Modes	100% power; 30%-100% dimming; Strobe
Runtime	2.5 hr (100% power); 5 hr (strobe)
Beam divergence	0.1° (focused); 1° x 5° (diffused)
Power supply	1*18650 (3,400mAh) rechargeable Li-ion battery or 2*CR123A
Charging time	3.5 hr (by MicroFire A1 AC charger)
Bezel diameter	40 mm
Housing diameter	25.4 mm
Length	197 mm
Weight	249 g (including batteries)
Working temperature	-20 °C - +50 °C
Water resistance	IP68, up to 5 m of submersion (as per U.S. MIL-STD-810G)
Drop	1.5 m (as per U.S. MIL-STD-810G)
Standard accessories	H8 push button switch tailcap
Optional accessories	3,400mAh Panasonic 18650 rechargeable Li-ion battery; A1 cradle/vehicle dual charger; 2A direct wall charger; charger cable; red, amber, green, blue filters; holster

Specification



Predator GI4

Infrared Light



200 m

1 W

136 g

Ideal for:

Army

Navy

Police

Equipped with a high-power IR LED and a professional zoom lens, GI4 puts out a powerful, invisible infrared beam that can only be detected by night vision devices. Some of its unique features include:

-  Multi-mode operation: 100% power, 75% power, 50% power, 30% power, battery check, and power off, selectable with a twist of the tailcap
-  A soundless revolving tailcap switch that is well-suited to stealth operations
-  Continuous twist focusing that makes it easy to adjust from spot to flood
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions and is waterproof up to 5 m of submersion.



New product

Beam shot pictures



Spot light



Flood light

Max output power	1 W (IR)
Range	200 m (tested with a Gen III night vision scope)
Modes	100% power; 75% power; 50% power; 10% power; Battery check; Power off
Runtime	2 hr (100% power); 3 hr (75% power); 5 hr (50% power); 20 hr (10% power);
Battery	1*CR123A (3V)
Wavelength	850 nm
Beam divergence	9° - 37°
Bezel diameter	32 mm
Housing diameter	25.4mm
Length	118.3 mm
Weight	136 g (including battery)
Working temperature	-32 °C - +55 °C
Water resistance	IP68, up to 5 m of submersion (as per MIL-STD-810G)
Drop	1.5 m (as per MIL-STD-810G)
Optional accessories	Picatinny gun mount; mount for night vision scope/goggles

Weapon Lights

The introduction and application of weapon lights greatly improved the efficiency of tactical operations, especially in a dark environment. MicroFire weapon light series, designed for firearms of all calibers, can satisfy the lighting requirements and professional needs of combat and law enforcement personnel. Whether used in close combat or ultra-long-range shooting, MicroFire products always help guarantee a successful mission and a safe return.



Falcon G8

Mid-range Gun Light



800 m

2 hr

IP68

Ideal for:

Army

Navy

Police

Designed for assault rifles, light sniper rifles and sporting rifles, Falcon G8 offers tactical illumination, aiming, dazzling, and many other unique features - all packed into a single slim and compact unit:

-  Multi-mode operation: Strobe, high, and 1%-50% dimming, selectable with the press (and hold) of a single button
-  Continuous twist focusing that makes it easy to adjust from spot to flood
-  A dual-purpose port that can be connected to either a direct charger or a remote switch
-  A Picatinny gun mount
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions and is waterproof up to 5 m of submersion.



New product



G8 serves in Chinese
Armed Police

Peak beam intensity	160,000 cd ★World Record★
Range	800 m (as per ANSI/PLATO FL1-2016)
Modes	100% power; 1%- 50% dimming; Strobe
Runtime	2 hr (100% power); 56 hr (1% power)
Power supply	1*18650 (3,400mAh) rechargeable Li-ion batteries or 2*CR123A
Charge time	3.5 hr (by MicroFire A1 AC charger)
Beam divergence	2.4° - 24°
LED power consumption	10 W
Bezel diameter	40 mm
Housing diameter	25.4 mm
Length	149 mm
Weight	220 g (including batteries)
Working temperature	-40 °C - +50 °C
Water resistance	IP68, up to 5 m of submersion (as per U.S. MIL-STD-810G)
Drop	1.5 m (as per U.S. MIL-STD-810G)
Standard accessories	RS7 remote switch tailcap
Optional accessories	3,400mAh MicroFire/Panasonic 18650 rechargeable Li-ion battery; WM7 Picatinny gun mount; A1 cradle/vehicle dual charger; 2A direct wall charger; charger cable; holster; red, amber, green, blue filters



GGLD5

Gun-Mounted Green Laser Dazzler



6,400 m

500 mW

IP68

Ideal for:

Army

Navy

Police

As a non-lethal weapon designed to incapacitate targeted personnel, GGLD5 has many advantages over its competitors. For example, the choice of semiconductor laser as its light source allows for not only light weight and compact size, but also a maximum output power of 500 mW. Other features of this game-changing product include:

-  Multi-mode operation: Strobe, high, and 30%-100% dimming, selectable with the press (and hold) of a single button
-  Continuous twist focusing that makes it easy to adjust from spot to flood
-  Keep reliable performance under extreme condition from -25°C~ 50°C
-  Stable configuration ensure to bear the recoil of weapons
-  Featured by innovated light source with a long life time more than 10,000 hours
-  IP68, waterproof under 5 m of submersion.



New product



Max Output	500 mW (green laser)
Effective Distance	960 m (day); 6,400 m (night)
Modes	100% power; 30%-100% dimming; Strobe
Runtime	2.5 hr (100% power); 5 hr (strobe)
Beam divergence	0.1° (focused); 1° x 5° (diffused)
Power supply	1*18650 (3,400mAh) rechargeable Li-ion battery or 2*CR123A
Charging time	3.5 hr (by MicroFire A1 AC charger)
Bezel diameter	40 mm
Housing diameter	25.4 mm
Length	197 mm
Weight	325 g (including batteries)
Working temperature	-20 °C - +50 °C
Water resistance	IP68, up to 5 m of submersion (as per U.S. MIL-STD-810G)
Drop	1.5 m (as per U.S. MIL-STD-810G)
Standard accessories	RS7 remote switch tailcap, WM7 Picatinny gun mount
Optional accessories	3,400mAh MicroFire/Panasonic 18650 rechargeable Li-ion battery; A1 cradle/vehicle dual charger; 2A direct wall charger; charger cable; red, amber, green, blue filters; holster

Searchlights

"You are the best!" We are proud of the customers' recognition for searchlight products.

With the cutting-edge optical design and superior system integration capabilities, and in cooperation with advanced optical component manufacturers global, MicroFire has developed and manufactured the best-performing tactical searchlights.

The searchlight series includes ultra-long-range variable-focus searchlights, long-distance field lights, and long-distance visual interference equipment, all of which are diligently serving combat and law enforcement personnel around the world.





OptiSpike S50

Long Range Tactical Searchlight

5,500 m

30 W

IR & Green
laser

Ideal for:

Army

Navy

Police

With a range of 5.5 km and a remarkably slim design, OptiSpike S50 is the ideal hand-held or vehicle mounted searchlight for long range searching, rescue, patrol, surveillance. It is also a reliable directional light for heavy machine guns, grenade machine guns, anti-equipment rifles, long range camera, long range acoustic device.

Combining state-of-the-art optical engineering and a customized solid-state light source, S50 features:

-  Multi-mode operation: Strobe, 100% power, 50% power, 10% power, and auxiliary light on
-  Remote motorized focusing and modes control via either the hand controller or the RS232/RS422 serial port
-  An optional auxiliary light module with customizable wavelength and divergence
-  An detachable K6B battery bank or external 12V-28V DC power port as the power supply
-  A handle (with a built-in mode controller) for hand-held operation and an integrated Picatinny rail cover for gun mounting
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under harsh conditions and is water resistant to rain and water spray



Meeting all military and industry specifications, S50 is ideal for military, law enforcement, police, border security, maritime security and other professional applications.

**New
Product**



Peak beam intensity	7,562,500 cd (as per ANSI/PLATO FL1-2016) ★World Record★
Range	5,500 m (as per ANSI/PLATO FL1-2016)
Light source	30 W solid-state light source (main white beam) or IR/Green Laser (auxiliary, 850/940/525 nm or customized wavelength)
Modes	100% power; 50% power; 10% power; Strobe; Infrared and/or dazzling laser (optional)
Light source power	30 W
Power supply	12 - 28 V DC or K6B portable battery bank
Beam divergence	1° - 40° (white beam)
Width	106 mm
Height	122 mm
Length	277 mm
Weight (with battery)	3 kg
Working temperature	-35 °C - +55 °C (as per U. S. MIL-STD-810G)
Water resistance	IP67 (as per U. S. MIL-STD-810G)
Drop	76 cm (as per U. S. MIL-STD-810G)
Standard accessories	Power supply cable; controller; K6B battery bank; K6BA cord; K6BR-A AC charger; MFS Shoulder strap; waterproof and shockproof carrying case
Optional accessories	AL Laser Auxiliary module, S50A-12 vehicle adapter, K6BR-B DC charger, S50A- 220 AC adapter, F50-A Amber filter, SRS-remote controller, S50A-320 cable, Picatinny rails & mount



Light Wall SP750

Ultra-bright Scene Light



2,500 m

50,000 lm

IR Optional

Combining the power of multiple LEDs this light-weight, ultra-bright floodlight puts out a whopping 50,000 lm with additional IR light available as an option. Other features of the SP750 scene light include:

-  Multi-mode operation: Strobe, high, and 10%-100% dimming, selectable with the press (and hold) of a single button
-  Computerized mode control via an RS-232 interface
-  A handle for hand-held operation, a Picatinny rail cover for weapon mounting, and a folding mast for free standing lighting solutions
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions.



Ideal for:

Army

Navy

Police

The ultra-bright scene light series is ideal for mining, firefighting, military operations, law enforcement, riot control, border security, search and rescue etc. It proves to be a great asset for any field operations and professional outdoor activities.

New Product



The Anti-terrorism Operation Vehicles of the Chinese Armed Police features SP750 as a standard equipment

Brightness	50,000 lm (as per ANSI/PLATO FL1-2016)
Range	2,500 m (as per ANSI/PLATO FL1-2016)
Modes	100% power; 10% -100% dimming; Strobe; IR (optional)
Light source power	750 W
Light Source	White + IR LEDs or white LEDs only
Power Supply	24 V DC power or portable battery bank (optional)
Beam divergence	12 ° (default)
Bezel square length	148 mm
Housing diameter	113 mm
Length	255 mm
Weight	2.8 kg
Working temperature	-40 °C - +50 °C (as per U. S. MIL-STD-810G)
Water resistance	IPX6 (as per U. S. MIL-STD-810G)
Drop	1 m (as per U. S. MIL-STD-810G)
Standard accessories	Power supply cable; signal cable; waterproof and shockproof carrying case
Optional accessories	Handle; mounting pad; Picatinny gun mount; K34 rechargeable battery bank; folding mast



SP250

Ultra-bright Scene Light



2,700 m

16,000 lm

IR Optional

Ideal for:

Army

Navy

Police

SP250 is a lower-power version of the SP750. Similar to SP750 it combines multiple LEDs to produce an ultra-bright floodlight with IR as an option. The beam angle of SP250 is however, much tighter than that of SP750 to allow for a longer range even at reduced power. Other features of the SP250 scene light include:

- ▶ Multi-mode operation: Strobe, high, and 10%-100% dimming, selectable with the press (and hold) of a single button
- ▶ Computerized mode control via an RS-232 interface
- ▶ A handle for hand-held operation, a Picatinny rail cover for weapon mounting, and a folding mast for free standing lighting solutions
- ▶ A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions.

The ultra-bright scene light series is ideal for mining, firefighting, military operations, law enforcement, riot control, border security, search and rescue etc. It proves to be a great asset for any field operations and professional outdoor activities.



New Product



Brightness	16,000 lm (as per ANSI/PLATO FL1-2016)
Range	2,700 m (as per ANSI/PLATO FL1-2016)
Modes	100% power; 10% -100% dimming; Strobe; IR (optional)
Beam divergence	6° (default) or user defined
Light source power	250 W
Power Supply	24 V or K34 portable battery bank
Bezel square length	148 mm
Housing diameter	113 mm
Length	255 mm
Weight	2.8 kg
Working temperature	-40 °C - +50 °C (as per U. S. MIL-STD-810G)
Water resistance	IPX6 (as per U. S. MIL-STD-810G)
Drop	1 m (as per U. S. MIL-STD-810G)
Standard accessories	Power supply cable; signal cable; waterproof and shockproof carrying case
Optional accessories	Handle; mounting pad; Picatinny gun mount; K34 rechargeable battery bank; folding mast



SMP750

Multi-spectrum Ocular Interruption Device



3,500 m

55,800 lm

IPX6

Ideal for:

Army

Navy

Police

This innovative multi-spectrum ocular interruption system consists of three high-power searchlights of different wavelengths (RGB by default). Each color can be either controlled individually or combined into a single white beam. Other features of the SMP750 scene light include:

-  Multi-mode operation: Strobe, high
-  Computerized mode control via an RS-232 interface
-  A Picatinny rail cover for weapon mounting and a mounting pad for vehicle/ship/helicopter mounting
-  A sturdy aerospace-grade aluminum alloy housing with a HAIII military-grade hard-anodized finish that ensures rugged and reliable performance under extreme conditions.

SMP750 is ideal for anti-terrorism, riot control, crowd dispersal, border security, maritime and seaport security etc., and proves to be a great asset for military and law enforcement personnel.



New Product



Peak beam intensity	3,000,000 cd (as per ANSI/PLATO FL1-2016)
Range	3,500 m (white beam, as per ANSI/PLATO FL1-2016)
Modes	100% power; Strobe
Ocular interruption effective range	> 250 m
Power Supply	24 V DC
Beam divergence	6° (default)
Weight	12 kg
Working temperature	-40 °C - +50 °C (as per U. S. MIL-STD-810G)
Water resistance	IPX6 (as per U. S. MIL-STD-810G)
Random vibration	As per U.S. MIL-STD-810F
Salt fog	As per U.S. MIL-STD-810F, method 509.4
Safety	As per U.S.MIL-STD-1474D
Standard accessories	Waterproof and shockproof carrying case
Optional accessories	Pan&Tilt system

Blazing through the darkness!



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