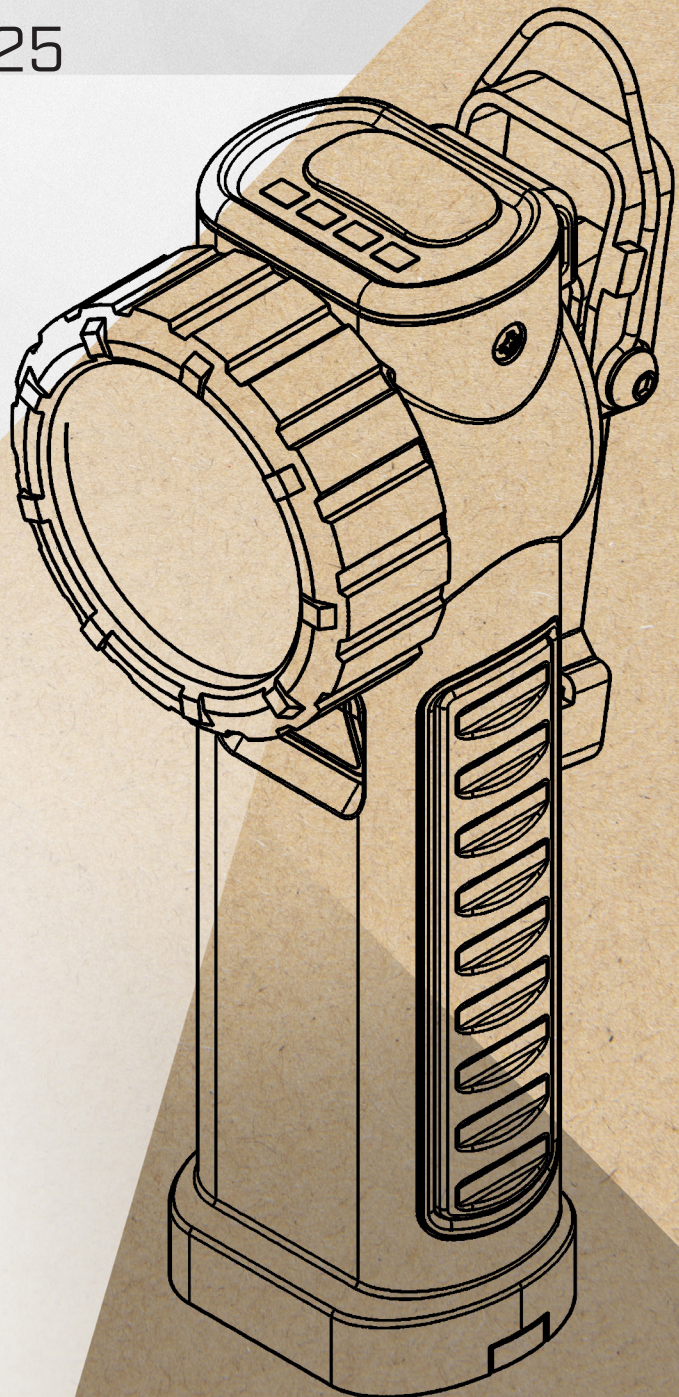


**TRUSTED  
BY PROS®**

**Mactronic®**

# PRODUCT CATALOG

2025







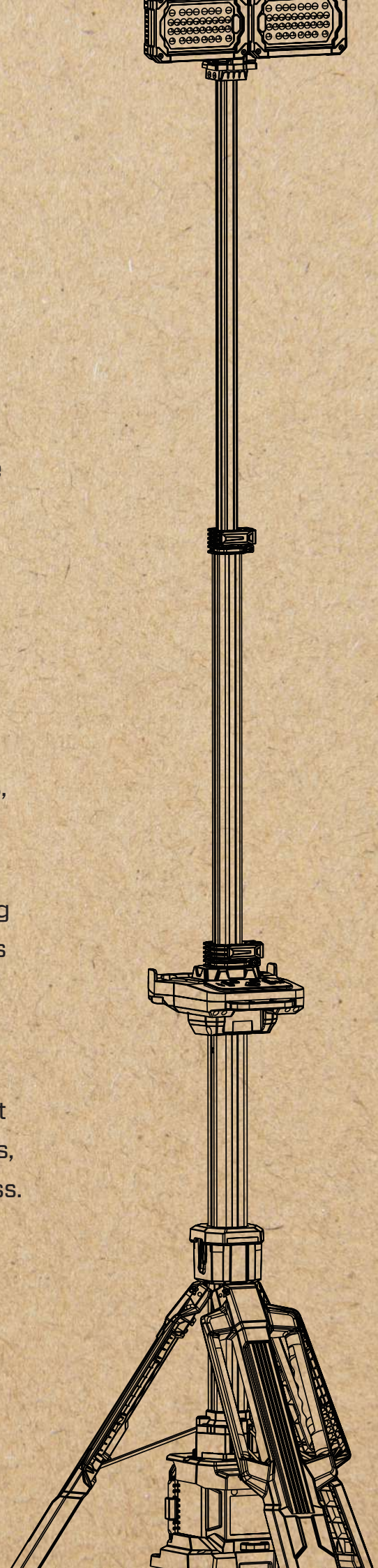
# ABOUT MACTRONIC®

Established in 1989, **MACTRONIC® GROUP** has become a leading force in the development of high-performance lighting technology. With over 35 years of experience, we have consistently delivered high-quality lighting tools, recognized for their innovation, reliability, and functionality.

What began as a small venture has evolved into a respected brand, providing a wide range of lighting solutions tailored to the needs of professionals in law enforcement, the military, firefighting, industrial sectors, and outdoor enthusiasts.

Our commitment to innovation is driven by a deep understanding of our customers' requirements, resulting in lighting products that combine exceptional brightness with durability and value. Each product is meticulously engineered to uphold our standards of excellence and dependability.

Our motto, **#trustedbypros**, reflects the confidence that professionals across various fields place in our products, reinforcing our reputation for quality and trustworthiness.



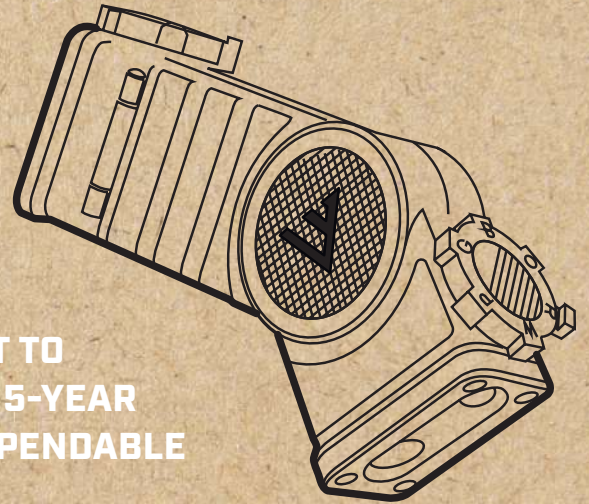




# MACTRONIC<sup>®</sup> **VALUE** HIGHLIGHTS

**5** YEAR  
WARRANTY

YOUR GEAR IS BUILT TO  
LAST, BACKED BY A 5-YEAR  
WARRANTY FOR DEPENDABLE  
PERFORMANCE.



**PATENTED  
DESIGN**

STAY AHEAD WITH  
INNOVATIVE,  
PATENTED DESIGNS  
CRAFTED FOR  
PROFESSIONAL  
USERS.



**ECO FRIENDLY  
PACKAGING**

MAKE AN ECO-CONSCIOUS  
CHOICE WITH PACKAGING  
DESIGNED TO REDUCE YOUR  
ENVIRONMENTAL IMPACT.





### #reliability

You can count on dependable lighting solutions for every mission, no matter the conditions

### #safety

Stay protected with lighting designed to ensure your safety even in the most hazardous areas

### #precision

Get the job done with precise lighting solutions that offer uncompromised performance



## TRUSTED BY PROS®

### #passion

Turn your passion into reality with tools created for those who push boundaries

### #functionality

Benefit from practical, reliable products that adapt to any situation you face

### #effectiveness

Enhance your safety and comfort with effective lighting that supports your professional needs







## / PRODUCT RANGE

## PRODUCT

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## / PRODUCT RANGE

## PRODUCT

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**TRUSTED  
BY PROS®**

# HANDHELD FLASHLIGHTS





# PATROL RX

Advanced Patrol  
Flashlight with QUICK-SET™  
Programming





# PATROL RX

2000 lm

370 m

THH0056

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

<b>POWER SUPPLY</b>	Li-Ion 5000 mAh			
<b>CHARGING TIME</b>	4 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>BOOST</b>	2000 lm	30 s	370 m	33 936 cd
<b>HIGH</b>	1500 lm	2 h	330 m	27 620 cd
<b>MEDIUM</b>	650 lm	-	200 m	10 064 cd
<b>LOW</b>	330 lm	-	140 m	4736 cd
<b>STROBE</b>	-	-	-	-
<b>DIMENSIONS</b>	194 x 28,5 x 44 mm			
<b>WEIGHT</b>	226,8 (without battery), 297,3 g (with battery)			
<b>THE SET INCLUDES</b>	wall charging station, 12V DC car charger, 230V power adapter, handstrap, Li-Ion battery (21700)			

Additional accessories table at the end of the catalog



IP68 RATING



1.5 m IMPACT RESISTANCE



BLACKOUT WARNING SYSTEM



BATTERY LEVEL INDICATOR



USB-C CHARGING



ADVANCED DIMMING SYSTEM



LAST SETTING MEMORY



NEW



Patrol RX is the new version of the iconic patrol flashlight, combining powerful illumination, a durable design, and advanced programming features. QUICK-SET™ Programming – an advanced programming system – allows the user to quickly and intuitively (with five clicks of a button) switch between three different lighting programs. The flashlight can be customized for various tasks, offering flexibility depending on the situation. A maximum light output of 2000 lumens and adjustable light intensity (ADS) enable effective operation in any condition. Patrol RX has a charging base that can be easily mounted on a wall or in vehicles, ensuring convenient charging during daily duty.

# PATROL LTD

ANSI FL1 STANDARD

1000 lm

340 m

THH0055

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

<b>POWER SUPPLY</b>	Li-Ion 3,7V 3350 mAh			
<b>CHARGING TIME</b>	4 - 6 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>BOOST</b>	1000 lm	1 min	340 m	28 685 cd
<b>HIGH</b>	800 lm	1 h 38 min	315 m	24 175 cd
<b>MEDIUM</b>	350 lm	3 h	200 m	9705 cd
<b>LOW</b>	100 lm	9 h 30 min	110 m	3132 cd
<b>STROBE</b>	-	6 h	-	-
<b>DIMENSIONS</b>	185 x 31 x 47 mm			
<b>WEIGHT</b>	190 g (without battery), 255 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, wall charging station, 230V AC power adapter, 12V DC car charger, handstrap			

Additional accessories table at the end of the catalog



IP68 RATING



1 m IMPACT RESISTANCE



BLACKOUT WARNING SYSTEM



Patrol LTD is an advanced handheld flashlight designed for law enforcement, traffic police, military police, and security agencies. It emits a 1000 lm light output with a beam distance of up to 340 m. The Prefocus beam shape ensures illumination of the surrounding area of the focused beam. The Double Switch system allows the use of either the side or rear switch. Intelligent charging gives access to power from a grid or a car charger socket. The IP68 rating guarantees water and dust resistance, and the knurled rubber handle ensures a secure grip.



# EXPERT PL3™

THH0022

**APPLICATIONS:** MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, INDUSTRIAL, OUTDOOR, HUNTING, EDC

ANSI FL1 STANDARD

800 lm

420 m

<b>POWER SUPPLY</b>	Li-Ion 3,7V 6000 mAh			
<b>CHARGING TIME</b>	6 h (5V 1A)			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	800 lm	4 h	420 m	43 560 cd
<b>LOW</b>	82 lm	26 h	136 m	4644 cd
<b>STROBE</b>	-	-	-	-
<b>DIMENSIONS</b>	239 x 38 x 48 mm			
<b>WEIGHT</b>	440 g (without battery), 616 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, USB cord, handstrap, wall docking station, magnetic charger			

Additional accessories table at the end of the catalog



Expert PL3 is a handheld flashlight designed for law enforcement. The flashlight emits a light output from 82 to 800 lm, providing beam distance of up to 420 m. The Advanced Dimming System (ADS) function allows for smooth light intensity adjustment. Covered by rubber and impact resistance from 2 m, the flashlight has a high waterproof rating of IPX7. It has a 6000 mAh battery, a handstrap, a USB cord, a base for a vehicle or wall installation, and a magnetic charger. Signal cones for traffic control are available separately. The flashlight is ideal for border patrol, search and rescue teams & intervention units.

# EXPERT PL5™

THH0023

**APPLICATIONS:** MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, INDUSTRIAL, OUTDOOR, HUNTING, EDC

ANSI FL1 STANDARD

1100 lm

470 m

<b>POWER SUPPLY</b>	Li-Ion 3,7V 9000 mAh			
<b>CHARGING TIME</b>	8 h (5V 1A)			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	1100 lm	7 h	470 m	54 840 cd
<b>LOW</b>	110 lm	30 h	150 m	5624 cd
<b>STROBE</b>	-	-	-	-
<b>DIMENSIONS</b>	300 x 38 x 48 mm			
<b>WEIGHT</b>	560 g (without battery), 823g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, USB cord, handstrap, wall docking station, magnetic charger			

Additional accessories table at the end of the catalog



Expert PL5 is a flashlight designed for intervention patrols, security services, police, and border guards. It has rugged construction, long runtime, and ergonomic design. It emits a light output from 110 to 1100 lm, with a beam distance of up to 470 m. The ADS function provides smooth light intensity adjustment. It features an IPX7 waterproof rating. The flashlight weighs 823 grams with a 9000 mAh battery, which gives up to 30 hours of operation. The set includes a battery, handstrap, USB cord, docking station for a vehicle or wall installation, and a magnetic charger. Optional signal cones are available for traffic control.



# BLACK EYE 1000

THH0049

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

ANSI FL1 STANDARD

\* 1000 lm

◀ 286 m

<b>POWER SUPPLY</b>	18650 Li-Ion 3.7V 3200 mAh			
<b>CHARGING TIME</b>	4 h 30 min			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	1000 lm	3 h 30 min	286 m	20 452 cd
<b>MEDIUM</b>	447 lm	5 h 45 min	200 m	9808 cd
<b>LOW</b>	94 lm	23 h 30 min	100 m	2598 cd
<b>SOS</b>	-	5 h 30 min	-	-
<b>STROBE</b>	600 lm	10 h	-	-
<b>DIMENSIONS</b>	136 x 28,5 x 36,5 mm			
<b>WEIGHT</b>	113 g (without battery), 162 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, 230V AC charger, 12V - 24V DC car charger, charging base, USB-C cord, diffuser, handstrap			

Additional accessories table at the end of the catalog



IP65 RATING



1,5 m IMPACT RESISTANCE



USB-C CHARGING



GLASS BREAKER



LAST SETTING MEMORY



Black Eye 1000 is a handheld flashlight designed for law enforcement. It is ideal for patrol and tactical operations, as well as for survival, hunting, and EDC. Compact and battery-powered, it offers a 1000 lm light output with a beam distance of up to 286 m, providing good side illumination. It is impact resistance from 1 m and has an IP65 waterproof rating. It offers five modes: High, Medium, Low, Strobe, and SOS, with a runtime ranging from 3 h 30 min to 23 h 30 min. It is powered by an 18650 Li-Ion 3.7V 3200 mAh battery. The set includes a 230V AC charger, a 12V DC car charger, a charging base, a USB-C cord, a diffuser, and a handstrap.

# BLACK EYE 1550

THH0047

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

ANSI FL1 STANDARD

\* 1550 lm

◀ 333 m

<b>POWER SUPPLY</b>	18650 Li-Ion 3.7V 3200 mAh			
<b>CHARGING TIME</b>	4 h 30 min			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	1550 lm	2 h 30 min	333 m	27 848 cd
<b>MEDIUM</b>	680 lm	4 h	230 m	13 036 cd
<b>LOW</b>	127 lm	15 h 15 min	115 m	3358 cd
<b>SOS</b>	-	5 h	-	-
<b>STROBE</b>	-	5 h 30 min	-	-
<b>DIMENSIONS</b>	160 x 29 x 46 mm			
<b>WEIGHT</b>	175 g (without battery), 225 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, 230V AC charger, 12V - 24V DC car charger, charging base, USB-C cord, handstrap			

Additional accessories table at the end of the catalog



IP65 RATING



1 m IMPACT RESISTANCE



USB-C CHARGING



GLASS BREAKER



Black Eye 1550 is the flagship tactical flashlight and the most powerful in the Black Eye series. It emits a 1550 lm light output with a beam distance of up to 333 m. It has an impact resistance of 1.5 m and meets IP65 waterproof standards. It has five operating modes, with a runtime from 2 h 30 min to over 15 h. It is powered by a 3200 mAh Li-Ion 18650 battery. The set includes a 230V AC charger, a 12V DC car charger, a rechargeable battery, a charging base, a USB-C cord, and a handstrap. Optional accessories include an MX3 holster and signal cones (red and yellow). Ideal for law enforcement, survival enthusiasts, and everyday use, it provides reliable and intense light in all conditions.



# BLACK EYE MINI

\* 135 lm

◀ 100 m

L-MX512L

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

POWER SUPPLY	1 × AA			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH	135 lm	1 h 30 min	100 m	4360 cd
LOW	50 lm	6 h	35 m	1280 cd
DIMENSIONS	118 x 20 x 29 mm			
WEIGHT	79 g (without batteries), 102 g (with batteries)			
THE SET INCLUDES	1 × AA battery, clip			

Additional accessories table at the end of the catalog



Black Eye Mini is a compact handheld flashlight powered by an AA battery, great for everyday use and emergencies. It emits a 135 lm light output with a range of up to 100 m. The Focus function allows you to adjust the beam width. It is rugged, has impact resistance from 2 m, and has an IP65 waterproof rating. Its compact size makes it easy to store in a pocket or backpack, making it a perfect EDC item. Excellent as a backup military flashlight and an emergency light source for home or car.

# BLITZ K3

\* 3000 lm

◀ 375 m

THS0021

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

POWER SUPPLY	Li-Ion 7.4V 5000 mAh			
CHARGING TIME	9 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST	3000 lm	1 h 30 min	375 m	40 000 cd
HIGH	1000 lm	3 h 30 min	220 m	12 500 cd
MEDIUM	500 lm	4 h	155 m	6000 cd
LOW	100 lm	25 h	55 m	750 cd
FLASHING 8Hz	-	8 h	-	-
DIMENSIONS	172 x 40 x 62 mm			
WEIGHT	350 g (without battery), 449 g (with battery)			
THE SET INCLUDES	Li-Ion battery, 230V AC charger, handstrap, case			

Additional accessories table at the end of the catalog



Blitz K3 is an advanced handheld flashlight generating a 3000 lm light output with a range of up to 375 m. It emits bright, white light with even dispersion. It operates in five modes, including a flashing mode. The IP67 rating protects against dust and water, and its impact resistance of 1.5 m confirms its robustness. A battery level indicator and a safety ring enhance comfort and user safety. A 7.4V 5000 mAh Li-Ion battery runs up to 25 h in Low mode, with a charging time of 9 h. It's great for everyday use, hunting, survival, caving, and technical inspections.



# SIRIUS M10

THH0171

APPLICATIONS: BUSHCRAFT, SURVIVAL, HIKING, TREKKING, URBEX, CAMPING, EDC, DIY

✱ 1000 lm

◀ 100 m

<b>POWER SUPPLY</b>	16340 Li-Ion 3,7V 650 mAh			
<b>CHARGING TIME</b>	1 h 30 min			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	1000 lm	50 min	100 m	2552 cd
<b>MEDIUM</b>	140 lm	2 h	40 m	472 cd
<b>LOW</b>	40 lm	6 h 30 min	20 m	100 cd
<b>FIREFLY</b>	5 lm	100 h	-	-
<b>STROBE</b>	1000 lm	-	-	-
<b>DIMENSIONS</b>	56 x 19 x 24 mm			
<b>WEIGHT</b>	25 g (without battery), 44,5 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, USB magnetic cord, handstrap, clip			

Additional accessories table at the end of the catalog

-  **IPX8 RATING**
-  **1 m IMPACT RESISTANCE**
-  **MAGNETIC CHARGING**
-  **LAST SETTING MEMORY**
-  **CLIP**
-  **MAGNET**



Sirius M10 is a compact EDC flashlight with an intense 1000 lm light output and up to 100 m range. It fits entirely in the hand and weighs 44.5 g with the battery. Equipped with a mode memory function, it allows quick access to your preferred setting, and the switch lock prevents accidental discharge. The body is rugged and waterproof (IPX8). A magnet in the base allows attachment to metal surfaces. The set includes a 16340 Li-Ion battery with a capacity of 650 mAh, providing up to 100 h of operation in the lowest Firefly mode. Great for bushcraft, hiking, and as an everyday carry flashlight.

# SIRIUS T25

THH0172

APPLICATIONS: EDC, BUSHCRAFT, SURVIVAL, TREKKING, HUNTING

✱ 2500 lm

◀ 360 m

<b>POWER SUPPLY</b>	21700 Li-Ion 3,7V 5000 mAh			
<b>CHARGING TIME</b>	6 h 30 min			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>EXTREME HIGH</b>	2500 lm	2 h 48 min	360 m	37 400 cd
<b>HIGH</b>	700 lm	3 h	125 m	4096 cd
<b>MEDIUM</b>	160 lm	16 h	75 m	1406 cd
<b>FIREFLY</b>	3 lm	1000 h	-	-
<b>STROBE</b>	2500 lm	-	-	-
<b>DIMENSIONS</b>	158 x 59 x 68 mm			
<b>WEIGHT</b>	53 g (without battery), 124 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, USB magnetic cord, handstrap, clip			

Additional accessories table at the end of the catalog

-  **IP68 RATING**
-  **1 m IMPACT RESISTANCE**
-  **MAGNETIC CHARGING**
-  **LAST SETTING MEMORY**
-  **CLIP**
-  **MAGNET**



Sirius T25 is a high-performance, handheld flashlight generating 2500 lm with a range of up to 360 m. Its lightweight and ergonomic design ensures comfort, while intelligent features like mode memory and a switch lock enhance its functionality. The 21700 Li-Ion 5000 mAh battery, charged via a magnetic USB cord, offers up to 1000 h of operation. The IP68 rating guarantees reliability in extreme conditions, and the magnet in the base allows attachment to metal surfaces. The stylish sand-colored housing has impact resistance from 1 meter. Sirius T25 is the ideal flashlight for bushcraft, hiking, hunting, and survival.

# SNIPER 3.3

THH0084

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

ANSI FL1 STANDARD

1020 lm

225 m

POWER SUPPLY	18650 Li-Ion 3,7V 2800 mAh			
CHARGING TIME	4 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST	1020 lm	3 h 55 min	225 m	12 864 cd
HIGH	600 lm	6 h 40 min	165 m	6706 cd
MEDIUM	310 lm	13 h 20 min	120 m	3545 cd
LOW	50 lm	56 h 50 min	50 m	570 cd
FLASHING	-	20 h	-	-
DIMENSIONS	150 x 26 x 30 mm			
WEIGHT	138 g (without battery), 187 g (with battery)			
THE SET INCLUDES	Li-Ion battery, USB-C cord, handstrap			

Additional accessories table at the end of the catalog



Sniper 3.3 is an advanced handheld flashlight, perfect for everyday use and professional activities. It emits 1020 lm with a range of up to 225 m. The Smooth Focus System allows for slick adjustment of the beam width. It has an IP66 rating for dust and water resistance. Impact resistance is from 2 m. Powered by a 2800 mAh 18650 Li-Ion battery (with USB-C), it runs up to 56 h and 50 min in Low mode. The flashlight can also function as a power bank. Optional accessories are red and green filters, a signal cone, and a holster. It's an excellent flashlight for service inspections, camping, outdoor activities, fishing, hunting, everyday use, patrolling, and rescue operations.

# SNIPER 3.4

THH0012

APPLICATIONS: MILITARY, UNIFORMED SERVICES, SURVIVAL, OUTDOOR, HUNTING, EDC

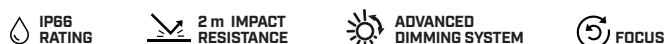
ANSI FL1 STANDARD

600 lm

180 m

POWER SUPPLY	3 x AAA		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
HIGH	600 lm	2 h	180 m
LOW	180 lm	8 h	80 m
STROBE	600 lm	4 h	-
DIMENSIONS	110 x 27,5 x 33 mm		
WEIGHT	105 g (without batteries), 139 g (with batteries)		
THE SET INCLUDES	3 x AAA batteries, holder, clip, handstrap		

Additional accessories table at the end of the catalog



Sniper 3.4 is a handheld flashlight ideal for everyday use. It emits 600 lm of light with a beam distance of up to 180 m. Powered by three AAA batteries, it is practical and easy to use. It operates in three modes. It has an IP66 rating and 2 m impact resistance. The Advanced Dimming System allows for smooth adjustment of light intensity. The Focus function adjusts beam width, and the silent switch allows discreet operation. The flashlight remembers the last used mode. It comes with batteries, a holster, a clip, and a handstrap for convenience in the field.



# TRACER UV

☀️ 2 x 365 nm UV

☀️ 1000 lm

◀️ 115 m

THH0125

**APPLICATIONS:** MILITARY, LAW ENFORCEMENT, UNIFORMED & SECURITY SERVICES, SANITATION SERVICES, OUTDOOR, HUNTING, EDC

<b>POWER SUPPLY</b>	18650 Li-Ion 3400 mAh		
<b>CHARGING TIME</b>	6 h		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>HIGH</b>	1000 lm	3 h 42 min	115 m
<b>MEDIUM</b>	500 lm	5 h 36 min	-
<b>LOW</b>	100 lm	22 h	-
<b>STROBE</b>	-	3 h	-
<b>2 x UV LED 365 nm</b>	-	15 h	-
<b>DIMENSIONS</b>	131 x 26 x 37 mm		
<b>WEIGHT</b>	138 g (without battery), 185 g (with battery)		
<b>THE SET INCLUDES</b>	Li-Ion battery, Micro USB cord		

Additional accessories table at the end of the catalog



Tracer UV is a handy rechargeable tactical flashlight that emits both ultraviolet (UV) light and white LED light with a maximum light output of 1000 lm, reaching up to 115 m. The Strobe mode is perfect for self-defense. It has a long runtime of up to 22 h, thanks to a 3400 mAh Li-Ion battery, rechargeable via Micro USB. The flashlight has an IPX8 waterproof rating. It is designed for crime scene investigation, revealing traces invisible in normal light. Border and patrol services use it to inspect documents and detect forgeries. In everyday use, the UV diode helps verify the authenticity of banknotes.

# NIGHT HUNTER 03

ANSI FL1 STANDARD

☀️ 1150 lm

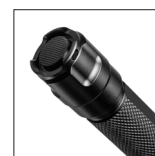
◀️ 390 m

THH0232

**APPLICATIONS:** MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

<b>POWER SUPPLY</b>	18650 Li-Ion 3400 mAh / 2 x CR123A		
<b>CHARGING TIME</b>	9 h		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>BOOST</b>	1150 lm	1 min	390 m
<b>HIGH</b>	915 lm	2 h	-
<b>MEDIUM</b>	457 lm	3 h 11 min	-
<b>LOW</b>	182 lm	6 h 30 min	-
<b>ECO</b>	18 lm	62 h 50 min	-
<b>DIMENSIONS</b>	155 x 25 x 45 mm		
<b>WEIGHT</b>	193 g (without batteries), 240 g (with batteries)		
<b>THE SET INCLUDES</b>	Li-Ion battery, handstrap		

Additional accessories table at the end of the catalog



Night Hunter 03 is an advanced tactical handheld flashlight for law enforcement, hunters, and outdoor enthusiasts. It is exceptionally rugged and resistant to mechanical damage, dust, and water (IPX7). It emits a powerful 1150 lm light output, reaching up to 390 m. The Focus function allows smooth adjustment of the beam width. The Dual Source System will enable it to be powered by two CR123A batteries or a 18650 Li-Ion battery. It is perfect for military and police operations, terrain searches, patrols, and border security.

# DEFENDER IR

THH0126

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC

✦ 940 nm IR

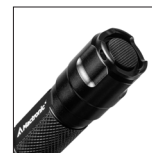
✦ 400 lm

◀ 132 m

<b>POWER SUPPLY</b>	2 x CR123A / 1 x 18650 Li-Ion 3400 mAh			
	LIGHT OUTPUT		RUN TIME	
	Li-Ion 3400 mAh	2 x CR123A	Li-Ion 3400 mAh	2 x CR123A
<b>HIGH</b>	400 lm	400 lm	2 h 30 min	2h
<b>LOW</b>	50 lm	50 lm	20 h	18h
<b>IR LED HIGH</b>	100 mW IR	100 mW IR	8 h	6 h 30 min
<b>IR LED LOW</b>	5 mW IR	5 mW IR	85 h	80 h
<b>DIMENSIONS</b>	131 x 25 x 35 mm			
<b>WEIGHT</b>	162 g (without batteries), 199 g (with batteries)			
<b>THE SET INCLUDES</b>	2 x CR123A batteries			



Additional accessories table at the end of the catalog



Defender IR is a handheld flashlight that emits both white and infrared (IR) light. It facilitates identifying and tracking objects in the dark and works perfectly with night vision technologies. The flashlight has a high waterproof rating of IPX7 and is impact-resistant from a height of 1.2 meters. It offers four operating modes and can be powered by two CR123A batteries or an 18650 Li-Ion battery. The unique head design protects the emitter from damage. The flashlight is suitable for mounting weapons, making it ideal for soldiers, police officers, and special units. It is effective in military night operations, tactical missions, and airsoft.





# FLAGGER NANO

Pocket EDC Flashlight  
with Front and Top Light  
Featuring a Carabiner



# FLAGGER NANO

ANSI FL1 STANDARD \* 500 lm

PHH0136

APPLICATIONS: LAW ENFORCEMENT, RESCUE, EDC, OUTDOOR, DIY

POWER SUPPLY	Li-Po 3,7V 450 mAh
CHARGING TIME	2 h
<b>LIGHT OUTPUT</b>	
COB BOOST	500 lm
COB HIGH	300 lm
COB MEDIUM	100 lm
COB LOW	30 lm
COB RED	-
COB RED FLASHING	-
TOP HIGH	200 lm
TOP MEDIUM	60 lm
TOP LOW	20 lm
DIMENSIONS	64 x 19 x 29 mm
WEIGHT	43 g
THE SET INCLUDES	USB-C cord, carabiner

Additional accessories table at the end of the catalog

- IPX4 RATING
- 1m IMPACT RESISTANCE
- USB-C CHARGING
- MAGNETS
- CLIP



Flagger Nano is an ultra-light, pocket-sized EDC flashlight weighing just 43 grams, perfect for everyday use, outdoor adventures, or in the workshop. Equipped with a COB LED panel, it emits both diffuse white and red light (steady and flashing for signaling), making it a versatile tool. Additionally, it features a focused top light (TOP). The flashlight operates in multiple modes, allowing you to adjust brightness and light type to suit various needs. Built-in magnets enable easy attachment to metal surfaces, while the carabiner and clip make it simple to attach to keys, belts, or backpacks.

# FLAGGER MINI

ANSI FL1 STANDARD \* 500 lm ◀ 30 m

PHH0134

APPLICATIONS: LAW ENFORCEMENT, RESCUE, EDC, OUTDOOR, DIY

POWER SUPPLY	Li-Po 3,7V 450 mAh		
CHARGING TIME	2 - 2 h 30 min		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
BOOST	500 lm	30 s	30 m
COB LED HIGH	300 lm	2 h	22 m
COB LED MEDIUM	100 lm	4 h	12 m
COB LED LOW	30 lm	6 h	7 m
WARM COB LED HIGH	300 lm	2 h	23 m
WARM COB LED MEDIUM	100 lm	4 h	12 m
WARM COB LED LOW	20 lm	6 h	6 m
RED COB LED FLASHING	-	-	-
DIMENSIONS	101 x 5 x 25 mm		
WEIGHT	35 g		
THE SET INCLUDES	USB-C cord		

Additional accessories table at the end of the catalog

- IPX4 RATING
- 1m IMPACT RESISTANCE
- USB-C CHARGING
- MAGNET
- CLIP



Flagger Mini is a compact, multi-purpose handheld flashlight with a right-angled design, emitting a maximum light output of 500 lm. It offers eight operating modes, including warm and cool white light at various brightness levels and flashing red signal light. Powered by a 450 mAh Li-Po battery, it provides up to 6 h of operation. Weighing 35 g, it is perfect for everyday carry. A magnet in the base allows attaching a flashlight to metal surfaces, and a clip enables attachment to a belt or pocket. Ideal for workshops, cars, daily use, and dog walks.



# FLAGGER

PHH0072

**APPLICATIONS:** FIREFIGHTING, RESCUE, LAW ENFORCEMENT, TRANSPORTATION, ROADSIDE ASSISTANCE, WORK SAFETY, INDUSTRIAL, DIY, EDC

ANSI FL1 STANDARD

500 lm

154 m

<b>POWER SUPPLY</b>	803450 Li-Po 3,7 V 1500 mAh		
<b>CHARGING TIME</b>	2 h 40 min		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>WHITE LED</b>	150 - 500 lm	2 h 30 min - 6 h	154 m
<b>RED COB</b>	-	7 h 30 min - 15 h	-
<b>GREEN COB</b>	-	7 h 30 min - 15 h	-
<b>DIMENSIONS</b>	107,5 x 36,5 x 47 mm		
<b>WEIGHT</b>	111 g		
<b>THE SET INCLUDES</b>	built-in magnet, hook, clip, USB-C cord		

Additional accessories table at the end of the catalog



Flagger is a compact, rechargeable handheld flashlight with a right-angled design and signaling function, offering three light colors: white, red, and green. It emits a light output of up to 500 lm, providing visibility up to 154 m. The Advanced Dimming System (ADS) allows for smooth brightness adjustment. The built-in 1500 mAh Li-Po battery, rechargeable via USB-C port, offers up to 15 hours of operation. It features a clip, hook, and two magnets for versatile use. The flashlight is handy and versatile. Flagger is popular with firefighters, police, emergency medical services, and railway workers, providing reliable lighting and vivid signaling.

# FLAGGER 650

PHH1073

**APPLICATIONS:** FIREFIGHTING, RESCUE, LAW ENFORCEMENT, TRANSPORTATION, WORK SAFETY, INDUSTRIAL, DIY, EDC

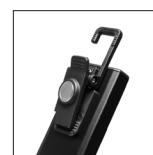
ANSI FL1 STANDARD

500 lm

154 m

<b>POWER SUPPLY</b>	803450 Li-Po 3,7 V 1500 mAh		
<b>CHARGING TIME</b>	2 h 40 min		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>WHITE LED COB</b>	200 lm	7 h	33 m
<b>WHITE LED</b>	150 - 500 lm	2 h 30 min - 6 h	154 m
<b>DIMENSIONS</b>	107,5 x 36,5 x 47 mm		
<b>WEIGHT</b>	109 g		
<b>THE SET INCLUDES</b>	built-in magnet, hook, clip, USB-C cord		

Additional accessories table at the end of the catalog



Flagger 650 is a rechargeable handheld and right-angle flashlight designed for train drivers, railway traction units, and paramedics, but it's also valid for everyday use. Compact and functional, it has two white light sources: the main LED with an Advanced Dimming System (150-500 lm) and a COB panel (200 lm). The maximum beam distance is 154 m. The 1500 mAh Li-Po battery provides up to 2 h 30 min of operation at maximum brightness and up to 7 h with the COB panel. A single switch controls it. It features a clip, hook, and two magnets for versatile use. The Flagger 650 is charged via a USB-C port, next to which is a battery level indicator.

# MEDLITE

✳ 10 lm

PHH0081

APPLICATIONS: MEDICAL, RESCUE

POWER SUPPLY	2 x AAA
LIGHT OUTPUT	10 lm
DIMENSIONS	130 x 12,5 x 12,5 mm
WEIGHT	18 g (without batteries), 40,5 g (with batteries)
THE SET INCLUDES	-

Additional accessories table at the end of the catalog

1,5 m IMPACT RESISTANCE

CLIP



MedLite is a handy penlight designed for medical professionals such as doctors, paramedics, dentists, and veterinarians. It is equipped with a precise LED that emits neutral light at 10 lumens and a color temperature of 4000K, making it perfect for diagnostic applications. The diode used meets the requirements of EN 62471: 2008 for eye safety. The durable aluminum body with 1,5-meter impact resistance to drops ensures high durability. Powered by two AAA batteries, the MedLite is always ready for use, making it an essential tool for everyday medical practice.

# SUNSCAN 5.1

✳ 50 lm

PHH0031

APPLICATIONS: DETAILING, CONSERVATION, AUTOMOTIVE SERVICES, INDUSTRIAL, DIY, EDC

POWER SUPPLY	2 x 1.5 V AAA	
	LIGHT OUTPUT	RUN TIME
	95 CRI LED, 4000 K	
HIGH	50 lm	1 h 30 min
DIMENSIONS	149 x 13,5 x 20,7 mm	
WEIGHT	34 g (without batteries), 57 g (with batteries)	
THE SET INCLUDES	2 x AAA batteries	

Additional accessories table at the end of the catalog

2 m IMPACT RESISTANCE

CLIP

CRI 95



Sunscan 5.1 is a compact penlight weighing just 34 grams, designed for professionals in detailing, painting, heritage conservation, and other fields where precise color rendering is critical. With a CRI 95, the Sunscan 5.1 accurately reproduces colors, making it the perfect tool for evaluating paintwork, polishing, and restoration work. Its smooth beam adjustment allows users to tailor the light to various needs, while the durable construction and AAA battery power ensure long-lasting, reliable performance in any condition.



# DURA LIGHT 2.1

PHH0121

APPLICATIONS: AUTOMOTIVE SERVICES, WORK SAFETY, INDUSTRIAL, DIY, OUTDOOR, EDC

ANSI FL1 STANDARD

800 lm

235 m

POWER SUPPLY	4 × AA		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
HIGH	800 lm	1 h	235 m
MEDIUM	450 lm	4 h	200 m
LOW	115 lm	10 h	80 m
STROBE	-	2 h	-
DIMENSIONS	172 x 34,4 x 40,5 mm		
WEIGHT	97,4 g (without batteries); 190 g (with batteries)		
THE SET INCLUDES	handstrap		

Additional accessories table at the end of the catalog



Dura Light 2.1 is a robust handheld flashlight designed for demanding industrial environments. Powered by four AA batteries, it emits an 800-lumen light output, providing illumination up to 235 meters. With a durable IPX7-rated construction, the flashlight is resistant to water immersion and drops, ensuring reliability in harsh conditions. The Dura Light 2.1 is also lightweight and ergonomic, featuring a built-in safety hammer at the rear, designed for breaking windows in emergencies.

# DURA LIGHT 2.3

PHH0124

APPLICATIONS: AUTOMOTIVE SERVICES, WORK SAFETY, INDUSTRIAL, DIY, OUTDOOR, EDC

ANSI FL1 STANDARD

700 lm

240 m

POWER SUPPLY	Li-Ion 3,7V 4400 mAh		
CHARGING TIME	3 h 40 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
HIGH	700 lm	1 h 15 min	240 m
MEDIUM	450 lm	10 h 30 min	200 m
LOW	100 lm	30 h	75 m
STROBE	-	5 h	-
DIMENSIONS	164 x 42 x 49 mm		
WEIGHT	233 g		
THE SET INCLUDES	USB-C cord, handstrap		

Additional accessories table at the end of the catalog



Dura Light 2.3 is an exceptionally versatile handheld flashlight engineered for heavy-duty use in the industrial, rescue, and transportation sectors. It delivers a powerful 700-lumen light output, reaching up to 240 meters, with four adjustable modes to adapt to varying conditions. The Dura Light 2.3 features a 4400 mAh battery with a power bank function, allowing you to charge external devices. Its rugged IPX7-rated construction provides excellent water and impact resistance, while the integrated safety hammer is designed for emergencies, such as breaking windows in critical scenarios.

# DURA LIGHT 920

PHH0111

APPLICATIONS: AUTOMOTIVE SERVICES, WORK SAFETY, INDUSTRIAL, DIY, OUTDOOR, EDC

ANSI FL1 STANDARD

\* 920 lm

◀ 300 m

<b>POWER SUPPLY</b>	Li-Ion 3,7V 2500 mAh			
<b>CHARGING TIME</b>	4 h 30 min			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>BOOST</b>	920 lm	-	300 m	23760 cd
<b>HIGH</b>	550 lm	3 h 30 min	225 m	13670 cd
<b>MEDIUM</b>	260 lm	8 h	155 m	6685 cd
<b>LOW</b>	90 lm	33 h	90 m	2228 cd
<b>DIMENSIONS</b>	188 x 40 x 43 mm			
<b>WEIGHT</b>	164,3 g (without battery), 245 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, Micro USB cord, handstrap			

Additional accessories table at the end of the catalog



Dura Light 920 is an exceptionally durable handheld flashlight for harsh industrial environments. Engineered for construction workers, maintenance teams, service technicians, and automotive workshops, it delivers a powerful 920-lumen beam with a beam distance of up to 300 meters. Resistant to dust, water (IP68), and impact resistant to drops from up to 2 meters, the Dura Light 920 excels in machine inspections, vehicle repairs, and tasks in demanding conditions. Powered by a lithium-ion battery, it offers flexible charging options, making it a reliable tool for professionals.



**TRUSTED  
BY PROS®**

# SEARCHLIGHTS







# FLAGGER MAX

High-Performance  
Searchlight with COB  
Warning Light and  
Power Bank  
Function





# FLAGGER MAX

PSL0073

**APPLICATIONS:** UNIFORMED & SECURITY SERVICES, RESCUE, LAW ENFORCEMENT, MILITARY, INDUSTRIAL, TRANSPORTATION, UTILITIES

<b>POWER SUPPLY</b>	Li-Ion 3,7V 5200 mAh			
<b>CHARGING TIME</b>	4 - 5 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>WHITE SPOT HIGH</b>	1800 lm	4 h	900 m	72000 cd
<b>WHITE SPOT MEDIUM</b>	900 lm	8 h	470 m	-
<b>WHITE SPOT FLASHING</b>	1800 lm	8 h	900 m	-
<b>WHITE FLOOD HIGH</b>	300 lm	11 h 30 min	200 m*	-
<b>WHITE FLOOD MEDIUM</b>	150 lm	23 h	100 m*	-
<b>ORANGE FLOOD HIGH</b>	30 lm	15 h 30 min	300 m*	-
<b>ORANGE FLOOD FLASHING</b>	30 lm	35 h	300 m*	-
<b>DIMENSIONS</b>	189 x 98 x 121 mm			
<b>WEIGHT</b>	545 g			
<b>THE SET INCLUDES</b>	USB-C cord, shoulder strap			

Additional accessories table at the end of the catalog

\*visibility



IP66 RATING



1 m IMPACT RESISTANCE



USB-C CHARGING



FLOATING



POWER BANK



BATTERY LEVEL INDICATOR



SWITCH LOCK



LAST SETTING MEMORY

ANSI FL1 STANDARD

\* 1800 lm

◀ 900 m



Flagger Max is a searchlight with an 1800 lm light output and a range of up to 900 m. The Prefocus function provides a spot beam and a flood beam around it to illuminate the field of view. The COB LED panel emits both diffuse white light and orange signal light. A 5200 mAh battery works as a power bank. The searchlight has an IP66 rating for dust and water resistance, an impact resistance (1 m), and floats on water. Charging is possible via a USB-C port. A shoulder strap and optional magnetic mount enhance the flashlight's mobility. Flagger Max is a rugged tool for patrolling, search and rescue missions, signaling, nighttime inspections, repairs, and tactical operations.

# X-PISTOL GEN2

PSL0022

**APPLICATIONS:** UNIFORMED & SECURITY SERVICES, RESCUE, LAW ENFORCEMENT, MILITARY, INDUSTRIAL

<b>POWER SUPPLY</b>	Li-Ion 3,7V 5400 mAh			
<b>CHARGING TIME</b>	3 - 5 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	1500 lm	1 h	530 m	72000 cd
<b>MEDIUM</b>	800 lm	3 h	-	-
<b>LOW</b>	400 lm	5 h	-	-
<b>FLASHING</b>	-	10 h	-	-
<b>DIMENSIONS</b>	146 x 101 x 196 mm			
<b>WEIGHT</b>	752 g			
<b>THE SET INCLUDES</b>	-			

Additional accessories table at the end of the catalog



IPX6 RATING



1 m IMPACT RESISTANCE



FOCUS

ANSI FL1 STANDARD

\* 1500 lm

◀ 530 m



X-Pistol GEN2 is a rechargeable searchlight, emitting a maximum light output of 1500 lm with a beam distance of up to 530 m. Equipped with a Focus function, it allows for adjusting the beam width. The built-in 5400 mAh Li-Ion battery provides up to 5 h of continuous operation. The charging time is 3 to 5 h via the built-in USB-A cord. Its solid construction and IPX6 rating make it impact resistant to mechanical damage and harsh weather conditions. The multifunctional pistol grip allows for comfortable holding or placing of the flashlight. X-Pistol GEN2 is indispensable for rescue operations, search missions, and industrial inspections.

# BLITZ K12

☀ 11 600 lm

◀ 525 m

THS0011

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED & SECURITY SERVICES, HUNTING

<b>POWER SUPPLY</b>	Li-Ion 7,4V 7800 mAh			
<b>CHARGING TIME</b>	9 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>BOOST</b>	11 600 lm	3 h	525 m	70 000 cd
<b>HIGH</b>	5000 lm	4 h	315 m	25 000 cd
<b>MEDIUM</b>	1500 lm	7 h	178 m	8000 cd
<b>LOW</b>	600 lm	15 h	154 m	6000 cd
<b>ECO</b>	180 lm	54 h	62 m	1000 cd
<b>FLASHING 8Hz</b>	-	15 h	-	-
<b>DIMENSIONS</b>	273 x 48 x 100 mm			
<b>WEIGHT</b>	952 g (without battery), 1235 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, 230V AC charger, shoulder strap, case			

Additional accessories table at the end of the catalog



Blitz K12 is a searchlight that generates an impressive 11,600 lm light output. Equipped with four LEDs, it ensures a bright light with a range of up to 525 m. It offers six operating modes and has an IP67 waterproof rating, providing complete dust protection and the ability to immerse in water up to 1 m deep for 30 min. It also has an impact resistance of 1 m. The battery level indicator and a safety ring to prevent accidental activation enhance user safety. Powered by a 7.4V 7800 mAh Li-Ion battery, the flashlight can run in Eco mode for up to 54 h. The Blitz K12 is ideal for search and rescue operations, security and surveillance, rescue missions, and preventive measures.

# BLITZ LR11

☀ 1100 lm

◀ 1100 m

THS0031

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED & SECURITY SERVICES, HUNTING

<b>POWER SUPPLY</b>	Li-Ion 7,4V 2600 mAh / 3 x R14 (C)			
<b>CHARGING TIME</b>	4 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>BOOST</b>	1100 lm	1 h 30 min	1100 m	300 000 cd
<b>HIGH</b>	600 lm	8 h	760 m	145 000 cd
<b>MEDIUM</b>	350 lm	13 h	620 m	98 000 cd
<b>LOW</b>	100 lm	26 h	315 m	25 000 cd
<b>FLASHING 8Hz</b>	-	8 h	-	-
<b>DIMENSIONS</b>	265 x 39,2 x 94 mm			
<b>WEIGHT</b>	557 g (without battery), 685 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, 230V AC charger, shoulder strap, case			

Additional accessories table at the end of the catalog



Blitz LR11 is a handheld flashlight with a beam distance of 1100 m. It offers five operating modes and a runtime of up to 26 h. Equipped with a Dual Source System, it powers up by a 7.4V 2600 mAh Li-Ion battery or 3 x R14 (C) batteries. It emits an 1100 lm light output, and a reflector ensures even dispersion. It's rugged, with an IP67 rating for dust and water resistance and an impact resistance of 1 m. The battery can be charged in 4 h. It features a battery level indicator and a switch lock. Blitz LR11 is an excellent lighting solution for rescue services, security, and patrol operations, enabling efficient area searches and monitoring.



# VANGUARD JML

\* 1600 lm

◀ 800 m

PSL0032

**APPLICATIONS:** MILITARY, LAW ENFORCEMENT, UNIFORMED & SECURITY SERVICES, OUTDOOR, INDUSTRIAL, UTILITIES

<b>POWER SUPPLY</b>	Li-Ion 7,4V 6600 mAh	
<b>CHARGING TIME</b>	230V AC HIGH - 10 h, 12V DC HIGH - 24 h	
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>
<b>HIGH</b>	1600 lm	3 h 30 min
<b>REAR RED LED FLASHING</b>	-	240 h
<b>DIMENSIONS</b>	226 × 165 × 179 mm	
<b>WEIGHT</b>	967 g	
<b>THE SET INCLUDES</b>	230V AC charger, 12V DC car charger, shoulder strap	

Additional accessories table at the end of the catalog

IPX4  
RATING



Vanguard JML is a rechargeable searchlight emitting 1600 lm of light with a beam distance of up to 800 m. A shoulder strap and pistol grip allow for comfortable operation. The rear signal light enhances safety in low-visibility conditions. The lamp is waterproof IPX4 rating. It operates for 3 h 30 min at full power and up to 240 h in signaling mode (flashing red rear light). The set includes two chargers (one for mains charging and another for car charging) and a shoulder strap. This searchlight is ideal for rescue operations, search missions, and industrial use. It is also effective for signaling position from a long distance in the dark.

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# **ATEX LIGHTING**





# GUARDIAN XR GUARDIAN XW

Rechargeable Right-Angle  
ATEX Flashlights with  
Auxiliary White Light  
or Red Signal Light



# M-FIRE GUARDIAN XR

PHH0231/PHH0232/PHH0234

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL & GAS, CHEMICALS

ANSI FL1 STANDARD

☀ 240 lm

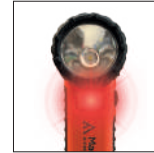
◀ 205 m

POWER SUPPLY	Li-Ion 3.6V 2600 mAh rechargeable battery			
CHARGING TIME	4 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
SPOT HIGH	240 lm	6 h	205 m	10 350 cd
SPOT MEDIUM	120 lm	12 h 20 min	145 m	5150 cd
SPOT LOW	70 lm	20 h 45 min	115 m	3170 cd
SPOT ECO	6 lm	224 h	33 m	280 cd
SPOT FLASHING	-	12 h 15 min	-	-
FLOOD CONSTANT RED	13 lm	27 h 45 min	-	-
FLOOD FLASHING RED	-	80 h	-	-
SPOT + FLOOD RED	240 lm	5 h 30 min	-	-
DIMENSIONS	177 x 64 x 67 mm			
WEIGHT	260 g			
THE SET INCLUDES	PHH0231: charging base, 230V AC charger, 12V DC car charger PHH0232: charging base, 12V DC car charger PHH0234: flashlight only			

Additional accessories table at the end of the catalog

 IP67 RATING
  1 m IMPACT RESISTANCE
  CLIP
  BATTERY LEVEL INDICATOR
  ATEX No.: I M1 Ex ia I Ma, II 1G Ex ia IIC T4 Ga

M-Fire Guardian XR is a rechargeable right angle flashlight certified for ATEX Zone 0, designed for explosive atmospheres. It offers two types of light beams: a powerful 240 lm focused beam with a 205 m beam distance, ideal for penetrating smoke, and a red auxiliary light positioned at a 45° angle, highly visible from a distance, enhancing safety in rescue operations. Powered by a 2600 mAh Li-Ion battery, it provides up to 6 hours of operation in High mode and 80 hours in red light mode. The flashlight is IP67-rated, offering complete protection against dust and water immersion up to 1 meter for 30 minutes, ensuring reliable performance in challenging conditions.



# M-FIRE GUARDIAN XW

PHH0235/PHH0236/PHH0238

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL & GAS, CHEMICALS

ANSI FL1 STANDARD

☀ 240 lm

◀ 205 m

POWER SUPPLY	Li-Ion 3.6V 2600 mAh rechargeable battery			
CHARGING TIME	4 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
SPOT HIGH	240 lm	6 h	205 m	10 350 cd
SPOT MEDIUM	120 lm	12 h 20 min	145 m	5150 cd
SPOT LOW	70 lm	20 h 45 min	115 m	3170 cd
SPOT ECO	6 lm	224 h	33 m	280 cd
SPOT FLASHING	-	12 h 15 min	-	-
FLOOD CONSTANT	25 lm	50 h	10 m	22 cd
FLOOD FLASHING	-	80 h	-	-
SPOT + FLOOD	240 lm	5 h 30 min	-	-
DIMENSIONS	177 x 64 x 67 mm			
WEIGHT	260 g			
THE SET INCLUDES	PHH0235: charging base, 230V AC charger, 12V DC car charger PHH0236: charging base, 12V DC car charger PHH0238: flashlight only			

Additional accessories table at the end of the catalog

 IP67 RATING
  1 m IMPACT RESISTANCE
  CLIP
  BATTERY LEVEL INDICATOR
  ATEX No.: I M1 Ex ia I Ma, II 1G Ex ia IIC T4 Ga

M-Fire Guardian XW is a rechargeable right angle flashlight with ATEX certification for safe use in explosive atmospheres. It features two light beams: a focused main beam with 240 lm and a 205 m beam distance, perfect for penetrating smoke, and a 25 lm wide auxiliary beam for broader area illumination, ideal for spatial orientation. Powered by a 2600 mAh Li-Ion battery, it provides up to 6 hours of operation in High mode and up to 50 hours with the auxiliary beam. Its rugged IP67-rated body ensures durability in the most demanding environments.



# M-FIRE AG Ex

PHH0221

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL &amp; GAS, CHEMICALS

<b>POWER SUPPLY</b>	4 x AA			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	323 lm	6 h 30 min	288 m	20 788 cd
<b>MEDIUM</b>	140 lm	13 h	184 m	8524 cd
<b>DIMENSIONS</b>	183 x 63 x 69 mm			
<b>WEIGHT</b>	250 g (without batteries), 354 g (with batteries)			
<b>THE SET INCLUDES</b>	4 x AA batteries, clip, mount			

Additional accessories table at the end of the catalog



**Ex** ATEX No.: I M1 Ex ia I Ma / II 1G Ex ia  
IIC T4 Ga Sira 15ATEX 2166Xg



M-Fire AG Ex is an ATEX-certified angle flashlight designed for explosion-hazard zones (Zone 0). Its intrinsically safe design ensures it is safely operated in high-risk environments prone to ignition, such as industrial fires or emergencies in explosive atmospheres. Emitting a 323-lumen light output with a beam distance of up to 288 meters, it provides exceptional visibility even in dense smoke. Powered by 4 AA batteries, it offers prolonged operation, making it reliable in critical situations. The IP54 protection rating shields the flashlight from dust and water splashes, while the ergonomic clip allows easy attachment to gear, making it an essential tool during rescue operations.

# M-FIRE FOCUS Ex

PHH0213

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL &amp; GAS, CHEMICALS

<b>POWER SUPPLY</b>	4 x AA			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	235 lm	11 h 10 min	116 m	162 - 5307 cd
<b>MEDIUM</b>	62 lm	36 h	72 m	62 - 2067 cd
<b>DIMENSIONS</b>	184 x 52 x 52 mm			
<b>WEIGHT</b>	153 g (without batteries), 247 g (with batteries)			
<b>THE SET INCLUDES</b>	4 x AA batteries, key, clip, handstrap			

Additional accessories table at the end of the catalog



**Ex** ATEX I M1 Ex ia I Ma II 1G Ex ia IIC T4  
Ga DEMKO 15 ATEX 1476X



As certified by ATEX, the M-Fire Focus Ex is a lightweight, specialized hand-held flashlight designed for demanding conditions, including explosion-hazard zones (Zone 0). The flashlight provides up to 235 lumens of light output with a beam distance of up to 116 meters and features smooth focus adjustment, allowing you to customize the beam shape as needed. Powered by four AA batteries, it operates in medium mode for up to 36 hours. With an IP67 rating, it is resistant to dust and water immersion up to 1 meter. The flashlight weighs 247 grams with batteries and includes a clothing clip. An optional helmet mount is available, expanding its versatility across various industries.

ANSI FL1 STANDARD

\* 323 lm

◀ 288 m

ANSI FL1 STANDARD

\* 235 lm

◀ 116 m



# M-FIRE 02 HL

PHH0216

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL & GAS, CHEMICALS

POWER SUPPLY	4 x AA			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH	290 lm	6 h 15 min	160 m	6395 cd
LOW	65 lm	13 h 10 min	75 m	1335 cd
DIMENSIONS	175 x 45 x 45 mm			
WEIGHT	125 g (without batteries), 219 g (with batteries)			
THE SET INCLUDES	4 x AA batteries, clip			

Additional accessories table at the end of the catalog



ANSI FL1 STANDARD

\* 290 lm

◀ 160 m



NEW



M-Fire 02 HL flashlight is designed for professionals working in hazardous environments. With ATEX certification, it is safe for use in explosive atmospheres, preventing sparks or heat, even in the event of two failures. It is suitable for areas with explosive gases like hydrogen, acetylene, and ethylene. Producing up to 290 lumens, the M-Fire 02 HL illuminates distances of up to 160 meters and offers two brightness modes—High (290 lumens) and Low (65 lumens). Its IPX7 rating ensures water resistance up to 1 meter for 30 minutes. Powered by four AA batteries for easy replacement, it includes a clip for gear attachment and optional mounts for firefighter helmets or traffic cones, enhancing its versatility.

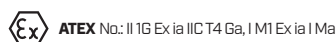
# M-FIRE 03 HL

PHH0215

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL & GAS, CHEMICALS

POWER SUPPLY	4 x AA			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH	400 lm	8 h 10 min	150 m	5660 cd
LOW	145 lm	13 h 10 min	90 m	1975 cd
DIMENSIONS	172 x 47 x 47 mm			
WEIGHT	140 g (without batteries), 270 g (with batteries)			
THE SET INCLUDES	4 x AA batteries, clip			

Additional accessories table at the end of the catalog



ANSI FL1 STANDARD

\* 400 lm

◀ 150 m



NEW



M-Fire 03 HL flashlight, with ATEX certification, is designed for safe use in explosion-hazard areas. It combines safety with performance and is suitable for zones with highly explosive gases like hydrogen and acetylene (IIC classification). With 400 lumens and a range of 150 meters, the M-Fire 03 HL delivers powerful illumination, even in harsh conditions. Its IPX7 protection ensures water resistance up to 1 meter for 30 minutes. Powered by four AA batteries, it offers a reliable and easily replaceable power source without needing specialized chargers. The flashlight includes a clip for attachment to clothing or gear and can be mounted on firefighter helmets or paired with a traffic control cone for added versatility.

# M-FIRE 02 Ex

PHH0211

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL &amp; GAS, CHEMICALS

ANSI FL1 STANDARD

\* 133 lm

◀ 231 m

POWER SUPPLY	4 × AA			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH	133 lm	6 h	231 m	13 340 cd
LOW	32 lm	69 h 10 min	110 m	-
DIMENSIONS	175 x 42 x 52 mm			
WEIGHT	125 g (without batteries), 219 g (with batteries)			
THE SET INCLUDES	4 × AA batteries, clip			

Additional accessories table at the end of the catalog



**Ex** ATEX No.: II 1G Ex ia IIC T4  
DEMKO 13 ATEX 1302999X



M-Fire 02 Ex is a professional hand-held flashlight with an ATEX certification, ideal for use in explosion-hazard zones (Zone 0), where the risk of explosion is highest. It emits a 133-lumen light output, providing a beam distance of up to 231 meters, even in dense smoke. Powered by 4 AA batteries, it operates for up to 69 h 10 min. Equipped with a screw to prevent accidental head detachment and a gas release valve, it minimizes risk in explosive atmospheres. The IP67 rating ensures protection against dust and water. A clip and optional mount allow for attachment to clothing and helmets, and optional signaling attachments are available for directing traffic.

# M-FIRE 02 Ex RC

PHH0211RC

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL &amp; GAS, CHEMICALS

ANSI FL1 STANDARD

\* 133 lm

◀ 231 m

POWER SUPPLY	4 × AA / 4 × Energizer Extreme R6			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH	133 lm	6 h	231 m	13 340 cd
LOW	32 lm	69 h 10 min	110 m	-
DIMENSIONS	175 x 42 x 52 mm			
WEIGHT	125 g (without batteries), 219 g (with batteries)			
THE SET INCLUDES	4 × AA batteries, allen keys, clip, handstrap, 4 × Energizer Extreme R6, charger everActive NC-450			

Additional accessories table at the end of the catalog



**Ex** ATEX No.: II 1G Ex ia IIC T4  
DEMKO 13 ATEX 1302999X



M-Fire 02 Ex RC is an advanced hand-held flashlight with ATEX certification, ideal for use in explosion-hazard zones (Zone 0). It emits a 133-lumen light output, providing a beam distance of up to 231 meters, even in dense smoke. Dual Source System (DSS) technology can be powered by rechargeable batteries or standard AA batteries, offering up to 69 hours of operation. The flashlight is IP67-rated, ensuring resistance to dust and water immersion up to 1 meter. It features a screw to prevent accidental head detachment and a gas release valve. The package includes a 230V charger and a clip for mounting on clothing, with optional helmet mounts and signaling attachments available to enhance versatility.

# M-FIRE 03 Ex

PHH0212

**APPLICATIONS:** FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL & GAS, CHEMICALS

ANSI FL1 STANDARD

\* 180 lm

◀ 117 m

<b>POWER SUPPLY</b>	4 x AA			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	180 lm	8 h	117 m	3422 cd
<b>MEDIUM</b>	70 lm	30 h	83 m	1728 cd
<b>FLASHING</b>	-	46 h	-	-
<b>DIMENSIONS</b>	172 x 47 x 47 mm			
<b>WEIGHT</b>	140 g (without batteries), 230 g (with batteries)			
<b>THE SET INCLUDES</b>	4 x AA batteries, clip			

Additional accessories table at the end of the catalog



**Ex** ATEX No.: II 1 G Ex ia IIC T4 IP68 DEMKO 13  
ATEX 1205039X Rev. 3



M-Fire 03 Ex is an advanced hand-held flashlight with ATEX certification, designed for use in explosion-hazard zones (Zone 0). It emits 180 lumens of light output with a beam distance of up to 117 meters, providing bright, focused illumination in challenging conditions. It operates for up to 30 hours on four AA batteries. The flashlight has an IP68 rating, ensuring complete protection against dust and water and resistance to immersion beyond 1 meter. The package includes a clothing clip, and the flashlight is compatible with helmet mounts and signaling attachments, enhancing its versatility.





# ELMO EX

Explosion-Proof  
Light for Mobile  
Operations



# ELMO Ex

PFL0241

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL & GAS, CHEMICALS

ANSI FL1 STANDARD

✳ 1600 lm

POWER SUPPLY	Ni-Mh 10.8V 9Ah built-in rechargeable battery	
CHARGING TIME	7 h (1.8A) / 14 h (0.9A)	
	LIGHT OUTPUT	RUN TIME
HIGH	1600 lm	5 h
LOW	500 lm	10 h
FLASHING	-	7 h
DIMENSIONS	410 x 200 x 230 mm	
WEIGHT	700 g	
THE SET INCLUDES	230V AC charger, 12V DC car charger	

Additional accessories table at the end of the catalog



**Ex** ATEX No.: II 1 G EX IA IIC T4 Ga



Elmo Ex (Explosion-Proof Light for Mobile Operations) floodlight is a compact, intrinsically safe light source with an ATEX certification, designed for Zone 0. It offers a maximum light output of 1600 lm and a wide 125° beam angle. A built-in 9Ah Ni-MH battery provides up to 5 hours of runtime in High mode and 10 hours in Low mode. Equipped with a 90 cm mast and a 360° rotating head, it allows for adequate illumination of larger areas. Weighing only 7 kg, its flashing mode and low battery indicator enhance user safety.

# M-FIRE SL112 Ex

PSL0111

APPLICATIONS: FIREFIGHTING, RESCUE, WORK SAFETY, INDUSTRIAL, OIL & GAS, CHEMICALS

ANSI FL1 STANDARD

✳ 222 lm

◀ 432 m

POWER SUPPLY	Li-Ion 2500 mAh			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH	222 lm	4 h 15 min	432 m	46 664 cd
MEDIUM	69 lm	14 h	270 m	18 228 cd
LOW	11 lm	82 h 10 min	110 m	3028 cd
DIMENSIONS	256 x 136 x 170 mm			
WEIGHT	700 g, 1050 g (product + charger)			
THE SET INCLUDES	shoulder strap, charging base			

Additional accessories table at the end of the catalog



**Ex** ATEX No.: Ex I M1 EX IA I MA / Ex II 1G EX IA  
DP IS IIC T4Ga Sira 17 ATEX 2195X



M-Fire SL112 Ex is an advanced searchlight certified by ATEX for use in explosion-hazard zones (Zone 0). It produces a 222-lumen beam that illuminates areas up to 432 meters away, making it essential for operations in dense smoke and challenging conditions. The flashlight offers three modes, with a runtime of up to 82 hours in Low mode. Its IP54 rating ensures protection against dust and water splashes, making it durable in demanding work environments. The package also includes a shoulder strap for easy carrying.



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# **SIGNAL LIGHTING**





# X-FLARE

Multi-Colored, Quick  
Deploy Warning Disks  
for Hazardous Areas



# X-FLARE

✳️ 12 x LED (30 lm) = 1 disc

PSD012

**APPLICATIONS:** RESCUE, TRANSPORTATION, CONSTRUCTION, ROADWORKS, INDUSTRIAL, UTILITIES, MILITARY, FIREFIGHTING

<b>POWER SUPPLY</b>	6 x Li-Ion 3,7V 3000 mAh
<b>CHARGING TIME</b>	10-12 h
	<b>RUN TIME</b>
<b>PULSE FLASH (WAVE)</b>	15 h
<b>SINGLE BLINK</b>	80 h
<b>SLOW FLASH</b>	30 h
<b>QUICK FLASH</b>	60 h
<b>DOUBLE BLINK SLOW</b>	36 h
<b>DOUBLE BLINK QUICK</b>	38 h
<b>DIMENSIONS</b>	283 x 102 x 358 mm (set)
<b>WEIGHT</b>	2,88 kg (set)
<b>THE SET INCLUDES</b>	6 discs, 230V AC charger, 12V DC car charger, charging case



Additional accessories table at the end of the catalog

- IP67 RATING**
- MAGNET**
- FLOATING**
- CRUSHPROOF**
- SYNCHRO**
- COLORS:**



X-Flare is an advanced set of six rechargeable signaling discs, perfect for various applications, including emergency response, work zone marking, and road safety. These discs feature six lighting modes in three colors (blue, red, and orange) and offer automatic synchronization, allowing immediate deployment. The X-Flare discs are equipped to handle any situation with their water-resistant, dustproof, and impact-resistant casing and ability to float. The X-Flare set comes housed in a durable case that also functions as a charging station, ensuring the discs are always ready for use.

# M-FLARE

✳️ 16 x LED (85 lm) = 1 disc

PSD0012 - PSD0018

**APPLICATIONS:** RESCUE, TRANSPORTATION, CONSTRUCTION, ROADWORKS, INDUSTRIAL, UTILITIES, MILITARY, FIREFIGHTING

<b>POWER SUPPLY</b>	6 x Li-Po 3,7V 750 mA
<b>CHARGING TIME</b>	1-3 discs 2-6 h, 4-6 discs 12-14 h
	<b>RUN TIME</b>
<b>ROTATION</b>	10 h
<b>4 x FLASH, PAUSE</b>	20 h
<b>1 x FLASH, PAUSE</b>	70 h
<b>ALTERNATING FLASHES</b>	10 h
<b>SOS</b>	12 h
<b>CONTINUOUS LIGHT HIGH</b>	5 h
<b>CONTINUOUS LIGHT LOW</b>	30 h
<b>2 LED, CONTINUOUS LIGHT</b>	10 h
<b>4 LED, CONTINUOUS LIGHT</b>	5 h
<b>DIMENSIONS</b>	440 x 66 x 367 mm (set)
<b>WEIGHT</b>	2,81 kg (set)
<b>THE SET INCLUDES</b>	6 discs, 230V AC charger, 12V DC car charger, charging case



Additional accessories table at the end of the catalog

- IP67 RATING**
- MAGNET**
- FLOATING**
- CRUSHPROOF**
- COLORS:**



M-Flare is a reliable set of six signaling discs designed to enhance emergency safety. These discs emit powerful warning lights, visible from 500 meters during the day and 1,000 meters at night, making them indispensable for rescue and safety operations. With crush resistance, waterproof construction (IP67), and the ability to float, M-Flare performs excellently in challenging terrain conditions. Built-in magnets allow for easy attachment to metal surfaces. The M-Flare set is available in 7 color versions: PSD0012 - orange, PSD0013 - green, PSD0014 - blue, PSD0015 - white, PSD0016 - yellow, PSD0017 - red, PSD0018 - IR.



# S-FLARE

✱ 12 x LED [24 lm] = 1 disc

PS00111

**APPLICATIONS:** RESCUE, TRANSPORTATION, CONSTRUCTION, ROADWORKS, INDUSTRIAL, UTILITIES, MILITARY, FIREFIGHTING

<b>POWER SUPPLY</b>	6 x Li-Po 3,7V 800 mA
<b>CHARGING TIME</b>	6-7 h
	<b>RUN TIME</b>
<b>FLASH</b>	13-15 h
<b>FLASH</b>	6-7 h
<b>FLASH - SLOW</b>	8-9 h
<b>SLOW FLASH BLINK</b>	6-7 h
<b>FLASH - QUICK</b>	9-10 h
<b>DIMENSIONS</b>	440 x 66 x 367 mm [set]
<b>WEIGHT</b>	2,42 kg [set]
<b>THE SET INCLUDES</b>	230V AC charger, 12V DC car charger, charging case

Additional accessories table at the end of the catalog



S-Flare is a reliable set of signal discs designed for rescue teams and situations requiring effective area marking. These advanced LED discs emit bright orange light when positioned horizontally and red light when placed vertically, providing visibility up to 800 meters at night and 200 meters during the day. Discs are dust and water-resistant (IP66) and crush-resistant up to 10 tons, ensuring their durability in demanding environments. They float on water and feature built-in magnets for easy attachment. The six discs are stored in a case that also serves as a charging base, ensuring easy transport and readiness for immediate use.

# TRAFFIC CONE

L-NJ01-ROHS

**APPLICATIONS:** ROADWORKS, RESCUE, TRANSPORTATION, ROADSIDE ASSISTANCE, UTILITIES

<b>POWER SUPPLY</b>	2 x AA
<b>DIMENSIONS</b>	305 x 305 x 550 mm
<b>WEIGHT</b>	1682 g
<b>THE SET INCLUDES</b>	case

Additional accessories table at the end of the catalog



Traffic Cone is a compact warning cone designed to ensure maximum safety during roadside emergencies. Equipped with a flashing LED, it provides excellent daytime and nighttime visibility. Powered by two AA batteries, the cone features adjustable height and weather resistance (IP66), making it a reliable tool in any condition. Its compact design and carrying case make the cone easy to transport and ready for use at any moment.

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# **WORK LIGHTS**





# FLEXI BEAM

Versatile Workshop  
Lamp with Rotating  
Head, Hook, and Magnet  
for Industry



# FLEXI BEAM

PWL0081

**APPLICATIONS:** AUTOMOTIVE SERVICES, DETAILING, WORK SAFETY, INDUSTRIAL, CONSTRUCTION, DIY, EDC







ANSI FL1 STANDARD

600 lm

30 m

<b>POWER SUPPLY</b>	Li-Ion 3,7V 3350 mAh			
<b>CHARGING TIME</b>	4 h 30 min (DC 5V 1A Input)			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>FRONT LIGHT</b>	60 lm	14 h	9 m	22 cd
<b>SIDE LIGHT HIGH</b>	600 lm	2 h 30 min	30 m	269 cd
<b>SIDE LIGHT LOW</b>	280 lm	8 h	21 m	124 cd
<b>DIMENSIONS</b>	180 x 38 x 45 mm			
<b>WEIGHT</b>	279 g			
<b>THE SET INCLUDES</b>	Micro USB cord			

Additional accessories table at the end of the catalog

-  **IP64 RATING**
-  **2 m IMPACT RESISTANCE**
-  **BATTERY LEVEL INDICATOR**
-  **HOOK**
-  **MAGNET**
-  **ADJUSTABLE HEAD**



Flexi Beam is a multifunctional workshop lamp that combines powerful illumination and user flexibility. It has a COB LED panel that emits a floodlight up to 600 lumens of light output, along with a precise spotlight (Front Light). The Flexi Beam is designed for versatility. Its adjustable head, strong magnet, and hooks allow it to be easily positioned at various angles and on metal surfaces, making it an ideal tool for reaching difficult spots. Powered by a 3350 mAh Li-Ion battery, it offers long-lasting performance, while its robust IP64-rated construction ensures reliability even in demanding industrial environments. Flexi Beam is perfect for effective diagnostics and repairs, delivering bright and accurate lighting where needed most.

# ROUND BEAM

PWL0071

**APPLICATIONS:** AUTOMOTIVE SERVICES, DETAILING, WORK SAFETY, INDUSTRIAL, CONSTRUCTION, DIY, EDC

ANSI FL1 STANDARD

1000 lm

29 m

<b>POWER SUPPLY</b>	Li-Ion 3,7V 5200 mAh		
<b>CHARGING TIME</b>	4 h 30 min		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>DIMMER</b>	60 lm - 1000 lm	24 h - 1 h 30 min	29 m
<b>DIMENSIONS</b>	258 x 74 x 74 mm		
<b>WEIGHT</b>	470 g		
<b>THE SET INCLUDES</b>	Micro USB cord		

Additional accessories table at the end of the catalog

-  **IP54 RATING**
-  **2 m IMPACT RESISTANCE**
-  **ADVANCED DIMMING SYSTEM**
-  **POWER BANK**
-  **HOOK**
-  **MAGNET**
-  **ADJUSTABLE HEAD**
-  **BATTERY LEVEL INDICATOR**



Round Beam is a versatile workshop lamp that combines powerful lighting with power bank functionality. Equipped with an LED panel that delivers an adjustable light output ranging from 60 to 1000 lumens, the Round Beam provides precise illumination even in hard-to-reach areas. Its built-in 5200 mAh Li-Ion battery allows up to 24 hours of operation on a single charge. Additional features like a strong magnet, hanging hook, and battery level indicator make it the perfect tool for automotive, construction, and industrial professionals.



# DUAL BEAM

PWL0081

APPLICATIONS: AUTOMOTIVE SERVICES, WORK SAFETY, INDUSTRIAL, CONSTRUCTION, DIY, LAW ENFORCEMENT, UNIFORMED SERVICES

ANSI FL1 STANDARD

4500 lm

80 m

POWER SUPPLY	Li-Ion 14,8V 5200 mAh		
CHARGING TIME	3 h 30 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
HIGH	4500 lm	2 h	80 m
MEDIUM	3000 lm	3 h 30 min	68 m
LOW	1500 lm	6 h	50 m
ECO	750 lm	12 h	35 m
DIMENSIONS	288 x 131 x 176 mm		
WEIGHT	1596 (without battery), 2140 g (with battery)		
THE SET INCLUDES	Li-Ion battery, 230V AC charger		

Additional accessories table at the end of the catalog



Dual Beam is a versatile workshop and renovation lamp with a power bank function. Two COB LED panels emit a light output of 4500 lm. The design features movable heads (180 degrees) and a tilting base (90 degrees) for precise light positioning. Powered by a 5200 mAh Li-Ion battery, it operates up to 12 h in Eco mode. Water and dust resistance (IP54) and impact resistance to drops from 2 m ensure its reliability. Optional accessories, such as a 3 m mast and magnetic mount, enhance the lamp's functionality. It is ideal for illuminating work areas in challenging conditions, including workshops, industrial halls, and construction sites.

# SLIM BEAM

PWL0101

APPLICATIONS: AUTOMOTIVE SERVICES, DETAILING, WORK SAFETY, INDUSTRIAL, DIY, EDC

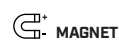
ANSI FL1 STANDARD

800 lm

36 m

POWER SUPPLY	Li-Po 3,7V 4600 mAh			
CHARGING TIME	6 h 30 min			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
TOP LIGHT	55 lm	23 h 30 min	10 m	24 cd
FRONT LIGHT HIGH	800 lm	2 h 30 min	36 m	332 cd
FRONT LIGHT MEDIUM	490 lm	7 h 30 min	27 m	188 cd
FRONT LIGHT LOW	255 lm	12 h	20 m	101 cd
DIMENSIONS	180 x 19 x 54 mm			
WEIGHT	234 g			
THE SET INCLUDES	Micro USB cord			

Additional accessories table at the end of the catalog



Slim Beam is a compact workshop lamp equipped with a COB LED panel and directional Top Light, delivering powerful illumination with a maximum output of 800 lumens. A 4600 mAh Li-Ion battery offers extended operation time - up to 12 hours in Front Light Low mode or 23 hours and 30 minutes in Top Light mode. Slim Beam provides four working modes and adjustable lighting angles, making it versatile for various tasks. Its strong magnet and hook allow easy attachment to different surfaces, while the built-in battery level indicator helps monitor the power status. With aluminum housing, IP66 protection, and impact resistance to drops of up to 2 meters, Slim Beam is the perfect tool for automotive, construction, and industrial professionals.

# DURA TOOL

✱ 110 lm

◀ 15 m

PWL0014

**APPLICATIONS:** AUTOMOTIVE SERVICES, DETAILING, WORK SAFETY, INDUSTRIAL, CONSTRUCTION, DIY, EDC

<b>POWER SUPPLY</b>	Li-Po 3,7V 800 mAh			
<b>CHARGING TIME</b>	4 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	110 lm	2 h 30 min	15 m	145 cd
<b>MEDIUM</b>	55 lm	5 h 30 min	10 m	-
<b>RED</b>	5 lm	6 h	5 m	-
<b>RED FLASHING</b>	-	12 h	-	-
<b>RED SOS</b>	-	18 h	-	-
<b>DIMENSIONS</b>	115 x 25 x 50 mm			
<b>WEIGHT</b>	95 g			
<b>THE SET INCLUDES</b>	USB-C cord			

Additional accessories table at the end of the catalog



Dura Tool is a compact flashlight designed for use in workshops, garages, and other environments requiring precise lighting. Equipped with a COB LED panel, the Dura Tool emits a diffused light output of up to 110 lumens, providing visibility up to 15 meters. With an adjustable head, hook, magnet, and five lighting modes (including SOS and flashing red), it is the perfect tool for mechanics, DIY enthusiasts, and everyday household use. Powered by an 800 mAh lithium-ion battery and rechargeable via USB-C, the Dura Tool is a practical and versatile tool for any workshop or home garage.

# BEEMER 4

✱ 350 lm

◀ 250 m

PWL0021

**APPLICATIONS:** AUTOMOTIVE SERVICES, DETAILING, ELECTRICAL WORK, INDUSTRIAL, UTILITIES

<b>POWER SUPPLY</b>	18650 Li-Ion 3,7 V 2200 mAh		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
	180-350 lm	2 h - 2 h 30 min	250 m
<b>DIMENSIONS</b>	280 x 80 x 220 mm		
<b>WEIGHT</b>	1000 g		
<b>THE SET INCLUDES</b>	case, battery, Micro USB cord, 230V AC charger USB		

Additional accessories table at the end of the catalog



Beemer 4 is an advanced lighting kit designed for mechanics, electricians, plumbers, and industrial workers, combining functionality, durability, and precision. The kit includes a flashlight base, an inspection head with a Focus function, and a 360° workshop head equipped with COB White + UV. With its aluminum housing, IP54 rating, and high-performance Li-Ion battery, Beemer 4 is perfect for detecting micro-leaks and providing precise lighting in workshops and construction sites. The entire set comes in a practical case, making transport and storage easy and convenient.



# SUNSCAN 5.4

\* 2000 lm

\* 2700-6500 K

PWL0051

APPLICATIONS: AUTOMOTIVE SERVICES, DETAILING, PHOTOGRAPHY, INDUSTRIAL

<b>POWER SUPPLY</b>	Li-ion 11,1V 4400 mAh		
<b>CHARGING TIME</b>	3 h 30 min		
	<b>LIGHT OUTPUT</b>	<b>COLOR TEMPERATURE</b>	<b>RUN TIME</b>
<b>HIGH</b>	2000 lm	2700 K / 3500 K / 4500 K / 5500 K / 6500 K	2 h
<b>MEDIUM</b>	1000 lm	2700 K / 3500 K / 4500 K / 5500 K / 6500 K	4 h
<b>LOW</b>	500 lm	2700 K / 3500 K / 4500 K / 5500 K / 6500 K	8 h
<b>DIMENSIONS</b>	220 x 70 x 225 mm		
<b>WEIGHT</b>	1131 g		
<b>THE SET INCLUDES</b>	230 V AC charger		

Additional accessories table at the end of the catalog



Sunscan 5.4 is an advanced LED work light offering three brightness levels (500 lm, 1000 lm, 2000 lm) and adjustable color temperature ranging from 2700K to 6500K. With a high color rendering index (CRI) of 96, the Sunscan 5.4 provides excellent color accuracy, making it an indispensable tool for tasks requiring precision, such as painting, repairs, or technical inspections. The robust housing meets IP65 and IK07 standards, ensuring resistance to harsh working conditions. An optional magnetic mount accessory also allows for stable attachment to metal surfaces, enhancing its versatility.

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# AREA LIGHTING





# **HALO 100K**

**100K Lumens Area Light  
for Extreme Operations**



# HALO 100K

✦ 100 000 lm

PFL0242

**APPLICATIONS:** FIREFIGHTING, RESCUE, LAW ENFORCEMENT, MILITARY, UNIFORMED SERVICES, INDUSTRIAL

<b>POWER SUPPLY</b>	230 V AC
<b>POWER</b>	660 W
<b>LIGHT OUTPUT</b>	10 000 - 100 000 lm
<b>CRI</b>	> 80
<b>COLOR TEMPERATURE</b>	5000 K
<b>OPERATING TEMPERATURE</b>	-15°C - +40°C
<b>LIFESPAN</b>	70,000 h (25°C)
<b>HOUSING</b>	polycarbonate, aluminum, steel
<b>DIMENSIONS</b>	685 x 493,2 x 493,2 mm
<b>WEIGHT</b>	17 kg
<b>THE SET INCLUDES</b>	transport case, 230V AC power adapter with Schuko connectors, controller with dimmers

Additional accessories table at the end of the catalog



HALO 100K is an advanced area lighting system equipped with 24 light panels that generate an impressive light output of up to 100,000 lumens. The light segments can be switched in pairs (180°/360°) using a remote control with dimmers on the control cable, allowing for precise adjustment to meet specific lighting needs. The system also offers multi-stage angle adjustment of the panels (up to 45°). The housing, with IK08 mechanical impact resistance and IP65 protection rating, ensures durability and reliability. HALO 100K is an indispensable solution for law enforcement, rescue teams, construction crews, and all professionals working in challenging and hazardous environments such as deep excavations, tunnels, or disaster-stricken areas.

# LUMILINE 25

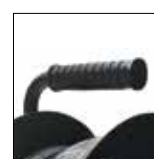
✦ 32 000 lm

PLR0100

**APPLICATIONS:** CONSTRUCTION, INDUSTRIAL, UTILITIES, FIREFIGHTING, RESCUE, LAW ENFORCEMENT, UNIFORMED SERVICES,

<b>POWER SUPPLY</b>	230V AC
<b>POWER</b>	300 W
<b>LIGHT OUTPUT</b>	32000 lm
<b>COLOR TEMPERATURE</b>	4000 K
<b>DIMENSIONS</b>	305 x 200 x 390 mm
<b>LENGTH</b>	25 m
<b>WEIGHT</b>	5 kg
<b>THE SET INCLUDES</b>	-

Additional accessories table at the end of the catalog



LumiLine 25 is a professional LED light rope that provides 25 meters of flexible illumination, powered by AC 230V mains supply. A screw connector located at the end of the LED cord allows for extending by an additional 25 meters. With 180 LEDs per meter and a color temperature of 4000K, the LumiLine 25 delivers powerful, uniform illumination with a color rendering index (CRI) above 90. It is ideal for construction work, technical inspections, and emergency lighting. The design complies with IP65 standards, ensuring resistance to dust and water. The LED rope is wound on a manual reel, making transportation and setup in challenging conditions easy.



# FLEA

\* 6000 lm

◀ 500 m

PFL0240

**APPLICATIONS:** RESCUE, FIREFIGHTING, LAW ENFORCEMENT, MILITARY, UNIFORMED SERVICES, WORK SAFETY, INDUSTRIAL, UTILITIES

<b>POWER SUPPLY</b>	Li-Ion 22.2V 13Ah			
<b>CHARGING TIME</b>	6 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>SPOT+ FLOOD</b>	600 - 6000 lm	6 h 45 min - 50 h 10 min	140 - 500 m	5000 - 62 500 cd
<b>FLOOD</b>	300 - 3150 lm	10 h 10 min - 86 h 20 min	55 - 170 m	850 - 8750 cd
<b>SPOT</b>	250 - 2800 lm	11 h 40 min - 99 h 10 min	120 - 455 m	4500 - 53 750 cd
<b>RED</b>	-	360 h	-	-
<b>RED FLASHING</b>	-	730 h	-	-
<b>ORANGE</b>	-	450 h	-	-
<b>ORANGE FLASHING</b>	-	900 h	-	-
<b>COLOR TEMPERATURE</b>	6000 K			
<b>WORKING TEMPERATURE</b>	-25°C → +40°C			
<b>DIMENSIONS</b>	510 x 290 x 220 mm			
<b>WEIGHT</b>	8,5 kg			
<b>THE SET INCLUDES</b>	230V AC charger, shoulder strap, hexagonal wrench			

Additional accessories table at the end of the catalog



NEW



Flea is a compact area lighting system (6000 lm) with rear signal lights, designed for professional applications. The rear signal lights emit flashing red and orange lights, ensuring effective illumination and safety on construction sites, during rescue operations, and inspections. This advanced system features a durable housing with an IP54 protection rating and an IK08 impact resistance level. The high protection rating, long operating time, and signal lights make this lighting system an indispensable tool for construction teams, rescue units, and uniformed services. With its compact dimensions and mobility, Flea is well-suited for any field conditions.

# TOWER BEAM

\* 12 000 lm

◀ 40 m

PFL0300

**APPLICATIONS:** INDUSTRIAL, CONSTRUCTION, LAW ENFORCEMENT, UNIFORMED SERVICES, RESCUE, WORK SAFETY, ROADWORKS, UTILITIES

<b>POWER SUPPLY</b>	AC 230V / Li-Ion 24,5V, 4 Ah		
<b>POWER</b>	75 W		
<b>CHARGING TIME</b>	3 h 40 min		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
	<b>AC 230V</b>		
<b>ADS</b>	0-12 000 lm	-	-
	<b>Li-Ion 24,5V, 4 Ah</b>		
<b>BOOST</b>	6000 lm	4 h	40 m
<b>HIGH</b>	3500 lm	8 h	20 m
<b>MEDIUM</b>	2200 lm	20 h	10 m
<b>LOW</b>	600 lm	45 h	5 m
<b>DIMENSIONS</b>	1070 x 240 x 300 mm		
<b>WEIGHT</b>	6,3 kg		
<b>THE SET INCLUDES</b>	Li-Ion battery, 230V AC charger, 230V AC driver, anchor pins (10 pcs.), HD transport bag		

Additional accessories table at the end of the catalog



Tower Beam is a portable, battery-powered lighting system for industrial, rescue, and inspection applications. It features two rotatable heads on an adjustable tripod with a height of up to 2.3 m, offering four operating modes and a light range of 40 m in Boost mode. The Hybrid Power Mode allows power from the mains (230V) or a replaceable Li-Ion 24,5V 4Ah battery, which charges in 3 h and 40 m. The Advanced Dimming System allows smooth, light intensity adjustment from 0 to 12,000 lm. The system has an IP66. It includes hanging hooks, a phone stand, and two USB ports with a power bank function. The set has a Li-Ion battery, 230V AC charger, 230V AC driver, anchor pins, and an HD transport bag.

# MONSTER LIGHT MINI

\* 18 000 lm

◀ 150 m

PFL0151-E

APPLICATIONS: INDUSTRIAL, LAW ENFORCEMENT, UNIFORMED SERVICES, FIREFIGHTING, RESCUE

POWER SUPPLY	Lead Acid 12V, 24 Ah	
CHARGING TIME	100-240V AC HIGH - 8 h	
	LIGHT OUTPUT	RUN TIME
BOOST	18 000 lm	1 h 45 min
HIGH	14 400 lm	2 h 22 min
MEDIUM	10 080 lm	2 h 37 min
MEDIUM LOW	7 200 lm	4 h 15 min
LOW	1 440 lm	23 h 15 min
MEDIUM FLASHING	7 200 lm	7 h 45 min
RED LED STAND BY	-	450 h
DIMENSIONS	274 × 243 × 226 mm	
WEIGHT	15,3 kg	
THE SET INCLUDES	1 × head, 1 × telescopic mast, 3 × diffuser, 230V AC charger, case	

Additional accessories table at the end of the catalog



IP66 RATING



BATTERY LEVEL INDICATOR

DIFFUSERS:

FLOOD
 ORANGE
 RED



Monster Light Mini is one of the lightest lighting systems, offering a light output of 18,000 lm in Boost mode. Its compact size and durable carrying case makes it easy to transport. With an IP66 rating, the device operates in six white light modes, including a flashing mode. The Red LED stand-by light allows for an accessible location in the dark. The 24 Ah battery provides up to 23 h of operation in Low mode. The set includes three filters: red, orange, and white (diffusing), as well as a battery level indicator. This spotlight is ideal for industrial use, the energy sector, fire departments, rescue operations, and uniformed services.

# MONSTER LIGHT MIDI

\* 18 000 lm

◀ 150 m

PFL0144-USB

APPLICATIONS: INDUSTRIAL, LAW ENFORCEMENT, UNIFORMED SERVICES, FIREFIGHTING, RESCUE

POWER SUPPLY	Li-Ion 14,8V 54,4 Ah	
CHARGING TIME	6-7 h	
	LIGHT OUTPUT	RUN TIME
BOOST	18 000 lm	4 h
HIGH	14 400 lm	5 h
MEDIUM	10 800 lm	6 h 15 min
MEDIUM LOW	7 200 lm	9 h 15 min
LOW	1 440 lm	49 h
MEDIUM FLASHING	7 200 lm	17 h 30 min
RED LED STAND BY	-	970 h
DIMENSIONS	520 × 410 × 210 mm	
WEIGHT	14,8 kg	
THE SET INCLUDES	battery, 2 × USB, 1 × head, 1 × telescopic mast, 3 × diffuser, 230V AC charger, case	

Additional accessories table at the end of the catalog



IP66 RATING



BATTERY LEVEL INDICATOR



POWER BANK

DIFFUSERS:

FLOOD
 ORANGE
 RED



Monster Light Midi is an advanced lighting system with a maximum light output of 18,000 lm, ideal for industrial use, the energy sector, fire departments, rescue operations, and uniformed services. Seven operating modes, including Red LED Stand By, provide versatility for various applications. The 54.4 Ah battery allows up to 4 h of operation in Boost mode and 49 h in Low mode. The IP66 rating ensures resistance to water and dust. The device also functions as a power bank with two built-in USB ports. An optional harness set allows for easy portability. The set includes diffusing filters, a telescopic mast, a 230V charger, and a carrying case.



# MONSTER LIGHT TWIN

\* 36 000 lm

◀ 150 m

PFL0133-USB

APPLICATIONS: INDUSTRIAL, LAW ENFORCEMENT, UNIFORMED SERVICES, FIREFIGHTING, RESCUE

POWER SUPPLY	Lead-Acid 50 Ah	
CHARGING TIME	100-240V AC HIGH - 8 h	
	LIGHT OUTPUT	RUN TIME
BOOST	2 x 18 000 lm	1 h 45 min
HIGH	2 x 14 400 lm	2 h 25 min
MEDIUM	2 x 10 800 lm	2 h 35 min
MEDIUM LOW	2 x 7 200 lm	4 h 15 min
LOW	2 x 1 440 lm	23 h 15 min
MEDIUM FLASHING	2 x 7 200 lm	7 h 45 min
RED LED STAND BY	-	450 h
DIMENSIONS	620 x 420 x 260 mm	
WEIGHT	34,1 kg	
THE SET INCLUDES	battery, 2 x USB, 2 x head, 2 x telescopic mast, 6 x diffuser, 230V AC charger, case	

Additional accessories table at the end of the catalog

 IP66 RATING

 BATTERY LEVEL INDICATOR

 POWER BANK

DIFFUSERS:

 FLOOD
  ORANGE
  RED


Monster Light Twin is an advanced portable area lighting system designed for professionals who require a reliable and robust light source. Its dual heads produce an impressive maximum light output of 36,000 lumens, enabling adequate illumination of large areas. The device operates in seven modes, including a flashing mode and Red LED Stand By, which aids in locating the searchlight in darkness. Powered by a robust 50 Ah battery, the Monster Light Twin offers continuous operation for up to 23 hours. With durable, IP66-rated housing, additional filters, and a power bank function, this system is versatile for rescue operations, industrial work, and outdoor tasks.

# MONSTER LIGHT 360 SINGLE

\* 24 000 lm

PFL0235

APPLICATIONS: INDUSTRIAL, LAW ENFORCEMENT, UNIFORMED SERVICES, FIREFIGHTING, RESCUE

POWER SUPPLY	Lead-Acid 50 Ah	
CHARGING TIME	6-7 h	
	LIGHT OUTPUT	RUN TIME
BOOST	24 000 lm	2 h 47 min
HIGH	20 000 lm	4 h 10 min
MEDIUM	15 000 lm	6 h 15 min
MEDIUM LOW	10 000 lm	8 h 20 min
LOW	2 000 lm	41 h 40 min
MEDIUM FLASHING	10 000 lm	16 h 40 min
RED LED STAND BY	-	1388 h 54 min
DIMENSIONS	650 x 540 x 300 mm	
WEIGHT	29,85 kg	
THE SET INCLUDES	1 x head, 1 x telescopic mast, 3 x diffuser, 230V AC charger, case	

Additional accessories table at the end of the catalog

 IP66 RATING

 DIFFUSERS:
   
 FLOOD
  ORANGE
  RED


Monster Light 360 Single is ideal for illuminating work areas in industrial settings, rescue operations, and field operations for uniformed services. The system features a three-segment head on a telescopic mast, providing a light output of 24,000 lm in Boost mode. Each segment of the head can be adjusted both vertically and horizontally. The built-in battery offers over 41 h of operation in Low mode. The system provides five steady light modes, a flashing mode, and a red light mode. The 50 Ah battery charges in 6-7 h. The spotlight has an IP66 rating for dust and water resistance. The set includes the head, telescopic mast, diffusers, 230V charger, and a durable carrying case.

# MONSTER LIGHT 360 TWIN

\* 48 000 lm

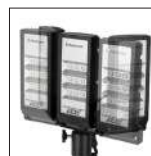
PFL0237

APPLICATIONS: INDUSTRIAL, LAW ENFORCEMENT, UNIFORMED SERVICES, FIREFIGHTING, RESCUE

POWER SUPPLY	Li-Ion 50 Ah	
CHARGING TIME	6-7 h	
	LIGHT OUTPUT	RUN TIME
<b>BOOST</b>	48 000 lm	1 h 23 min
<b>HIGH</b>	40 000 lm	2 h 4 min
<b>MEDIUM</b>	30 000 lm	3 h 8 min
<b>MEDIUM LOW</b>	20 000 lm	4 h 10 min
<b>LOW</b>	4 000 lm	20 h 50 min
<b>MEDIUM FLASHING</b>	2 000 lm	8 h 20 min
<b>RED LED STAND BY</b>	-	694 h 24 min
DIMENSIONS	650 x 540 x 300 mm	
WEIGHT	30,75 kg	
THE SET INCLUDES	2 x head, 2 x telescopic mast, 6 x diffuser, 230V AC charger, case	

Additional accessories table at the end of the catalog

 IP66 RATING

**DIFFUSERS:**  
 FLOOD
  ORANGE
  RED


Monster Light 360 Twin is an advanced portable lighting system designed for uniformed services, rescue operations, and industrial use. It has two three-segment heads on telescopic masts, allowing precise lighting adjustments. In Boost mode, the spotlight generates 48,000 lumens. The built-in 50 Ah battery provides up to 20 h and 50 min of operation in Low mode, with a charging time of 7-8 h. The IP66 rating ensures protection against dust and water. The set includes two heads, two masts, six diffusers, a 230V charger, and a durable carrying case.

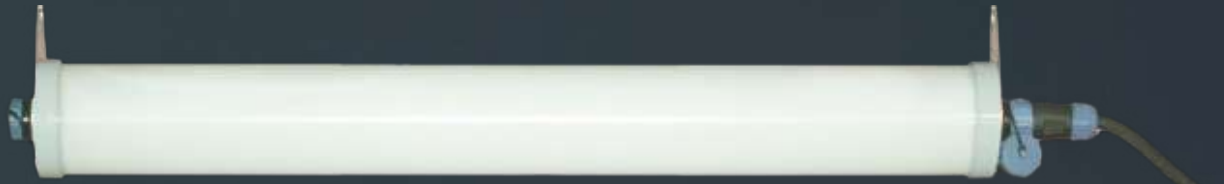


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# TENT LAMPS







# **GALAXY OPL**

**Linkable Shelter Lighting System with Low Aerial Detection Light Options- Blue/White and Red/White**



# GALAXY OPL BLUE

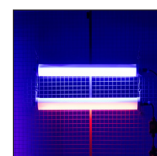
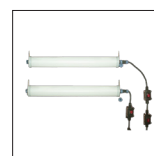
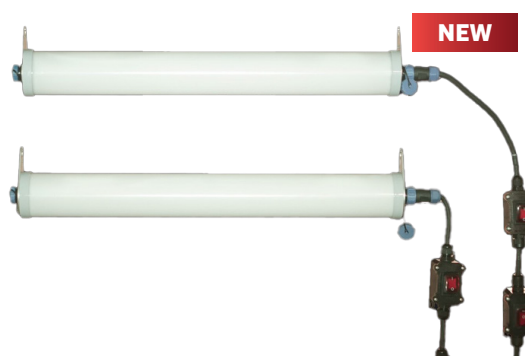
✱ 2500 lm

OPL0011 / OPL0012

APPLICATIONS: MILITARY, AIR DEFENSE, MEDICAL, RESCUE

POWER SUPPLY	230 V AC / 50 Hz
POWER	18 W
LIGHT OUTPUT	WHITE LIGHT: 2500 lm, BLUE LIGHT: 300 lm (450 nm)
CRI	> 80
OPERATING TEMPERATURE	-20°C - +50°C
LIFESPAN	60 000 h
HOUSING	PC
DIMENSIONS	650 x 75 x 115 mm
WEIGHT	910 g
THE SET INCLUDES	OPL0011: 5-meter power cord with Schuko plug, hanging metal string with lamp mounts -> FIRST LAMP IN SERIES OPL0012: hanging metal string with lamp mounts -> NEXT LAMP IN SERIES (up to 10) OPL0010-P2.5: 2,5 m cord for connecting lamps in series

Additional accessories table at the end of the catalog



Galaxy OPL Blue features advanced tent lamps, such as military tents and medical stations, for challenging field conditions. They emit white and blue light, which supports precise technical and medical diagnostics, enhancing the visibility of technical details and injuries in field environments. These lamps resist mechanical damage and high temperatures, ensuring reliability even in extreme conditions thanks to their IP67 waterproof rating and IK10 impact resistance. Connecting them in series allows for efficient lighting of larger areas, making the Galaxy OPL Blue lamps ideal for military units and rescue teams.

# GALAXY OPL RED

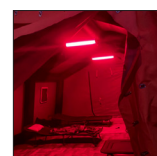
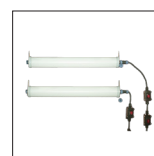
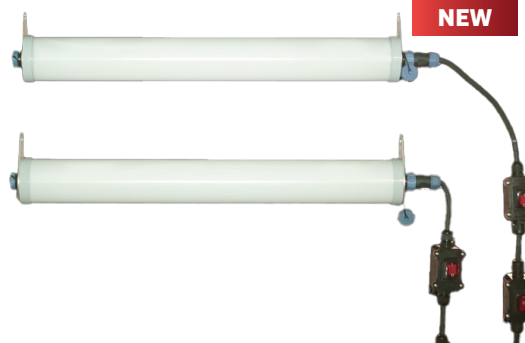
✱ 2500 lm

OPL0013 / OPL0014

APPLICATIONS: MILITARY, AIR DEFENSE, MEDICAL, RESCUE

POWER SUPPLY	230 V AC / 50 Hz
POWER	18 W
LIGHT OUTPUT	WHITE LIGHT: 2500 lm, RED LIGHT: 180 lm (645 nm)
CRI	> 80
OPERATING TEMPERATURE	-20°C - +50°C
LIFESPAN	60 000 h
HOUSING	PC
DIMENSIONS	650 x 75 x 115 mm
WEIGHT	910 g
THE SET INCLUDES	OPL0013: 5-meter power cord with Schuko plug, hanging metal string with lamp mounts -> FIRST LAMP IN SERIES OPL0014: hanging metal string with lamp mounts -> NEXT LAMP IN SERIES (up to 10) OPL0010-P2.5: 2,5 m cord for connecting lamps in series

Additional accessories table at the end of the catalog



Galaxy OPL Red series consists of advanced tent lamps designed for military tents and medical stations. They emit white and red light, which can be adjusted to meet specific operational needs. The red light is ideal for missions where minimizing visibility and preserving night vision are critical, making it highly effective for military operations and air defense. These lamps are resistant to mechanical damage and high temperatures. They ensure long-lasting reliability with an IP67 waterproof rating and IK10 impact resistance. Connecting them in series allows for efficient lighting of larger areas, making the Galaxy OPL Red lamps ideal for military units and rescue teams.



# GALAXY 3.0

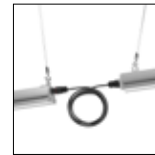
✱ 4500 lm

RDL0011-1, RDL0012-2

APPLICATIONS: MEDICAL, INDUSTRIAL, MILITARY, RESCUE, CAMPING, CONSTRUCTION

POWER SUPPLY	230V AC / 50-60 Hz
POWER	30W
LIGHT OUTPUT	4500 lm
OPERATING TEMPERATURE	-35° C - +50° C
LIFESPAN	80 000 h
HOUSING	aluminum, polycarbonate
DIMENSIONS	308 x 104 x 98,15 mm
WEIGHT	1,40 kg
THE SET INCLUDES	RDL0011-1: 5-meter power cord (230V Euro plug), hanging metal string with lamp mounts -> FIRST LAMP IN SERIES RDL0012-2: hanging metal string with lamp mounts -> NEXT LAMP IN SERIES (up to 10) RDL0010-P2.5-2: 2,5 m cord for connecting lamps in series

Additional accessories table at the end of the catalog



Galaxy 3.0 is a modern tent light designed to illuminate large enclosed spaces, such as tents and halls. It generates a powerful 4500-lumen light output, ensuring excellent illumination. A vital feature of the Galaxy 3.0 is its ability to connect up to 10 lamps in series, allowing flexible lighting adjustments to meet various needs. The model is highly resistant to harsh conditions (IP66, IK10), making it ideal for industrial use, construction sites, military camps, and emergency services. The Galaxy 3.0 is a reliable lighting solution, offering performance and durability in demanding environments.

# GALAXY 3.1

✱ 4500 lm

RDL0111-1, RDL0112-2

APPLICATIONS: MEDICAL, INDUSTRIAL, MILITARY, RESCUE, CAMPING, CONSTRUCTION

POWER SUPPLY	230V AC / 50-60 Hz
POWER	30W
LIGHT OUTPUT	4500 lm
OPERATING TEMPERATURE	-35° C - +50° C
LIFESPAN	80 000 h
HOUSING	aluminum, polycarbonate
DIMENSIONS	308 x 104 x 98,15 mm
WEIGHT	1,49 kg
THE SET INCLUDES	RDL0111-1: 5-meter power cord (230V Euro plug), hanging metal string with lamp mounts -> FIRST LAMP IN SERIES RDL0112-2: hanging metal string with lamp mounts -> NEXT LAMP IN SERIES (up to 10) RDL0010-P2.5-2: 2,5 m cord for connecting lamps in series

Additional accessories table at the end of the catalog



Galaxy 3.1 is an advanced tent lighting system for industrial use, emergency services, medical teams, and military camps. Its system connects up to 10 lamps in series, offering flexible configuration options. Each Galaxy 3.1 lamp is equipped with an individual ON/OFF switch, enabling independent control of each unit in the chain, which helps conserve energy and adapt the lighting to current needs. Emitting a powerful 4500-lumen light output, the Galaxy 3.1 provides intense illumination for large areas. With its high resistance to dust and water (IP66) and exceptional mechanical durability (IK10), this lamp is reliable in demanding work environments.

# GALAXY 3.2

\* 4500 lm

RDL0013-1

APPLICATIONS: MEDICAL, INDUSTRIAL, MILITARY, RESCUE, CAMPING, CONSTRUCTION

POWER SUPPLY	230V AC / 50-60 Hz
POWER	30W
LIGHT OUTPUT	4500 lm
OPERATING TEMPERATURE	-35° C - +50° C
LIFESPAN	80 000 h
HOUSING	aluminum, polycarbonate
DIMENSIONS	308 x 104 x 98,15 mm
WEIGHT	2,23 kg
THE SET INCLUDES	RDL0013-1: 5-meter power/connecting cord and Schuko plug and Schuko socket on the output, hanging metal string with lamp mounts -> FIRST AND/OR NEXT LAMP IN SERIES

Additional accessories table at the end of the catalog



Galaxy 3.2 is a lamp designed for military shelters, evacuation tents, and field hospitals. It emits 4500 lm of white light, perfectly illuminating interiors. The Galaxy system allows for connecting up to 10 lamps, each with an individual switch and a 5 m power cord with Schuko connectors (IP68). The aluminum and polycarbonate housing guarantees the mechanical resistance of IK10, and the IP66 rating protects against dust and strong water jets from any direction. The lamp operates in temperatures ranging from -35°C to +50°C. A 230V AC mains power consumes 30W of power and lasts 80,000 hours.

# GALAXY 3.3

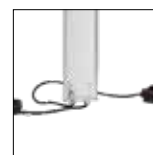
\* 4100 lm

RDL0013-3

APPLICATIONS: MEDICAL, INDUSTRIAL, MILITARY, RESCUE, CAMPING, CONSTRUCTION

POWER SUPPLY	230V AC / 50-60 Hz
POWER	30W
LIGHT OUTPUT	4100 lm
OPERATING TEMPERATURE	-35° C - +50° C
LIFESPAN	80 000 h
HOUSING	aluminum, polycarbonate
DIMENSIONS	308 x 104 x 98,15 mm
WEIGHT	2,55 kg
THE SET INCLUDES	RDL0013-3: 5-meter power/connecting cord and Schuko plug and power back-up, hanging metal string with lamp mounts -> FIRST LAMP IN SERIES (can be connected with RDL0013-1)

Additional accessories table at the end of the catalog



Galaxy 3.3 tent lamp is designed to operate in harsh conditions within military tents, evacuation shelters, and field hospitals. It emits 4100 lm of white light, providing adequate illumination for large interiors. Equipped with a switch and a 5 m power cord with Schuko connectors (IP68), it can operate independently or as part of a system with other Galaxy lamps. The built-in battery ensures over 1 h of operation at 1000 lm in emergency mode. The aluminum and polycarbonate housing guarantees mechanical resistance (IK10) and water & dust resistance (IP66). It operates in temperatures ranging from -35°C to +50°C. Powered by 230V AC, it consumes 30W of power and lasts 80,000 h.



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# **WEAPON MOUNTED LIGHTS**





# HUSSAR GL

High-Performance Tactical  
Handgun Illumination System  
with Green Laser and Swift  
Mount System



# HUSSAR GL

TH60011

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, AIRSOFT, SURVIVAL

☀ 1000 lm

◀ 100 m

<b>POWER SUPPLY</b>	2 x CR123A / 2 x 16340 Li-Ion 700 mAh		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>HIGH</b>	1000 lm	2 h	100 m
<b>MEDIUM</b>	500 lm	4 h	-
<b>STROBE</b>	-	-	-
<b>GREEN LASER (532 nm) - IIIA, &lt; 5mW</b>	-	10 h	500 m
<b>DIMENSIONS</b>	88 x 36 x 40 mm		
<b>WEIGHT</b>	126 g (without battery); 158 g (with battery)		
<b>THE SET INCLUDES</b>	2 x CR123A batteries, hex keys		

Additional accessories table at the end of the catalog



**NEW**



Hussar GL is an advanced tactical flashlight designed for handguns, combining an intense white light output with a maximum output of 1000 lumens and a green laser visible up to 500 meters. Equipped with the Swift Mount System (SMS), this flashlight allows for rapid attachment and detachment, crucial in situations requiring immediate action. The Dual Source System (DSS) enables power from either CR123A batteries or 16340 rechargeable batteries with a capacity of 700 mAh, ensuring extended operational time. The "Momentary Switch" function allows the flashlight to be activated temporarily, which is crucial for tactical operations. Compatible with popular handgun models, Hussar GL also fits holsters from leading manufacturers, making it an ideal choice for law enforcement, special forces, and civilian users. The package includes two CR123A batteries, a hex key for laser adjustment (horizontal and vertical), and a screwdriver for mounting screw adjustments.

# HUSSAR

TH60010

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, AIRSOFT, SURVIVAL

☀ 1000 lm

◀ 100 m

<b>POWER SUPPLY</b>	2 x CR123A / 2 x 16340 Li-Ion 700 mAh		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>HIGH</b>	1000 lm	2 h	100 m
<b>MEDIUM</b>	500 lm	4 h	-
<b>STROBE</b>	-	-	-
<b>DIMENSIONS</b>	90 x 36 x 38 mm		
<b>WEIGHT</b>	114 g (without battery), 146 g (with battery)		
<b>THE SET INCLUDES</b>	2 x CR123A batteries, hex keys		

Additional accessories table at the end of the catalog



**NEW**



Hussar is an advanced tactical flashlight for handguns, emitting an intense white beam with a maximum light output of 1000 lumens. The flashlight is ideal for illuminating a beam distance of up to 100 meters. The Swift Mount System (SMS) allows for quick attachment and detachment across a vast beam distance of firearms without needing tools, which is crucial in situations requiring immediate action. The flashlight offers three modes of operation (High, Medium, and Strobe). The "Momentary Switch" function allows the flashlight to be activated temporarily, which is crucial for tactical operations. With the Dual Source System (DSS), Hussar can be powered by either battery (2 x CR123 - included) or rechargeable (16340 Li-Ion 700 mAh) batteries. The flashlight's design is optimized for compatibility with popular holsters, and its IPX7 rating ensures water resistance, allowing it to withstand submersion. Hussar is indispensable for law enforcement, special units, and civilian users.



# T-FORCE XP

WEAPON MOUNTED LIGHTS  
/GROUP:

ANSI FL1 STANDARD

✱ 2030 lm

◀ 330 m

THH0211

**APPLICATIONS:** MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, HUNTING, AIRSOFT, SURVIVAL

<b>POWER SUPPLY</b>	18650 Li-Ion 3200 mAh / 2 x CR123A					
<b>CHARGING TIME</b>	5 h 30 min					
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>
	Li-Ion 18650 3200 mAh			2 x CR123		
<b>BOOST</b>	2030 lm	3 h 30 min	330 m	27 225 cd	-	-
<b>HIGH</b>	850 lm	3 h 40 min	-	-	-	-
<b>MEDIUM</b>	260 lm	6 h 50 min	-	-	260 lm	2 h 20 min
<b>LOW</b>	65 lm	29 h	-	-	65 lm	9 h 50 min
<b>FIREFLY</b>	0,5 lm	31 days	-	-	0,5 lm	19 dni
<b>STROBE</b>	2030 lm	7 h	-	-	260 lm	3 h 50 min
<b>DIMENSIONS</b>	124 x 23 x 25,4 mm					
<b>WEIGHT</b>	65 g (without battery), 112 g (with battery)					
<b>THE SET INCLUDES</b>	Li-Ion battery, USB magnetic charger, o-ring, handstrap					

Additional accessories table at the end of the catalog



T-Force XP is a tactical flashlight designed for mounting on long guns. It emits a 2030 lm light output, illuminating up to 330 m. It has impact resistance of 2 m and is waterproof (IPX8). It has a main tactical switch at the rear and a mode switch near the head for easy and flexible operation. It is powered by a magnetically rechargeable 18650 Li-Ion 3200 mAh battery or two CR123A batteries. The flashlight is mounted on the weapon using M-Lok or Picatinny systems, which are available as an option. Optional accessories include a remote pressure switch for instant response and precise control, RGB filters, and a signal cone. The flashlight is designed for law enforcement, rescue teams, and sports shooters.

# MCT-3

WEAPON MOUNTED LIGHTS  
/GROUP:

ANSI FL1 STANDARD

✱ 700 lm

◀ 170 m

THH0151.1

**APPLICATIONS:** MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, SURVIVAL, HUNTING, EDC

<b>POWER SUPPLY</b>	2 x CR123 / 1 x 18650 Li-Ion		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>HIGH</b>	700 lm	45 min	170 m
<b>DIMENSIONS</b>	129 x 25,3 x 32,4 mm		
<b>WEIGHT</b>	95 g (without batteries), 130 (with batteries)		
<b>THE SET INCLUDES</b>	classc switch, remote pressure switch		

Additional accessories table at the end of the catalog



MCT-3 is an advanced tactical lighting system for counter-terrorism units, police, and military groups. It is compatible with the PM-98 Glauberyt pistol. It has a remote pressure switch and a standard switch, so it can also be used as a handheld flashlight. It has an IPX8 waterproof rating. Powered by CR123A batteries or a 18650 Li-Ion battery, it is made from anodized aluminum, ensuring reliability in harsh conditions. Ideal for military, special forces, and patrol units, it is also suitable for airsoft activities, shooting training, and as an EDC flashlight. It provides intense light, supporting both professional and everyday activities.

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# HEADLAMPS & HELMET LIGHTING





# STORM 1LP

Low Profile  
Helmet-Mounted  
Lighting System





# STORM 1LP

THL0051

APPLICATIONS: MILITARY, LAW ENFORCEMENT, RESCUE

ANSI FL1 STANDARD

90 lm

40 m



POWER SUPPLY	2 x CR123A			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH (WHITE)	90 lm	8 h 45 min	40 m	401 cd
MEDIUM (WHITE)	50 lm	17 h 30 min	29 m	206 cd
LOW (WHITE)	10 lm	80 h	13 m	43 cd
STROBE 1 (BEACON)	1 Hz - up to 95 h (WHITE/RED/GREEN/BLUE/IR)			
STROBE 2	1 Hz - up to 50 h (WHITE/RED/GREEN/BLUE/IR)			
RED	625 nm			
GREEN	525 nm			
BLUE	465 nm			
IR	880 nm			
DIMENSIONS	133 x 31,71 x 54,55 mm			
WEIGHT	101 g (without batteries), 136 g (with batteries)			
THE SET INCLUDES	2 x CR123A batteries, paracord			

Additional accessories table at the end of the catalog



45° ADJUSTABLE LIGHT HEAD IN TWO DIRECTIONS



Storm 1LP is a helmet lighting system designed for military, police, and special forces, combining the functions of a tactical light and an IFF IR + RGB beacon. It is ideal for operations requiring enhanced light discipline, night training, evacuations, and battlefield medicine. It features two light sources: a rear-diffused RGB + IR and a front-directional RGB + IR + white light with angle adjustment. It emits a 90 lm light output up to 40 m. It has an IP68 waterproof rating and has impact resistance from 2 m. The rotary switches with a lock are easy to operate with gloves. It mounts on a helmet using the ARC rail or hook & loop. It meets MIL-STD 810H military standards.

# NOMAD 03

THL0022MN

APPLICATIONS: MILITARY, HUNTING, SCOUTING, OUTDOOR, SURVIVAL, RESCUE

340 lm

120 m

POWER SUPPLY	3 x AAA		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
HIGH	340 lm	40 h	120 m
MEDIUM	-	75 h	-
LOW	-	130 h	-
ECO	-	250 h	-
RED LED HIGH	-	150 h	-
RED LED SOS	-	200 h	-
DIMENSIONS	60 x 38 x 40 mm		
WEIGHT	75 g (without batteries), 108 g (with batteries)		
THE SET INCLUDES	3 x AAA batteries, RGB filters, diffuser, NVG mount, headband		

Additional accessories table at the end of the catalog



RED LED



Nomad 03 is an advanced headlamp that emits 340 lm of white light. It also features a red LED for light discipline situations and SOS signaling. Powered by 3 x AAA batteries, it can run for over ten days in Eco ["survival"] mode. It has an IP64 dustproof and waterproof rating and has impact resistance to drops from 1 m. Equipped with a diffuser and three color filters (RGB), it can be mounted on a helmet using Molle straps or NVG mounts. The silicone-coated headband ensures stability on both the head and helmet. Optional accessories include a battery level indicator, last-setting memory, and a switch lock. Ideal for law enforcement, hunters, and outdoor enthusiasts.



# SIRIUS H12

✱ 1200 lm

◀ 115 m

AHL0172

APPLICATIONS: BUSHCRAFT, SURVIVAL, HIKING, TREKKING, URBEX, CAMPING, EDC, DIY

<b>POWER SUPPLY</b>	18650 Li-Ion 3,7V 3000 mAh			
<b>CHARGING TIME</b>	4 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	1200 lm	2 h 30 min	115 m	3306 cd
<b>MEDIUM</b>	256 lm	5 h 10 min	52 m	676 cd
<b>LOW</b>	86 lm	28 h	31 m	240 cd
<b>FIREFLY</b>	3 lm	400 h	1,5 m	0,6 cd
<b>STROBE</b>	1200 lm	-	-	-
<b>DIMENSIONS</b>	84 x 21 x 30 mm			
<b>WEIGHT</b>	36 g (without battery), 83 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, USB magnetic cord, handstrap, o-rings, headband, clip			

Additional accessories table at the end of the catalog



Sirius H12 is a versatile flashlight that combines the functions of a lightweight headlamp, a compact EDC flashlight, and an angled camping lamp. It emits a powerful light up to 1200 lm, providing illumination up to 115 m. The flashlight weighs only 83 g with the battery. It features a magnetic charger, a battery level indicator, and a magnet in the base for convenient use. The IP68 rating ensures it is dustproof and waterproof. Additionally, it has an impact resistance of 1 m. A headband allows the handheld flashlight to be transformed into a headlamp. Sirius H12 is ideal for survival, garage work, urban exploration, airsoft, and everyday use.

# CYCLOPE II

✱ 600 lm

◀ 90 m

THL0131

APPLICATIONS: HUNTING, EDC, BUSHCRAFT

<b>POWER SUPPLY</b>	16340 Li-Ion 700 mAh / CR123A		
<b>CHARGING TIME</b>	2 h		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
<b>BOOST</b>	600 lm	40 s	90 m
<b>HIGH</b>	240 lm	1 h 44 min	56 m
<b>LOW</b>	10 lm	5 h 4 min	11 m
<b>STROBE</b>	600 lm	2 h	90 m
<b>DIMENSIONS</b>	72,5 x 20 x 30,5 mm		
<b>WEIGHT</b>	57 g (without battery), 62 g (with battery)		
<b>THE SET INCLUDES</b>	Li-Ion battery, USB magnetic charger, headband, clip, tailcap		

Additional accessories table at the end of the catalog



Cyclope II is a versatile EDC flashlight for bushcraft, outdoor activities, camping, airsoft, hunting, and survival enthusiasts. The 600-lumen light output provides bright, intense illumination, perfect for hiking in dense forests. The flashlight operates in three constant modes and a Strobe mode. A practical clip allows for attaching the flashlight to a pocket or gear. The headband and cap visor clip offer convenient carrying options. The durable housing ensures resistance to damage and has an IPX4 waterproof rating. The flashlight has a 16340 Li-Ion battery (700mAh) and a magnetic charging cord. Alternatively, it can be powered by a CR123A battery.

# CAMO II

AHL015

APPLICATIONS: OUTDOOR, CAMPING, EDC, HUNTING, INDUSTRY, UTILITIES

POWER SUPPLY	3 x AA			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
<b>FRONT WHITE LIGHT</b>				
<b>HIGH</b>	490 lm	4 h	150 m	5380 cd
<b>MEDIUM</b>	200 lm	17 h	90 m	2170 cd
<b>LOW</b>	30 lm	64 h	34 m	310 cd
<b>8 Hz FLASHING</b>	-	28 h	-	-
<b>REAR RED LIGHT</b>				
<b>CONSTANT</b>	-	130 h	-	-
<b>FLASHING</b>	-	365 h	-	-
<b>DIMENSIONS</b>	73 x 54 x 40 mm / 82 x 31 x 52 mm			
<b>WEIGHT</b>	145 g (without batteries), 215 g (with batteries)			
<b>THE SET INCLUDES</b>	3 x AA batteries, headband			

Additional accessories table at the end of the catalog



ANSI FL1 STANDARD \* 490 lm ◀ 150 m



Camo II is a rugged headlamp designed to meet the demands of users requiring reliable lighting in challenging terrains. It offers an adjustable light beam (focus function) with a maximum light output of 490 lumens, allowing precise control of the beam width and intensity according to the user's needs. Equipped with three working modes and powered by three AA batteries, it provides up to 64 hours of operation in energy-saving mode. Red signal LEDs on the battery pack enhance visibility during nighttime activities. With resistance to moisture, mud, and dust (IP64) and impact resistance to drops from up to 2 meters, Camo II is ideal for hunting, bushcraft, and trekking.

# TUNDRA

THL011

APPLICATIONS: EDC, HUNTING, OUTDOOR, BUSHCRAFT

POWER SUPPLY	1 x AA (LR6)			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
<b>COOL WHITE</b>	max 215 lm min 15 lm	max 22 h min 3 h	max 94 m min 24 m	max 2230 cd min 150 cd
<b>GREEN</b>	max 24 lm min 5 lm	max 76 h min 19 h	max 18 m min 8 m	max 84 cd min 20 cd
<b>RED</b>	max 15 lm min 2 lm	max 56 h min 16 h	max 11 m min 8 m	max 34 cd min 6 cd
<b>DIMENSIONS</b>	60 x 38 x 30 mm			
<b>WEIGHT</b>	31 g (without battery), 73 g (with battery)			
<b>THE SET INCLUDES</b>	1 x AA battery, clip, headband			

Additional accessories table at the end of the catalog



ANSI FL1 STANDARD \* 215 lm ◀ 94 m



Tundra is a compact headlamp designed for bushcraft, outdoor enthusiasts, camping, hiking, trekking, hunting, and everyday carry (EDC). It offers three light colors: white (215 lm) for camping and meal preparation, green for approaching the game without scaring it, and red, perfect for navigation and reading maps in the dark. Smooth brightness adjustment and last-setting memory make it easy to use, while the electronic lock prevents accidental activation. Its IPX4 rating provides water resistance, and its 1-meter impact resistance to drops ensures durability. Powered by a single AA battery, it guarantees reliability during long adventures.



# BLAZER

AHL0111

APPLICATIONS: EDC, DIY, HIKING, CAMPING

<b>POWER SUPPLY</b>	1 x AA			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>COOL WHITE</b>	max 215 lm min 15 lm	max 22 h min 3 h	max 94 m min 24 m	max 2230 cd min 150 cd
<b>WARM WHITE</b>	max 58 lm min 6 lm	max 51 h min 17 h	max 26 m min 8 m	max 175 cd min 19 cd
<b>RED</b>	max 15 lm min 2 lm	max 56 h min 16 h	max 11 m min 5 m	max 34 cd min 6 cd
<b>DIMENSIONS</b>	60 x 38 x 30 mm			
<b>WEIGHT</b>	31 g (without battery), 73 g (with battery)			
<b>THE SET INCLUDES</b>	1 x AA battery, clip, headband			

Additional accessories table at the end of the catalog



ANSI FL1 STANDARD

☀ 215 lm

◀ 94 m



Blazer is a versatile headlamp designed for both indoor and outdoor use. It offers three types of lighting: cool white (215 lm), warm white (58 lm), and red (15 lm), making it perfect for activities like fishing, camping, and working in the dark. Powered by a single AA battery, it can run for up to 56 hours in red light mode. The headlamp features smooth brightness adjustment and a last-setting memory function that recalls the last used mode. Weighing just 73 grams, the Blazer has an IPX4 rating, protecting it from water splashes. The package includes an AA battery and a clip for easy attachment to a cap.

# BASE CAMP

AHL0112

APPLICATIONS: OUTDOOR, HIKING, TREKKING, SCOUTING, CAMPING

<b>POWER SUPPLY</b>	3 x AAA / Li-Po 3,7V 800 mAh		
<b>CHARGING TIME</b>	2 h 30 min		
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>
	<b>3 x AAA</b>		
<b>COOL WHITE</b>	max 360 lm - min 22 lm	max 54 h - min 5 h 45 min	max 155 m - min 38 m
<b>WARM WHITE</b>	max 50 lm - min 3 lm	max 287 h - min 38 h	max 25 m - min 7 m
<b>RED</b>	max 17 lm - min 1 lm	max 180 h - min 35 h	max 12 m - min 2 m
	<b>Li-Po 3,7V 800 mAh</b>		
<b>COOL WHITE</b>	max 335 lm - min 19 lm	max 21 h - min 3 h 45 min	max 149 m - min 35 m
<b>WARM WHITE</b>	max 40 lm - min 2 lm	max 131 h - min 30 h	max 23 m - min 3 m
<b>RED</b>	max 15 lm - min 1 lm	max 100 h - min 22 h	max 11 m - min 2 m
<b>DIMENSIONS</b>	59 x 36 x 48 mm		
<b>WEIGHT</b>	43 g (without batteries), 85 g (with batteries)		
<b>THE SET INCLUDES</b>	Li-Po battery, Micro USB cord, headband		

Additional accessories table at the end of the catalog



ANSI FL1 STANDARD

☀ 360 lm

◀ 155 m



Base Camp is a robust headlamp designed for outdoor adventure enthusiasts. It features a primary LED with up to 360 lumens output and additional warm and red light options. With Dual Source System technology, the headlamp can be powered by a rechargeable battery via Micro USB or three AAA batteries, providing flexibility in power options. Smooth brightness adjustment allows precise light intensity control, and its lightweight, ergonomic design ensures user comfort. Water-resistant (IPX4) and impact-resistant to drops from up to 1 meter, the Base Camp is a durable choice for trekking, camping, or DIY tasks.

# VIZO

AHL0021

APPLICATIONS: EDC, TREKKING, DIY, OUTDOOR

ANSI FL1 STANDARD

636 lm

100 m

POWER SUPPLY	3 x 1,5V AA			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST	636 lm	60 sek	100 m	2369 cd
HIGH	400 lm	12 h 45 min	72 m	1314 cd
MEDIUM	200 lm	19 h 30 min	52 m	685 cd
LOW	20 lm	110 h	17 m	76 cd
REAR RED LED HIGH	-	250 h	-	-
REAR RED LED FLASHING	-	300 h	-	-
DIMENSIONS	71 x 34 x 32 mm / 76 x 34 x 60 mm			
WEIGHT	204 g			
THE SET INCLUDES	3 x AA batteries, extension cord, headband			

Additional accessories table at the end of the catalog



Vizo is a durable headlamp designed for active users, offering 636 lumens in Boost mode, making it ideal for challenging routes. Equipped with a lens that provides a wide beam angle, it excels during orienteering, trekking, and geocaching. Powered by three AA batteries, it can run up to 110 hours in economy mode, making it reliable for long expeditions. It has an IP64 protection rating, ensuring resistance to dust, water, and drops from 2 meters. The rear battery compartment is equipped with a red signal light, enhancing visibility at night. Perfect for ultramarathons and urban exploration.

# VIZO RC

AHL0022

APPLICATIONS: TREKKING, RUNNING, OUTDOOR, CAMPING, WORK SAFETY, INDUSTRY, ENERGY

ANSI FL1 STANDARD

735 lm

100 m

POWER SUPPLY	18650 Li-Ion 3,7V 2600 mAh			
CHARGING TIME	4 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST	735 lm	60 sek	100 m	2386 cd
HIGH	400 lm	13 h 25 min	69 m	1206 cd
MEDIUM	200 lm	22 h 35 min	49 m	590 cd
LOW	20 lm	84 h 55 min	17 m	70 cd
REAR RED LED HIGH	-	40 h	-	-
REAR RED LED 2 Hz FLASHING	-	115 h	-	-
DIMENSIONS	71 x 34 x 32 mm / 102 x 35 x 38 mm			
WEIGHT	141 g (without battery), 190 g (with battery)			
THE SET INCLUDES	Li-Ion battery, Micro USB cord, extension cord, headband			

Additional accessories table at the end of the catalog



Vizo RC is an advanced headlamp for demanding users, offering up to 735 lumens with a uniform, elliptical beam, perfect for precisely illuminating broad areas. The headlamp features four operating modes and is powered by a 2600 mAh Li-Ion battery that can be conveniently carried on a belt or in a backpack using the included extension cord. Equipped with a red signal light, it enhances visibility during nighttime activities. With an IP64 rating and 2-meter impact resistance to drops, the Vizo RC is well-suited for rugged terrain. Its 100-meter beam distance makes it ideal for long hikes, mountain expeditions, and urban exploration.



# MAVERICK

AHL0093

APPLICATIONS: EDC, OUTDOOR, HIKING, TREKKING, WORK SAFETY, INDUSTRY, ENERGY

<b>POWER SUPPLY</b>	Li-Po 3,7V 800 mAh / 3 x AAA			
<b>CHARGING TIME</b>	2 h 30 min			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b> (Li-Po)	530 lm	2 h 30 min	170 m	7236 cd
<b>MEDIUM</b> (Li-Po)	240 lm	5 h 50 min	115 m	3386 cd
<b>LOW</b> (Li-Po)	30 lm	22 h 30 min	40 m	400 cd
<b>FLASHING 2 Hz</b> (Li-Po)	-	1 h 30 min	-	-
<b>HIGH</b> (3 x AAA)	595 lm	2 h 30 min	170 m	7295 cd
<b>MEDIUM</b> (3 x AAA)	275 lm	6 h	110 m	3145 cd
<b>LOW</b> (3 x AAA)	35 lm	35 h	40 m	415 cd
<b>FLASHING 2 Hz</b> (3 x AAA)	-	1 h 30 min	-	-
<b>DIMENSIONS</b>	62 x 45 x 46 mm			
<b>WEIGHT</b>	88 g (without battery), 109 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Po battery, USB-C cord, headband			

Additional accessories table at the end of the catalog



Maverick headlamp delivers 595 lumens of light and offers four modes, allowing you to adjust brightness for various needs. It features an adjustable focus and a motion sensor for automatic activation. The light beam reaches up to 170 meters, with 2 hours and 30 minutes running in High mode. The headlamp can be powered by a USB-C rechargeable battery or three AAA batteries. An IP64 rating protects it against dust and water splashes, and its 2-meter impact resistance to drops enhances durability. This versatile tool is ideal for outdoor activities, DIY projects, and everyday use.

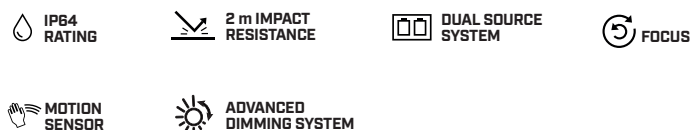
# MAVERICK WHITE PEAK

AHL0052

APPLICATIONS: DIY, CAMPING, FISHING, OUTDOOR

<b>POWER SUPPLY</b>	3 x AAA / Li-Po 3,7V 800 mAh			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	320 lm	5 h 30 min	150 m	5784 cd
<b>MEDIUM</b>	145 lm	13 h	100 m	2574 cd
<b>LOW</b>	18 lm	60 h	35 m	311 cd
<b>FLASHING</b>	-	3 h	-	-
<b>DIMENSIONS</b>	62 x 45 x 46 mm			
<b>WEIGHT</b>	73 g (without batteries), 108 g (with batteries)			
<b>THE SET INCLUDES</b>	3 x AAA batteries, headband			

Additional accessories table at the end of the catalog



Maverick White Peak is a versatile headlamp featuring focus adjustment and a motion sensor. It operates in four modes, allowing users to adapt the light beam to changing conditions and individual needs. It delivers up to 320 lumens of light output at its highest setting. Powered by three AAA batteries, it offers an extended runtime of up to 60 hours. The headlamp's body is constructed from impact-resistant material, and its dust and water resistance is certified by an IP64 rating. Additionally, it can be powered by an optional Li-Po rechargeable battery, providing flexibility in power sources.





# ILLUMA

Lightweight  
Rechargeable  
Headlamp for Every  
Adventure





# ILLUMA

AHL0081

APPLICATIONS: OUTDOOR, HIKING, TREKKING, JOGGING

ANSI FL1 STANDARD

✱ 430 lm

◀ 130 m

POWER SUPPLY	Li-Po 3,7V 600 mAh			
CHARGING TIME	3 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
COOL WHITE LED	430 lm - 49 lm	2 h - 8 h	130 m - 44 m	477 cd - 4215 cd
WARM WHITE LED	195 lm - 23 lm	3 h 15 min - 10 h	72 m - 24 m	146 cd - 1290 cd
RED SMD LED	14 lm - 2 lm	12 h - 40 h	23 m - 8 m	15 cd - 137 cd
DIMENSIONS	41 x 32 x 35 mm			
WEIGHT	36 g			
THE SET INCLUDES	USB-C cord, clip, headband			

Additional accessories table at the end of the catalog



Illuma headlamp offers three light modes: neutral white (430 lm), warm (195 lm), and red, with smooth beam adjustment for precise lighting control. Powered by a built-in 600 mAh Li-Po battery, it charges via USB-C and provides up to 3 hours of operation. With an IPX4 rating for rain protection and 1-meter drop resistance, it's built for durability. The headlamp features a switch lock function, last setting memory, and a battery level indicator. Equipped with an adjustable strap with reflective elements and silicone lining, it stays securely on a helmet or head, while a mounting clip allows attachment to a cap or workwear.

# REBEL

AHL0061

APPLICATIONS: INDUSTRIAL, WORK SAFETY, DIY, EDC

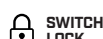
ANSI FL1 STANDARD

✱ 400 lm

◀ 33 m

POWER SUPPLY	Li-Po 600 mAh			
CHARGING TIME	2 h 30 min - 3 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	
HIGH	CW+WW	400 lm	2 h	33 m
	COOL WHITE	230 lm	3 h 45 min	24 m
	WARM WHITE	204 lm	3 h 45 min	24 m
	RED	14 lm	5 h 15 min	5 m
LOW	CW+WW	40 lm	7 h 30 min	10 m
	COOL WHITE	22 lm	13 h	6 m
	WARM WHITE	20 lm	13 h	6 m
	RED	1 lm	36 h 30 min	2 m
FLASHING RED	-	-	-	
SOS RED	-	-	-	
DIMENSIONS	40,9 x 29,9 x 34,5 mm			
WEIGHT	46 g			
THE SET INCLUDES	battery, Micro USB cord, clip, headband			

Additional accessories table at the end of the catalog



Rebel is a rechargeable headlamp designed for professionals who need a robust yet lightweight light source. Weighing only 46 g, it emits a diffused light of up to 400 lumens with a range of up to 33 meters. Rebel offers cold white, warm white, and red light in steady and flashing modes. The Advanced Dimming System allows smooth brightness adjustment. The headlamp is arc-resistant, making it safe for use in high-voltage environments. It features a switch lock function, last setting memory, battery level indicator, and accessories for mounting on a helmet, hard hat, or cap.

# ULTIMO

PHL0011

APPLICATIONS: INDUSTRIAL, WORKSHOP & DIY, CONSTRUCTION

ANSI FL1 STANDARD

300 lm

140 m

POWER SUPPLY	Li-Ion 3,7V 2000 mAh		
CHARGING	4 h		
	LIGHT OUTPUT	RUNTIME	BEAM DISTANCE
HIGH	300 lm	5 h 30 min	140 m
MEDIUM	150 lm	14 h	95 m
LOW	50 lm	30 h	55 m
STROBE	-	20 h	-
RED LED HIGH	130 lm	65 h	8 m
RED LED FLASHING	-	280 h	-
REAR RED LED HIGH	-	30 h	-
REAR RED LED FLASHING	-	60 h	-
DIMENSIONS	82 x 35 x 40 mm / 85 x 51,5 x 49 mm		
WEIGHT	66 g (without battery), 172 g (with battery)		
THE SET INCLUDES	Micro USB cord, additional cord, 4 clips, 3M mount, holster		

Additional accessories table at the end of the catalog



Ultimo is a durable headlamp designed for challenging industrial environments. It offers a maximum light output of 300 lumens and a beam distance of up to 140 meters, ensuring precise illumination. The headlamp features front and rear red lights, enhancing safety in emergencies. Powered by a rechargeable battery via Micro USB, it provides up to 280 hours of runtime on a single charge. Ultimo includes various features and accessories, such as helmet mounting options and a battery level indicator. It is a reliable tool for construction workers, maintenance teams, and service technicians.

# SUNSCAN 5.3

PHL0031

APPLICATIONS: AUTOMOTIVE SERVICES, DETAILING, CONSERVATION, DIY, TATTOOING, INDUSTRIAL, OUTDOOR, CAVING, BUSHCRAFT

300 lm

123 m

POWER SUPPLY	Li-Po 3.7V 800 mAh / 3 x 1.5V AAA		
CHARGING TIME	2 h 30 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
	MAIN LED		
HIGH	300 lm	2 h 30 min	123 m
MEDIUM	152 lm	5 h 42 min	85 m
LOW	33 lm	18 h 42 min	38 m
	AUXILIARY LED		
HIGH	54 lm	9 h 36 min	15 m
FLASHING 2 Hz	54 lm	20 h	15 m
DIMENSIONS	62 x 41 x 43 mm		
WEIGHT	92 g (without battery), 112 g (with battery)		
THE SET INCLUDES	Li-Po battery, Micro USB cord		

Additional accessories table at the end of the catalog



Sunscan 5.3 is a headlamp that combines a Focus function for precise beam adjustment with a Dual Source System, allowing it to be powered by either a rechargeable or AAA battery. With a high Color Rendering Index [CRI 90], the Sunscan 5.3 accurately reproduces colors, making it essential for industries like detailing, painting, and tattoo studios. The headlamp offers a beam distance of up to 123 meters, and its durable IP64-rated construction ensures reliability and longevity in demanding work environments, including industrial settings and outdoor activities.



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# BIKE LIGHTS

# SCREAM 3.1

ABF0167

APPLICATIONS: GRAVEL BIKING, COMMUTING, BIKE TOURING

ANSI FL1 STANDARD

\* 1000 lm

◀ 160 m

<b>POWER SUPPLY</b>	18650 Li-Ion 3400 mAh			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>BOOST</b>	1000 lm	2 h 50 min	160 m	8412 cd
<b>HIGH</b>	350 lm	5 h	-	-
<b>MEDIUM</b>	150 lm	12 h	-	-
<b>LOW</b>	40 lm	40 h	-	-
<b>STROBE</b>	900 lm	4 h 15 min	-	-
<b>DIMENSIONS</b>	111 x 26 x 29 mm			
<b>WEIGHT</b>	89 g (without battery), 135 g (with battery)			
<b>THE SET INCLUDES</b>	Li-Ion battery, USB-C cord, handlebar mount			

Additional accessories table at the end of the catalog



IP66 RATING



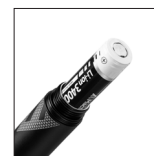
1,5 m IMPACT RESISTANCE



USB-C CHARGING



BATTERY LEVEL INDICATOR



Scream 3.1 is a front bike light offering an impressive light output of up to 1000 lumens, perfect for city rides and demanding gravel and MTB trails. Five lighting modes, including pulse modes, allow you to adjust the light to your needs. Powered by a replaceable 18650 Li-Ion battery (3400 mAh), it provides extended runtime and can be charged during use via a USB-C port. Its sturdy housing meets IP66 standards, ensuring total resistance to dust, water, and impact resistance to drops from 1.5 meters. The Scream 3.1 features a battery indicator and can be mounted under navigation devices with an optional bracket.

# SCREAM 3.3

ABF0171

APPLICATIONS: COMMUTING, ROAD CYCLING

ANSI FL1 STANDARD

\* 600 lm

◀ 180 m

<b>POWER SUPPLY</b>	3 x AAA			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	600 lm	2 h	180 m	8836 cd
<b>MEDIUM</b>	300 lm	5 h	132 m	4327 cd
<b>LOW</b>	70 lm	22 h	64 m	1014 cd
<b>FLASHING</b>	300 lm	6 h	-	-
<b>STROBE</b>	300 lm	6 h	-	-
<b>DIMENSIONS</b>	105 x 33 x 27,5 mm			
<b>WEIGHT</b>	126 g			
<b>THE SET INCLUDES</b>	3 x AAA batteries, handlebar mount			

Additional accessories table at the end of the catalog



IP66 RATING



2 m IMPACT RESISTANCE



BATTERY LEVEL INDICATOR



FOCUS



Scream 3.3 is a bike headlight designed for city cyclists and bike tourists. Offering a maximum light output of 600 lumens, it performs exceptionally well in urban environments and during evening cycling trips. Powered by three AAA batteries, it provides up to 22 hours of continuous operation. The aerospace-grade aluminum housing is dustproof, waterproof (IP66), and impact-resistant to drops from heights up to 2 meters. With an adjustable light beam (focus), riders can tailor the illumination to suit their needs, especially in challenging conditions. Mounted on the handlebars via a clamp band, it ensures stability on rough roads, making it an excellent solution for daily commutes and long cycling trips.



# HIGHLINE

ABFD166

APPLICATIONS: GRAVEL BIKING, COMMUTING, BIKE TOURING

<b>POWER SUPPLY</b>	Li-Ion 2600 mAh			
<b>CHARGING TIME</b>	4 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
<b>HIGH</b>	1000 lm	1 h 30 min	155 m	6410,8 cd
<b>MEDIUM</b>	400 lm	3 h	108 m	3000 cd
<b>LOW</b>	200 lm	6 h	80 m	1500 cd
<b>DAY FLASHING</b>	200 lm	12 h	-	-
<b>NIGHT FLASHING</b>	600 lm	10 h	-	-
<b>DIMENSIONS</b>	98,5 x 31 x 31 mm			
<b>WEIGHT</b>	145 g			
<b>THE SET INCLUDES</b>	USB-C cord, handlebar mount, Gopro mount			

Additional accessories table at the end of the catalog



IPX6 RATING



1,2 m IMPACT RESISTANCE



USB-C CHARGING



SIDE VISIBILITY

ANSI FL1 STANDARD

\* 1000 lm

◀ 155 m



HighLine is a front bike light designed for demanding cyclists, offering up to 1000 lumens of light output. It features two operation modes: manual and Smart, the latter allowing remote control via a separate wireless remote (sold separately). A built-in 2600 mAh battery provides extended runtime, and USB-C charging can even during rides. The aluminum body ensures IPX6 waterproofing and impact resistance to drops for up to 1,2 meters. Additionally, the light can be mounted under a bike navigation device with an optional mount, making it an ideal choice for night rides, gravel racing, and challenging terrain.

# TRAILBLAZER

ABFD163

APPLICATIONS: BIKE TOURING, MOUNTAIN BIKING

<b>POWER SUPPLY</b>	Li-Ion 5200 mAh 3,7V			
<b>CHARGING TIME</b>	3 h			
	<b>LIGHT OUTPUT</b>	<b>RUN TIME</b>	<b>BEAM DISTANCE</b>	<b>PEAK BEAM INTENSITY</b>
	<b>SPOT BEAM</b>			
<b>HIGH</b>	1300 lm	2 h 30 min	210 m	16400 cd
<b>MEDIUM</b>	400 lm	8 h	100 m	4800 cd
<b>LOW</b>	200 lm	20 h	60 m	1800 cd
	<b>FLOOD BEAM</b>			
<b>HIGH</b>	700 lm	3 h 30 min	60 m	1600 cd
<b>MEDIUM</b>	300 lm	9 h	30 m	800 cd
<b>FLASHING</b>	200 lm	60 h	-	-
<b>STROBE</b>	2000 lm	2 h 30 min	270 m	-
<b>DIMENSIONS</b>	106 x 50 x 28 mm			
<b>WEIGHT</b>	225 g			
<b>THE SET INCLUDES</b>	Micro USB cord, handlebar mount			

Additional accessories table at the end of the catalog



IPX6 RATING



1,2 m IMPACT RESISTANCE



POWER BANK

ANSI FL1 STANDARD

\* 2000 lm

◀ 210 m



Trailblazer is an advanced bike light designed for the most demanding cyclists. Equipped with three LEDs, it delivers an impressive 2000 lumens with a beam distance of up to 210 meters. The various modes allow customized lighting, from a focused, long-range beam to a broad, dispersed light. Powered by a built-in 5200 mAh Li-Ion battery, it offers extended runtime and functions as a power bank. The aluminum housing and plastic lens ensure durability and impact resistance, while the IPX6 rating provides water protection. Trailblazer is an essential light for long rides, bike touring, and challenging MTB trails.



# LOOP

Maximum Visibility  
Rear Bike Light  
– Stay Seen,  
Stay Safe!





# LOOP

☼ 25 lm

ABR0081

APPLICATIONS: GRAVEL BIKING, ROAD CYCLING, BIKE TOURING

POWER SUPPLY	Li-Po 3.7V 680 mAh
CHARGING TIME	3 h (1A max)
	<b>RUN TIME</b>
HIGH	2 h
MEDIUM	9 h 20 min
FLASHING 100%	6 h
FLASHING 50%	16 h 20 min
PULSE FLASH	2 h 20 min
PULSE NORMAL	3 h 20 min
DIMENSIONS	56 x 34 <--> 43 x 27 mm
WEIGHT	41 g
THE SET INCLUDES	USB-C cord, seatpost mount

Additional accessories table at the end of the catalog

-  IP44 RATING
-  1 m IMPACT RESISTANCE
-  USB-C CHARGING
-  LAST SETTING MEMORY
-  SIDE VISIBILITY



Loop is a high-quality rear bike light designed for maximum visibility on the road. Equipped with a COB LED panel, it generates 25 lumens of light output. The dome-shaped emitter disperses light not only forward but also to the sides, significantly increasing the rider's visibility from various angles. Loop mounts easily on the seat post using a rubber strap and charges conveniently via a USB-C port, making it practical for travel. It also features a last setting memory function that recalls the last used mode. It is built from durable materials and has an IP44 rating, making it resistant to water splashes and dust.

# WALL'E

☼ 18 lm

L-BPM-2SL

APPLICATIONS: BIKE TOURING, COMMUTING

POWER SUPPLY	2 x AAA
	<b>RUN TIME</b>
CONSTANT	30 h
ALTERNATE	60 h
FLASHING	60 h
DIMENSIONS	69 x 38 x 32,5 mm
WEIGHT	82 g
THE SET INCLUDES	seatpost mount

Additional accessories table at the end of the catalog

-  IPX4 RATING
-  CLIP



Wall'e is a rear bike light equipped with two LEDs—one providing focused light and the other dispersed light—allowing the cyclist to be seen more quickly from a distance and at various angles. It delivers 18 lumens of brightness. The light has three modes: steady, alternating, and flashing, which are more noticeable in traffic than a constant beam. Powered by two AAA batteries, Wall'e offers long-lasting performance, and its IPX4-rated design protects against water splashes. Ideal for both daily city commutes and longer rides, Wall'e ensures cyclists remain visible on the road.

# RED LINE 2.0

\* 20 lm

ABR0051

APPLICATIONS: COMMUTING, BIKE TOURING

POWER SUPPLY	Li-Po 3,7V 500 mAh
CHARGING TIME	2 h 30 min - 3 h
	<b>RUN TIME</b>
HIGH	2 h 30 min
MEDIUM	7 h
FLASHING	5 h 30 min
PULSE	5 h 30 min
DIMENSIONS	80 x 30 x 21 mm
WEIGHT	36 g
THE SET INCLUDES	USB-C cord, seatpost mount

Additional accessories table at the end of the catalog



Red Line 2.0 is a rear bike light designed for cyclists seeking reliable and powerful illumination in various conditions. Its advanced light-diffusing lens emits a 20-lumen light output, ensuring excellent visibility from the rear and sides. The light offers multiple modes, including pulse modes, enhancing visibility in urban traffic. Powered by a USB-C rechargeable battery, the Red Line 2.0 provides up to 5 h 30 min of runtime, making it indispensable for long rides. With an IPX4 rating, it's resistant to water splashes, and its durable construction withstands drops from up to 1 meter.

# RED LINE

\* 20 lm

ABR0021

APPLICATIONS: COMMUTING, BIKE TOURING

POWER SUPPLY	Li-Po 3,7V 300 mAh
	<b>RUN TIME</b>
HIGH	3 h
MEDIUM	16 h
PULSE	15 h
FLASHING 6Hz	18 h
FLASHING 3Hz	18 h
DIMENSIONS	70 x 29 x 18 mm
WEIGHT	21 g
THE SET INCLUDES	Micro USB cord, seatpost mount

Additional accessories table at the end of the catalog



Red Line is a rear bike light that emits a 20-lumen beam, ensuring visibility from both the rear and sides with its wide 270° beam angle. It's powered by a rechargeable Li-Po battery, which can be charged via a Micro USB port. It offers multiple lighting modes, and the light can run for up to 18 hours on a single charge. The housing is rated IPX4 for protection against water splashes, and the battery status indicator and the flexible mounting system make it easy to use. Red Line is ideal for city commuting, bike touring, and gravel trails.



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# **DECORATIVE LANTERNS**





# PACIFICA

Timeless Design,  
Modern Illumination





# PACIFICA

✱ 370 lm

ACLD113

APPLICATIONS: INTERIOR & GARDEN DECOR, OUTDOOR, CAMPING

POWER SUPPLY	2 x Li-Ion 18650	
CHARGING TIME	7 h	
	LIGHT OUTPUT	RUN TIME
COOL HIGH	370 lm	3,8 h
COOL LOW	10 lm	75 h
WARM HIGH	370 lm	3,8 h
WARM LOW	10 lm	75 h
CRI	>=80	
COLOR TEMPERATURE	2200 K / 6500 K	
DIMENSIONS	230 x 126 x 130 mm	
WEIGHT	500 g	
THE SET INCLUDES	2 x Li-Ion battery, USB-C cord	

Additional accessories table at the end of the catalog



Pacifica is an elegant decorative lamp, perfect for indoor and outdoor use. It emits warm light reminiscent of candlelight and neutral LED light, creating a cozy atmosphere on terraces, balconies, or patios. With a maximum brightness of 370 lumens, it provides ample lighting. The smooth brightness adjustment allows for customizing the light intensity to suit your needs. Powered by two 18650 Li-Ion batteries (5200 mAh), it can run for up to 75 hours. It features a USB-C port for fast charging and a power bank function. Its sturdy design ensures reliability both indoors and outdoors.

# ENVIRO

✱ 250 lm

ACLD112

APPLICATIONS: INTERIOR & GARDEN DECOR, OUTDOOR, CAMPING

POWER SUPPLY	2 x Li-Ion 18650	
CHARGING TIME	7 h	
	LIGHT OUTPUT	RUN TIME
COOL HIGH	250 lm	8 h
COOL LOW	20 lm	75 h
WARM HIGH	250 lm	8 h
WARM LOW	20 lm	75 h
CANDLELIGHT	-	-
CRI	>=80	
COLOR TEMPERATURE	2200 K / 6500 K	
DIMENSIONS	280 x 115 x 130 mm	
WEIGHT	440 g	
THE SET INCLUDES	2 x Li-Ion battery, Micro USB cord	

Additional accessories table at the end of the catalog



Enviro is a stylish decorative lamp that combines modern technology with elegant design, perfect for creating a cozy atmosphere indoors and outdoors. It features a unique flame effect that mimics candlelight and a neutral LED light mode for practical use. Enviro provides subtle lighting with a maximum brightness of 250 lumens, ideal for evening gatherings, meditation, or yoga. Powered by two 18650 Li-Ion batteries, it offers long-lasting performance, and its battery indicator keeps you informed. Enviro is also a power bank, perfect for charging mobile devices during camping trips. The elegant design, featuring a glass shade and bamboo base, along with a convenient carrying handle, makes it a standout addition to any space.

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# ACCESSORIES



PRODUCT	CODE	NAME
THH0055 PATROL LTD	<b>THH0052-C</b>	Signal cone, orange
	<b>THH0052-CY</b>	Signal cone, yellow
	<b>THH0054B</b>	Li-Ion 3,7V 3350 mAh rechargeable battery
	<b>THH0052M1</b>	Peripheral charger
	<b>THH0052M4</b>	230V AC power adapter
THH0022 EXPERT PL3	<b>THH0022-CONE-W</b>	Signal cone XL, white
	<b>THH0022-CONE-R</b>	Signal cone XL, red
	<b>T-THH0022-NAKŁADKA</b>	Signal cone, red
	<b>THH0022-BATTERY</b>	Li-Ion 3,7V 6000 mAh rechargeable battery
	<b>THH0022-KABURA</b>	Holster
THH0023 EXPERT PL5	<b>THH0022-CONE-W</b>	Signal cone XL, white
	<b>THH0022-CONE-R</b>	Signal cone XL, red
	<b>T-THH0022-NAKŁADKA</b>	Signal cone, red
	<b>THH0023-BATTERY</b>	Li-Ion 3,7V 9000 mAh rechargeable battery
	<b>THH0022-KABURA</b>	Holster
THH0049 BLACK EYE 1000	<b>MAC0014</b>	Universal charger
	<b>T-MX532L-CONE-R</b>	Signal cone, orange
	<b>T-Kabura MX1</b>	Holster
	<b>T-KaburaMX1/Aku</b>	Holster with extra battery space
	<b>RAC0026</b>	18650 Li-Ion 3350 mAh rechargeable battery
	<b>RHH0031</b>	Magnetic long gun mount for flashlights
THH0047 BLACK EYE 1550	<b>RAC0026</b>	18650 Li-Ion 3350 mAh rechargeable battery
	<b>T-Kabura MX3</b>	Holster
	<b>T-MX142-NAKŁADKA-Ż</b>	Signal cone, yellow
	<b>T-MX142-NAKŁADKA-CZ</b>	Signal cone, red
	<b>MAC0014</b>	Universal charger
	<b>RHH0031</b>	Magnetic long gun mount for flashlights
L-MX512L BLACK EYE MINI	<b>RFF0017</b>	Red filter
	<b>RFF0018</b>	Green filter
THS0021 BLITZ K3	<b>T-THS0021/31</b>	230V AC charger
	<b>THS-ŁAD12/24</b>	12/24V DC car charger
THH0171 SIRIUS M10	<b>T-AHL0172</b>	Magnetic charger
THH0172 SIRIUS T25	<b>T-AHL0172</b>	Magnetic charger
THH0064 SNIPER 3.3	<b>RFF0017</b>	Red filter
	<b>RFF0018</b>	Green filter
	<b>THH0063-CONE-R</b>	Signal cone, red
	<b>THH0063-HOLSTER</b>	Holster
	<b>THH0064-BATTERY</b>	Li-Ion 3,7V 2800 mAh rechargeable battery
	<b>RHH0031</b>	Magnetic long gun mount for flashlights
THH0125 TRACER UV	<b>RAC0026</b>	18650 Li-Ion 3,7V 3350 mAh rechargeable battery
	<b>MAC0014</b>	Universal charger

PRODUCT	CODE	NAME
THH0232 NIGHT HUNTER 03	<b>RAC0026</b>	18650 Li-Ion 3,7V 3350 mAh rechargeable battery
	<b>MAC0014</b>	Universal charger
PSL0073 FLAGGER MAX	<b>T-UCHWYT-MAGNETYCZNY</b>	Magnetic mount
THS0011 BLITZ K12	<b>B-THS0011</b>	Li-Ion 7800 mAh 7.4V rechargeable battery
	<b>T-THS0011</b>	230V AC charger
	<b>THS-ŁAD12/24</b>	12/24V DC car charger
THS0031 BLITZ LR11	<b>B-THS0031</b>	Li-Ion 7,4 V 2600 mAh rechargeable battery
	<b>T-THS0021/31</b>	230V AC charger
	<b>THS-ŁAD12/24</b>	12/24V DC car charger
PSL0032 VANGUARD JML	<b>PSL0031B</b>	Li-Ion 7,4V 6600 mAh rechargeable battery
PHH0221 M-FIRE AG Ex	<b>PHH0021H2</b>	Wall mounting bracket for 2 flashlights
PHH0213 M-FIRE Focus Ex	<b>PHH0211C</b>	Clip
	<b>RHH0051</b>	Rosenbauer Heroes Titan mount
	<b>PHH0012M-UP</b>	Gallet Helmet mount
	<b>RHH0041</b>	Calisia Helmet mount
PHH0216 M-FIRE 02 HL	<b>RHH0051</b>	Rosenbauer Heroes Titan mount
	<b>PHH0012M-UP</b>	Gallet Helmet mount
	<b>RHH0041</b>	Calisia Helmet mount
	<b>T-MX142-NAKŁADKA-CZ</b>	Signal cone, red
	<b>T-MX142-NAKŁADKA-Ż</b>	Signal cone, yellow
PHH0215 M-FIRE 03 HL	<b>RHH0051</b>	Rosenbauer Heroes Titan mount
	<b>PHH0012M-UP</b>	Gallet Helmet mount
	<b>RHH0041</b>	Calisia Helmet mount
	<b>T-MX142-NAKŁADKA-CZ</b>	Signal cone, red
	<b>T-MX142-NAKŁADKA-Ż</b>	Signal cone, yellow
PHH0211 M-FIRE 02 Ex PHH0211RC M-FIRE 02 RC Ex	<b>RHH0051</b>	Rosenbauer Heroes Titan mount
	<b>PHH0012M-UP</b>	Gallet Helmet mount
	<b>RHH0041</b>	Calisia Helmet mount
	<b>T-MX142-NAKŁADKA-CZ</b>	Signal cone, red
	<b>T-MX142-NAKŁADKA-Ż</b>	Signal cone, yellow
PHH0212 M-FIRE 03 Ex	<b>RHH0051</b>	Rosenbauer Heroes Titan mount
	<b>PHH0012M-UP</b>	Gallet Helmet mount
	<b>RHH0041</b>	Calisia Helmet mount
	<b>T-MX142-NAKŁADKA-CZ</b>	Signal cone, red
	<b>T-MX142-NAKŁADKA-Ż</b>	Signal cone, yellow
PWL0081 DUAL BEAM	<b>B-PWL0081</b>	Li-Ion 14,8V 5200 mAh rechargeable battery
	<b>PWL0081-MASZT2</b>	3 m tripod with adapter
	<b>PWL0081M</b>	Magnetic mount
	<b>T-PWL0081-230V</b>	230V AC charger
PWL0021 BEEMER 4	<b>PWL0021.1</b>	Flashlight base
	<b>PWL0021.2</b>	Flashlight head
	<b>PWL0021.3</b>	Inspection head with a Focus function
	<b>PWL0021.4</b>	360°workshop head equipped with COB White + UV



PRODUCT	CODE	NAME
PWL0051 SUNSCAN 5.4	<b>PWL0051M</b>	Magnetic mount
	<b>PWL0051PRZEJŚCIÓWKA</b>	Tripod adapter
THH0211 T-FORCE XP	<b>RHH0061</b>	Picatinny mount
	<b>RHH0071</b>	M-LOK mount
	<b>RSW0011</b>	Remote pressure switch
	<b>RAC0023</b>	18650 Li-Ion 3200 mAh rechargeable battery
	<b>THH0111-12-CONE-R</b>	Signal cone, orange
	<b>MAC0014</b>	Universal charger
	<b>THH0111-12-FB</b>	Blue filter
	<b>THH0111-12-FG</b>	Green filter
	<b>THH0111-12-FR</b>	Red filter
THL0051 STORM 1LP	<b>T-THL0051</b>	Hook and loop mount for helmet and vest
THL0022MN NOMAD 03	<b>RHM0011</b>	Adapter for NVG mount
AHL0172 SIRIUS H12	<b>RAC0026</b>	18650 Li-Ion 3,7V 3350 mAh rechargeable battery
	<b>T-AHL0172</b>	Magnetic charger
THL0131 CYCLOPE II	<b>B-THL0131 16340</b>	16340 Li-Ion 700 mAh rechargeable battery
	<b>T-THL0131</b>	Magnetic charger
AHL0022 VIZO RC	<b>AHL0022-BATTERY-BODY</b>	Battery body
	<b>AHL0022-BATTERY-PACK</b>	Battery with basket
	<b>AHL0022-BATTERY</b>	18650 Li-Ion 3,7V 2800 mAh rechargeable battery
AHL0053 MAVERICK	<b>AHL0053B</b>	Li-Po 3,7V 800 mAh rechargeable battery (USB-C)
	<b>AHL0051M</b>	Helmet mount with double-sided hook and loop
AHL0052 MAVERICK WHITE PEAK	<b>AHL0053B</b>	Li-Po 3,7V 800 mAh rechargeable battery (USB-C)
	<b>AHL0051M</b>	Helmet mount with double-sided hook and loop
AHL0081 ILLUMA	<b>AHL0061C</b>	Helmet clip with double-sided tape
AHL0061 REBEL	<b>AHL0061C</b>	Helmet clip with double-sided tape
PHL0011 ULTIMO	<b>T-PHL0011-CLIPS</b>	Set of helmet-mounted clips
	<b>B-PHL0011</b>	Li-Ion 3,7V 2000 mAh rechargeable battery
	<b>PHL0011BC</b>	Battery basket
PHL0031 SUNSCAN 5.3	<b>AHL0053B</b>	Li-Po 3,7V 800 mAh rechargeable battery (USB-C)
	<b>AHL0051M</b>	Helmet mount with double-sided hook and loop
ABF0167 SCREAM 3.1	<b>ABF0161M</b>	Handlebar mount
	<b>ABF0171M</b>	Handlebar mount with adjustable clamp
	<b>ABF0164B</b>	18650 Li-Ion 3400 mAh rechargeable battery
	<b>RAC0026</b>	18650 Li-Ion 3350 mAh rechargeable battery
ABF0171 SCREAM 3.3	<b>ABF0161M</b>	Handlebar mount
	<b>ABF0171M</b>	Handlebar mount with adjustable clamp
ABF0166 HIGHLINE	<b>ABF0166M</b>	Bike computer extension mount
	<b>ABF0166P</b>	Wireless remote
L-BPM-2SL WALL'E	<b>T-BPM-2SL</b>	Seatpost mount
ABR0051 RED LINE 2.0	<b>ABR0051MG</b>	Rubber strap for seatpost mount
ABR0021 RED LINE	<b>ABR0021M</b>	Rubber strap for seatpost mount



# ADVANCED FLASHLIGHT FEATURES



**ADS (Advanced Dimming System)** – ADS [Advanced Dimming System] – A cutting-edge system for adjusting light intensity in flashlights, enabling smooth brightness control for optimal visibility in all conditions. The ADS system operates with a single button, allowing easy customization of brightness.



**FOCUS** – Allows adjustment of the light beam's focus, offering a choice between a narrow, concentrated beam or a wide, dispersed one, enhancing versatility.



**LAST SETTING MEMORY** – Remembers the last used mode or brightness level, automatically returning to it when the flashlight is turned on again. This feature is convenient for users who need quick and consistent operation, particularly in outdoor or emergency situations.



**SENSOR MODE** – Allows the flashlight to be turned on or off with a hand gesture in front of the sensor, especially useful for individuals wearing gloves or working with dirty hands, making it ideal for industrial workers or rescuers.



**SWITCH LOCK** – Prevents accidental activation by locking the switch when not in use. Beneficial for tactical and outdoor environments, it ensures the flashlight doesn't drain the battery due to unintended activation.



**SILENT SWITCH** – Designed to minimize noise when turning the flashlight on or off. This is essential in tactical situations where noise discipline is crucial, such as military or law enforcement operations, ensuring discreet operation.



**DSS (Dual Source System)** – Allows flashlights to be powered by both rechargeable and standard disposable batteries, ensuring continuous use even when the rechargeable battery is depleted.



**HYBRID POWER MODE** – In mobile lighting systems, especially area lights, this mode allows operation from both rechargeable batteries and external power sources, ensuring continuous lighting in various environments such as outdoor, construction, or emergency settings.



**MAGNETIC CHARGING** – A convenient solution that enables charging without removing the battery, allowing users to charge the flashlight quickly and easily without risking damage during disassembly.



**POWER BANK** – An additional function that transforms the flashlight into a portable power source, allowing users to charge other devices such as smartphones, tablets, or GPS units.



**BLACKOUT WARNING SYSTEM** – Automatically activates signal lights in the docking station during power outages, making it easier to locate the flashlight. This feature is especially useful in public spaces like offices, hotels, or shopping centers.



**CRI (Color Rendering Index)** – Measures how accurately a light source reveals colors compared to natural sunlight. A high CRI is essential in environments where color recognition is important, such as car detailing, cosmetic procedures, and painting or tattooing, ensuring





# LIGHTING MODES

**BOOST:** Delivers instant maximum light output for a brief period before automatically returning to normal mode, ideal for quickly scanning large areas or pinpointing distant objects.

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**HIGH:** Provides intense, bright light, useful in emergencies or difficult conditions.

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**MEDIUM:** Offers moderate brightness, balancing visibility and battery efficiency.

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**LOW:** Minimizes light intensity for power saving and extended runtime.

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**FLASHING:** Emits regular flashes for signaling or as a warning.

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**STROBE:** Produces pulsating light to disorient potential threats.

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**S.O.S:** Sends an emergency signal in Morse code, signaling the need for help.

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**RGB/IR LIGHTING** – Specialized lighting modes that include red, green, blue, and infrared (IR). These colored lights allow users to adapt to different environments, enhancing functionality beyond standard white light. Each color has specific uses:

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**Red light:** Preserves night vision, useful for military, hunters, and astronomers.

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**Green light:** Provides good visibility without disrupting night vision, popular in hunting and wildlife observation.

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**Blue light:** Enhances contrast, aiding in blood or fluid tracking for hunters and medical professionals.

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**IR light:** Invisible to the naked eye, used with night-vision gear for military and surveillance.

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# ANSI PLATO

**MACTRONIC® GROUP** is proud to be a long-standing member of the prestigious Portable Lights American Trade Organization (**PLATO**), which plays a key role in the development of industry standards for portable lighting. As a voting member of PLATO, **Mactronic®** has a direct impact on setting high standards for the production and distribution of portable light across the globe.

The **ANSI/PLATO FL1-2019 Standard** was created by PLATO to provide consumers with a reliable and consistent way to compare the performance of flashlights and other directional lighting products. It was the first global standard for flashlights and headlamps, offering a clear framework for testing and reporting performance specifications such as brightness, beam distance, run time, and durability. These standards help consumers make informed choices, ensuring transparency and consistency in product claims.

For over 35 years, **Mactronic®** has been at the forefront of developing advanced, durable lighting solutions for professionals in industries such as firefighting, law enforcement, the military, and industrial sectors. The company's commitment to high performance and reliability ensures that those who rely on portable lighting in demanding environments can count on **Mactronic®** products to deliver exceptional results.

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## ANSI/PLATO FL 1-2019 FLASHLIGHT BASIC PERFORMANCE STANDARD

The **ANSI/PLATO FL 1-2019 Standard** was created to offer a clear and reliable way for consumers to compare the performance of portable lighting products. Developed by the Portable Lights American Trade Organization (PLATO) in collaboration with the American National Standards Institute (ANSI), this standard establishes uniform testing methods and performance definitions for flashlights, headlamps, and other directional lighting devices. These guidelines ensure that consumers have access to transparent, standardized information when choosing a portable light.

The ANSI/PLATO FL 1 standard is recognized globally and applies to a wide range of industries, including public safety, outdoor recreation, industrial work, agriculture, and military operations. Whether used by firefighters, paramedics, security personnel, or outdoor enthusiasts, the standard ensures that users can trust the performance claims of the products they rely on.





# ANSI PLATO

## Key Features of the ANSI/PLATO FL 1-2019 Standard

The ANSI/PLATO FL 1 standard focuses on several key performance criteria that are essential for understanding the capabilities of a portable lighting device:



### Peak Beam Intensity

Peak beam intensity refers to the brightest point in a flashlight's beam, measured in **candelas [cd]**. This measurement is taken along the central axis of the light beam and indicates the focused intensity of light at its brightest point. A higher candela rating means the light beam will appear more intense at its focal point, making this measurement useful for applications where concentrated illumination is required, such as search-and-rescue operations or long-range spotting.



### Light Output

The light output (luminous flux), measured in **lumens [lm]**, represents the total amount of light emitted by the flashlight or headlamp. Unlike peak beam intensity, which focuses on the brightest point, luminous flux captures the overall brightness output of the device, spread across the entire beam. This is one of the most important metrics for consumers, as it provides a general idea of how bright a device will appear. Higher lumens typically equate to a brighter light that can cover a broader area, making it ideal for general illumination tasks.



### Beam Distance

Beam distance measures the farthest distance, in **meters [m]**, at which the light beam can still produce an illuminance level of **0.25 lux**, approximately the brightness of a full moon. This metric is critical for consumers who need to know how far a flashlight will cast its beam effectively in darkness. Applications such as hiking, patrolling, or navigating in low-visibility conditions benefit from a longer beam distance, ensuring users can see objects or terrain far ahead.



### Run Time

Run time is defined as the amount of time a flashlight or headlamp can operate from when it is first turned on with fresh batteries until its light output diminishes to **10% of its initial brightness**. Measured in hours, this metric allows consumers to assess how long the device can provide continuous illumination on a single charge or set of batteries. Understanding run time is crucial for professionals who need reliable performance over extended periods, such as during long shifts or outdoor excursions where access to power sources is limited.



# ANSI PLATO



## **Water and Dust Resistance (Ingress Protection)**

The Ingress Protection (IP) rating is a standardized measure of how well a flashlight or headlamp is protected from the intrusion of **water and dust**. The IP rating consists of two numbers: the first refers to the level of protection against solid particles (such as dust), and the second pertains to protection against liquids (such as water). Water resistance can range from light rain or splashes to full submersion, depending on the rating. Similarly, dust resistance is tested by exposing the device to a dust-filled environment. This feature is particularly important for outdoor professionals, such as miners or construction workers, who operate in harsh, unpredictable conditions.



## **Impact Resistance**

The impact resistance test determines a flashlight's ability to withstand drops onto a hard surface from a specified height, typically **1 meter**. After the test, the device must remain fully functional, including the on/off switch, beam output, and structural integrity. This measurement ensures that the device can survive rough handling, drops, and bumps without suffering critical damage, making it a reliable tool for professionals in physically demanding roles like emergency services or construction.

## Why ANSI/PLATO FL 1-2019 Matters

The **ANSI/PLATO FL 1-2019 Standard** plays an essential role in ensuring that consumers can make informed decisions when purchasing portable lighting products. By providing a clear, objective framework for testing and reporting, this standard allows users to compare products based on consistent, reliable data rather than relying on marketing claims. Whether selecting a flashlight for professional use or outdoor adventures, consumers benefit from understanding key performance factors such as brightness, beam distance, battery life, and durability.

Adopting ANSI/PLATO FL 1-2019 standards in product testing demonstrates a commitment to transparency and quality, giving users confidence that the lighting devices they purchase will meet the rigorous demands of their specific applications.





# IP RATING: DUST AND MOISTURE RESISTANCE

The **Ingress Protection (IP) rating** indicates how resistant a product is to dust and moisture, which is critical for determining the suitability of portable lighting in different environments. The IP rating is represented by two digits: the first digit measures protection against solid objects (such as dust), and the second digit measures protection against liquids (such as water or humidity).

## 1. Protection Against Solid Objects (Dust Resistance)

- The first digit ranges from **0 to 6**, where **0** means no protection and **6** signifies complete protection against dust.
- Lower ratings (1-4) offer protection against solid objects larger than 1mm, such as hands, fingers, or small tools and wires. For example, a rating of IP3X protects against objects larger than 2.5mm.
- For environments where dust is a concern, the recommended minimum rating is **IP5X**, which provides partial protection against dust particles. **IP6X** ensures full protection, meaning no dust can enter the product. This level of protection is particularly important for electronics, where dust ingress is a common cause of failure.

## 2. Protection Against Liquids (Moisture Resistance)

- The second digit ranges from **0 to 9**, where **0** means no protection against moisture, and **9** indicates the highest level of protection, including resistance to high-pressure water jets and steam cleaning from any direction.
- It's important to note that even waterproof products may not be designed to withstand submersion for extended periods. Products with lower IP ratings can be damaged by exposure to even small amounts of water.
- For products that need to endure challenging environments, such as those exposed to heavy rain, splashes, or submersion, an IP rating with a **7, 8, or 9** for liquid ingress is recommended.

In the **portable lights industry**, selecting the appropriate **IP rating** is crucial to ensure reliable performance in the field. Portable lighting products are often exposed to harsh conditions, including dust-filled worksites or wet environments such as outdoor activities or industrial operations. Ensuring that lights are equipped with adequate dust and moisture protection significantly enhances their longevity and functionality, providing professionals with durable tools they can depend on in any situation.



# ATEX

For the devices to work in dangerous conditions, such as explosion hazard zones, they must meet specific requirements included in special standards. For this reason, the ATEX directive was created, which defines the requirements for the construction of devices approved for operation in explosive atmospheres. Increased safety standards apply wherever there is a risk of explosion. The abbreviation ATEX comes from the French words

„*ATmosphère EXplosible*” means an explosive atmosphere, and the accompanying legal provisions are intended to protect people and devices operating in the explosion hazard zone. An explosion hazard zone is a mixture of combustible substances, and more specifically gases, dust, or vapors combined with air, in which a life-threatening and health-threatening ignition may occur.

ATEX products are classified and grouped into different categories as well as divided into zones, groups, protection types, and equipment protection levels (EPL).

CE	0102	Ex	II	2G	Ex d	IA	T5
CE mark	ID no. unit certifying symbol	Explosive execution symbol	Explosion group	Device category	Type of explosion protection	Explosivity subgroup	Temperature class

## Classification of potentially explosive zones

Type of threat	Threat description	Zone designation	Device category	The presence of an explosive atmosphere
G	Gases, liquids and their vapors	0	1	continuous (hazard persists for a long time)
		1	2	occasional (hazard may occur under normal circumstances)
		2	3	rare (does not occur under normal operating conditions, if it occurs it is for a short period of time)
D	Combustible dusts	20	1	continuous (hazard persists for a long time)
		21	2	occasional (hazard may occur under normal circumstances)
		22	3	rare (does not occur under normal operating conditions, if it occurs it is for a short period of time)

## Groups of explosion-proof devices

Group	Description of the Group	Subgroup	Description of the Subgroup
I	Devices intended for operation in underground mines and above-ground parts of mines with explosion hazards	—	Methane or coal dust explosion hazard
II	Devices designed to work on the surface in areas where there is a risk of gas, vapor, mist, or dust explosion	A	Propane group (e.g. acetone, methyl alcohol, ethyl alcohol)
		B	Ethylene group (e.g. ethylene, hydrogen sulfide)
		C	Hydrogen group (e.g. acetylene, hydrogen, hydrazine)





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