



PRODUCT CATALOG 2026



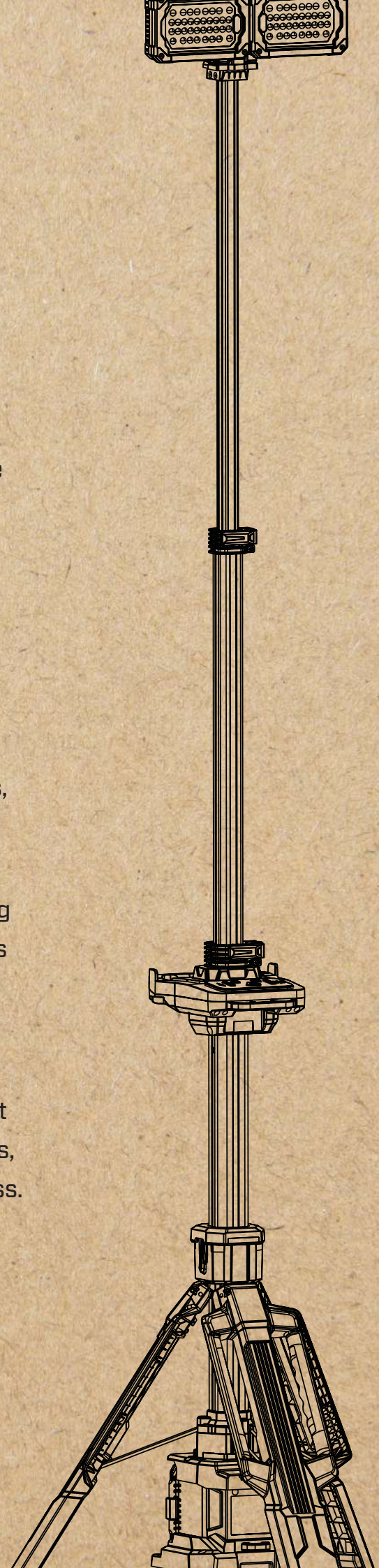
ABOUT MACTRONIC®

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[®] **VALUE HIGHLIGHTS**

**5 YEAR
WARRANTY**

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



**SAFE
LIGHTING**

SAFE LIGHTING
- EQUIPMENT COMPLIES
WITH EUROPEAN UNION
HEALTH, SAFETY,
AND ENVIRONMENTAL
REQUIREMENTS.



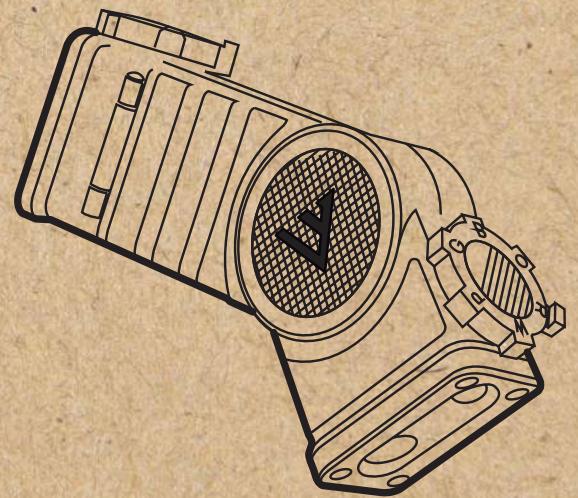
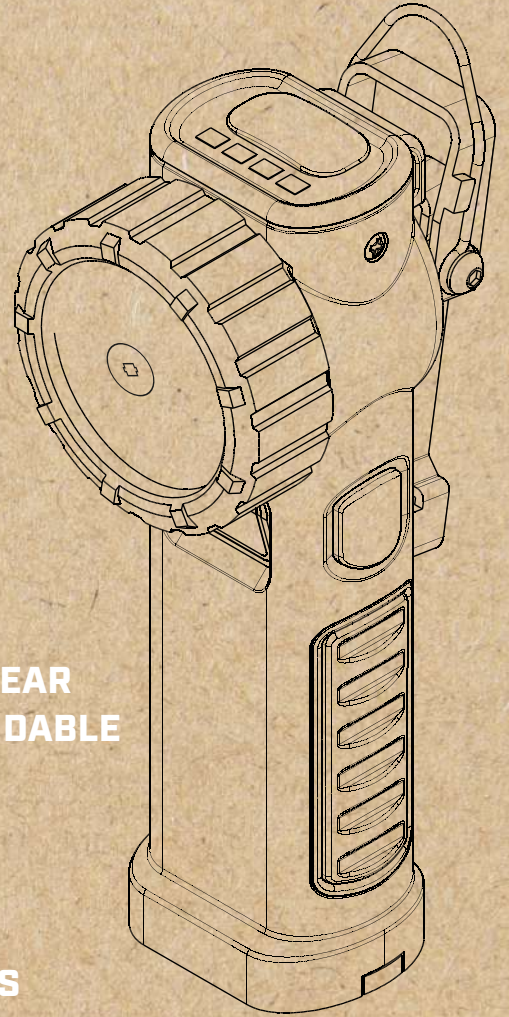
**PATENTED
DESIGN**

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.





ATEX
CERTIFICATE



ANSI FL1
STANDARD



#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.



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HANDHELD FLASHLIGHTS

BLACK EYE SERIES

The Legend Returns – Smarter.
Stronger. Brighter.



BLACK EYE R40

THL0060

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

ANSI FL1 STANDARD

4000 lm

325 m



NEW

POWER SUPPLY	21700 Li-Ion 3,7V 5000 mAh			
CHARGING TIME	4 - 6h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	4000 lm	3 h**	325 m	26 475 cd
HIGH	1850 lm	4 h	217 m	11 779 cd
MEDIUM	660 lm	4 h 40 min	129 m	4167 cd
LOW II	240 lm	14 h	76 m	1450 cd
LOW I*	36 lm	3 days	31 m	236 cd
SURVIVAL*	1 lm	29 days	4 m	5 cd
STROBE*	4000 lm	-	-	-
BEACON*	4000 lm	-	-	-
DIMENSIONS	119 x 25,2 x 30,3 mm			
WEIGHT	93,3 g (without battery), 161,4 g (with battery)			
THE SET INCLUDES	21700 Li-Ion battery, headband, USB-C cord, hard shell case, clip, handstrap, 2 x o-ring			

*Outside ANSI FL1 Scope
 **BOOST mode run time indicates the total duration, including automatic step-down due to thermal regulation, increased power draw, and circuit protection mechanism.

- IPX8 RATING
- 1,5 m IMPACT RESISTANCE
- USB-C CHARGING
- LAST SETTING MEMORY
- QUICK SET™ PROGRAMMING
- ADAPTIVE COOLING TECHNOLOGY
- ADVANCED DIMMING SYSTEM
- BATTERY LEVEL INDICATOR
- POWER BANK (USB-C/USB-C)
- SWITCH LOCK
- MAGNET



Black Eye R40 is a compact, right-angle flashlight for rescuers, tactical units, and outdoor adventurers. It functions as a handheld device, a headlamp, or clips onto gear for hands-free use. Emitting 4000 lumens with a 325 m beam, it adapts to every mission. QUICK-SET™ Programming offers six brightness levels, and the Advanced Dimming System enables smooth, real-time light adjustment. Strobe and Beacon modes provide signaling. In Survival mode, it can run for up to 29 days. Made from aerospace-grade aluminum with IPX8 sealing, 1,5 m impact resistance, and Adaptive Cooling Technology, the R40 remains reliable in extreme conditions. Powered by a 21700 (5000 mAh) battery, with USB-C charging, battery indicator, and Last Setting Memory.

BLACK EYE X52

THH0080

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

ANSI FL1 STANDARD

5200 lm

350 m



NEW

POWER SUPPLY	21700 Li-Ion 3,7V 5000 mAh			
CHARGING TIME	4 - 6h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	5200 lm	2 h 45 min**	350 m	30 700 cd
HIGH	1540 lm	4 h	210 m	10 817 cd
MEDIUM	610 lm	7 h 20 min	130 m	4288 cd
LOW II	255 lm	15 h 25 min	85 m	1796 cd
LOW I	47 lm	63 h	35 m	325 cd
SURVIVAL*	8 lm	12 days	15 m	50 cd
STROBE*	5200 lm	-	-	-
BEACON*	5200 lm	-	-	-
DIMENSIONS	135 x 28 x 32 mm			
WEIGHT	128,5 g (without battery), 196,6 g (with battery)			
THE SET INCLUDES	21700 Li-Ion battery, USB-C cord, holster, clip, handstrap, 2 x o-ring			

*Outside ANSI FL1 Scope
 **BOOST mode run time indicates the total duration, including automatic step-down due to thermal regulation, increased power draw, and circuit protection mechanism.

- IPX8 RATING
- 1,5 m IMPACT RESISTANCE
- USB-C CHARGING
- LAST SETTING MEMORY
- QUICK SET™ PROGRAMMING
- ADAPTIVE COOLING TECHNOLOGY
- ADVANCED DIMMING SYSTEM
- BATTERY LEVEL INDICATOR
- SWITCH LOCK



Black Eye X52 is a programmable, high-performance flashlight designed for military, rescue, and demanding outdoor use. It delivers 5200 lumens with a beam reaching up to 350 meters. QUICK-SET Programming offers two modes: preset brightness levels and smooth control via the Advanced Dimming System (ADS). Boost mode gives instant maximum output. Survival mode runs up to 12 days. The flashlight is IPX8-rated, impact resistant to 1,5 m, and made of aerospace-grade aluminum. Powered by a USB-C rechargeable 21700 battery, it features a Switch Lock, battery indicator, and Adaptive Cooling Technology.

BLACK EYE X31

THH0081

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

POWER SUPPLY	21700 Li-Ion 3,7V 5000 mAh			
CHARGING TIME	4 - 6 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	3100 lm	2 h 30 min**	530 m	68500 cd
HIGH	1100 lm	3 h	325 m	26613 cd
MEDIUM	420 lm	6 h 30 min	200 m	10 238 cd
LOW	110 lm	22 h	103 m	2642 cd
SURVIVAL*	25 lm	4 days	50 m	606 cd
STROBE*	3100 lm	-	-	-
BEACON*	3100 lm	-	-	-
DIMENSIONS	162 x 27,5 x 46,5 mm			
WEIGHT	165,4 g (without battery), 233,5 g (with battery)			
THE SET INCLUDES	21700 Li-Ion battery, USB-C cord, holster, 18650 battery adapter, clip, handstrap, 2 x o-ring			

*Outside ANSI FL1 Scope

**BOOST mode run time indicates the total duration, including automatic step-down due to thermal regulation, increased power draw, and circuit protection mechanism.

- IPX8 RATING
- 1 m IMPACT RESISTANCE
- USB-C CHARGING
- LAST SETTING MEMORY
- BATTERY LEVEL INDICATOR
- QUICK SET™ PROGRAMMING
- ADAPTIVE COOLING TECHNOLOGY
- ADVANCED DIMMING SYSTEM
- MOMENTARY SWITCH

ANSI FL1 STANDARD

3100 lm

530 m



NEW



Engineered for unmatched performance, the Black Eye X31 tactical flashlight projects 3100 lumens with a beam reaching up to 530 meters—the furthest in the series. Designed for professionals, it has a rear tactical switch for instant activation and a front button for mode selection. Two programmable modes offer five brightness levels (plus Strobe and Beacon) or enable Advanced Dimming. Aerospace-grade aluminum, IPX8 waterproofing, and thermal regulation ensure durability. Powered by a 21700 rechargeable battery (5000 mAh), it offers USB-C charging and runs up to 4 days in Survival mode. Suited for tactical, rescue, industrial, and outdoor use.

BLACK EYE 650

L-MX532L-RC/SET3

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES

POWER SUPPLY	18650 Li-Ion 3,7V 3350 mAh			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH	650 lm	4 h 10 min	250 m	18526 cd
MEDIUM	360 lm	6 h 40 min	180 m	9614 cd
LOW	110 lm	20 h 20 min	100 m	2927 cd
STROBE*	-	17 h 50 min	-	-
SOS*	-	14 h	-	-
DIMENSIONS	135 x 36,5 x 28,5 mm			
WEIGHT	113,5 g			
THE SET INCLUDES	Filter set (3 color: red, green, blue), diffuser, Picatinny rail mount with hex key, holster, 230V AC charger, 12 V DC car charger, charging base, USB-C cord, 18650 Li-Ion 3.7V 3350 mAh battery			

*Outside ANSI FL1 Scope

- IP65 RATING
- 1,5 m IMPACT RESISTANCE

ANSI FL1 STANDARD

650 lm

250 m



Black Eye 650 is a compact tactical flashlight, ideal for law enforcement, hunters, and outdoor enthusiasts. It offers three constant light modes and Strobe and SOS functions. With a powerful 650-lumen beam that can reach a beam distance of up to 250 meters, this flashlight is engineered for demanding missions. The flashlight comes packaged in a durable hard case. It includes colored filters (red, green, and blue), a diffuser, a Picatinny mount, a holster, a rechargeable battery, and all necessary charging accessories. Its anodized aluminum body is IP65-rated for dust and water resistance and impact resistance to 1,5 m. Powered by a 3350 mAh Li-Ion battery, the Black Eye 650 offers an impressive run time of up to 20 hours and 20 minutes on the LOW mode.

BLACK EYE 1000

THH0049

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

ANSI FL1 STANDARD

* 1000 lm

◀ 286 m



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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



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 1,5 m and has an IP65 waterproof rating. It offers five modes: High, Medium, Low, Strobe, and SOS, with a run time 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 12-24V 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



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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



IP65 RATING



1,5 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 run time 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 12-24V 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: LAW ENFORCEMENT, UNIFORMED SERVICES, OUTDOOR, HUNTING, EDC



POWER SUPPLY	1 x 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 x AA battery, clip			

See the Additional Accessories Table at the end of the catalog. Sold separately.



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

ANSI FL1 STANDARD

☀ 3000 lm

◀ 375 m

THS0021

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

POWER SUPPLY	Li-Ion 3,7V 5000 mAh			
CHARGING TIME	6 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	3000 lm	1 h 30 min	375 m	35 000 cd
HIGH	1000 lm	3 h 30 min	220 m	12 500 cd
MEDIUM	500 lm	4 h	160 m	6500 cd
LOW	100 lm	25 h	80 m	1700 cd
FLASHING*	-	8 h	-	-
DIMENSIONS	172 x 40 x 62 mm			
WEIGHT	350 g (without battery), 449 g (with battery)			
THE SET INCLUDES	Li-Ion battery, 100-240V AC charger with interchangeable EU, US, UK adapters, handstrap, case			

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



Blitz K3 is an advanced handheld flashlight generating a 3000 lm light output with a beam distance 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 m confirms its robustness. A battery level indicator and a safety ring enhance comfort and user safety. A 3,7V 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.



PATROL RX

Quick Programming.
Tailored Light
for Every Duty!



PATROL RX

THH0056

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

ANSI FL1 STANDARD

2000 lm

370 m



POWER SUPPLY	Li-Ion 3,7V 5000 mAh			
CHARGING TIME	5 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	2000 lm	30 s	370 m	33 936 cd
HIGH	1580 lm	2 h	330 m	27 620 cd
MEDIUM	650 lm	4 h 40 min	200 m	10 064 cd
LOW	335 lm	11 h	140 m	4736 cd
STROBE*	800 lm	4 h 30 min	-	-
DIMENSIONS	194 x 28,5 x 44 mm			
WEIGHT	226,8 (without battery), 297,3 g (with battery)			
THE SET INCLUDES	wall charging station, 12V DC car charger, 230V power adapter, handstrap, Li-Ion battery			

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope

- IP67 RATING
- 1,5 m IMPACT RESISTANCE
- BLACKOUT WARNING SYSTEM
- BATTERY LEVEL INDICATOR
- USB-C CHARGING
- ADVANCED DIMMING SYSTEM
- LAST SETTING MEMORY



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

THH0055

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

ANSI FL1 STANDARD

1000 lm

340 m



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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope

- 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, HUNTING

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



ANSI FL1 STANDARD

800 lm

420 m



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, HUNTING

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



ANSI FL1 STANDARD

1100 lm

470 m



Expert PL5 is a flashlight designed for intervention patrols, security services, police, and border guards. It has rugged construction, long run time, 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.

SNIPER 3.3

THH0084

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

ANSI FL1 STANDARD

1020 lm

225 m

POWER SUPPLY	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
STROBE*	-	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			

*Outside ANSI FL1 Scope

See the Additional Accessories Table at the end of the catalog. Sold separately.



Sniper 3.3 is an advanced handheld flashlight, perfect for everyday use and professional activities. It emits 1020 lm with a beam distance 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 Li-Ion battery, 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, holster, clip, handstrap		

*Outside ANSI FL1 Scope



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.

SIRIUS M10

THH0171

APPLICATIONS: BUSHCRAFT, SURVIVAL, EDC

☀ 1000 lm

◀ 100 m

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

- 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 beam distance. 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 Survival mode. Great for bushcraft, hiking, and as an everyday carry flashlight.

SIRIUS T25

THH0172

APPLICATIONS: EDC, BUSHCRAFT, SURVIVAL, TREKKING, HUNTING

☀ 2500 lm

◀ 360 m

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

- 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 beam distance 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.

DEFENDER IR

☀ 400 lm

◀ 132 m

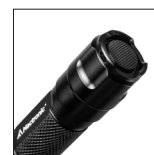
THH0126

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

POWER SUPPLY	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
HIGH	400 lm	400 lm	2 h 30 min	2h
LOW	50 lm	50 lm	20h	18h
IR LED HIGH	100 mW IR	100 mW IR	8 h	6 h 30 min
IR LED LOW	5 mW IR	5 mW IR	85 h	80 h
DIMENSIONS	131 x 25 x 35 mm			
WEIGHT	162 g (without batteries), 199 g (with batteries)			
THE SET INCLUDES	2 x CR123A batteries			



See the Additional Accessories Table at the end of the catalog. Sold separately.



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-Sized Light,
Endless Possibilities.



FLAGGER NANO

PHH0136

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

* 500 lm

◀ 45 m

POWER SUPPLY	Li-Po 3,7V 450 mAh		
CHARGING TIME	2 h		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
COB BOOST	500 lm	30 s	36 m
COB HIGH	300 lm	1 h 30 min	25 m
COB MEDIUM	120 lm	2 h 30 min	15 m
COB LOW	40 lm	4 h 30 min	8 m
COB RED	-	-	-
COB RED FLASHING	-	-	-
TOP HIGH	200 lm	1 h 30 min	45 m
TOP MEDIUM	70 lm	3 h 30 min	25 m
TOP LOW	25 lm	6 h	16 m
DIMENSIONS	64,5 x 19 x 30 mm		
WEIGHT	38 g		
THE SET INCLUDES	USB-C cord, carabiner, built-in magnets and clip		



IPX4 RATING



1 m IMPACT RESISTANCE



USB-C CHARGING



MAGNETS



CLIP



Flagger Nano is an ultra-light, pocket-sized EDC flashlight weighing just 38 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

PHH0134

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

ANSI FL1 STANDARD

* 500 lm

◀ 30 m

POWER SUPPLY	Li-Po 3,7V 450 mAh		
CHARGING TIME	2 - 2 h 30 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
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	20 lm	8 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	8 h	6 m
RED COB LED FLASHING	-	-	-
DIMENSIONS	101 x 5 x 25 mm		
WEIGHT	35 g		
THE SET INCLUDES	USB-C cord, built-in clip		

*Outside ANSI FL1 Scope



IPX4 RATING



1 m IMPACT RESISTANCE



USB-C CHARGING



LAST SETTING MEMORY



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

POWER SUPPLY	803450 Li-Po 3,7 V 1500 mAh		
CHARGING TIME	2 h 40 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
WHITE LED	150 - 500 lm	2 h 30 min - 6 h	90 - 154 m
RED COB	-	7 h 30 min - 15 h	-
GREEN COB	-	7 h 30 min - 15 h	-
DIMENSIONS	107,5 x 36,5 x 47 mm		
WEIGHT	111 g		
THE SET INCLUDES	built-in magnets, hook, clip, USB-C cord		



IPX4 RATING



USB-C CHARGING



OIL-RESISTANT BUTTONS



ADVANCED DIMMING SYSTEM



CLIP



HOOK



MAGNETS

ANSI FL1 STANDARD

* 500 lm

◀ 154 m



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

POWER SUPPLY	803450 Li-Po 3,7 V 1500 mAh		
CHARGING TIME	2 h 40 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
WHITE LED COB	200 lm	7 h	33 m
WHITE LED	150 - 500 lm	2 h 30 min - 6 h	90 - 154 m
DIMENSIONS	107,5 x 36,5 x 47 mm		
WEIGHT	109 g		
THE SET INCLUDES	built-in magnets, hook, clip, USB-C cord		



IPX4 RATING



USB-C CHARGING



OIL-RESISTANT BUTTONS



BATTERY LEVEL INDICATOR



CLIP



HOOK



MAGNETS

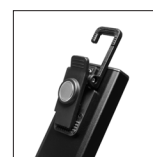


ADVANCED DIMMING SYSTEM

ANSI FL1 STANDARD

* 500 lm

◀ 154 m



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	-

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

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	

2 m IMPACT RESISTANCE

CLIP

CRI 95

FOCUS



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

ANSI FL1 STANDARD

* 800 lm

◀ 230 m

POWER SUPPLY	4 × AA			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	800 lm	40 s	230 m	13 600 cd
HIGH	450 lm	5 h	200 m	
LOW	110 lm	19 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			

*Outside ANSI FL1 Scope



IP67 RATING



1 m IMPACT RESISTANCE



GLASS BREAKER



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 230 meters. With a durable IP67-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

ANSI FL1 STANDARD

* 800 lm

◀ 230 m

POWER SUPPLY	Li-Ion 3,7V 4400 mAh			
CHARGING TIME	3 h 40 min			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	800 lm	40 s	230 m	12 000 cd
HIGH	370 lm	10 h	150 m	
LOW	100 lm	20 h	75 m	
STROBE*	-	5 h	-	
DIMENSIONS	164 x 42 x 49 mm			
WEIGHT	233 g			
THE SET INCLUDES	USB-C cord, handstrap			

*Outside ANSI FL1 Scope



IP67 RATING



1 m IMPACT RESISTANCE



GLASS BREAKER



USB-C CHARGING



POWER BANK



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 800-lumen light output, reaching up to 230 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 IP67-rated construction provides excellent water and impact resistance, while the integrated safety hammer is designed for emergencies, such as breaking windows in critical scenarios.



SEARCHLIGHTS

 **Mactronic**[®]



FLAGGER MAX

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Built for Any Jobsite.

FLAGGER MAX

PSL0073

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

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*visibility



IP66 RATING



1m 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 beam distance 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

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



IPX6 RATING



1m 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 K14

THS0012

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

ANSI FL1 STANDARD

14 000 lm

540 m

POWER SUPPLY	Li-Ion 7,4V 7800 mAh			
CHARGING TIME	9 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	14 000 lm	3 h	540 m	73472 cd
HIGH	6300 lm	3 h 45 min	370 m	35008 cd
MEDIUM	1900 lm	7 h	200 m	10480 cd
LOW	600 lm	22 h 50 min	115 m	3357 cd
SURVIVAL	130 lm	102 h	53 m	706 cd
FLASHING*	-	15 h	-	-
DIMENSIONS	273 x 48 x 100 mm			
WEIGHT	952 g (without battery), 1235 g (with battery)			
THE SET INCLUDES	Li-Ion battery, 100-240V AC charger with interchangeable EU, US, UK adapters, shoulder strap, case			

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



Blitz K14 is a searchlight that generates an impressive 14,000 lm light output. Equipped with four LEDs, it ensures a bright light with a beam distance of up to 540 m. It offers six operating modes and has an IP67 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 Survival mode for up to 102 h. The Blitz K14 is ideal for search and rescue operations, security and surveillance, rescue missions, and preventive measures

BLITZ LR11

THS0031

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED & SECURITY SERVICES

ANSI FL1 STANDARD

1100 lm

1100 m

POWER SUPPLY	Li-Ion 7,4V 2600 mAh / 3 x R14 [C]			
CHARGING TIME	4 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	1100 lm	1 h 30 min	1100 m	300 000 cd
HIGH	700 lm	8 h	810 m	165 000 cd
MEDIUM	310 lm	13 h	535 m	72 000 cd
LOW	110 lm	26 h	315 m	25 000 cd
FLASHING*	-	8 h	-	-
DIMENSIONS	265 x 39,2 x 94 mm			
WEIGHT	557 g (without battery), 685 g (with battery)			
THE SET INCLUDES	Li-Ion battery, 100-240V AC charger with interchangeable EU, US, UK adapters, shoulder strap, case			

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



Blitz LR11 is a handheld flashlight with a beam distance of 1100 m. It offers five operating modes and a run time 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, INDUSTRIAL, UTILITIES

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



REAR RED LED

IPX4
RATING



Vanguard JML is a rechargeable searchlight emitting 1600 lm of light output 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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GUARDIAN XR GUARDIAN XW

In Every Mission,
on the Road, in the Fire,
or Zone 0 – Reliable
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M-FIRE GUARDIAN XR

ANSI FL1 STANDARD

✱ 240 lm

◀ 205 m

PHH0231

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



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 SURVIVAL	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	-	56 h 20 min	-	-
SPOT + FLOOD RED	240 lm	5 h 30 min	-	-
DIMENSIONS	177 x 64 x 67 mm			
WEIGHT	305 g			
THE SET INCLUDES	charging base, 230V AC charger, 12-24V DC car charger			



- IP67 RATING
- 1 m IMPACT RESISTANCE
- CLIP
- BATTERY LEVEL INDICATOR
- Ex I M1 Ex ia I Ma II 1G Ex ia IIC T4 Ga CSANe 22ATEX1206X

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 h of operation in High mode and 224 h in Spot Survival 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

ANSI FL1 STANDARD

✱ 240 lm

◀ 205 m

PHH0235

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



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 SURVIVAL	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	-	96 h 40 min	-	-
SPOT + FLOOD	240 lm	5 h 30 min	-	-
DIMENSIONS	177 x 64 x 67 mm			
WEIGHT	305 g			
THE SET INCLUDES	charging base, 230V AC charger, 12-24V DC car charger			



- IP67 RATING
- 1 m IMPACT RESISTANCE
- CLIP
- BATTERY LEVEL INDICATOR
- Ex I M1 Ex ia I Ma II 1G Ex ia IIC T4 Ga CSANe 22ATEX1206X

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 h of operation in High mode and up to and 224 h in Spot Survival mode. Its rugged IP67-rated body ensures durability in the most demanding environments.

M-FIRE AG Ex

PHH0221

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

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

See the Additional Accessories Table at the end of the catalog. Sold separately.



Ex I M1 Ex ia I Ma
II 1G Ex ia IIC T4 Ga
Sira 15ATEX2166X

ANSI FL1 STANDARD

323 lm

288 m



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 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 & GAS, CHEMICALS

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

See the Additional Accessories Table at the end of the catalog. Sold separately.



Ex I M1 Ex ia I Ma
II 1G Ex ia IIC T4 Ga
DEMKO 15 ATEX 1476X Rev.2

ANSI FL1 STANDARD

235 lm

116 m



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.

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			

See the Additional Accessories Table at the end of the catalog. Sold separately.



Ex ia IIC T4
DEMKO 13 ATEX 1302999X Rev. 1

ANSI FL1 STANDARD

* 290 lm

◀ 160 m



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			

See the Additional Accessories Table at the end of the catalog. Sold separately.



I M1 Ex ia I Ma
II 1G Ex ia IIC T4 Ga
UL 22 ATEX 2935X Rev.0

ANSI FL1 STANDARD

* 400 lm

◀ 150 m



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 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			

IP54
RATING1 m IMPACT
RESISTANCE

I M1 Ex ia op os I Ma
II 1G Ex ia op is IIC T4 Ga
Sira 17ATEX2195X



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 run time 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.

RESCUE SERIES

From Blackout to Rescue,
Ready to Respond.



MONSTER LIGHT MINI RESCUE

* 18 000 lm

◀ 150 m

PFL0151-E-ORANGE

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 x 243 x 226 mm	
WEIGHT	15,3 kg	
THE SET INCLUDES	1 x head, 1 x telescopic mast, 3 x diffuser, 230V AC charger, case	



NEW



IP66 RATING



BATTERY LEVEL INDICATOR

DIFFUSERS:

FLOOD
 ORANGE
 RED



Monster Light Mini Rescue is a compact rechargeable area light engineered for Search & Rescue, emergency response, and blackout situations. In Boost mode, it delivers up to 18,000 lm, providing powerful illumination for search zones, evacuation areas, and critical work sites. Fast, dependable light is essential in these environments. The orange carrying case makes the unit easy to locate after dark. Its rugged IP66-rated housing ensures reliable performance in rain, dust, and mud. Quick to deploy and easy to transport, Monster Light Mini Rescue offers up to 23 h 15 min of run time in Low mode. It is a professional area lighting solution for rescue services and emergency response teams.

FLAGGER MAX RESCUE

ANSI FL1 STANDARD

* 1800 lm

◀ 960 m

PSL0073R

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

POWER SUPPLY	Li-Ion 3.7V 8800 mAh			
CHARGING TIME	7-8 h 5V 1A / 5-6 h 5V 2A			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
WHITE SPOT HIGH	1800 lm	8 h	960 m	231 180 cd
WHITE SPOT MEDIUM	900 lm	16 h	500 m	-
WHITE SPOT FLASHING	1800 lm	16 h	960 m	-
WHITE FLOOD HIGH	300 lm	19 h	200 m*	-
WHITE FLOOD MEDIUM	150 lm	40 h	100 m*	-
ORANGE FLOOD HIGH	30 lm	34 m	300 m*	-
ORANGE FLOOD FLASHING	30 lm	58 h	300 m*	-
DIMENSIONS	189 x 98 x 121 mm			
WEIGHT	635 g			
THE SET INCLUDES	USB-C cord, shoulder strap			

See the Additional Accessories Table at the end of the catalog. Sold separately.

*visibility



IP66 RATING



1 m IMPACT RESISTANCE



USB-C CHARGING



FLOATING



POWER BANK



BATTERY LEVEL INDICATOR



SWITCH LOCK



LAST SETTING MEMORY



NEW



Flagger Max Rescue is a professional searchlight developed for Search & Rescue operations, blackout response, and emergency and evacuation scenarios. It delivers a beam distance of up to 960 m, while the Prefocus beam combines powerful long-range illumination with broad peripheral light. The flood LED panel provides diffused white light and orange signaling light in steady and flashing modes. Its 8800 mAh battery with power bank function delivers up to 58 hours of run time. IP66 ingress protection, 1 m impact resistance, USB-C charging, and a water-floating design support dependable field use.



SIGNAL LIGHTING

O-FLARE

When Every
Second Counts,
Make It Seen.



O-FLARE

✳ 30 x LED = 1 disc

PSD0113

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

POWER SUPPLY	6 x Li-Ion 3,7V 2200 mAh		
CHARGING TIME	6 - 7 h		
	RUN TIME SYNCHRONIZED MODES - SET OF DISCS		RUN TIME INDIVIDUAL MODES - SINGLE DISC
SINGLE BLINK	20 h	ROTATING FLASH	7 h
SINGLE BLINK SYNCHRONIZE	15 h	DOUBLE BLINK	17 h
QUICK FLASH	50 h	SINGLE BLINK	11 h
DOUBLE BLINK	12 h	STEP FLASH	5 h
PULSE FLASH (WAVE)	8 h	SOS	3 h 30 min
-	-	CONSTANT	3 h
DIMENSIONS	92 x 43 mm [disc], 173 x 173 x 43 mm [case]		
WEIGHT	200 g [disc], 3,8 kg [case]		
THE SET INCLUDES	6 x disc, 230V AC charger, 12V DC car charger, charging case		



- IPX7 RATING
- 1m IMPACT RESISTANCE
- MAGNET
- SYNCHRO

COLORS:



O-Flare is a set of six synchronized signaling discs designed to enhance safety in work zones, road transport, and rescue operations. The discs can be mounted on traffic cones and, thanks to built-in magnets, easily attached to metal surfaces. They emit an amber signal light in five synchronized modes or six desynchronized modes. Powered by 2200 mAh Li-ion batteries, they operate for up to 50 hours in Quick Flash mode. The set includes six discs, a charging and transport case, a 230 V AC wall charger, and a 12 V DC car charger.

X-FLARE

✳ 12 x LED [30 lm] = 1 disc

PSD0112

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

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



- IP67 RATING
- MAGNET
- FLOATING
- 5m IMPACT RESISTANCE (disc)

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

PS00012 - PS00018

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

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



- 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.

TRAFFIC CONE

L-NJ01-ROHS

APPLICATIONS: ROADWORKS, RESCUE, TRANSPORTATION, ROADSIDE ASSISTANCE

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

- IP66 RATING



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.

FLASHGUARD

100 lm

PFS0100, PFS0110, PFS0111, PFS0112, PFS0200, PFS0210
APPLICATIONS: RESCUE, TRANSPORTATION, CONSTRUCTION, ROADWORKS, INDUSTRIAL, UTILITIES, MILITARY, FIREFIGHTING

CODE	LIGHT OUTPUT TOP LIGHT - WHITE	LIGHT OUTPUT FLASHING	POWER SUPPLY	SYNCHRO FUNCTION	THE SET INCLUDES
PFS0100	100 lm	60 lm 50 lm	4 x AA	-	battery case
PFS0110	100 lm	60 lm	4 x AA	-	battery case
PFS0111	100 lm	50 lm	26650 Li-Ion	-	magnetic cap, 26650 Li-Ion battery, USB-C cord
PFS0112	100 lm	80 lm	26650 Li-Ion	-	magnetic cap, 26650 Li-Ion battery, USB-C cord
PFS0200	100 lm	60 lm 50 lm	26650 Li-Ion	✓	magnetic cap, 26650 Li-Ion battery, USB-C cord
PFS0210	100 lm	80 lm	26650 Li-Ion	✓	magnetic cap, 26650 Li-Ion battery, USB-C cord
RUN TIME	30 - 32 h (max)				
OPERATING TEMPERATURE	-20°C do +65°C				
DIMENSIONS	55 x 180 mm				
WEIGHT	190 g (without batteries) / 310 g (with batteries)				

See the Additional Accessories Table at the end of the catalog. Sold separately.

IP68 RATING
3 m IMPACT RESISTANCE
USB-C CHARGING
SYNCHRO
COLORS:

FlashGuard is a signaling flare widely used in areas that require position marking, emergency lighting, or temporary illumination. It is perfectly suited for daily work in rescue, uniformed, and transport services, as well as for industry, railway, aviation, and mining workers. It performs reliably in the field, providing visibility up to 1.5 km. The device features IP68 water resistance and can withstand drops from a height of 3 m. It is available in four light color variants: orange, red, blue, and red-blue. Each model also emits a 100 lm focused white beam. Powered by four batteries or a Li-Ion 26650 cell, the rechargeable version has a magnetic cap for mounting on metal surfaces. A synchronized option allows several flares to be linked together to mark larger zones.





WORK LIGHTS

GATOR GRIP

Clamp On. Light Up.
Get It Done.



GATOR GRIP

✱ 1700 lm

◀ 52 m

PWL0112

APPLICATIONS: AUTOMOTIVE SERVICES, DETAILING, INDUSTRIAL, DIY

POWER SUPPLY	Li-Ion 3.7V 5200 mAh			
CHARGING TIME	3 h 30 min			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
HIGH	1700 lm	3 h	52 m	630 cd
MEDIUM	750 lm	5 h	34 m	280 cd
LOW	350 lm	8 h	23 m	130 cd
SURVIVAL	135 lm	24 h	14 m	50 cd
DIMENSIONS	176 x 105 x 95 mm			
WEIGHT	625 g			
THE SET INCLUDES	USB-C cord			



- IP65 RATING
- 2 m IMPACT RESISTANCE
- IK06 RATING
- USB-C CHARGING
- BATTERY LEVEL INDICATOR
- ADJUSTABLE HEAD
- LAST SETTING MEMORY
- MAGNET
- CLAMP
- 6200 K



Gator Grip is a work light with a strong clamp for secure mounting on pipes, beams, and edges, combined with a magnetic base for quick attachment to metal surfaces. Designed for industry, workshops, and construction sites, it delivers up to 1700 lm of cool white light (6200K) from a COB LED panel, featuring four modes: high, medium, low, and survival (up to 24 hours). The adjustable head (270° tilt, 340° rotation) provides precise illumination of hard-to-reach areas. A rugged build (IP65, IK06) ensures durability in demanding conditions, with impact resistance up to 2 m. Powered by a 5200 mAh Li-Ion battery with fast USB-C charging (3.5 h), Last Setting Memory, and battery level indicator. Gator Grip offers reliable, hands-free lighting with versatile mounting options.

TWIN BEAM

✱ 700 lm

◀ 69 m

PWL0111

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

POWER SUPPLY	Li-Ion 3.7V 2600 mAh		
CHARGING TIME	4 h		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
FLOOD HIGH	700 lm	2 h 45 min	32 m
FLOOD MEDIUM	350 lm	4 h 30 min	-
FLOOD LOW	120 lm	12 h	-
SPOT	300 lm	4 h	69 m
DIMENSIONS	93,5 x 80 x 35,5 mm		
WEIGHT	210 g		
THE SET INCLUDES	USB-C cord		



- IPX5 RATING
- 2 m IMPACT RESISTANCE
- IK07 RATING
- USB-C CHARGING
- BATTERY LEVEL INDICATOR
- CRI 80
- ADJUSTABLE HEAD
- MAGNET



Twin Beam is a compact work light equipped with two independent light sources: a COB LED panel for wide-area illumination (flood) and a focused LED (spot) with a beam distance of up to 69 meters. It operates in three lighting modes, allowing the user to adjust the output for various tasks. The adjustable magnetic base enables precise light direction. A battery level indicator on the back of the housing provides a quick status check. Powered by a 3.7V 2600 mAh Li-Ion battery, the light offers up to 12 hours of run time and charges via a USB-C port. Twin Beam operates effectively in temperatures from -10°C to +40°C and is resistant to impacts from drops of up to 2 meters. With a CRI of 80, it ensures accurate color rendering.

SOLO BEAM

✱ 5000 lm

◀ 85 m

PWL0120 / PWL0121

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

POWER SUPPLY	5000 mAh, 18-20V, Power Tool Battery / Li-Ion 14,8V 5200 mAh		
CHARGING TIME	4 h 30 min (Li-Ion 14,8V 5200 mAh)		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
	Power Tool Battery, 18V, 5000 mAh		
HIGH	5000 lm	2 h 15 min	85 m
MEDIUM	2500 lm	4 h 30 min	-
LOW	1500 lm	7 h 15 min	-
SURVIVAL	500 lm	20 h	-
	Li-Ion 14,8V 5200 mAh		
HIGH	5000 lm	2 h	85 m
MEDIUM	2500 lm	4 h	-
LOW	1500 lm	6 h	-
SURVIVAL	500 lm	15	-
DIMENSIONS	280 x 280 x 148 mm		
WEIGHT	1,98 kg (bez baterii); 2,63 kg (z baterii i adapterem)		
THE SET INCLUDES	PWL0120: Li-Ion battery, Mactronic Li-Ion battery adapter, 4 x Power Tool Battery Adapters (Milwaukee®, Makita®, Bosch® Professional, DeWalt®) PWL0121: Mactronic Li-Ion battery adapter, 4 x Power Tool Battery Adapters (Milwaukee®, Makita®, Bosch® Professional, DeWalt®)		



NEW



- IP65 RATING
- IK10 RATING
- BATTERY LEVEL INDICATOR
- CONTROL PANEL
- ADJUSTABLE HEAD
- HOOKS
- MAGNET
- 2700 K / 3500 K / 4500 K / 5500 K / 6500 K

Solo Beam is a compact work light designed for service, installation, workshop, and field applications. It can be powered by a Mactronic Li-Ion 14.8 V 5200 mAh battery or by 18–20 V batteries from leading power tool brands. It delivers up to 5000 lm, provides a beam distance of up to 85 m, and allows color temperature adjustment from 2700 to 6500 K in every lighting mode. The rear control panel, adjustable stand, and hanging hooks make it easy to use in a wide range of conditions, while the IP65 and IK10 ratings confirm its durability. Two versions are available: with adapters, battery, and charger (PWL0120), or with adapters only (PWL0121). An optional magnetic mount, sold separately, allows convenient attachment to metal surfaces.

DUAL BEAM

✱ 4500 lm

◀ 80 m

PWL0081 / PWL0081/SET

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

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
SURVIVAL	750 lm	12 h	35 m
DIMENSIONS	288 x 131 x 176 mm		
WEIGHT	1594 (without battery), 2172 g (with battery)		
THE SET INCLUDES	PWL0081: Li-Ion battery, 230V AC charger PWL0081/SET: 2 x Li-Ion battery, magnetic mount, 230V AC charger, case		

See the Additional Accessories Table at the end of the catalog. Sold separately.

- IP54 RATING
- 2 m IMPACT RESISTANCE
- IK07 RATING
- POWER BANK
- ADJUSTABLE HEADS



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 Survival 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

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			



- IP66 RATING
- 2 m IMPACT RESISTANCE
- ADJUSTABLE HEAD
- HOOK
- MAGNET
- BATTERY LEVEL INDICATOR



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.

FLEXI BEAM

PWL0091

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

ANSI FL1 STANDARD

600 lm

30 m

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



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



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, DIY

ANSI FL1 STANDARD

✳ 1000 lm

◀ 29 m

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



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.

SUNSCAN 5.4

PWL0051

APPLICATIONS: AUTOMOTIVE SERVICES, DETAILING, PHOTOGRAPHY, INDUSTRIAL

✳ 2000 lm

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

See the Additional Accessories Table at the end of the catalog. Sold separately.



IP65 RATING



0,7 m IMPACT RESISTANCE



IK07 RATING



CRI 96



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 2700 K to 6500 K. 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.

DURA TOOL

PWL0014

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

ANSI FL1 STANDARD

110 lm

15 m

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



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

PWL0021

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

350 lm

250 m

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

See the Additional Accessories Table at the end of the catalog. Sold separately.



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.



AREA LIGHTING



SKYLUX 200

Elevate the Light.
Expand the Reach.

SKYLUX 200

TL00010

APPLICATIONS: FIREFIGHTING, RESCUE, MILITARY, CONSTRUCTION, WORK SAFETY

* 20 000 lm

◀ 315 m²

LIGHT OUTPUT	20 000 lm
LIGHT RANGE	315 m ²
LED LIGHTING POWER	200 W
OPERATING TEMPERATURE	-20°C - +60°C
HIGH ALTITUDE OPERATIONS	4500 m a.s.l.

POWER SUPPLY SYSTEM

INPUT VOLTAGE	AC 230 V, 50 Hz
RATED POWER	350 W

LIGHTING DRONE

DIMENSIONS (WITHOUT PADDLES)	185 × 185 × 85 mm
WEIGHT	< 250 g
WHEELBASE	230 mm
MAXIMUM FLIGHT ALTITUDE	12 m
CONTROL MODE	Hand-held Remote Controller
CONNECTION MODE	Wired Control
WIND RESISTANCE LEVEL	Class 6 (wind speed up to 50 km/h)
RAIN RESISTANCE LEVEL	Class 10

TETHERED BOX

WEIGHT	< 10 kg (including drone and other accessories)
DIMENSIONS	About 500 × 380 × 240 mm
CORD LENGTH	About 12 m



WIND RESISTANCE:
CLASS 6



RAIN RESISTANCE:
CLASS 10

Skylux 200 is a ground-powered, tethered-drone lighting system. It ascends to 12 meters and provides 360° illumination up to 20,000 lumens. Ready to deploy in under five minutes, it requires no masts or UAV permits. Ideal for rescue missions, military operations, technical inspections, and construction sites. The power tether ensures continuous operation, while the wind- and rain-resistant design delivers reliable performance in demanding field conditions.



LUMILINE 25

PLR0100

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

* 32 000 lm

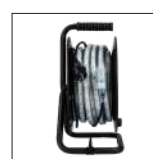
POWER SUPPLY	230V AC
POWER	300 W
LIGHT OUTPUT	32 000 lm
COLOR TEMPERATURE	4000 K
DIMENSIONS	305 x 200 x 390 mm
LENGTH	25 m
WEIGHT	5 kg
THE SET INCLUDES	-



IP65 RATING



CRI >90



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 using a second model of light rope. With 180 LEDs per meter and a color temperature of 4000 K, 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.

HALO 100K

100 000 lm

PFL0242

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



POWER SUPPLY	100-240V AC
POWER	660 W
LIGHT OUTPUT	10 000 - 100 000 lm
CRI	> 80
COLOR TEMPERATURE	5000 K
OPERATING TEMPERATURE	-15°C - +40°C
LIFETIME	70,000 h (25°C)
HOUSING	polycarbonate, aluminum, steel
DIMENSIONS	685 x 493,2 x 493,2 mm
WEIGHT	17 kg
THE SET INCLUDES	230V AC power cord with wire remote control

See the Additional Accessories Table at the end of the catalog. Sold separately.



IP65 RATING



IK08 RATING



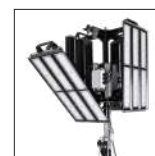
ADJUSTABLE HEADS



HOOK



ADVANCED DIMMING SYSTEM



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.

TOWER BEAM

12 000 lm

40 m

PFL0300

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

POWER SUPPLY	AC 230V / Li-Ion 24,5V, 4 Ah		
POWER	79,2 W		
CHARGING TIME	3 h 40 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
	AC 230V		
ADS	0-12 000 lm	-	-
	Li-Ion 24,5V, 4 Ah		
BOOST	6000 lm	4 h	222 m
HIGH	3500 lm	8 h	154 m
MEDIUM	2200 lm	20 h	121 m
LOW	600 lm	45 h	65 m
DIMENSIONS	1070 x 240 x 300 mm		
WEIGHT	6,3 kg		
THE SET INCLUDES	Li-Ion battery, 230V AC charger, 230V AC driver, anchor pins (10 pcs.), HD transport bag		



IP66 RATING



POWER BANK



HYBRID POWER MODE



BATTERY LEVEL INDICATOR



CONTROL PANEL



ADVANCED DIMMING SYSTEM



ADJUSTABLE HEADS



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 beam distance 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.

TOWER BEAM X2

PFL0330

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

☀️ 14 000 lm

◀️ 356 m

POWER SUPPLY	AC 230V / 2 x Li-Ion 25,6V 3,8 Ah		
CHARGING TIME	5 h 15 min [2 x bat.], 2 h 50 min [1 x bat.]		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
	AC 230V		
ADS	0-14 000 lm	-	-
	2 x Li-Ion 25,6V 3800 mAh		
BOOST	8000 lm	6 h 30 min	356 m
HIGH	5000 lm	13 h 10 min	287 m
MEDIUM	3000 lm	26 h 15 min	240 m
LOW	800 lm	71 h 30 min	88 m
DIMENSIONS	1250 x 261 x 200 mm		
WEIGHT	9,2 kg (without battery), 10 kg (with battery)		
THE SET INCLUDES	230V AC charger, 230V AC driver, 2 x Li-Ion 25.6V, 3.8 Ah, anchor pins (10 pcs.), HD transport bag		



- IP66 RATING
- IK10 RATING
- ADVANCED DIMMING SYSTEM
- HYBRID POWER MODE
- ADJUSTABLE HEADS
- POWER BANK
- CONTROL PANEL
- BATTERY LEVEL INDICATOR



Tower Beam X2 is a high-performance area light designed for industrial, service, emergency response, and rescue applications. With Hybrid Power Mode, it can run on 230V AC or two 25.6V 3.8Ah Li-Ion batteries. It delivers up to 8000 lm on batteries and up to 14 000 lm when connected to AC power and used with ADS. The adjustable mast extends to 3.1 m, while two adjustable heads help illuminate a larger work area effectively. Run time reaches up to 3 days in Low mode. A Power Bank function, dual charger included, and compact folded form make it easy to transport, deploy quickly, and use efficiently on site, in the field, and during blackouts or emergency situations.

TOWER BEAM X3

PFL0320

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

☀️ 10 000 lm

◀️ 120 m

POWER SUPPLY	230V AC / Power Tool Battery (Li-Ion 18-20V, 5A)		
POWER	80 W		
CHARGING TIME	8 h (5 Ah, 18V, 5A)		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
	Power Tool Battery 18V, 5000 mAh		
BOOST	10 000 lm	1 h 30 min	120 m
HIGH	8000 lm	2 h	108 m
MEDIUM	6000 lm	2 h 45 min	95 m
LOW	4000 lm	4 h	76 m
SURVIVAL	2000 lm	8 h	55 m
	AC 230V AC		
BOOST	6000 lm	-	90 m
HIGH	4800 lm	-	80 m
MEDIUM	3500 lm	-	72 m
LOW	2200 lm	-	59 m
SURVIVAL	1000 lm	-	42 m
DIMENSIONS	1100 x 199 x 207 mm		
WEIGHT	8 kg (without battery)		
THE SET INCLUDES	230V AC driver, 5 x Power Tool Battery Adapters (Milwaukee®, Makita®, Bosch® Professional, Bosch® Home & Garden, DeWalt®), anchor pins (10 pcs.), HD transport bag		



- IPX4 RATING
- IK07 RATING
- 1 m IMPACT RESISTANCE
- HYBRID POWER MODE
- ADJUSTABLE HEADS
- POWER BANK
- CONTROL PANEL
- BATTERY LEVEL INDICATOR



Tower Beam X3 is a professional-grade area light designed for industrial, service, and rescue applications. Hybrid Power Mode allows it to be powered from 230 V AC mains or from 18–20 V / 5 Ah power-tool batteries—five adapters are included (Milwaukee®, Makita®, Bosch® Professional, Bosch® Home & Garden, DeWalt®). Three adjustable heads provide 360° all-around illumination and precise beam aiming. On battery power, it delivers light output up to 10,000 lm, and on AC power up to 6,000 lm. Control via the control panel, a battery level indicator, and USB-A and USB-C ports make field operation easier, enabling quick power and charging of external devices without additional power sources. The option to select color temperature (4000 K / 6500 K) and the wide operating temperature range from -20 to +40°C ensure optimal visibility and reliable performance in changing conditions—from cool warehouses and construction sites to demanding field operations.

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	



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 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 × 420 × 260 mm	
WEIGHT	34,1 kg	
THE SET INCLUDES	2 x built-in USB, 2 × head, 2 × telescopic mast, 6 × diffuser, 230V AC charger, case	



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.



SHELTER LIGHTS

GALAXY OPL

Discreet Illumination,
Maximum Protection.



GALAXY OPL BLUE

* 2500 lm

OPL0011 / OPL0012

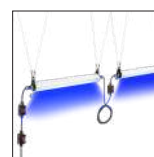
APPLICATIONS: MILITARY, AIR DEFENSE, MEDICAL, RESCUE



POWER SUPPLY	230V 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	885 g

THE SET INCLUDES

OPL0011: power cord 230V AC (5 m) 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
 OPL0010-P4.5: 4.5 m cord for connecting lamps in series



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

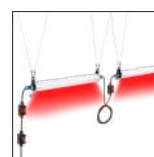
APPLICATIONS: MILITARY, AIR DEFENSE, MEDICAL, RESCUE



POWER SUPPLY	230V 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	940 g

THE SET INCLUDES

OPL0013: power cord 230V AC (5 m) 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
 OPL0010-P4.5: 4.5 m cord for connecting lamps in series



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 3.1 BLACK

✦ 4500 lm

RDL0112-2B

APPLICATIONS: MILITARY, AIR DEFENSE, MEDICAL, RESCUE



POWER SUPPLY	230V AC / 50 Hz
POWER	8W - 30W
LIGHT OUTPUT	1200 lm - 4500 lm
OPERATING TEMPERATURE	-35° C - +50° C
COLOR TEMPERATURE	4000 K
LIFESPAN	80 000 h
HOUSING	aluminum, polycarbonate
DIMENSIONS	350 x 103 x 100 mm (+ cord with power switch 450 mm)
WEIGHT	1,70 kg
THE SET INCLUDES	RDL0112-2B: Shelter Light, Mounting Accessories: 2 x hanging wire ropes, 2 x straps with carabiners - > up to 15 units in series
OUT OF SET	RDL0112-P5B: 5 m Power Cord with IP54 Schuko plug (sold separately) RDL0013-P5B: 5 m Power Cord with IP68 BALS Schuko plug (sold separately) RDL0010-P2.5-2B: 2,5 m Interconnection Cord (sold separately)



Galaxy 3.1 Black is a professional shelter light engineered for industrial, rescue, medical, and military applications. The new black-housing version features the Advanced Dimming System (ADS), offering smooth brightness control from 1200 lm to 4500 lm for precise adjustment to task requirements and operating conditions. The system supports a linear connection of up to 15 lights within a single power circuit. Its IP66- and IK10-rated housing provides protection against dust, water, and mechanical damage. The set includes only mounting accessories: 2 steel hanging wire ropes and 2 straps with carabiners. Power cords are available separately (with an IP54 Schuko plug or an IP68 BALS Schuko plug).

GALAXY 3.3 BLACK

✦ 4100 lm

RDL0013-3B

APPLICATIONS: MILITARY, AIR DEFENSE, MEDICAL, RESCUE



POWER SUPPLY	230V AC / 50 Hz
POWER	8W - 30W
LIGHT OUTPUT	1100 lm - 4100 lm
OPERATING TEMPERATURE	-35° C - +50° C
COLOR TEMPERATURE	4000 K
LIFESPAN	80 000 h
HOUSING	aluminum, polycarbonate
DIMENSIONS	350 x 103 x 100 mm (+ cord with power switch and dimmer 450 mm)
WEIGHT	1,87 kg
THE SET INCLUDES	RDL0013-3B: Shelter Light with Power Back-up, mounting accessories: 2 x hanging wire ropes, 2 x straps with carabiners - > up to 15 units in series
OUT OF SET	RDL0112-P5B: 5 m Power Cord with IP54 Schuko plug (sold separately), RDL0013-P5B: 5 m Power Cord with IP68 BALS Schuko plug (sold separately) RDL0010-P2.5-2B: 2,5 m Interconnection Cord (sold separately)



GALAXY 3.3 Black is a professional shelter light with emergency back-up power, built for industrial, rescue, medical, and military applications. Housed in a black casing, it features the Advanced Dimming System (ADS), enabling smooth brightness control from 1100 lm to 4100 lm. Its power back-up function provides up to 1 hour of operation after a 230 V AC power outage, supported by a built-in Li-ion 10.8 V 2600 mAh battery. The system supports a linear connection of up to 15 lights within a single power circuit. Its IP66- and IK10-rated housing provides protection against dust, water, and mechanical damage. Power cords are available separately (with an IP54 Schuko plug or an IP68 BALS Schuko plug).

GALAXY 3.0 BLACK SET

✦ 4500 lm

RDL0011-1B/SET

APPLICATIONS: MILITARY, AIR DEFENSE, MEDICAL, RESCUE



POWER SUPPLY	230V AC / 50 Hz
POWER	30W
LIGHT OUTPUT	4500 lm
OPERATING TEMPERATURE	-35° C - +50° C
COLOR TEMPERATURE	4000 K
LIFESPAN	80 000 h
HOUSING	aluminum, polycarbonate
DIMENSIONS	350 x 103 x 100 mm
WEIGHT	4,17 kg
THE SET INCLUDES	RDL 0011-1B/SET: 2 x Shelter Light, 5 m Power Cord with IP54 Schuko plug and ON/OFF switch (RDL0014-P5), 2.5 m Interconnection Cord, Mounting Accessories: 4 x hanging wire ropes, 4 x straps with carabiners - > up to 15 units in series



IP66 RATING

IK10 RATING



GALAXY 3.0 Black Set is a complete shelter lighting kit for industrial, rescue, medical, and military applications, powered by 230 V AC mains. Two shelter lights, each delivering 4500 lm, provide strong, even illumination wherever fast deployment and clear visibility are essential. The switch integrated into the power cord makes the system easy to operate, while the setup can be expanded to up to 15 lights connected in a linear run. The set includes: 2 shelter lights, a 5 m power cord with an IP54 Schuko plug, a 2.5 m interconnection cord, and mounting accessories: 4 steel hanging wire ropes and 4 straps with carabiners.



WEAPON MOUNTED LIGHTS

HUSSAR GL

Green Laser Accuracy,
Built for Precision
in Any Light.



HUSSAR GL

TH60011

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, AIRSOFT

ANSI FL1 STANDARD

900 lm*

220 m*

POWER SUPPLY	2 x CR123A / 2 x 16340 Li-Ion 3,6V 850 mAh			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
	2 x CR123A			
BOOST* - HIGH	900* ~ 730 lm	1 h 30 min	220* ~ 200 m	12 270* ~ 10 240 cd
LOW	140 lm	8 h	85 m	1820 cd
STROBE*	-	< 4 h	-	-
	2 x 16340 Li-Ion 3,6V 850 mAh			
BOOST* - HIGH	900* ~ 750 lm	1 h	220* ~ 200 m	12 270* ~ 10 080 cd
LOW	140 lm	5 h 45 min	85 m	1820 cd
STROBE*	-	2 h*	-	-
	2 x CR123A / 2 x 16340 Li-Ion 3,6V 850 mAh			
GREEN LASER (532 nm) - IIIA, < 5mW	-	10 h	500 m	-
DIMENSIONS	88 x 36 x 40 mm			
WEIGHT	126 g (without battery), 158 g (with battery)			
THE SET INCLUDES	2 x CR123A batteries, hexagonal wrench, screwdriver			

*Outside ANSI FL1 Scope



Hussar GL is an advanced handgun flashlight that combines an intense white beam of up to 900 lumens with a green laser, offering a range of 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 850 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 hexagonal wrench for laser adjustment (horizontal and vertical), and a screwdriver for mounting screw adjustments.

HUSSAR

TH60010

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, AIRSOFT

ANSI FL1 STANDARD

1050 lm*

250 m*

POWER SUPPLY	2 x CR123A / 2 x 16340 Li-Ion 3,6V 850 mAh			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
	2 x CR123A			
BOOST* - HIGH	1050* ~ 760 lm	3 h 10 min	250* ~ 210 m	14 985* ~ 10 850 cd
LOW	230 lm	4 h 30 min	120 m	3340 cd
STROBE*	-	< 4 h*	-	-
	2 x 16340 Li-Ion 3,6V 850 mAh			
BOOST* - HIGH	1050* ~ 850 lm	2 h	250* ~ 220 m	14 985* ~ 11 990 cd
LOW	230 lm	3 h 30 min	120 m	3340 cd
STROBE*	-	2 h*	-	-
DIMENSIONS	90 x 36 x 38 mm			
WEIGHT	114 g (without battery), 146 g (with battery)			
THE SET INCLUDES	2 x CR123A batteries, screwdriver			

*Outside ANSI FL1 Scope



Hussar is an advanced tactical flashlight for handguns, emitting an intense white beam with a maximum light output of 1050 lumens. The flashlight is ideal for illuminating a beam distance of up to 250 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 CR123A - included) or rechargeable (16340 Li-Ion 850 mAh) batteries. The flashlight's design is optimized for compatibility with popular holsters, and its IPX6 rating ensures water resistance, allowing it to withstand submersion. Hussar is indispensable for law enforcement, special units, and civilian users.

T-FORCE XP

THH0211

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES, AIRSOFT

ANSI FL1 STANDARD

2030 lm

330 m

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope

**BOOST mode run time indicates the total duration, including automatic step-down due to thermal regulation, increased power draw, and circuit protection mechanism.



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 3,6V 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

THH0151.1

APPLICATIONS: MILITARY, LAW ENFORCEMENT, UNIFORMED SERVICES

ANSI FL1 STANDARD

700 lm

170 m

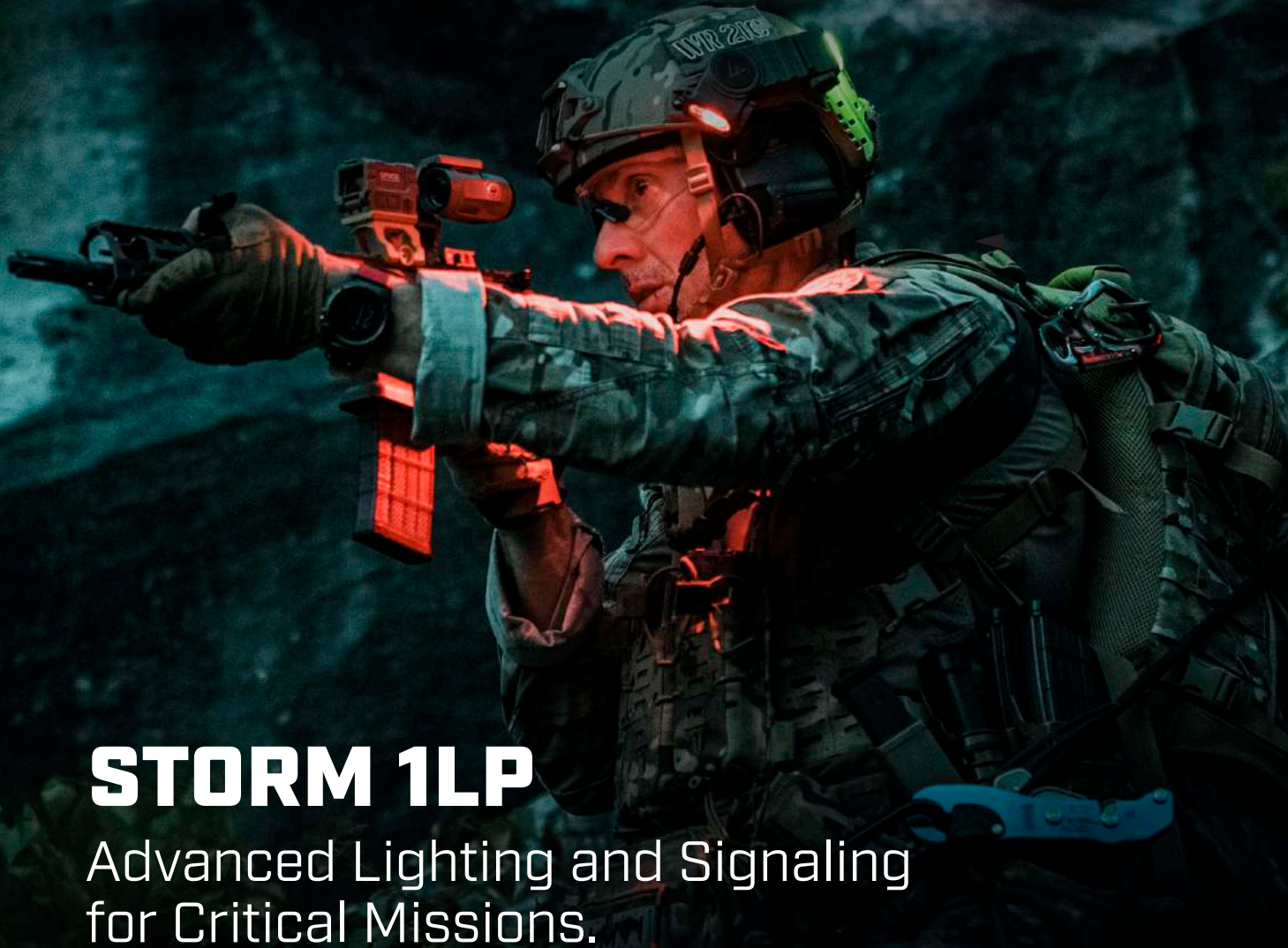
POWER SUPPLY	2 x CR123A / 1 x 18650 Li-Ion		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
HIGH	700 lm	45 min	170 m
DIMENSIONS	129 x 25,3 x 32,4 mm		
WEIGHT	95 g (without batteries), 130 (with batteries)		
THE SET INCLUDES	class switch, remote pressure switch		



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.



HEADLAMPS & HELMET LIGHTING



STORM 1LP

Advanced Lighting and Signaling
for Critical Missions.



STORM 1LP

THL0051

APPLICATIONS: MILITARY, LAW ENFORCEMENT, RESCUE, TCCC

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			

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



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.

PRISM

THL0141

APPLICATIONS: MILITARY, OUTDOOR, SURVIVAL, RESCUE

ANSI FL1 STANDARD

650 lm

80 m

POWER SUPPLY	18650 Li-Ion 3,6V 3400 mAh / USB-C			
CHARGING TIME	2 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
COMBO (SPOT + FLOOD)	30 - 650 lm	58 h - 6 h 30 min	80 m	-
SPOT WHITE	20 - 300 lm	90 h - 14 h	65 m	-
FLOOD WARM WHITE	10 - 200 lm	135 h - 18 h	25 m	-
RED LED	10 lm	-	-	-
BLUE LED	5 lm	-	-	-
GREEN LED	25 lm	-	-	-
RED LED FLASHING	-	-	-	-
DIMENSIONS	59 x 31 x 45 mm			
WEIGHT	138 g (with battery) / 89 g (without battery)			
THE SET INCLUDES	Li-Ion battery, USB-C cord, 2 x headband, NVG mount			



NEW



Prism is a headlamp with a maximum light output of 650 lm and an integrated NVG mount for combat and lightweight firefighter helmets. Equipped with RGB lights (red, blue, green), it supports signaling and tactical operations. It offers spot white, flood warm white, and combo modes with smooth brightness adjustment (ADS), allowing precise control of the beam. Powered by a Li-Ion 18650 3400 mAh battery with USB-C charging. The IPX7 rating protects against short-term immersion in water. The set includes a battery, two headbands, and an NVG mount for a lightweight helmet.

NOMAD 03

THL0022MN

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

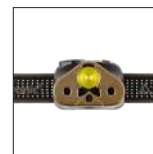
✱ 340 lm

◀ 120 m



POWER SUPPLY	3 x AAA		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
HIGH	340 lm	40 h	120 m
MEDIUM	170 lm	75 h	-
LOW	35 lm	130 h	-
SURVIVAL	7 lm	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		

See the Additional Accessories Table at the end of the catalog. Sold separately.



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 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.

CAMO II

AHL015

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

ANSI FL1 STANDARD

✱ 490 lm

◀ 150 m

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



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.

BLACK EYE H40

ANSI FL1 STANDARD

✱ 4000 lm

◀ 245 m

THL0061

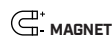
APPLICATIONS: MILITARY, HUNTING, SCOUTING, OUTDOOR, SURVIVAL, RESCUE



POWER SUPPLY	21700 Li-Ion 3,7V 5000 mAh			
CHARGING TIME	4 - 6 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
	FLOOD / SPOT / FLOOD + SPOT			
BOOST*	1000lm/3000lm/4000lm	4h30min/2h/3h10min**	80m/227m/245m	958cd/13300cd/14300cd
HIGH	330lm/970lm/1200lm	5h50min/3h25min/3h40min	50m/145m/150m	682cd/5300cd/5594cd
MEDIUM	160lm/340lm/500lm	13h/6h25min/4h	35m/85m/93m	309cd/1833cd/2148cd
LOW*	53lm/48lm/100lm	48h/50h25min/21h	20m/30m/37m	100cd/237cd/344cd
SURVIVAL*	1lm/1lm/2lm	40 days / 40 days / 28 days	3 m / 4 m / 5 m	2 cd / 5 cd / 6 cd
RED	0,2lm - 117lm	3 h 30 min - 52 days	1m - 37m	1cd - 350 cd
RED FLASHING	75 lm	-	-	-
DIMENSIONS	87 x 41 x 31 mm			
WEIGHT	105,4 g (without battery), 173,1 g (with battery)			
THE SET INCLUDES	21700 Li-Ion battery, headband, USB-C cord, hard shell case, 2 x o-ring			



*Outside ANSI FL1 Scope
**BOOST mode run time indicates the total duration, including automatic step-down due to thermal regulation, increased power draw, and circuit protection mechanism.



Black Eye H40 is a professional headlamp with up to 4000 lm output and a 245 m beam. It suits law enforcement, outdoor enthusiasts, and industrial workers. Three light sources offer Spot, Flood, Spot+Flood, and Red or Red Flashing modes. Double-clicking activates Boost mode for each light source, delivering maximum brightness. Its IPX6 rating, aerospace-grade aluminum body, and 1.5 m impact resistance ensure durability in harsh conditions. A 21700 battery (5000 mAh) with USB-C charging supports up to 40 days of run time. Additional features include Last Setting Memory, battery level indicator, switch lock, and Adaptive Cooling Technology to prevent overheating. This headlamp is reliable for rescue, tactical, outdoor, and industrial use.

SIRIUS H12

AHL0172

APPLICATIONS: BUSHCRAFT, SURVIVAL, CAMPING, EDC, DIY

✱ 1200 lm

◀ 115 m

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

See the Additional Accessories Table at the end of the catalog. Sold separately.



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.

 **Mactronic**[®]



VAYA

Light on the Move.
Freedom in Every Step.

VAYA

AHLO091 / AHLO092

APPLICATIONS: TREKKING, JOGGING, OUTDOOR, CAMPING

POWER SUPPLY	Li-Po 3,7V 1250 mAh / 3 x AAA			
CHARGING TIME	2 h 20 min			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
	Li-Po 3,7V 1250 mAh			
COMBO (SPOT + FLOOD)	480 ~ 44 lm	3 ~ 17 h	60 m	70 ~ 681 cd
SPOT WHITE	270 ~ 15 lm	5 ~ 47 h	54 m	33 ~ 470 cd
FLOOD WARM WHITE	170 ~ 5 lm	7 ~ 102 h	20 m	3 ~ 87 cd
RED LED	13 lm	-	-	-
RED LED FLASHING	13 lm	-	-	-
	3 x AAA			
COMBO (SPOT + FLOOD)	480 ~ 55 lm	3 ~ 19 h	60 m	70 ~ 681 cd
SPOT WHITE	300 ~ 18 lm	4 ~ 52 h	54 m	33 ~ 470 cd
FLOOD WARM WHITE	200 ~ 7 lm	3 ~ 106 h	20 m	3 ~ 87 cd
RED LED	15 lm	-	-	-
RED LED FLASHING	15 lm	-	-	-
DIMENSIONS	59 x 35 x 47 mm			
WEIGHT	94 g (with 3 x AAA battery) / 85 g (with Li-Po battery)			
THE SET INCLUDES	Li-Po battery, USB-C cord, headband			

- IPX8 RATING
- 1,2 m IMPACT RESISTANCE
- DUAL SOURCE SYSTEM
- ADVANCED DIMMING SYSTEM
- MOTION SENSOR
- USB-C CHARGING

Vaya is a compact headlamp with a maximum light output of 480 lm. Powered by a Li-Po battery rechargeable via USB-C or 3 x AAA batteries (DSS), it ensures light even far from power sources. With IPX8 water resistance, it is protected against immersion. Weighing only 85 g, it remains comfortable during long use. It features smooth mode adjustment (ADS), spot (spot white), flood (warm flood white), combo (spot + flood mode), and red light – steady for night vision and flashing as a warning signal.

ANSI FL1 STANDARD

480 lm

60 m

NEW



AHLO091 - ORANGE



AHLO092 - GRAY



TUNDRA

THLO11

APPLICATIONS: EDC, HUNTING, OUTDOOR, BUSHCRAFT

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

- IPX4 RATING
- 1 m IMPACT RESISTANCE
- ADVANCED DIMMING SYSTEM
- LAST SETTING MEMORY

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.

ANSI FL1 STANDARD

215 lm

94 m



MAVERICK

ANSI FL1 STANDARD

✱ 595 lm

◀ 170 m

AHL0053

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

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

*Outside ANSI FL1 Scope

See the Additional Accessories Table at the end of the catalog. Sold separately.

- IP64 RATING
- 2 m IMPACT RESISTANCE
- USB-C CHARGING
- DUAL SOURCE SYSTEM
- FOCUS
- MOTION SENSOR
- ADVANCED DIMMING SYSTEM



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

ANSI FL1 STANDARD

✱ 320 lm

◀ 150 m

AHL0052

APPLICATIONS: DIY, INDUSTRIAL, WORK SAFETY, ENERGY

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

*Outside ANSI FL1 Scope

See the Additional Accessories Table at the end of the catalog. Sold separately.

- IP64 RATING
- 2 m IMPACT RESISTANCE
- DUAL SOURCE SYSTEM
- FOCUS
- MOTION SENSOR
- ADVANCED DIMMING SYSTEM



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 run time 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.

VIZO RC

ANSI FL1 STANDARD

750 lm

100 m

AHL0024

APPLICATIONS: TREKKING, JOGGING, OUTDOOR, CAMPING, WORK SAFETY, INDUSTRIAL

POWER SUPPLY	Li-Ion 3.7V 2800 mAh			
CHARGING TIME	4 h			
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE	PEAK BEAM INTENSITY
BOOST*	750 lm	-	100 m	2453 cd
HIGH	410 lm	14 h 20 min	75 m	1370 cd
MEDIUM	200 lm	21 h 10 min	50 m	630 cd
LOW	25 lm	76 h	15 m	68 cd
REAR RED LED HIGH	-	40 h	-	-
REAR RED LED 2Hz 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 , headband, extension cord, USB-C cord			

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



Vizo RC is an advanced headlamp for demanding users, offering up to 750 lumens with a uniform, elliptical beam, perfect for precisely illuminating broad areas. The headlamp features four operating modes and is powered by a 2800 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.

ILLUMA

ANSI FL1 STANDARD

430 lm

130 m

AHL0081

APPLICATIONS: OUTDOOR, HIKING, TREKKING, JOGGING

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			

See the Additional Accessories Table at the end of the catalog. Sold separately.



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.

CYCLOPE II

✳ 600 lm

◀ 90 m

THL0131

APPLICATIONS: HUNTING, EDC, BUSHCRAFT

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



See the Additional Accessories Table at the end of the catalog. Sold separately.



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 (700 mAh) and a magnetic charging cord. Alternatively, it can be powered by a CR123A battery.

 **Mactronic**[®]



ULTIMO X1000

Engineered to Outlast
Every Shift.



ULTIMO X1000

PHL0012

APPLICATIONS: INDUSTRIAL, WORKSHOP & DIY, CONSTRUCTION

POWER SUPPLY	Li-Ion 3,7V 5200 mAh (2 x 18650 Li-Ion 3,7V 2600 mAh)		
CHARGING TIME	4 h 30 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
ADS	12 lm - 1000 lm	3 h 30 min - 148 h	20 m - 170 m
REAR RED	-	195 h	-
REAR RED FLASHING	-	300 h	-
DIMENSIONS	83 x 38 x 42 mm		
WEIGHT	183 g (without battery) / 283 g (with battery)		
THE SET INCLUDES	2 x Li-Ion battery, front helmet mount, rear helmet mount (battery & signal module), extension cord (1 m), USB-C cord, hard shell case, 2 x clip		

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope

- IPX5 RATING
- 1,5 m IMPACT RESISTANCE
- BATTERY LEVEL INDICATOR
- ADVANCED DIMMING SYSTEM
- USB-C CHARGING
- DIFFUSER

ANSI FL1 STANDARD

1000 lm

170 m



Ultimo X1000 is a high-performance headlamp engineered for demanding industrial environments. It emits a maximum light output of 1000 lumens and provides a beam distance of up to 170 meters. The front white light features adjustable light intensity through an Advanced Dimming System, while the rear red light, which can be set to either steady or flashing modes, enhances user visibility and safety. This headlamp can operate for up to 148 hours, powered by two rechargeable 2600 mAh Li-ion batteries, charged via a USB-C port. The set includes front and rear helmet mounts, a 1-meter extension cord, a USB-C cord, and a hard shell carrying case. The Ultimo X1000 is impact-resistant from 1.5 meters and water-resistant to the IPX5 standard.

REBEL

AHL0061UC

APPLICATIONS: INDUSTRIAL, ENERGY, WORK SAFETY, DIY, EDC

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	Micro USB cord, clip, headband			

See the Additional Accessories Table at the end of the catalog. Sold separately.

- IPX4 RATING
- ADVANCED DIMMING SYSTEM
- SWITCH LOCK
- BATTERY LEVEL INDICATOR
- USB-C CHARGING

ANSI FL1 STANDARD

400 lm

33 m



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 beam distance 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.



BIKE LIGHTS

SCREAM 3.1

ABF0167

APPLICATIONS: GRAVEL BIKING, COMMUTING, BIKE TOURING

ANSI FL1 STANDARD

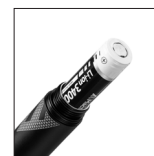
1000 lm

160 m

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



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 run time 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

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



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

ANSI FL1 STANDARD

* 1000 lm

◀ 155 m

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

See the Additional Accessories Table at the end of the catalog. Sold separately.

*Outside ANSI FL1 Scope



IPX6 RATING



1,2 m IMPACT RESISTANCE



USB-C CHARGING



SIDE VISIBILITY



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 run time, 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.

 **Mactronic**[®]

LOOP

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]
	RUN TIME
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



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.

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
	RUN TIME
HIGH	2 h 30 min
MEDIUM	7 h
FLASHING	5 h 30 min
PULSE	5 h 30 min
DIMENSIONS	60 x 30 x 21 mm
WEIGHT	36 g
THE SET INCLUDES	USB-C cord, seatpost mount

See the Additional Accessories Table at the end of the catalog. Sold separately.



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 run time, 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.



LIFESTYLE LANTERNS



BEAM BOX

Your light in the wild.
Your soundtrack at night.

BEAM BOX

✱ 160 lm

◀ 7 m

ACL0041

APPLICATIONS: OUTDOOR, CAMPING, EDC

POWER SUPPLY	Li-Ion 3200mAh		
CHARGING TIME	4 h 30 min		
	LIGHT OUTPUT	RUN TIME	BEAM DISTANCE
HIGH	160 lm	9 h	7 m
MEDIUM	60 lm	18 h	4 m
LOW	7 lm	105 h	1 m
DIMENSIONS	72 x 72 x 61 mm		
WEIGHT	215 g		
THE SET INCLUDES	latarka, głośnik, etui, przewód USB-C		



- IPX4 RATING
- 1 m IMPACT RESISTANCE
- USB-C CHARGING
- BATTERY LEVEL INDICATOR
- WIRELESS DEVICE PAIRING
- 10 m WIRELESS RANGE
- 5 W SPEAKER



BeamBox is a hybrid camping lantern integrating a high-performance light source with a 5W wireless speaker. Powered by a 3200 mAh Li-Ion battery, the device features a natural color temperature of 4500K and a maximum output of 160 lumens. It is equipped with a built-in magnet and a hanging hook, providing versatile mounting options for metal surfaces or tent interiors. The construction is rated IPX4 for water resistance and is impact-resistant up to 1 meter. With a wireless range of 10 meters, it allows for seamless audio streaming while reducing the overall weight of your outdoor gear.

PACIFICA

✱ 370 lm

ACL0113

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	



- IPX4 RATING
- USB-C CHARGING
- POWER BANK
- ADVANCED DIMMING SYSTEM
- CRI >=80



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

ACL0112

APPLICATIONS: INTERIOR & GARDEN DECOR, OUTDOOR, CAMPING

* 250 lm

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, USB cord	

IP20
RATINGPOWER
BANKADVANCED
DIMMING SYSTEMCRI
>=80

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.



ACCESSORIES

PRODUCT	CODE	NAME
THH0056 PATROLRX	FHH0116-CONE-R	Signal cone, red
	THH0052-CY	Signal cone, yellow
	THH0056-BATTERY	Li-Ion 3,7V 5000 mAh rechargeable battery
	T-POKROWIEC R14	R14 Cover / Holster
	T-KABURA	Holster
THH0055 PATROL LTD	FHH0116-CONE-R	Signal cone, red
	THH0052-CY	Signal cone, yellow
	THH0054B	Li-Ion 3,7V 3350 mAh rechargeable battery
	THH0052M1	Peripheral charger
	THH0052M4	230V AC power adapter
	T-KABURA	Holster
THH0022 EXPERT PL3	THH0022-CONE-W	Signal cone XL, white
	THH0022-CONE-R	Signal cone XL, red
	T-THH0022-NAKLADKA	Signal cone, red
	THH0022-BATTERY	Li-Ion 3,7V 6000 mAh rechargeable battery
	THH0022-KABURA	Holster
THH0023 EXPERT PL5	THH0022-CONE-W	Signal cone XL, white
	THH0022-CONE-R	Signal cone XL, red
	T-THH0022-NAKLADKA	Signal cone, red
	THH0023-BATTERY	Li-Ion 3,7V 9000 mAh rechargeable battery
	THH0022-KABURA	Holster
THH0080 BLACK EYE X52	T-CONE-32-R	Signal cone, red
THH0049 BLACK EYE 1000	MAC0014	Universal charger
	T-MX532L-CONE-R	Signal cone, orange
	T-Kabura MX1	Holster
	T-KaburaMX1/Aku	Holster with extra battery space
	RAC0026	18650 Li-Ion 3350 mAh rechargeable battery
	RHH0031	Magnetic long gun mount for flashlights
THH0047 BLACK EYE 1550	RAC0026	18650 Li-Ion 3350 mAh rechargeable battery
	T-Kabura MX3	Holster
	T-MX142-NAKLADKA-Z	Signal cone, yellow
	T-MX142-NAKLADKA-CZ	Signal cone, red
	MAC0014	Universal charger
	RHH0031	Magnetic long gun mount for flashlights
L-MX512L BLACK EYE MINI	RFF0017	Red filter
	RFF0018	Green filter
THS0021 BLITZ K3	T-THS0021/31	100-240V AC Charger with interchangeable EU, US, UK adapters
	THS-LAD12/24	12/24V DC car charger
	B-THS0021	Li-Ion 5000 mAh rechargeable battery
THH0171 SIRIUS M10	T-AHL0172	Magnetic charger
THH0172 SIRIUS T25	T-AHL0172	Magnetic charger
	THH0172-BATTERY	21700 Li-Ion 5000 mAh rechargeable battery

PRODUCT	CODE	NAME
THH0064 SNIPER 3.3	RFF0017	Red filter
	RFF0018	Green filter
	THH0063-CONE-R	Signal cone, red
	THH0063-HOLSTER	Holster
	THH0064-BATTERY	Li-Ion 3,7V 2800 mAh rechargeable battery
THH0126 DEFENDER IR	THH-DRSW-18-C	Double switch for mounting a remote pressure switch
	B-NTP-ACU-168A-3200	18650 Li-Ion 3400 mAh rechargeable battery
	RHH0031	Magnetic long gun mount for flashlights
	T-NTP-PM50	Picatinny rail mount, PM50
PSL0073 FLAGGER MAX	T-UCHWYT-MAGNETYCZNY	Magnetic mount
THS0011 BLITZ K14	B-THS0011	Li-Ion 7800 mAh 7.4V rechargeable battery
	T-THS0011	100-240V AC Charger with interchangeable EU, US, UK adapters
	THS-ŁAD12/24	12/24V DC car charger
THS0031 BLITZ LR11	B-THS0031	Li-Ion 7,4 V 2600 mAh rechargeable battery
	T-THS0021/31	100-240V AC Charger with interchangeable EU, US, UK adapters
	THS-ŁAD12/24	12/24V DC car charger
PHH0221 M-FIRE AG Ex	PHH0021H2	Wall mounting bracket for 2 flashlights
PHH0213 M-FIRE Focus Ex	RHH0051	Mount for the Rosenbauer Heros Titan type helmet
	PHH0012M-UP	Mount for MSA Gallet FIXF and PAB Fire HT 05 type helmets
	RHH0041	Mount for Calisia Vulcan type helmets
PHH0216 M-FIRE 02 HL	RHH0051	Mount for the Rosenbauer Heros Titan type helmet
	PHH0012M-UP	Mount for MSA Gallet FIXF and PAB Fire HT 05 type helmets
	RHH0041	Mount for Calisia Vulcan type helmets
	T-PHH0216-CONE-R	Signal cone, red
PHH0215 M-FIRE 03 HL	RHH0051	Mount for the Rosenbauer Heros Titan type helmet
	PHH0012M-UP	Mount for MSA Gallet FIXF and PAB Fire HT 05 type helmets
	RHH0041	Mount for Calisia Vulcan type helmets
	T-PHH0215-CONE-R	Signal cone, red
FLASHGUARD PFS0100, PFS0110, PFS0111, PFS0112, PFS0200, PFS0210	T-RUBBER-BASE	Stabilizing base
PWL0081 DUAL BEAM	B-PWL0081	Li-Ion 14,8V 5200 mAh rechargeable battery
	PWL0081-MASZT	3 m tripod with adapter
	PWL0081M	Magnetic mount
	T-PWL0081-230V	230V AC charger
	PWL0071-WALIZKA	Transport case
PWL0021 BEEMER 4	PWL0021.1	Flashlight base
	PWL0021.2	Flashlight head
	PWL0021.3	Inspection head with a Focus function
	PWL0021.4	360°workshop head equipped with COB White + UV
PWL0051 SUNSCAN 5.4	PWL0051M	Magnetic mount
PFL0242 HALO 100K	T-TR-4M	4 m tripod with crank handle
	T-PFL0242-CASE	Transport case
	T-POKROWIEC-MASZT	Transport bag for 4 m tripod

PRODUCT	CODE	NAME
THG0011 HUSSAR GL	RAC0028	16340 Li-Ion 3.6V 850 mAh rechargeable battery
THG0010 HUSSAR	RAC0028	16340 Li-Ion 3.6V 850 mAh rechargeable battery
THH0211 T-FORCE XP	RHH0061	Picatinny mount
	RHH0071	M-LOK mount
	RSW0011	Remote pressure switch
	RAC0023	18650 Li-Ion 3200 mAh rechargeable battery
	THH0111-12-CONE-R	Signal cone, orange
	MAC0014	Universal charger
	THH0111-12-FB	Blue filter
	THH0111-12-FG	Green filter
THL0051 STORM 1LP	T-THL0051	Hook and loop mount for helmet and vest
	RHM0011	Adapter for NVG mount
THL0022MN NOMAD 03	RHM0011	Adapter for NVG mount
AHL0172 SIRIUS H12	RAC0026	18650 Li-Ion 3,7V 3350 mAh rechargeable battery
	T-AHL0172	Magnetic charger
THL0131 CYCLOPE II	B-THL0131 16340	16340 Li-Ion 700 mAh rechargeable battery
	T-THL0131	Magnetic charger
AHL0024 VIZO RC	AHL0023-BATTERY-PACK	Battery with basket
	AHL0023-BATTERY	18650 Li-Ion 3,7V 2800 mAh rechargeable battery
AHL0053 MAVERICK	AHL0053B	Li-Po 3,7V 800 mAh rechargeable battery (USB-C)
	AHL0051M	Helmet mount with double-sided hook and loop
	T-AHL0053-MOUNT	Helmet Mount with 3M tape
AHL0052 MAVERICK WHITE PEAK	AHL0053B	Li-Po 3,7V 800 mAh rechargeable battery (USB-C)
	AHL0051M	Helmet mount with double-sided hook and loop
	T-AHL0053-MOUNT	Helmet Mount with 3M tape
AHL0081 ILLUMA	AHL0061C	Helmet clip with double-sided tape
AHL0061UC REBEL	AHL0061C	Helmet clip with double-sided tape
ABF0167 SCREAM 3.1	ABF0161M	Handlebar mount
	ABF0171M	Handlebar mount with adjustable clamp
	ABF0164B	18650 Li-Ion 3400 mAh rechargeable battery
	RAC0026	18650 Li-Ion 3350 mAh rechargeable battery
ABF0171 SCREAM 3.3	ABF0161M	Handlebar mount
	ABF0171M	Handlebar mount with adjustable clamp
ABF0166 HIGHLINE	ABF0166M	Bike computer extension mount
	ABF0166P	Wireless remote
ABR0051 RED LINE 2.0	ABR0051MG	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 renders colors compared to natural sunlight, with a CRI value of 100. Light sources with a high CRI (above 90) are highly valued in environments where precise color recognition is essential, as even minor deviations can affect the quality of work. A high CRI is particularly important for professionals such as electricians, automotive detailers, cosmetologists, tattoo artists, art restorers, rescue workers, and laboratory technicians.

ADVANCED FLASHLIGHT FEATURES



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 renders colors compared to natural sunlight, with a CRI value of 100. Light sources with a high CRI (above 90) are highly valued in environments where precise color recognition is essential, as even minor deviations can affect the quality of work. A high CRI is particularly important for professionals such as electricians, automotive detailers, cosmetologists, tattoo artists, art restorers, rescue workers, and laboratory technicians.



QUICK-SET™ PROGRAMMING – Provides an advanced programming system that precisely configures the flashlight for specific operational requirements.



PREFOCUS – A specially engineered beam pattern that combines the long-range performance of a focused spot beam with broad illumination of the surrounding field of view.



ADAPTIVE COOLING TECHNOLOGY – Offers an intelligent temperature control system that automatically monitors the control circuitry, reducing the risk of overheating critical components.



MOMENTARY SWITCH – A momentary light activation function that enables immediate flashlight use without engaging constant-on mode. Especially important in tactical applications and in handheld and weapon-mounted flashlights.

LIGHTING MODES

BOOST: A temporary, maximum-brightness setting that delivers the highest possible output for short bursts of time. Typically used for tasks requiring maximum illumination, such as spotting distant objects or briefly lighting up a large area.

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

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

LOW: Minimizes light intensity for power saving and extended run time.

SURVIVAL: It provides minimal illumination, maximizing flashlight run time. It is ideal in emergency situations, on long expeditions, or in conditions with limited access to power. It provides indispensable support in military operations, allowing light to remain on for hours or days, which can be crucial in survival situations.

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

STROBE: Produces pulsating light to disorient potential threats.

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

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:

Red light: Preserves night vision, useful for military, hunting, rescue missions, and aviation.

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

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

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

ANSI/PLATO FL 1 - THE BASIC PERFORMANCE STANDARD FOR FLASHLIGHTS

MACTRONIC® GROUP is a member of **PLATO - the Portable Lights American Trade Organization**, a U.S.-based trade association for the portable lighting industry. The organization plays a key role in developing technical standards for flashlights, headlamps, work lights, and other portable light sources. As a full voting member, Mactronic® participates in shaping high standards for the production, testing, and distribution of portable lighting solutions in the global market.

The **ANSI/PLATO FL 1** standard was developed by PLATO to provide users and manufacturers with a consistent and reliable way to compare the parameters of flashlights and other lighting products. It is one of the most important industry standards for portable lighting, defining standardized methods for testing and reporting key performance parameters, including light output, beam distance, peak beam intensity, runtime, impact resistance, and protection against water and dust.

Thanks to this methodology, **manufacturers' claims become more transparent and comparable**, while users can make informed purchasing decisions based on standardized technical data. The ANSI/PLATO FL 1 standard limits the room for arbitrary interpretation of parameters and strengthens trust in the information presented on packaging, in catalogues, and in product data sheets.

The latest version of the standard, ANSI/PLATO FL 1-2025, came into effect on 30 January 2026. The process of developing the new guidelines included Mactronic®'s substantive contribution, with its advisory input playing an important role in updating the standard.

The parameters of the products presented in this catalog have been verified in accordance with the methodology of ANSI/PLATO FL 1-2019. This was the standard in force as the binding reference point until the implementation of the current changes in the system for certification and performance reporting.

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.



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

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).

Degrees of protection against solid objects

- 0 - No protection
- 1 - Protected against foreign solid objects with a diameter of 50 mm and larger
- 2 - Protected against foreign solid objects 12.5 mm in diameter and larger
- 3 - Protected against foreign solid objects 2.5 mm in diameter and larger
- 4 - Protected against foreign solid objects 1.0 mm in diameter and larger
- 5 - Dust protection
- 6** - Dustproof protection

Degrees of water protection

- 0 - No protection
- 1 - Protection against vertically falling water drops
- 2 - Protection against vertically falling drops of water when the housing is tilted up to 15°
- 3 - Protection against vertically falling drops of water when the housing is tilted up to 60°
- 4** - Protection against water splashes
- 5 - Protected against water jets
- 6 - Protected against strong jets of water
- 7 - Protection against the effects of short-term immersion in water
- 8 - Protection against the effects of continuous immersion in water
- 9 - Protection against water ingress from high-pressure jets (80-100 bar at a temperature of +80°C)

▶ IP **6** **4**

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.

IP RATING

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.

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 sub-group	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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