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PRINCETON TEC LIGHTING GUIDE



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MPLS EDITION
ISSUED JANUARY 2013



MODULAR PERSONAL LIGHTING SYSTEM

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MPLS

MODULAR PERSONAL LIGHTING SYSTEM

MODULAR PERSONAL LIGHTING SYSTEM: PRACTICAL, RELIABLE, FUNCTIONAL, BRIGHT

OVERVIEW

FASTER, MORE EFFECTIVE TACTICAL LIGHTING SOLUTIONS.

One light. Countless solutions to overcome darkness. Designed with the end-user in mind, the MPLS line of lights are designed to provide personal task lighting all while being extremely versatile, simple, and streamlined.

VERSATILITY

STATE OF THE ART MOUNTING SYSTEM OFFERS ULTIMATE UTILITY.

Go from helmet to MOLLE and back in a matter of seconds. With state of the art, intuitive mounting systems, the MPLS series of lights are designed to give you light where and when you need it. Rather than being bogged down with bulky lights that offer little versatility, the MPLS line offers unparalleled adaptability in order for soldiers to take full advantage of their surroundings.

MODULARITY

ONE LIGHT BODY MOVES FROM MOUNT TO MOUNT.

A single module that is able to switch between strategically placed (by you) mounts allows you to have multiple lighting options while keeping the weight on your gear to a minimum. The mounting system is simple and intuitive so that changing between module locations is not a hindrance. The modularity of the MPLS system allows you to be creative and versatile with your mounting options, so that you have the freedom to direct light where and when you need it, depending on your gear setup.

COMPONENT PIECES

HEADSTRAP



OPS-CORE RAIL



OPS-CORE VAS



HELMET MOUNT



MICH NVG SHROUD



MOLLE



PICATINNY



SIMPLICITY

PRACTICAL DESIGN MAKES FOR EASY OPERATION.

Aim. Activate. Illuminate. A simple and intuitive mounting system leaves you only one button press away from lighting up any immediate area. Designed by Princeton Tec, the rotating mounts of our Helmet Task Lights and the secure yet simple mounting on our MPLS Headlamps ensures fast, effective, and practical lighting options without any complications.

PRODUCTS

Our MPLS series ranges from close-range task lights to 100 lumen MPLS-adapted models of our already proven and reliable tactical headlamps. Whatever your circumstances call for, there is an MPLS light to handle the tasks you need to tackle.

Available mounting on NVG Shroud, OPS-Core VAS, ACH-ARC Rail, MOLLE, Headstrap, Picatinny and Magnetic.

AVAILABLE MPLS PRODUCTS

- Charge
- Charge Pro
- Point
- Switch
- Remix Pro-MPLS
- Remix-MPLS
- Tac EOS-MPLS
- Tac Quad-MPLS
- Fuel-MPLS
- Fred-MPLS



MOUNTED ON OPS-CORE HELMET RAIL



PICATINNY MOUNTED



MOUNTED ON MOLLE STRAP



MOUNTED ON MICH HELMET



MOUNTED ON ON OPS-CORE HELMET RAIL



FLEXIBLE BOOM

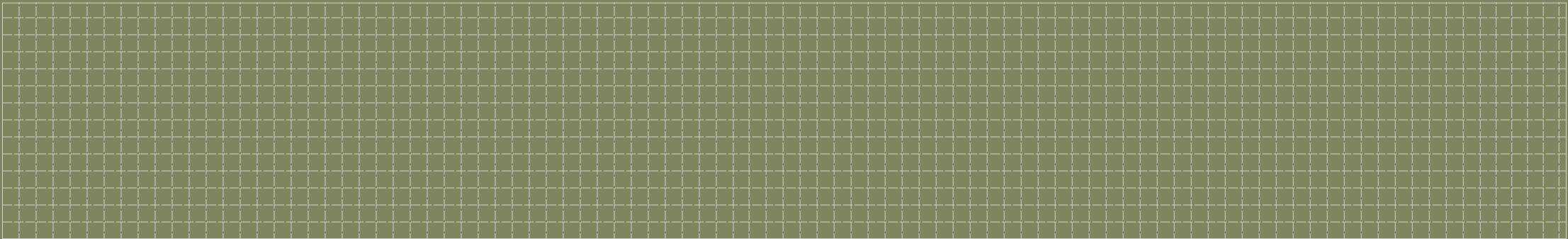


MOUNTED ON OPS-CORE HELMET RAIL

MPLS TASK LIGHTS

ULTRA LIGHT , ULTRA FUNCTIONAL TASK LIGHTING .

Designed for end-users who want to streamline their gear, yet remain functional and effective, the MPLS Task lights are small and lightweight to the point where you won't even feel them on the helmet. However, powerful LED technology allows for superb task lighting for multiple situations.



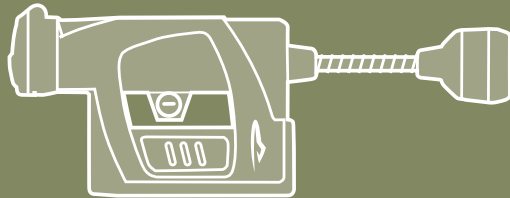
OVERVIEW

MPLS TASK LIGHTS: TRULY VERSATILE

DESIGNED WITH THE ABILITY TO ADAPT.

Not only can the MPLS helmet task lights go wherever you have one of their four mounts, but they are able to bend, rotate, and change even from within the bracket. The result is task lighting bright and versatile enough for any close range tasks.

LIGHTS IN THE SYSTEM



CHARGE PRO - MPLS (PAGE 9)
CHARGE - MPLS (PAGE 11)

The Charge MPLS is the third generation in our evolving family, bridging the gap between helmet task light and high-power headlamps to keep your tactical lighting system simple and lightweight.



SWITCH - MPLS (PAGE 13)

The Switch-MPLS is a second generation Helmet Task light with two separate LEDs in the head for increased versatility while keeping the weight down.



POINT - MPLS (PAGE 15)

The Point-MPLS is the original light in our MPLS line. With a single LED available in a variety of colors, simplicity and speed truly shine.

COLORWAYS

BODY COLORS



BLACK OLIVE DRAB TAN

LED COLORS

CHARGE LED COLOR OPTIONS



SWITCH LED COLOR OPTIONS

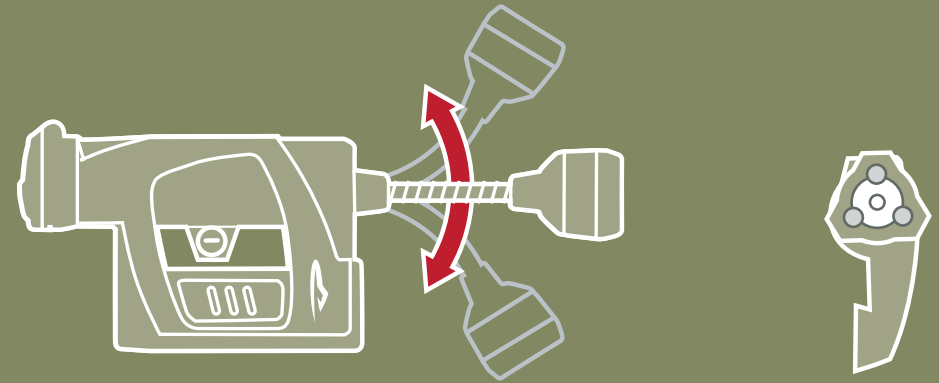


POINT LED COLOR OPTIONS



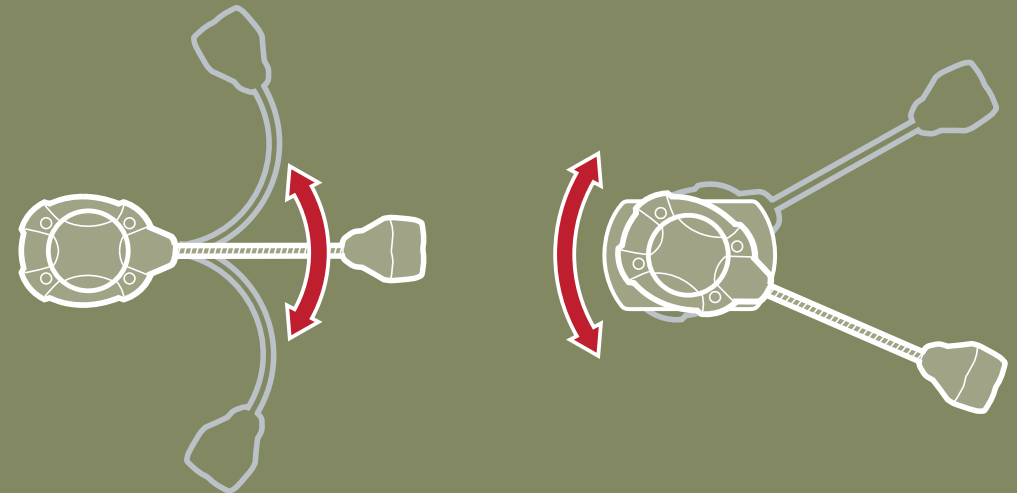
FLEXI-ARM DESIGN

The Charge MPLS Flexi-Arm design enables you to direct your light source wherever it is needed.



ROTATIONAL FUNCTIONALITY - SWITCH & POINT

The key feature on the MPLS Task Lights is the flexi-arm design. Without removing the light from its mount, you are able to direct your light source anywhere in your immediate area. The flexi-arm is designed to be able to twist and bend around other necessary gear on your helmet or MOLLE, and with the ability to rotate up to 30° in either direction in the bracket, the MPLS Task lights will work with you, not against you.

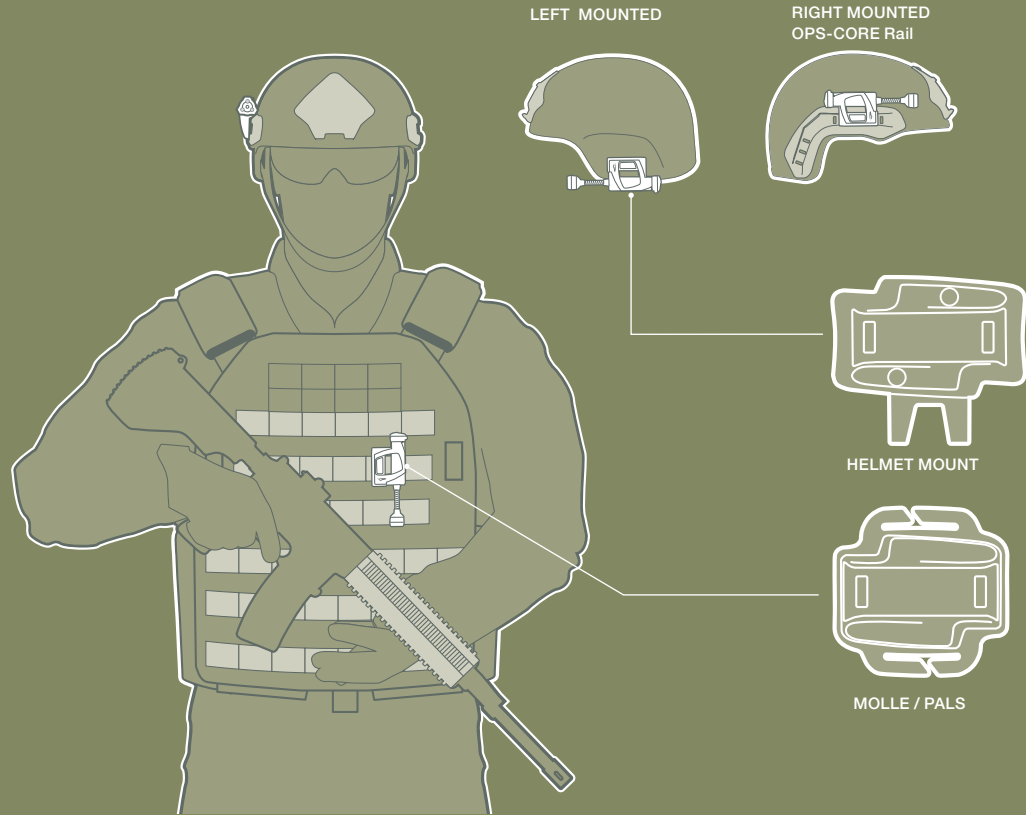


FLEXI-ARM

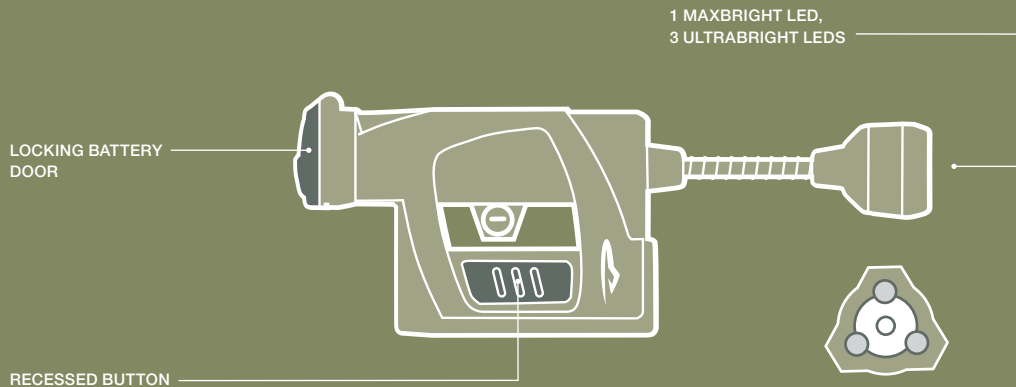
30° OF ROTATION

CHARGE MOUNTING OPTIONS

Charge MPLS uses a versatile mounting system which allows for secure attachment to helmet rail systems or MOLLE/PALS. Once the light is in place, its flexible arm allows you to direct light wherever it is needed.



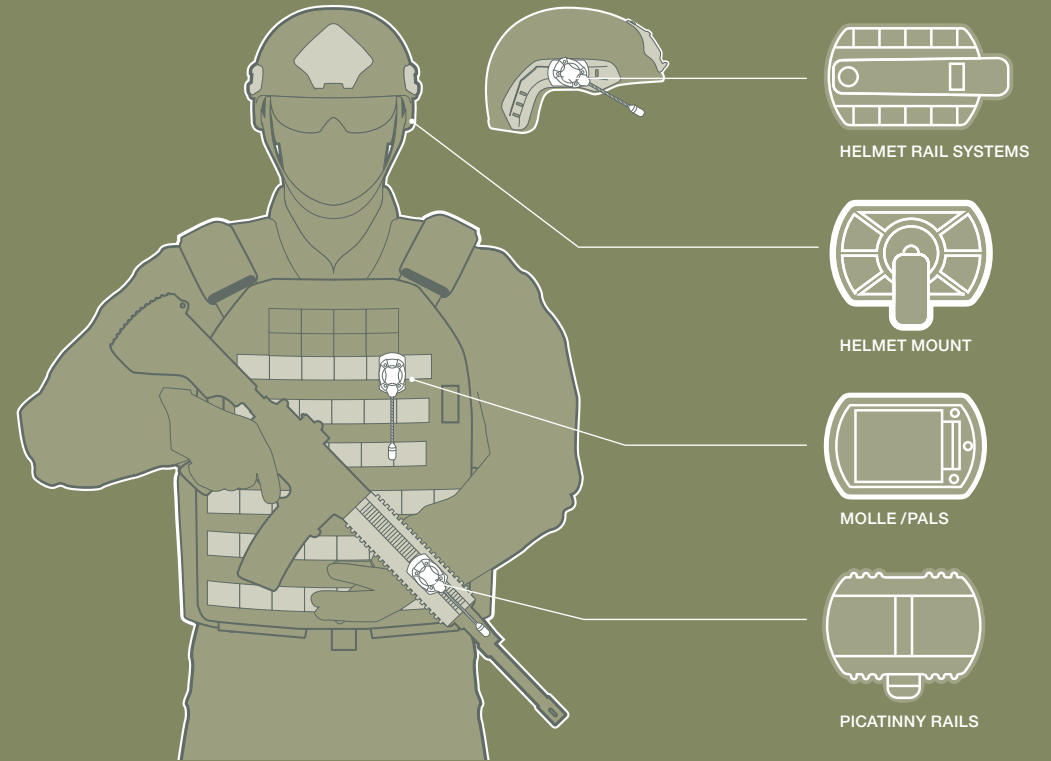
CHARGE DESIGN FEATURES



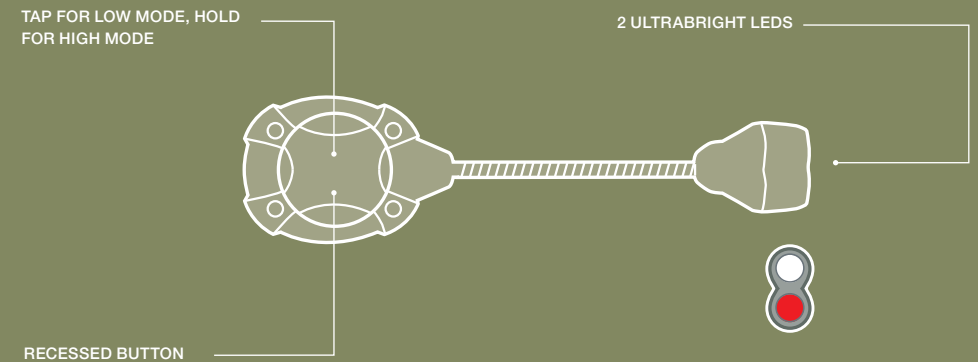
SWITCH AND POINT MPLS MOUNTING OPTIONS

Designed to be fast and effective, the MPLS Task lights can be off your helmet and onto your weapon, MOLLE, gear strap, or any magnetic surface in a matter of seconds with the included component pieces*. The mounts stay secured, while the small MPLS helmet task light does the moving.

* Note: Shown with optional MPLS accessory kit - see page 46.



SWITCH AND POINT MPLS DESIGN FEATURES





SHOWN ON OPS-CORE HELMET RAIL MOUNT

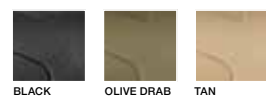
LENGTH 1"

INCLUDED MOUNTS

- MOLLE / PALS
- MICH HELMET

LED COLOR OPTIONS

- RED
- BLUE
- GREEN
- IR
- R/B/IR
- R/G/IR



CHARGE™ PRO- MPLS

THE LOWEST PROFILE HELMET LIGHT AVAILABLE. POWERFUL SPOT BEAM PLUS COVERT TASK LIGHTING TO GET THE JOB DONE.

CR123 power and special circuitry in a low profile package address the lighting needs of users on the toughest missions. Charge Pro MPLS has the exclusive flexi-neck design that gets spot illumination to the task at hand. Charge Pro has advanced circuitry and a CR123 lithium power source for viability in extreme temperature conditions and compatibility with the same batteries as the rest of your gear. Charge Pro incorporates a high power white Maxbright LED for distance spotting, and a cluster of three Ultrabright LEDs (available in choice of red, blue, green, infrared or R/B/IR and R/G/IR combinations) to meet the needs of specialized users.

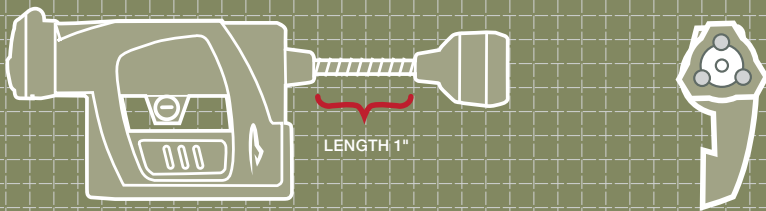
SPECS		BEAM PATTERN
POWER	55 Lumens	
LAMP	1 Maxbright LED 3 Ultrabright LED	
BURN TIME	45 Hours	
BATTERIES	1 CR123 Lithium	
WEIGHT	47g With batteries	

TECH

- 55 LUMENS
- 3 LED
- 47g
- 1m
- LITHIUM 1 CR123

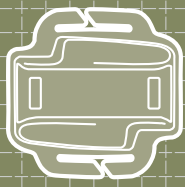


SHOWN ON OPS-CORE HELMET RAIL MOUNT

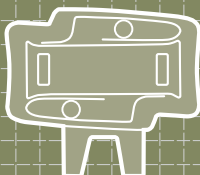


LENGTH 1"

INCLUDED MOUNTS



MOLLE / PALS



MICH HELMET

LED COLOR OPTIONS



RED

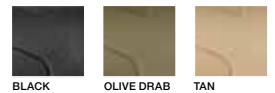
BLUE

GREEN

IR

R/B/IR

R/G/IR



BLACK

OLIVE DRAB

TAN

CHARGE™ - MPLS

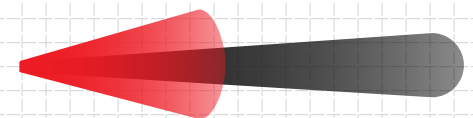
HIGH AND LOW POWER LED OPTIONS PROVIDE BIG MUSCLE OR COVERT LIGHTING TO GET THE JOB DONE.

The Charge MPLS is the natural evolution of personal task lights, with the flexi-neck design that gets spot illumination to the task at hand. New for the Charge is the addition of a higher power Maxbright LED with a wide beam pattern that makes bright light easily accessible with a two-second press of the button. A momentarily press of the button illuminates a cluster of three Ultrabright LEDs, available in choice of red, blue, green, infrared or R/B/IR and R/G/IR combinations.

SPECS

POWER	55 Lumens
LAMP	1 Maxbright LED 3 Ultrabright LED
BURN TIME	24 Hours
BATTERIES	1 AA Lithium
WEIGHT	47g With batteries
NSN	6230-01-606-1473

BEAM PATTERN



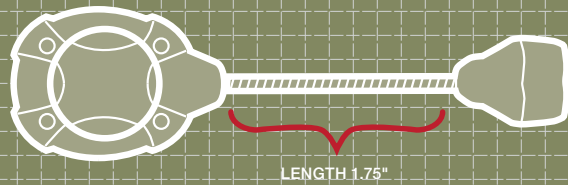
MADE IN USA

TECH

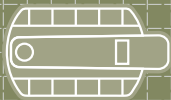




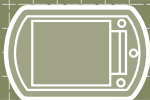
SHOWN ON OPS-CORE HELMET RAIL MOUNT



MOUNTING OPTIONS



HELMET RAIL SYSTEMS



MOLLE PALS

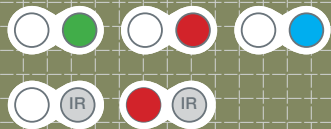


HELMET MOUNT



PICATINNY RAILS

LED COLOR OPTIONS



BLACK



OLIVE DRAB



TAN

SWITCH - MPLS™

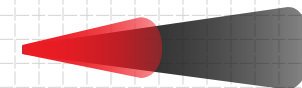
DUAL LED DESIGN PROVIDES SPECIALTY LIGHTING FOR NUMEROUS TASKS.

The Switch-MPLS is designed as a personal task light that offers very light weight and unmatched versatility. Combining functionality with intuitive design is the name of the game when you have a dual-LED head on a flexi-neck design. Specialty lighting colors are important during tasks that require night vision preservation, The Switch-MPLS will always turn on in the low power specialty color mode. A two second hold of the large push button will activate the bright white LED mode for better illumination.

SPECS

- POWER 10 Lumens
- LAMP 2 Ultrabright LEDs
- BURN TIME 36 Hours
- BATTERIES (2) 2016 Lithium Coin Cell (2032 for red and infrared LED)
- WEIGHT 17g With batteries

BEAM PATTERN



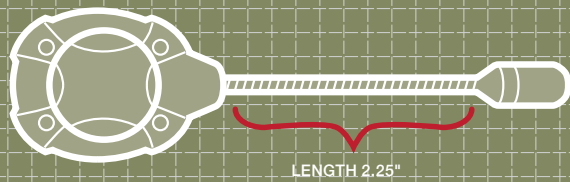
TECH



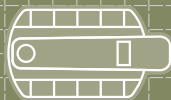
MADE IN USA



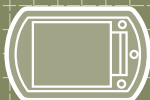
MOUNTED ON MICH HELMET



MOUNTING OPTIONS



HELMET RAIL SYSTEMS



MOLLE / PALS



HELMET MOUNT



PICATINNY RAILS

LED COLOR OPTIONS



BLACK



OLIVE DRAB



TAN

POINT - MPLS™

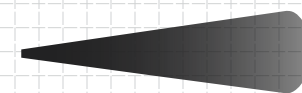
SINGLE LED HEAD ON A FLEXI-ARM NECK ALLOWS FOR ADEQUATE LIGHTING IN ANY SITUATION.

Designed for the end-user needing to streamline their gear, the MPLS-Point offers powerful LED technology in a virtually weightless package. Simplicity is key with a large, positive feeling push button and a single LED. With the capability to be mounted practically anywhere, you'll never need to take your eyes off of your task at hand with the MPLS-Point.

SPECS

POWER	10 Lumens
LAMP	1 Ultrabright LED
BURN TIME	36 Hours
BATTERIES	(2) 2016 Lithium Coin Cell (2032 for red and infrared LED)
WEIGHT	17g With batteries

BEAM PATTERN



TECH



MADE IN USA



QUAD TACTICAL MPLS ON HEADSTRAP



REMIX PRO MOUNTED ON OPS-CORE VAS



QUAD TACTICAL MPLS MICH SHROUD



EOS TACTICAL MPLS ON OPS-CORE NVG



REMIX PRO MPLS ON OPS-CORE NVG



CLOSE-UP OF MICH SHROUD MOUNT



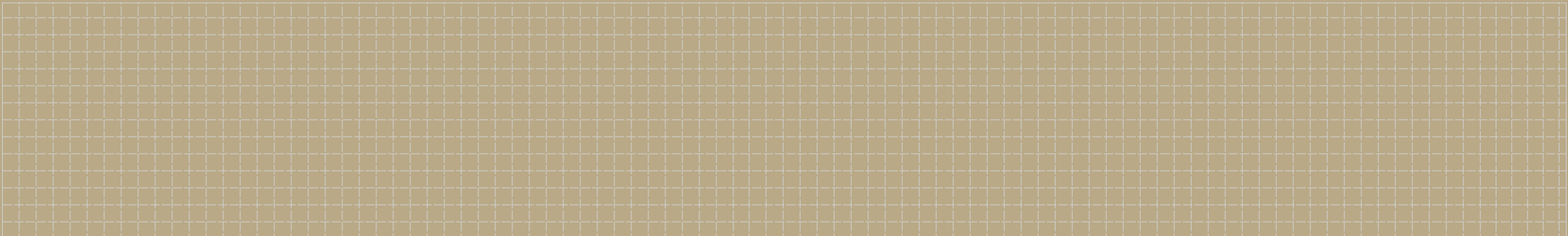
MULTI-CAM COLORS AVAILABLE

MPLS HEADLAMPS

OUTFIT YOUR HELMET OR MOLLE WITH A BRIGHT, RUGGED, AND RELIABLE PRINCETON TEC TACTICAL HEADLAMP

The MPLS Headlamp system utilizes Princeton Tec's existing line of Tactical Headlamps and transforms them into Modular Personal Lighting Systems. Designed to fit directly into standard Night Vision Goggle adapter plates, you can now have up to 100 Lumens of regulated light directly attached to your helmet.

Additional mounts to attach to MOLLE, included headstrap, or any piece of 1" webbing are included for increased versatility.



MPLS HEADLAMPS: POWERFUL LIGHTING

UNMATCHED BRIGHTNESS TO ACCOMPLISH ANY MISSION.

When your mission requires more power than a simple task light, the MPLS Headlamp system is your solution. Utilizing different LED styles and formations, there is a full line of headlamps to choose from for accomplishing your tasks. From a 100 lumen spot beam to a four-Ultrabright LED area light, there is a light for every end-user's needs.

HEADLAMPS IN THE SYSTEM



REMIX/REMIX PRO (PAGE 21)

The most versatile headlamps in our MPLS System. Easily switch from area lighting in a variety of colors to a 100 Lumen spot beam in mere seconds.



FUEL/FRED (PAGE 25+26)

Princeton Tec's most popular outdoors headlamp has been modified to meet the needs of Military professionals. Clean white area lighting is partnered with the functionality of a Red LED.



TAC EOS (PAGE 23)

A 45 lumen, single LED, rugged, waterproof, overmolded headlamp complete with colored lens filters is tough and versatile enough for a variety of tasks.



TAC QUAD (PAGE 24)

Utilizes the same superior engineering of the EOS, but with Four Ultrabright LEDs for superb area lighting.

BODY COLORS



BLACK

OLIVE DRAB

TAN

HEADSTRAP COLORS



MULTI-CAM

TAN

BLACK

MOUNTING OPTIONS



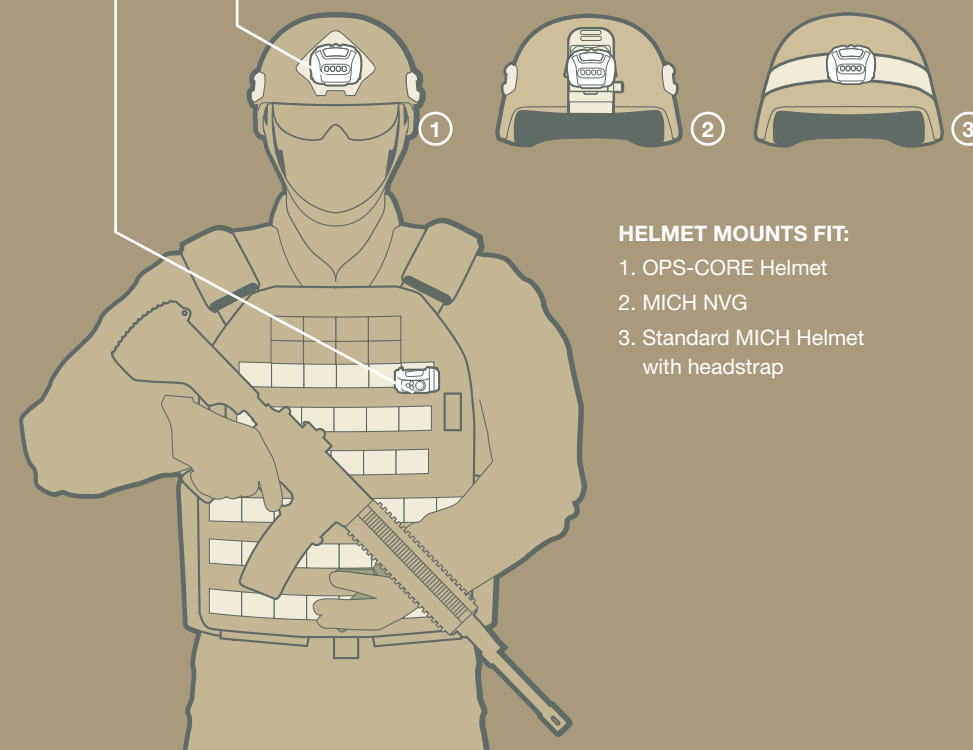
NVG ADAPTER PLATE FOR HELMETS

Quickly attach and detach your MPLS Headlamp from the NVG mount on your helmet using the NVG Adapter Plate. The MPLS Headlamp set is designed to quickly attach into a standard shroud mount as well as an OPS-Core VAS shroud mount. The bracket is designed to be very secure, yet provide easy functionality so that you can quickly add or remove the MPLS light from the helmet mount. Our MPLS Headlamps are lightweight, all weighing in at less than 110 grams, so you can have a powerful, clean, and changeable light source without any bulkiness or discomfort.



BUTTERFLY BRACKET FOR MOLLE AND HEADSTRAP

The second attachment that comes with the MPLS Headlamp system is for your MOLLE and included headstrap. Having a powerful light on the MOLLE vest is advantageous when your helmet is already bogged down with other necessary accessories. When attached to the webbing on your MOLLE vest, the MPLS light is in the perfect position to illuminate maps, close paths, and everything else in front of you without having to swap out your helmet accessories. This mounting option also allows you to attach the MPLS light to gear straps on various bags, or the included headstrap for hands-free operation when not wearing a helmet.



HELMET MOUNTS FIT:

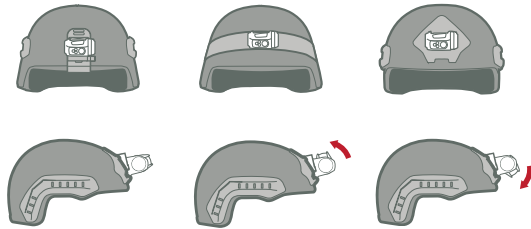
1. OPS-CORE Helmet
2. MICH NVG
3. Standard MICH Helmet with headstrap



SHOWN ON HEADSTRAP

REMIX® PRO MPLS

The Remix Pro is powered by a single CR123 battery providing excellent performance in cold weather, light weight, and compact size. Although the Remix Pro provides dual light output modes, it will always turn on in low mode on the Ultrabright setting. Combine these features with a large on/off button, an easy access battery door and a reliable asymmetrical bracket, and you can be sure that the Remix Pro is equipped to endure the rigors of your next adventure.



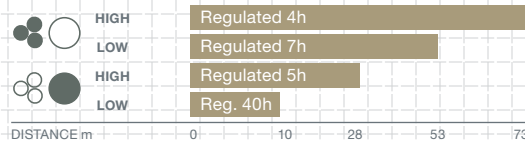
ULTRABRIGHT LED OPTIONS



SPECS

POWER	100 Lumens
LAMP	1 Maxbright LED (Regulated) 3 Ultrabright LEDs
BURN TIME	40 Hours (Regulated)
BATTERIES	1 CR123 Lithium (Included)
WEIGHT	66g With Battery

4 MODES



TECH



THE REMIX-MPLS SYSTEM OFFERS THREE UNIQUE HEADLAMP DESIGNS MADE FOR ACCOMPLISHING A WIDE ARRAY OF TASKS. FUNCTIONAL DESIGN FEATURES OF THE REMIX BECOME ENHANCED WITH THE TECHNOLOGY OF LITHIUM BATTERIES AND INFRARED LIGHTING IN THE REMIX PRO SERIES.



MICH SHROUD MOUNT



OPS-CORE NVG MOUNT



BUTTON PROTECT

1. REMIX MPLS

The Remix MPLS utilizes a single Maxbright LED paired with 3 Ultrabright LEDs. The ability to switch between area lighting and a 100 lumen spot beam just further increases your lighting capabilities. The asymmetrical single-arm bracket causes the light to rotate on its center of gravity, which eliminates unwanted adjustment of your light.

2. REMIX PRO MPLS

The Remix Pro MPLS is the lightest and brightest headlamp in Princeton Tec's MPLS System. A lightweight and intuitive body houses a single CR123 lithium battery for superb performance and light weight. A raised fence around the button and the ability to rotate completely inward to protect the button will guarantee that the Remix Pro MPLS won't accidentally activate.

3. REMIX PRO 2.0 MPLS

The Remix Pro 2.0 takes versatility to the next level. Utilizing the same body style as the Remix Pro MPLS, the Remix Pro 2.0 has 3 separate colored Ultrabright LEDs. One red, one blue or green, and one infrared. Switching between light sources is simple and intuitive, and the light can be set to remain in Infrared mode (even when turned off and then back on) so that unwanted light is never created.

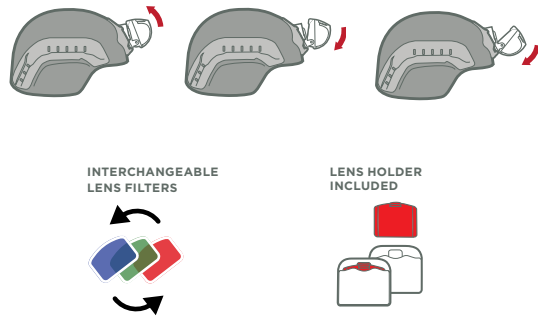


SHOWN ON HEADSTRAP

EOS® TACTICAL MPLS

SINGLE MAXBRIGHT LED PROVIDES POWERFUL SPOT LIGHTING.

The EOS Tactical MPLS is where the fast and effective capabilities of the MPLS system meet ruggedness and durability. Princeton Tec's premiere overmolding process results in a waterproof, drop-proof, reliable housing. This headlamp boasts four output modes, the strongest of which can shine up to 56m. The interchangeable lens filter system is included. The EOS Tactical-MPLS is strong, stealthy, and state-of-the-art.



SPECS

POWER	45 Lumens
LAMP	1 Maxbright LED (Regulated)
BURN TIME	121 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	103g With batteries

4 MODES

HIGH	Reg. Burn Time 1h / Tot. Burn Time 113h
FLASH	12h / 100h
MEDIUM	10h / 115h
LOW	50h / 121h

DISTANCE m 0 30 45 56

TECH

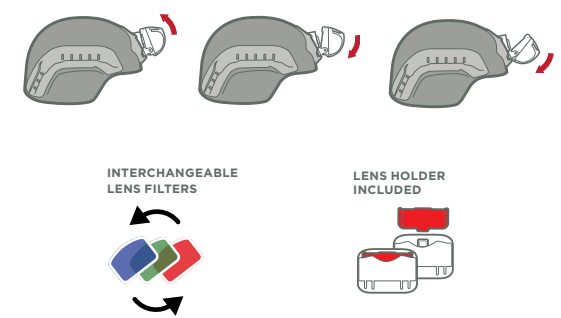


SHOWN ON HEADSTRAP

QUAD® TACTICAL MPLS

FOUR ULTRABRIGHT LEDS CREATE A CLEAN FLOOD BEAM.

The Quad Tactical MPLS takes our durable and lightweight Tactical Quad headlamp and makes it a modular force with Princeton Tec's MPLS engineering. Four ultrabright LEDs provide 45 lumens of area lighting. The four lens filters further increase the MPLS system's adaptability, so you can have multiple colors of light in a variety of locations.



SPECS

POWER	60 Lumens
LAMP	4 Ultrabright LEDs (Regulated)
BURN TIME	105 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	101g With batteries

4 MODES

HIGH	Reg. Burn Time 1h / Tot. Burn Time 105h
FLASH	5h / 110h
MEDIUM	10h / 99h
LOW	31h / 97h

DISTANCE m 0 9 15 23 35

TECH





SHOWN ON HEADSTRAP

FUEL® TACTICAL MPLS

BRIGHT FLOOD PATTERN IN A LIGHTWEIGHT PACKAGE.

The Fuel MPLS takes the same ergonomic designed body style as the Remix Pro MPLS and boasts a clean area light via 70 lumens from 4 Ultrabright LEDs. Long burn times and light weight make the Fuel MPLS an extremely popular and reliable outdoors headlamp, and the same can now be used as an MPLS Headlamp.



SPECS

POWER	70 Lumens
LAMP	4 Ultrabright LEDs
BURN TIME	146 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	78g With Battery

4 MODES

HIGH	Total Burn Time 50h
FLASH	96h
MEDIUM	90h
LOW	146h

DISTANCE m 0 9 26 37 52

TECH

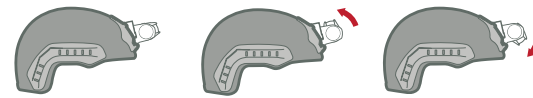


SHOWN ON HEADSTRAP

FRED™ TACTICAL MPLS

ENHANCING THE FUEL WITH A RED LED TO PRESERVE NIGHT VISION.

We took the same technology and reliability of the Fuel MPLS and enhanced it by substituting a red LED for one of the white Ultrabright LEDs. The red LED is imperative to keeping night vision intact, yet the 3 remaining Ultrabright LEDs still provide superb area lighting, once again adding another versatile feature to the MPLS line of headlamps.



SPECS

POWER	45 Lumens
LAMP	3 white Ultrabright LEDs 1 Red Ultrabright LED
BURN TIME	145 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	78g With Battery

4 MODES

HIGH	Total Burn Time 74h
LOW	145h
RED HIGH	100h
RED LOW	180h

DISTANCE m 0 10 20 38

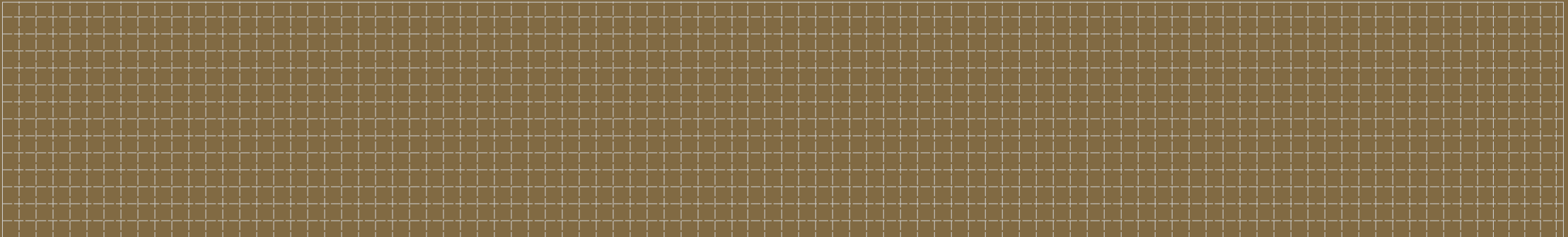
TECH





HEADLAMPS

BUILT WITH THE SAME RELIABILITY AND
INGENUITY OF OUR MPLS LINE, OUR STANDARD
LINE OF TACTICAL HEADLAMPS OFFERS THE
SAME SUPERB CAPABILITIES WITH SIMPLE
FUNCTIONALITY.

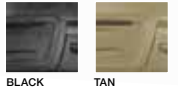




TAN WITH MultiCam® HEADSTRAP



BLACK ON BLACK HEADSTRAP



REMIX® PRO

LITHIUM POWERED AND LIGHTWEIGHT.

The Remix Pro is powered by a single CR123 battery providing excellent performance in cold weather, light weight, and compact size. Although the Remix Pro provides dual light output modes, it will always turn on in low mode on the Ultrabright setting. Combine these features with a large on/off button, an easy access battery door and a reliable asymmetrical bracket, and you can be sure that The Remix Pro is equipped to endure the rigors of your next adventure.

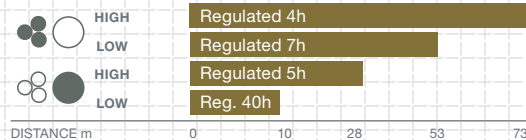
ULTRABRIGHT LED OPTIONS



SPECS

POWER	100 Lumens
LAMP	1 Maxbright LED (Regulated) 3 Ultrabright LEDs
BURN TIME	40 Hours (Regulated)
BATTERIES	1 CR123 Lithium (Included)
WEIGHT	66g With Battery

4 MODES



TECH



REMIX®

HYBRID LED DESIGN FOR AREA LIGHTING OR SPOT BEAM.

The Remix is equipped with an asymmetrical single arm bracket, easily accessible battery door enclosure, and large push button switch. Combine these features with a simple & lightweight design and you have a headlamp built to perform in any environment. Whether your requirements call for long distance spotting, or close range area light, the Remix is up to the task with a combination of a single Maxbright LED and 3 Ultrabright LEDs. The end result; true versatility in a compact, water resistant, and self-contained package.

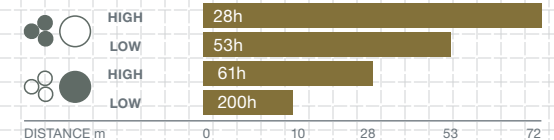
ULTRABRIGHT LED OPTIONS



SPECS

POWER	100 Lumens
LAMP	1 Maxbright LED 3 Ultrabright LEDs
BURN TIME	40 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	83g With Battery
NSN	6230-01-606-1095

4 MODES



TECH





BLACK WITH BLACK HEADSTRAP

EOS® TACTICAL

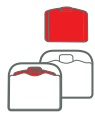
MULTIPLE LENS FILTERS TO CREATE ANY COLOR SPOT BEAM.

The EOS Tactical headlamp is compact, military tough and is housed in an ultra light, 3-AAA platform. Princeton Tec's premiere overmolding process results in a waterproof, drop-proof, reliable housing. This headlamp boasts four output modes, the strongest of which can shine up to 56m. The EOS Tactical is strong, stealthy, and state-of-the-art.

INTERCHANGEABLE LENS FILTERS



LENS HOLDER INCLUDED



SPECS

POWER	45 Lumens
LAMP	1 Maxbright LED (Regulated)
BURN TIME	121 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	103g With batteries
NSN	6230-01-537-9090

4 MODES

HIGH	Reg. Burn Time 1h / Tot. Burn Time 113h
FLASH	12h / 100h
MEDIUM	10h / 115h
LOW	50h / 121h

DISTANCE m 0 30 45 56

TECH



TAN WITH MultiCam® HEADSTRAP

QUAD® TACTICAL

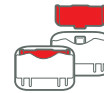
WIDE FLOOD PATTERN IN A RUGGED AND DURABLE HOUSING.

Four Ultrabright LEDs offer a wide, bright area flood light. Housed in the same rugged body style as the EOS Tactical, The Quad Tactical Headlamp is durable and rugged. The interchangeable lens filter system allows you to swap between light colors depending on your task.

INTERCHANGEABLE LENS FILTERS



LENS HOLDER INCLUDED



SPECS

POWER	60 Lumens
LAMP	4 Ultrabright LEDs (Regulated)
BURN TIME	110 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	96g With batteries
NSN	6515-01-518-3823

4 MODES

HIGH	Reg. Burn Time 1h / Tot. Burn Time 105h
FLASH	5h / 110h
MEDIUM	10h / 99h
LOW	31h / 97h

DISTANCE m 0 9 15 23 35

TECH





TAN WITH TAN HEADSTRAP



FUEL®

BRIGHT FLOOD PATTERN IN A LIGHTWEIGHT PACKAGE.

What could be better than a light that weighs only 78g with 70 lumens of brightness and 146 hours of burn time? A light that also has an asymmetrical single arm bracket that makes directing the light effortless and reliable; a large, easy to find push button switch and a virtually bulletproof, easy access battery door that protects the 3AAAs and its electronics. Yea, that's pretty much it. Simple. Perfect. Fuel.

SPECS

POWER	70 Lumens
LAMP	4 Ultrabright LEDs
BURN TIME	146 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	78g With Battery
NSN	6230-01-537-7120

4 MODES

HIGH	Total Burn Time 50h
FLASH	96h
MEDIUM	90h
LOW	146h

DISTANCE m 0 9 26 37 52

TECH



TAN WITH MultiCam® HEADSTRAP



FRED™

ENHANCING THE FUEL WITH A RED LED TO PRESERVE NIGHT VISION.

For years, the Fuel headlamp has been a staple in the outdoor community. We've taken the intuitive engineering and lightweight design of the Fuel and enhanced it. With the increased demand for red lighting to preserve night vision, the Fred was born. Boasting one red LED and 3 white LEDs, the Fred provides the same great area lighting as the Fuel, but provides necessary red lighting when needed.

SPECS

POWER	45 Lumens
LAMP	3 white Ultrabright LEDs 1 Red Ultrabright LED
BURN TIME	145 Hours
BATTERIES	3 AAA Alkaline (Included)
WEIGHT	78g With Battery

4 MODES

HIGH	Total Burn Time 74h
LOW	145h
RED HIGH	100h
RED LOW	180h

DISTANCE m 0 10 20 38

TECH





BLACK ON BLACK HEADSTRAP

BYTE™ {UPDATED}

MINIATURE DESIGN WITH VERSATILE CAPABILITIES.

Think big by thinking small. Please welcome the latest addition to the family - Byte. Don't be fooled by its size. Although smaller and lighter than its big brothers Fuel and Remix, Byte is capable of packing a powerful punch thanks to a Maxbright LED. The softer side of Byte comes in the form of a red Ultrabright LED to ensure your night vision will never be compromised. As with the rest of the family, Byte is equipped with an asymmetrical single armed bracket, easily accessible battery door enclosure, and large push button switch, all at mere 63 grams.

SPECS

POWER	50 Lumens
LAMP	1 Maxbright LEDs 1 Red Ultrabright LED
BURN TIME	96 Hours
BATTERIES	2 AAA Alkaline (Included)
WEIGHT	64g With Battery

4 MODES

HIGH	80h
LOW	96h
RED	146h
DISTANCE m	0 6 10 15 30

TECH



BLACK ON BLACK HEADSTRAP

APEX®

200 LUMEN SPOT BEAM IS PAIRED WITH AREA LIGHTING CAPABILITIES.

The Apex is the pinnacle of waterproof LED headlamp design, boasting up to 200 lumens of output. With its 4 light levels, safety flash mode, and impact-resistant design, the Apex is an ideal headlamp for any hardcore adventure. The Apex combines a regulated Maxbright LED with 4 regulated Ultrabright LEDs, for constant brightness on all modes. Switching modes has never been easier – the dual switch system allows you to independently control the intense, smooth, long-range lighting from the Maxbright LED, and the wide-angle, close-range lighting from the 4 Ultrabright LEDs. Proprietary heatsink technology allows the LEDs to burn brighter and longer. The Apex is compatible with alkaline, lithium, and rechargeable batteries..

ULTRABRIGHT LED OPTIONS



SPECS

POWER	200 Lumens
LAMP	Maxbright LED (Regulated), 4 Ultrabright LEDs (Regulated)
BURN TIME	150 Hours
BATTERIES	4 AA Alkaline (Included), Lithium, NiMH Rechargeable
WEIGHT	279g With Batteries

4 MODES

MB LED, HIGH	Regulated Burn Time 1h / Total Burn Time 72h
MB LED, LOW	9h / 96h
5MM LEDS, HIGH	8.5h / 100h
5MM LEDS, FLASH	20h / 200h
5MM LEDS, LOW	14h / 150h
DISTANCE m	0 26 43 67

TECH





BLACK

BLACK ON BLACK HEADSTRAP

APEX® RECHARGEABLE

200 LUMENS OF POWER DRIVEN BY A REMOTE, RECHARGEABLE BATTERY PACK.

The newest APEX, with 90 hours of burntime, has a rechargeable lithium ion battery pack which clips to headstrap, or can be moved to the user's belt or stashed in their pack with the included extension cable. A USB charging cable comes standard with the headlamp, making it easy to replenish the battery whether at home or overseas. With a single Regulated Maxbright LED partnered with Four Regulated Ultrabright LEDs, the Apex provides either a powerful spot beam or a bright flood - two big buttons make switching between modes easy.

ULTRABRIGHT LED OPTION



WHITE

SPECS

POWER	200 Lumens
LAMP	Maxbright LED (Regulated), 4 Ultrabright LEDs (Regulated)
BURN TIME	90 Hours
BATTERIES	Rechargeable Lithium Ion
WEIGHT	283g With Batteries

4 MODES

MB LED, HIGH	Regulated Burn Time 5h
MB LED, LOW	8h
5MM LED, HIGH	20h
5MM LED, FLASH	90h
5MM LED, LOW	61h / 150h

DISTANCE m 0 26 43 67

TECH



BLACK



OLIVE DRAB

BLACK ON BLACK HEADSTRAP

APEX® PRO

LITHIUM BATTERIES LIGHTEN THE LOAD, STILL PRODUCE 200 LUMENS.

Where lightweight is a must, ultimate power and function are a demand, and durability is an expectation – we introduce you to the Apex Pro. Professional athletes and adventurers around the world have marveled at the power of the Apex. In an effort to meet their unique and ever evolving needs, we have developed the Apex Pro to provide a faster and lighter option while still providing the ultimate in brightness and output. The Apex Pro is powered by 2 CR123 lithium batteries protected in a highly durable and waterproof case. Designed for professionals, and perfect for all users.

ULTRABRIGHT LED OPTIONS



WHITE RED GREEN BLUE IR

SPECS

POWER	200 Lumens
LAMP	Maxbright LED (Regulated), 4 Ultrabright LEDs (Regulated)
BURN TIME	35 Hours
BATTERIES	2 CR123 Lithium NiMH Rechargeable
WEIGHT	173g With Batteries
NSN	6230-01-578-3637

4 MODES

MB LED, HIGH	Regulated Burn Time 1.5h / Total Burn Time 15h
MB LED, LOW	7h / 20h
5MM LED, HIGH	5.5h / 12h
5MM LED, FLASH	20h / 100h
5MM LED, LOW	12h / 35h

DISTANCE m 0 26 43 67

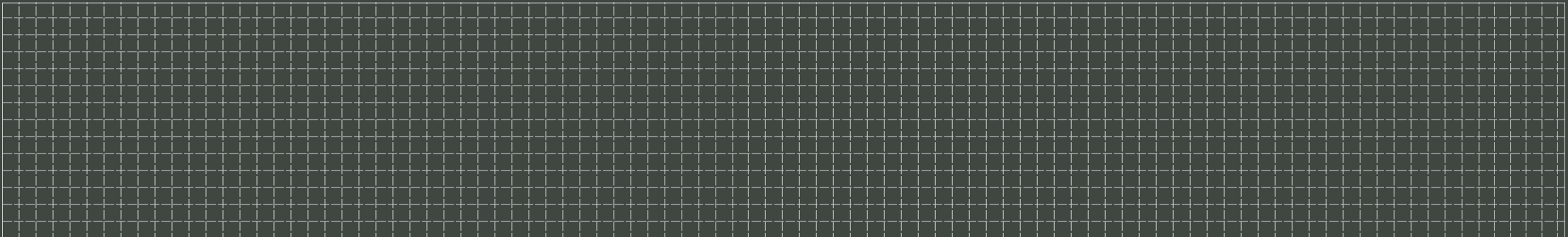
TECH





HANDHELDS

DURABLE, WATERPROOF, AND RUGGED
HANDHELD LIGHTS THAT ARE DESIGNED
TO ILLUMINATE ANY AND ALL TASKS ABOVE AND
BELOW THE SURFACE.





AMP™ 1LC

The Amp 1L may be tiny, but it packs an impressive 45 lumen LED beam. Waterproof to 100M and equipped with a large carabiner loop, this handheld light can always be at the ready no matter where you go. When the adventure is over, the Amp1L will still be your favorite piece of gear with its built-in bottle opener.

Looking for a do-it-all light? The Amp 1L is also available with a a snap on cone to instantly convert it into a tent light, hanging lantern, or marker light.

TECH SPECS

1 MODE

POWER	45 Lumens
LAMP	1 LED
BURN TIME	72 hours
BATTERIES	2 AAA (Included)
WEIGHT	57g With Batteries

SINGLE MODE	72h
DISTANCE m	0 26 39 58

TECHNOLOGY



LEAGUE 100™

Light weight and comfortable shape make Princeton Tec's newest waterproof (to 330 ft.) handheld feel like an extension of your hand. Because the design facilitates grip, you won't feel any strain holding this light even during extended missions. With its efficient circuitry and Maxbright LED, League 100 balances long burn time and impressive output for its size. A large loop allows for clipping or strapping this light to your gear, and the double locking switch eliminates the chance of accidental turn on in the field or of draining batteries while in your gear bag.

TECH SPECS

1 MODE

POWER	210 Lumens
LAMP	1 Maxbright LED
BURN TIME	10 hours
BATTERIES	4 AA (Included)
WEIGHT	203g With Batteries

SINGLE MODE	10h
DISTANCE m	0 25 75 181

TECHNOLOGY



AMP™ 3.0

The Amp 3.0 defies size perceptions with 40 lumens of pure white light in a compact & rugged housing. The impressive brightness is courtesy of the latest Ultrabright LEDs boasting 30% greater output than standard LEDs. Combine this with two output settings and a regulated circuit, and you have 90 hours of glorious illumination.

TECH SPECS

2 MODES

POWER	40 Lumens
LAMP	(4) Ultrabright LEDs
BURN TIME	90 hours
BATTERIES	4 AAA (Included)
WEIGHT	122g With Batteries

HIGH	61h
LOW	90h
DISTANCE m	15 20 30

TECHNOLOGY



AMP™ 3.5

The Amp 3.5 is the latest addition to Amp family using the same rugged body as the Amp 3.0, making it not only rugged but also light weight. While the Amp 3.0 dominates for area lighting, the Amp 3.5 is designed to offer a long distance spot beam capable of shining up to 75 meters. So, whatever your lighting requirements may be, there is a powerful and compact Amp to fit your needs.

TECH SPECS

2 MODES

POWER	100 Lumens
LAMP	(1) Maxbright LED
BURN TIME	112 hours
BATTERIES	4 AAA (Included)
WEIGHT	122g With Batteries

HIGH	50h
LOW	112h
DISTANCE m	1 30 43 75

TECHNOLOGY



SHOCKWAVE® LED

400 LUMENS CREATES A POWERFUL SPOT BEAM.

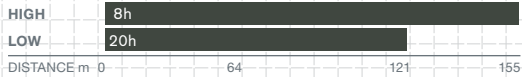
8C cell batteries power 3 Maxbright LEDs in a waterproof housing. Pushing out 400 lumens, the Shockwave LED provides unmatched brightness. When missions require bright, waterproof lighting with long burn times, the Shockwave LED should be your go-to lighting solution.



SPECS

POWER 400 Lumens
LAMP 3 Maxbright LEDs
BURN TIME 20 Hours
BATTERIES 8 C Alkaline (Included)
WEIGHT 1075g With Batteries

2 MODES



TECH



TORRENT® LED

{updated}

LIGHTWEIGHT MAIN SOURCE OR POWERFUL BACKUP?... WHY NOT BOTH?

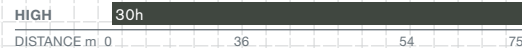
Designed as a powerful waterproof torch light, the Torrent LED provides 280 lumens through a single Maxbright LED. The locking switch mechanism prevents accidental discharge while the Torrent LED is in your gear bag. Usable as a lightweight main source or a powerful backup, the Torrent LED should be in everyone's lighting arsenal.



SPECS

POWER 280 Lumens
LAMP 1 Maxbright LED
BURN TIME 30 Hours
BATTERIES 8 AA Alkaline (Included)
WEIGHT 365g With Batteries

SINGLE MODE



TECH



MINIWAVE® LED

4C BATTERIES PUSH OUT 390 LUMENS AND WEIGH ONLY 650 GRAMS.

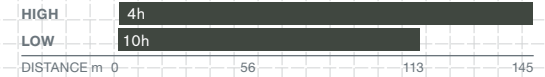
Like the Shockwave LED, the Miniwave LED is built to throw powerful light from a waterproof housing. 4C cells lighten the weight of the Miniwave LED for those who need to streamline their gear. Despite its smaller size, the Miniwave LED still produces 390 lumens of powerful light through 3 Maxbright LEDs.



SPECS

POWER 390 Lumens
LAMP 3 Maxbright LEDs
BURN TIME 10 Hours
BATTERIES 4 C (Included)
WEIGHT 650g With Batteries

2 MODES



TECH



IMPACT® XL

POWERFUL WATERPROOF TORCH IS RELIABLE ON ALL MISSIONS.

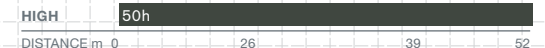
We took the traditional look and feel of handheld halogen lights and added in our Maxbright LED to make the Impact XL. With a rubber overmold and rugged construction, the Impact XL is durable enough for any conditions. And with a burn time of up to 50 hours, this compact light is sure to be there when you need it.



SPECS

POWER 65 Lumens
LAMP 1 Maxbright LED
BURN TIME 50 Hours
BATTERIES 4 AA (Included)
WEIGHT 197g With Batteries

SINGLE MODE



TECH





IMPULSE®

Impulse is the ultimate personal multi-task light available and it is UL® Class 1, Division 2 approved! Don't let its size fool you – the tiny Impulse is jam-packed with big features! Powered by 2 lithium coin cells, the Ultrabright LED burns up to 36 hours and has 5 electronic switch settings, including low, medium and high beam, and fast and slow blinking modes. With its quick release, detachable clip, hat clip option, and a range of translucent colors to choose from, you'll want one for every keychain, backpack, ball cap and book bag in the house!

SPECS

POWER	10 Lumens
LAMP	1 Ultrabright LEDs
BURN TIME	36 Hours
BATTERIES	(2) 2016 (Included)
WEIGHT	14g With Batteries

TECH



PULSAR®

Slightly larger than a quarter and weighing 7 grams, the Pulsar provides instant illumination for any situation and offers easy battery replacement. This compact Ultrabright LED burns with unbelievable intensity making it the perfect choice for key chains, backpacks, book bags, zippers and emergency situations.

SPECS

POWER	10 Lumens
LAMP	1 Ultrabright LED
BURN TIME	12 Hours
BATTERIES	(2) 2016 coin cells (included)
WEIGHT	7g With Battery

TECH



PULSAR® II

Princeton Tec has taken the smallest item in our product line and made it better – with a flick of a switch. The Pulsar II stays on so you can free up your hands for other tasks. Like its predecessor, the Pulsar II can also be illuminated merely by squeezing its compact, lightweight body.

SPECS

POWER	10 Lumens
LAMP	1 Ultrabright LED
BURN TIME	12 Hours
BATTERIES	(2) CR2016 (included)
WEIGHT	7g With Batteries

TECH



STASH®

Storing a headlamp in this simple and stylish case reduces external damage to your headlamp while in storage. In addition, while stored in the Stash, your headlamp is much less likely to accidentally discharge.

FITS

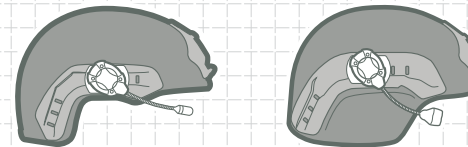
- Byte
- Fuel
- Fred
- Remix
- Remix Pro
- Tac EOS
- Tac Quad



MPLS TASKLIGHT ACCESSORY PACK

The MPLS Point and Switch come standard equipped with Helmet and MOLLE mounts. But when you wish to increase the capabilities of your MPLS Task Light, the MPLS Task Light Accessory Pack includes two additional mounts - Helmet Rail and Picatinny.

HELMET RAIL



PICATINNY

