Lighting the way

Find out why more companies are choosing NLT Cap Lamp Systems today.

Superior light pattern for optimum visibility
Crafted for maximum durability and comfort
Enhances safety and productivity
Unparalleled service and support

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Recognizing the key role that superior networking and communication systems play in mine safety and efficiency, Northern Light Technologies (NLT) offers reliable and innovative solutions that immediately generate value for your mines and peace of mind for your miners.

NLT is a turn-key partner in the design, manufacture, deployment, and support of scalable communication technologies that will change the way your mine communicates, collaborates and operates.

Since 1984, NLT’s mission has been to continually develop the most advanced technologies to make mines safer and more efficient.

Our award-winning team of engineers have pioneered several global cap lamp breakthroughs, including the first dry cell battery pack with smart-charging technology; the first to incorporate NiMH technology; the first two-way text messaging in a cap lamp; the first MSHA-approved all-in-one, Polaris® – and now, the Genesis.

The Genesis® represents the convergence of our two business units – cap lamps and underground networks. We built on the foundation of the Polaris by adding the ability to integrate tracking tags into the cap, keeping the battery and light source in a single enclosure.

The NLT tradition of improving the way mines communicate, collaborate and operate continues.

One cap lamp, a multitude of tracking options.

The advanced Genesis cap lamp can harness many different Wi-Fi and RFID tags. Choose the tag that works best with your network.

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An Open Approach to Network Design

Our network design philosophy is based on modularity and open standards. This approach allows your mining network to grow as your business evolves and add applications as required. It also ensures you are not tied to a proprietary technology, securing the longevity of your investment.

Our unique offering includes products exclusively developed to meet IS certification around the world. A Cisco version is also available.

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Polaris Cap Lamp

Consisting of simply a headpiece, the award-winning Northern Light Polaris cap lamp is specially designed for use in underground mining and tunneling operations.

Polaris uses a high capacity lithium-ion battery and an LED light source that is housed in a high impact, dust and water resistant plastic enclosure. Polaris is the first MSHA-approved cordless, all-in-one cap lamp, integrating the battery and light sources in one enclosure, eliminating the need for an external battery pack and cord. Incorporating two light sources plus an emergency flashing beacon mode, the main light output of 4,000 LUX is as bright (or brighter) than existing corded or non-corded cap lamps. The Polaris also offers the lowest cost of ownership for any cap lamp on the market.

- High quality, super bright Luxeon LED light
- High capacity, high quality Li-ion battery
- LUX: >4,000
- Discharge time of 10 hours
- Lamp weighs only 170 grams (6 oz.)
- Intrinsically Safe by IECEx, ATEX M1 and MSHA for mining
- Intrinsically Safe for Class 1 Division 1 in the US and Group II in ATEX and IEC markets
- Low profile and snug against the mounting bracket
- Retrofit your existing 5, 10, 20 or 40 unit Northern Light charger with double the number of Polaris positions

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Genesis Cap Lamp

Building upon the technological advancements of the award-winning Polaris, the second generation, all-in-one Genesis cap lamp has the ability to integrate tracking tags, while keeping the battery and light source in a single enclosure.

You can choose from a variety of RFID or Wi-Fi tags, all powered by the Genesis high capacity battery. Using the contemporary design of the Polaris, the Genesis maintains the superior light pattern consistent with all NLT lamps, providing a perfectly focused spot.

- High quality, super bright Luxeon LED light
- High capacity, high quality Li-ion battery
- LUX: >4,000
- Discharge time of 10 hours
- Lamp weighs only 187 grams (6.6 oz.)
- Retrofit your existing 20 or 40 unit Northern Light charger with double the number of Genesis positions
- MSHA certification pending
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Rebel Cap Lamp

The Rebel is Northern Light Technologies’ rugged, cordless cap lamp designed for outdoor and industrial applications.

The tough, high powered and hands-free Rebel is compact in design and provides five hours of constant high beam light, or up to 20 hours at medium output. With an LED that lasts for at least 20,000 hours, the Rebel is a portable, all-in-one LED cap lamp with three light settings, including a super-high 11,000 LUX beam. Colour filters allow for maximum light and visibility while the light source includes a patented reflector for the ultimate light output and a perfectly focused spot. The high powered lithium-ion battery can be recharged over 500 times, reducing unnecessary waste and saving you money. The Rebel is mountable to a wide variety of headgear, including hats, helmets, belts, clothing, machinery and vehicles.

- High quality, super bright Luxeon LED light
- High capacity, high quality Li-ion battery
- LUX: 11,000 (high beam), 3,000 (medium beam)
- Discharge time of >5 hours for high beam, 20 hours for medium beam
- Lamp weighs only 170 grams (6 oz.)
- Low profile and snug against the mounting bracket
- Retrofit your existing 20 or 40 unit Northern Light charger with double the number of Polaris positions

Eclipse Cap Lamp

The Eclipse cap lamp system from Northern Light Technologies boasts reliable power for a minimum of 14 hours with its compact, lithium-ion battery – but weighs less than a pound! Featuring a super bright LED lamp, the Eclipse is designed for outstanding impact resistance and supports both Wi-Fi and RFID tags for tracking purposes. Besides its reduced weight and size, the Eclipse is surprisingly affordable, comes with a two-year warranty and is MSHA, ATEX and IECEx approved for use in hazardous environments.

- High quality, super bright Cree LED light
- High capacity, high quality Li-ion battery
- MSHA, ATEX and IECEx approved for use in hazardous environments
- Lamp weighs only 400 grams (14 oz.)
- Light output of >3,700 LUX
- Supports Wi-Fi or RFID tags for tracking
- 12V DC vehicle adapters available
- Chargers can be mounted on existing Northern Light® Charging Racks
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**Messenger**

Reverse Tracking

Not only a cap lamp, the Messenger RT cap lamp is a robust, simple two-way text messaging device from Northern Light Technologies that provides powerful real-time communication in a convenient and intuitive package. The RFID receiver embedded in the unit allows the lamp to be tracked by placing NLT active RFID tags in key locations; this tag information is then sent to the server by the lamp via the Wi-Fi network. Text messages (up to 60 characters) are sent via the Wi-Fi network through Northern Light Technologies’ Digital Mine Software and received by the cap lamp user within seconds.

- Cree LED with NiMH Battery
- Tracking resolution rates to the metre like using GPS underground
- Backlit, 2 line LCD display
- Allows workers underground to send and receive messages
- Operates on any 802.11-compliant network
- Integrates with Northern Light Digital™ Software
- Supports Wi-Fi and RFID tracking
- On screen clock display
- Rated intrinsically safe by MSHA and IECEx
- More than 12 hours of continuous use

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**Polaris and Rebel**

Charging System

Compact charging stations for the Polaris and Rebel are available in single, 10, 24, and 48 unit racks. You can also retrofit existing 10, 20, 40, GII chargers with double the number of all-in-one in the same footprint.

- All chargers are designed to completely recharge a fully discharged battery within a 12-hour period
- Lowest cost-of-ownership through increased number of charging cycles
- Single units can be charged in vehicles using a DC adaptor

- Designed with built-in redundancy for a high level of safety
- Supports all voice, video and data communications
- Unparalleled 24/7 network support
- Superior optical design for clear focused light that penetrates dust and debris through long distances

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Accessories

Get more out of your NLT cap lamp - our accessories are just as rugged and reliable as our lighting solutions.

- **NLT Breakaway Lanyard**: NL8606
  - Adjustable and detachable lamp attached by an aluminium swivel hook.
  - Cap lamps can be worn comfortably around the neck.

- **NLT Lanyard**: NL8602
  - 3/8" (0.95 cm) flat breakaway lanyard with swivel hook.
  - Cap lamps can be worn comfortably around the neck.

- **GorillaPod**: NL8609
  - Large GorillaPod stays connected to your lamp, leaving your hands free.
  - Over 20 joints that bend and rotate, giving you flexibility.
  - Rubberized ring and foot grips.

- **Tripod Mounting Bracket**: NL8038
  - Fits all NLT cap lamps with any clips.
  - Features a universal mounting bracket.
  - Connects to all GorillaPods and most other tripods.

- **Adjustable Locking Clip**: NL0329
  - Adjustable clip with a security locking feature to prevent cap lamp from falling out of the hard hat bracket.

- **Adjustable Clip Small**: NL0328
  - Adjustable clip with a security locking feature to prevent cap lamp from falling out of the hard hat bracket.

- **Adjustable Magnetic Clip**: NL0314
  - Adjustable and detachable lamp attached by a magnet so the lamp can be attached to any metallic surface.
  - Attaches easily to most hard hats.

- **Standard Adjustable Clip**: NL0302
  - Allows the user to adjust the angle of the light beam.
  - Attaches easily to most hard hats.

- **Fixed Mounting Clip**: NL8005
  - Cap lamp is designed so that the angle of the light shines in the normal working areas at all times and there is no need to pivot the lamp.

- **Color Filters (Red, Amber, Green)**: NL7810-(R,A,G)-P10
  - Small magnetic GorillaPod stays connected to your lamp, leaving your hands free.
  - Over 20 joints that bend and rotate, giving you flexibility.
  - Super strong magnetic feet.

- **Dust Protector**: NL7807-P10
  - Keep dust and debris off your lenses with these tear-away protectors.
  - Pack of 10.

- **Cap Lamp Headband**: NL8604
  - An adjustable elastic headband designed for use with all-in-one cap lamps.

- **Camouflage Cap w/ Lamp Mount**: NL8608-CM
  - Look stylish while lighting the way.
  - One-size, adjustable.
  - Camouflage pattern.

- **Black Cap w/ Lamp Mount**: NL8608-BL
  - Look stylish while lighting the way.
  - One-size, adjustable.
  - Black.

- **Adjustable Magnetic Clip**: NL0312
  - Adjustable clip with a magnet so the lamp can be attached to any metallic surface.

- **Locking Device**: NL8058
  - This locking device is designed for use with all-in-one cap lamps.

- **Lamp Pouch**: NL8601
  - Protect your investment with this pouch designed for all-in-one cap lamps.
  - Black with NLT logo.

To order NLT cap lamp accessories, contact your NLT distributor.

www.nltinc.com  1.888.425.6555   info@nlt.com