



Smart Cap Lamps



Smart Cap Lamps are technologically advanced lamps which, in partnership with 3rd-party solution providers, incorporate proximity and/or tracking tags and may also enable evacuation/proximity warnings, lone worker alerts and two-way communication.

Which NLT cap lamps are “Smart”?



Genesis Plus

The world’s first cordless cap lamp to have a built-in tracking tag is now available with Dual-Beam technology. Can accommodate an RFID/Wi-Fi tracking or proximity detection tag.



Eagle

The first and only tag-agnostic, semi-corded lamp to accommodate a tracking and/or proximity tag. The Eagle is currently the smartest cap lamp in the world.



Falcon

The first corded lamp to accommodate a tracking and/or proximity tag. Can include a flashing taillight.

Key Benefits for Mines:

- Tag is always on the miner (missing tags can be dangerous; replacing tags is expensive)
- One charger/one rechargeable battery (a significant cost reduction over disposable batteries)
- Mine knows where their personnel are at all times
- More & better data for mines to support safety and productivity
- Personnel pinpointed & evacuation expedited in the instance of a mine event
- Reduction in miners’ injury & death from equipment impact through proximity awareness
- Ensures miners are where they are supposed to be, doing what they are supposed to be doing through tracking
- Mine can better allocate resources, such as an electrician, to fix a situation

“A tracking solution is like lifting the lid off a mine and allowing management to see what is going on in real time.”

Partners

Today, we work with most of the major tracking and proximity providers around the world:



NLT’s engineers are experts in the integration process, and we are keen to collaborate with other 3rd-party solution providers.

Field-replaceable parts for great ROI – Every part of every lamp, including the battery, is replaceable – a huge benefit over disposable cap lamps!



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Genesis Plus

The world's first cordless cap lamp to accommodate a tracking tag is now available with new Dual-Beam technology. The Genesis Plus features Focused Spot, Wide-Angle Flood Light and Dual-Beam (combo) beam patterns plus a Low-Light setting. It also offers Dynamic Turbo Bright, which temporarily increases light output in any of the three beam patterns by 40%.



For use in the harshest environments, the all-in-one Genesis Plus cap lamp has the capacity to accommodate a variety of tracking tag options while keeping the battery and light source in a single high-impact, IP67 enclosure. Its innovative engineering makes it programmable with custom functionality to support 3rd-party solutions as well as customizable for bidirectional

communication. (The original Genesis is certified IS to ATEX, IECEx and MSHA with the Extronics/AeroScout Wi-Fi tracking tag.) The Genesis Plus provides an ideal choice for mines looking for cordless lamps today with plans to introduce tracking in the future.

Eagle

The first semi-corded cap to accommodate both tracking and proximity tags, the safety-and-productivity focused Eagle is the most technically advanced Smart Lamp on the market today. The Eagle provides programmable functionality with two additional buttons to support bidirectional communication and multiple safety features. The Eagle is semi-corded with the battery pack worn on the back of the hardhat for excellent weight distribution. Additionally, there is a rear-facing "taillight" that alerts others of the miner's presence ahead.



Recognized by 3rd-party solution suppliers as the best multi-tag lamp option available, the Eagle features large tag pockets in both the headpiece and battery pack, making it highly adaptable and customizable. NLT currently has partnerships with many of the top tracking and proximity solution providers and has worked closely with them to integrate their solutions into its Smart Cap Lamps. NLT has designed the Eagle to take advantage of today's technology while providing the flexibility to accommodate emerging safety and communications technologies.

Falcon

After the successful launch of the Eagle, NLT developed the Falcon as a corded cap lamp to accommodate both tracking and proximity tags. The Falcon offers all of the advantages of the Eagle, including being proximity-ready and tracking-enabled, while having the battery pack worn at the hip. The Falcon provides programmable functionality with two additional buttons to support bidirectional communication and multiple safety features. With the taillight built into the lamp cord, miners are visible to those behind them.



Like the Eagle, the Falcon was engineered to be "future-proof," that is, to incorporate today's technology while having the flexibility to adapt to tomorrow's innovations.