

The Northern Light® Polaris cap lamp, consisting of only a headpiece, is specially designed for use in underground mining and tunneling operations. Polaris uses a high-capacity lithium ion battery and an LED light source, housed in high-impact dust and water resistant plastic.



Specifications of the Polaris

Specification	Description
Battery Charge Time	< 12 hours
Battery Discharge Time	> 12 hours
Battery Lifecycle	500 minimum
Cap Lamp Weight	170 grams
Charger Configuration	Single unit, 24-unit module and 48-unit rack; 12V DC model for vehicle connection
Charger Power Source	AC line voltage range from 120V +/- 10%, 220V +/- 10%, 12 AC input can also be used in case of retrofit to existing racks and transformers
Charger Temperature Range	5°C to 35°C (optimum 15°C to 20°C)
Lamp Storage Temperature	0°C to 60°C (optimum 10°C to 20°C)
Primary LED Life	20,000 hours
Secondary LED life	20,000 hours
Ingress Protection	IP 65
Operating Ambient Temperature	Ta = 0°C to 40°C (for IS purposes Ta = 0°C to 60°C, performance not guaranteed)
Charging Current	300mA
Approvals	IECex and M1, MSHA pending



NLT Corporate

33 Laird Drive
 Toronto, Ontario M4G 3S9
 Canada
 Tel: +1 (416) 425.6559 ext 235
 Fax: +1 (416) 425.5960
 Email: info@nltinc.com

NLT Chile Ltda.

Espronceda 539
 Ñuñoa, Santiago, Chile
 Tel: (56-2) 343 05 06/34 05 09
 Fax: (56-2) 274 23 90
 Email: info@nltchile.cl

NLT Australia Pty Ltd.

Unit 1 & 2
 22-26 Cessna Drive
 Caboolture, QLD 4510
 Tel: +61 7 5495 2944
 Fax: +61 7 5495 2966
 Email: info@nltinc.com.au

Distributors:

Visit our website at

www.nltinc.com



NL Technologies



Northern Light®

Polaris

No strings attached...



ABOUT NL TECHNOLOGIES

NL Technologies (NLT) is a Canadian-owned designer and manufacturer of underground lighting and digital communications solutions for the mining and tunneling industries, with manufacturing/assembly locations in Canada, Australia and Chile along with distributor partners globally. Northern Light® cap lamp systems are designed for maximum durability and comfort, while offering integrated radio-lighting and power-take-off systems as well as RFID and Wi-Fi tracking tag options. In 2009 NLT introduced the Polaris cordless all-in-one cap lamp which integrates the battery and light source in one enclosure. In 2008, NLT launched the Eclipse cap lamp, which incorporates the latest in LED technology and Li-Ion battery technology to provide a lighter, brighter and a more cost-efficient lighting system. Northern Light Digital™ offers a holistic approach to communications within the underground environment and is based on an open standard network using Wi-Fi protocol and wireless communication technologies to enable a fully connected digital mine. The digital network and software solution supports a myriad of applications including personnel and equipment tracking, two-way communication, VoIP, video and data transfers to meet all the demands of the modern mine.



"NLT continues to develop bright ideas"

Northern Light® Polaris CAP LAMP NLA001 (with fixed clip)

Accessories for the Polaris

Accessory	Product Number
1 Headband	NL8604
2 Lanyard	NL8602
3 Adjustable Clip	NL0302
4 Tear-away Lens Protector	NL7807



Chargers for the Polaris

Charger Option	Product Number	
	120V	240V
5 Single Unit	NR5120-01	NR5240-01
6 24 Unit	NR5120-24	NR5240-24
7 48 Unit	NR5120-48	NR5240-48
8 Vehicle Battery Adapter*	NR4502	

*Single unit charger sold separately.

