



CAP LAMPS

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## MINER'S CAP LAMP

### NEW GENERATION - SMARTLIGHT-05-M1



SMARTLIGHT-05-M1

#### BASIC FEATURES:

- 5 LEDs (Main, 3 x Additional & Emergency)
- Detectable through up to 30m of rock-wall
- **1000 battery charges guaranteed (4 years)**
- Monitoring and Management Software
- Vertical adjustment of light beam
- Provides light with damaged / cut cable
- Stainless steel charging racks
- **Optional: Monitoring Software, Methane Meter, RFID Tag**

LED based cap lamp Smartlight-05-M1 is equipped with a POSITION TRANSMITTER mounted within the battery set. It allows the rescue search team to locate the users in life threatening situations such as rockfalls or rockbursts thus shortening the rescue time. It is achieved by use of POSITION FINDING RECEIVER MinSearch-08. The position transmitter is active at all times, up to 7 days after the battery charge designated for providing light has been used.

## POSITION FINDING RECEIVER – MINSEARCH-08



MINSEARCH-08

POSITION FINDING RECEIVER MinSearch-08 is able to locate the distance and direction of trapped miners behind rock walls of up to 30m in radius.



More information at – [www.pjtech.co.za](http://www.pjtech.co.za)



## Cap Lamp Technical Specifications

Description	Data	
Rated voltage of battery	3,6 V	
Battery	3 x NiMH 9,5 Ah	
Battery life	<b>1000 cycles - GUARANTEED</b>	
Source of light:	Main light MLED	diode LED 1W
	Additional light ALED	diode LED 0,07W x 3
	Emergency light ELED	diode LED 0,07W
Light source life	100,000 hrs	
Utilisation from full charge	MLED only at 100%	15 hours
Example of battery utilisation in sequence (from full charge of battery)	MLED at 100%	10 hours then
	MLED at 20%	7 hours (80% battery capacity depleted) then
	ALED or ELED	7hours or 20 hours
Minimum period of position transmitter's functioning	150 hours	
Maximum charging period	12 hours (from completely discharged)	
Light intensity at 1m from the lamp	+ - 3000 lux (after 8 hours of 100% usage)	
Light beam angle	120 deg	
Ingress protection	IP 65	
Level of protection explosion-proof	I M1 Ex ia I; Certification No: FTZU04ATEX0299	
Dimensions	140 x 130 x 48mm	
Head diameter	72mm	
Cable length	1500mm	
Working temperature	0°...+ 40°	
Weight	1,3 kg	

## Battery Chargers



### AVAILABLE BATTERY CHARGER:

- Single desktop
- Rack of 5
- Rack of 51 (with provision for rescue packs)
- Rack of 102 (with provision for rescue packs)