

Northern  
Light  
**GLL**™ **RADIO CAP LAMP**

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The GII<sub>R</sub> Radio Cap Lamps represents over 17 years of Cap Lamp field proven experience combined with Motorola's HT 1000 portable radio to offer a level of ruggedness and quality that you have come to expect from a Northern Light™ product.

*The Northern Light™ GII<sub>R</sub> Radio Cap Lamp offers:*



## Complete Control

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Integrating the radio into the cap lamp will virtually eliminate lost or damaged radios.

## Efficiency

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Eliminating radio batteries, chargers, and an item from the miner's belt means less weight, less parts, and less cost.

# System Requirements

The GIIR Radio Cap Lamp can be programmed to operate for direct line-of-site communications, without the use of additional hardware. In this case, channels should be programmed with the transmit frequencies identical to the receive frequencies.

Where it is necessary to communicate over greater distances, or through areas where signal cannot penetrate, it is necessary to use a repeater system such as Leaky Feeder capable of operating at the frequency range noted below. In this case, the user must operate the radio within line-of-site of the repeater antenna, or Leaky Feeder cable.

General Radio Specifications	
Frequency Range	VHF: 136 - 174 MHz
Frequency Increments	5, 6.25 kHz
IF Bandwidth	9 kHz narrow band 20 kHz medium/wideband
# Channel Spacing	12.5 / 20 / 25 / 30 kHz
Supply Voltage	6.0 – 9 V
Temperature Range	-30 °C to +60 °C
Audio Speaker/microphone included for voice communications	

The following information is required at the time of order for factory programming of GIIR Radio Cap Lamps for each channel.

Channel #	Transmit PL
Output Wattage	PL Tone (Hz)
Tx (MHz)	Receiver Squelch
Rx (MHz)	PL Tone (Hz)



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