

Operational Description of the



The Guide Light 911™'s transmitter plugs into any standard telephone jack. A blue strobe light receiver mounts easily on the inside of a window. A telephone can be plugged into the transmitter.



As soon as Emergency 9-1-1 is dialed from any phone in the house, the Guide Light 911™ transmitter activates a high-intensity blue strobe light in the receiver that is clearly visible at a distance. The distinctive light source helps guide emergency personnel to a home's exact location. A reset button on the transmitter will turn off the strobe in the receiver.

Please refer to the Transmitter block diagram.

The RJ11 is plugged into any standard telephone line. When the telephone is picked up, an off-hook detector interrupts the micro-controller and monitors the DTMF tones that are being dialed. If the Emergency 9-1-1 tones are detected, the micro-controller activates a pulse-coded transmission to the companion receiver. The transmitting antenna is inside the plastic case

The transmitter operates at 433.92MHz with a 13.56MHz crystal, and uses a MICREL QwikRadio™ MICRF102BM. A data sheet can be downloaded from <http://www.micrel.com>.

The Transmitter module is battery powered and a DC-DC converter monitors the condition of the battery. At a certain level, the converter will send a low battery interrupt to the Alert Drivers that will flash a red LED and cause an Audio Transducer to beep.

