Essence Security International Ltd.

FCC ID:YXG-ES800FL IC:11061A-ES800FL

Exposure limit according to §15.247(i) and RSS-102

The flood detector is classified as mobile device.

Limit for power density for general population/uncontrolled exposure is 1 mW/cm 2 for 1500 - 100000 MHz frequency range.

The power density **P** (mW/cm²) = $P_T / 4\pi r^2$

 P_{T} is the transmitted power, which is equal to the peak transmitter output power 13.69 dBm plus maximum antenna gain -2 dBi, the maximum equivalent isotropically radiated power EIRP is

 $P_T = 13.69 \text{ dBm} - 2 \text{ dBi} = 11.69 \text{ dBm} = 14.8 \text{ mW}.$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

14.8 mW / 4π (20 cm)² = 0.003 mW/cm²

General public cannot be exposed to dangerous RF level.