

## RF Exposure Calculation (MPE distances)

Utilitcom 2.4 GHz Direct Sequence Radio

FCC ID: LFO-WR2411

### RF Hazard Distance Calculation

mW/cm2 from Table1: 1.00

Max RF Power P, dBm	TX Antenna G, dBi	MPE Safe Distance, cm
23.0	9.0	11.2
23.0	18.0	31.7
23.0	24.0	63.2

### Basis of Calculations:

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$E, \text{ V/m} = (P_{\text{watts}} * G_{\text{gain}} * 30)^{.5} / d, \text{ meters}$$

$$d = ((P_{\text{watts}} * G_{\text{gain}} * 30) / (3770 * S))^{.5}$$

**NOTE: For mobile or fixed location transmitters, minimum separation distance is 2 meter, even if calculations indicate MPE distance is less**