

MPE calculation for the ACE 01u0760

RF Hazard Distance Calculation

mW/cm2 from Table1: 1.00

Max RF Power P, dBm	TX Antenna G, dBi	MPE Safe Distance, cm
14.0	0.0	1.41
14.0	1.0	1.6
14.0	2.0	1.8
14.0	4.0	2.2
14.0	8.0	3.6
14.0	12.0	5.6
14.0	16.0	8.9
14.0	20.0	14.1

Basis of Calculations:

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

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

$$d = ((P_{\text{watts}} * G_{\text{gain}} * 30) / (3770 * S))^{.5} \quad P_{\text{watts}} * G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$$