MPE Calculations

FCC part 1.1310, Table 1 limits the power density for uncontrolled exposure to 1mW/ cm^2 for systems operating in FCC Part 21. The distance, d(cm) from the antenna at which the power density, P_d (mW/cm^2) is below this limit is calculated from the maximum EIRP, P_t (mW) using the equation:

$$P_d = P_t/(4 \pi d^2)$$

Re-arranging for the distance at which the power density is 1mW/cm2 gives:

$$d = \sqrt{(P_t /(4 \pi))}$$

Frequency	Maximum Output Power (dBm)	Max. Antenna Gain (dBi)	EIRP (mW)	Pd at 20cm	Calculated distance (in cm) where Pd < 1mW/ cm2
2500 – 2566 MHz	26.5	4	1120	0.223	9.447

The minimum distance from the antenna that the power density is 1mW/ cm^2 and the calculated minimum distance is 9.447 cm.

This information is detailed in the user manual..