

RF Exposure Limits

The following table summarizes the minimum operating distance for each antenna/amplifier system, as calculated from FCC OET Bulletin 65.

Potential Health Hazard Radiation Level

Ant.	Ant. Gain (dB)	Po (mW)	EIRP (mW)	R (cm)	Corr. Data Table
03MU	3	1000	1995	12.6	5.1
03MU	3	250	499	6.3	5.2
05MU	5	1000	3162	15.9	5.3
05MU	5	250	791	7.9	5.4
08P	8	40	252	4.5	5.5
08P	8	100	631	7.1	5.6
08U	8	40	252	4.5	5.7
08U	8	100	631	7.1	5.8
09P	9	40	318	5.0	5.9
09P	9	100	794	8.0	5.10
10U	10	40	400	5.6	5.11
10U	10	100	1000	8.9	5.12
12P	12	40	634	7.1	5.13
14P	14	40	1005	8.9	5.14
14P	14	100	2512	14.1	5.15
15G	15	40	1265	10.0	5.16
15P	15	40	1265	10.0	5.17
15U	15	40	1265	10.0	5.18
15U	15	100	3162	15.9	5.19
15Y	14	40	1005	8.9	5.20
15Y	14	100	2512	14.1	5.21
17P	17	40	2005	12.6	5.22
19G	19	250	19858	39.8	5.23
20P	20	40	4000	17.8	5.24
24G	24	40	10048	28.3	5.25
24G	24	250	62797	70.7	5.26

The following equations were used in calculating the operating distance (R).

$$EIRP(mW) = Po(mW) \cdot 10^{\frac{Gain(dB)}{10}}$$

and

$$R = \sqrt{\frac{EIRP(mW)}{4 \cdot \pi \cdot S(mW/cm^2)}}, \quad S = 1mW/cm^2$$