

RF Exposure Information

The following table summarizes the minimum separation distance as calculated following FCC OET Bulletin 65.

NOTE: THE ONLY PERMISSIBLE SYSTEM CONFIGURATIONS ARE THOSE LISTED ON THE FOLLOWING PAGE.

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

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

and

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

The following equations were used in calculating the RF Exposure (S)

$$S(mW/cm^2) = \frac{EIRP(mW)}{4 \cdot \Pi \cdot R(cm)^2}, \quad R = 100 \text{ cm (fixed), } 20 \text{ cm (mobile)}$$

Minimum Separation Distance (cm)

Antenna Model	Gain (dBi)	Amplifier Power Rating (dB)											Card Alone
		29.9	29	28	27	26	24	24	26	27	28	29	
HG2401U	1	9.9	8.9	8.0	7.1	6.3	5.0	21.8	6.3	7.1	8.0	8.9	17.5
HG2402RD	2	11.1	10.0	8.9	8.0	7.1	5.6	3.9	7.1	8.0	8.9	10.0	2.7
HG2403RD	3	12.5	11.2	10.0	8.9	8.0	6.3	4.9	8.0	8.9	10.0	11.2	3.0
HG2403UR	3	12.5	11.2	10.0	8.9	8.0	6.3	4.9	8.0	8.9	10.0	11.2	3.0
HG2404CU	3	12.5	11.2	10.0	8.9	8.0	6.3	4.9	8.0	8.9	10.0	11.2	3.0
RE05E	5	15.7	14.1	12.6	11.2	10.0	8.0	6.2	10.0	11.2	12.6	14.1	3.8
RE05U	5	15.7	14.1	12.6	11.2	10.0	8.0	6.2	10.0	11.2	12.6	14.1	3.8
HG2405	5	15.7	14.1	12.6	11.2	10.0	8.0	6.2	10.0	11.2	12.6	14.1	-
HG2406U	6	17.6	15.9	14.1	12.6	11.2	8.9	6.9	11.2	12.6	14.1	15.9	-
HG2407U	7	N/A	17.8	15.9	14.1	12.6	10.0	7.8	14.1	15.9	17.8	N/A	-
HG2408U	8	N/A	20.0	17.8	15.9	14.1	11.2	8.7	15.9	17.8	20.0	N/A	-
HG2409U	8.5	N/A	21.2	18.9	16.8	15.0	11.9	9.2	18.9	21.2	24.4	N/A	-
HGV-2409U	8.5	N/A	21.2	18.9	16.8	15.0	11.9	9.2	18.9	21.2	24.4	N/A	-
HG2410U	10	N/A	N/A	22.4	20.0	17.8	14.1	11.0	20.0	22.4	25.1	N/A	-
HG2412U	12	N/A	N/A	N/A	N/A	17.8	13.8	-	N/A	25.1	28.4	N/A	-
HG2415U-PRO	15	N/A	N/A	N/A	N/A	17.8	13.8	-	N/A	25.1	28.4	N/A	-

Configurations in BLACK Can be used in either MOBILE OR FIXED MOUNTED Installations

Configurations in RED can only be used in FIXED MOUNTED Installations

Configurations with N/A are not permissible, via. FCC 15.247(b)(4)(i)

RF Exposure (mW/cm^2)

Antenna Model	Gain (dBi)	Amplifier Power Rating (dB)											Card Alone
		29.9	29	28	27	26	24	24	26	27	28	29	
HG2401U	1	0.245	0.199	0.158	0.126	0.100	0.063	21.8	0.100	0.126	0.158	0.199	17.5
HG2402RD	2	0.308	0.250	0.199	0.158	0.126	0.079	0.048	0.126	0.158	0.199	0.250	0.014
HG2403RD	3	0.388	0.315	0.250	0.199	0.158	0.100	0.060	0.158	0.199	0.250	0.315	0.018
HG2403UR	3	0.388	0.315	0.250	0.199	0.158	0.100	0.060	0.158	0.199	0.250	0.315	0.022
HG2404CU	3	0.388	0.315	0.250	0.199	0.158	0.100	0.060	0.158	0.199	0.250	0.315	0.022
RE05E	5	0.615	0.500	0.397	0.315	0.250	0.158	0.095	0.397	0.500	0.615	0.774	0.035
RE05U	5	0.615	0.500	0.397	0.315	0.250	0.158	0.095	0.397	0.500	0.615	0.774	0.035
HG2405	5	0.615	0.500	0.397	0.315	0.250	0.158	0.095	0.397	0.500	0.615	0.774	-
HG2406U	6	0.774	0.629	0.500	0.397	0.315	0.199	0.120	0.500	0.629	0.774	N/A	-
HG2407U	7	N/A	0.792	0.629	0.500	0.397	0.250	0.151	N/A	0.792	0.952	N/A	-
HG2408U	8	N/A	0.997	0.792	0.629	0.500	0.315	0.190	N/A	0.997	1.247	N/A	-
HG2409U	8.5	N/A	0.045	0.889	0.706	0.561	0.354	0.213	0.889	1.045	1.247	N/A	-
HGV-2409U	8.5	N/A	0.045	0.889	0.706	0.561	0.354	0.213	0.889	1.045	1.247	N/A	-
HG2410U	10	N/A	N/A	0.050	0.997	0.792	0.500	0.301	0.050	0.997	1.247	N/A	-
HG2412U	12	N/A	N/A	N/A	0.063	0.050	0.792	0.477	N/A	0.063	0.050	N/A	-
HG2415U-PRO	15	N/A	N/A	N/A	N/A	0.100	0.063	0.952	0.100	N/A	0.063	N/A	-

Configurations in BLACK Can be used in either MOBILE OR FIXED MOUNTED Installations (RF Exposure @ 20 cm)

Configurations in RED can only be used in FIXED MOUNTED Installations (RF Exposure @ 100 cm)

Configurations with N/A are not permissible, via. FCC 15.247(b)(4)(i)