

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).

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

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 17.5
		29.2	29	28	27	26	24	23	20	18	17	14	
HG2401U	1	9.1	8.9	8.0	7.1	6.3	5.0	4.5	3.2	2.5	2.2	1.6	-
HG2402RD	2	10.2	10.0	8.9	8.0	7.1	5.6	5.0	3.6	2.8	2.5	1.8	-
HG2403RD	3	11.5	11.2	10.0	8.9	8.0	6.3	5.6	4.0	3.2	2.8	2.0	-
HG2403UR	3	11.5	11.2	10.0	8.9	8.0	6.3	5.6	4.0	3.2	2.8	2.0	-
HG2404CU	3	11.5	11.2	10.0	8.9	8.0	6.3	5.6	4.0	3.2	2.8	2.0	-
RE05E	5	14.5	14.1	12.6	11.2	10.0	8.0	7.1	5.0	4.0	3.6	2.5	-
RE05U	5	14.5	14.1	12.6	11.2	10.0	8.0	7.1	5.0	4.0	3.6	2.5	3.8
HG2405	5	14.5	14.1	12.6	11.2	10.0	8.0	7.1	5.0	4.0	3.6	2.5	-
HG2406U	6	16.2	15.9	14.1	12.6	11.2	8.9	8.0	5.6	4.5	4.0	2.8	-
HG2407U	7	N/A	17.8	15.9	14.1	12.6	10.0	8.9	6.3	5.0	4.5	3.2	-
HG2408U	8	N/A	20.0	17.8	15.9	14.1	11.2	10.0	7.1	5.6	5.0	3.6	-
HG2409U	8.5	N/A	21.2	18.9	16.8	15.0	11.9	10.6	7.5	6.0	5.3	3.8	-
HGV-2409U	8.5	N/A	21.2	18.9	16.8	15.0	11.9	10.6	7.5	6.0	5.3	3.8	-
HG2410U	10	N/A	N/A	22.4	20.0	17.8	14.1	12.6	8.9	7.1	6.3	4.5	-
HG2412U	12	N/A	N/A	N/A	25.1	22.4	17.8	15.9	11.2	8.9	8.0	5.6	-
HG2415U-PRO	15	N/A	N/A	N/A	N/A	31.7	25.1	22.4	15.9	12.6	11.2	8.0	-
HG2409P	8	N/A	20.0	17.8	15.9	14.1	11.2	10.0	7.1	5.6	5.0	3.6	-
HG2408P	8	N/A	20.0	17.8	15.9	14.1	11.2	10.0	7.1	5.6	5.0	3.6	-
HG2412P	12	N/A	N/A	28.2	25.1	22.4	17.8	15.9	11.2	8.9	8.0	5.6	-
HG2414P	14	N/A	N/A	N/A	31.7	28.2	22.4	20.0	14.1	11.2	10.0	7.1	-
HG2416P	16	N/A	N/A	N/A	N/A	35.5	28.2	25.1	17.8	14.1	12.6	8.9	-
HG2409Y	9	N/A	22.4	20.0	17.8	15.9	12.6	11.2	8.0	6.3	5.6	4.0	-
HG2412Y	12	N/A	N/A	28.2	25.1	22.4	17.8	15.9	11.2	8.9	8.0	5.6	-
HG2415Y	14.5	N/A	N/A	N/A	33.5	29.9	23.7	21.2	15.0	11.9	10.6	7.5	-

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/cm²)

Antenna Model	Gain (dBi)	Amplifier Power Rating (dB)											Card Alone 17.5
		29.2	29	28	27	26	24	23	20	18	17	14	
HG2401U	1	0.208	0.199	0.158	0.126	0.100	0.063	0.050	0.025	0.016	0.013	0.006	-
HG2402RD	2	0.262	0.250	0.199	0.158	0.126	0.079	0.063	0.032	0.020	0.016	0.008	-
HG2403RD	3	0.330	0.315	0.250	0.199	0.158	0.100	0.079	0.040	0.025	0.020	0.010	-
HG2403UR	3	0.330	0.315	0.250	0.199	0.158	0.100	0.079	0.040	0.025	0.020	0.010	-
HG2404CU	3	0.330	0.315	0.250	0.199	0.158	0.100	0.079	0.040	0.025	0.020	0.010	-
RE05E	5	0.523	0.500	0.397	0.315	0.250	0.158	0.126	0.063	0.040	0.032	0.016	-
RE05U	5	0.523	0.500	0.397	0.315	0.250	0.158	0.126	0.063	0.040	0.032	0.016	0.035
HG2405	5	0.523	0.500	0.397	0.315	0.250	0.158	0.126	0.063	0.040	0.032	0.016	-
HG2406U	6	0.659	0.629	0.500	0.397	0.315	0.199	0.158	0.079	0.050	0.040	0.020	-
HG2407U	7	N/A	0.792	0.629	0.500	0.397	0.250	0.199	0.100	0.063	0.050	0.025	-
HG2408U	8	N/A	0.997	0.792	0.629	0.500	0.315	0.250	0.126	0.079	0.063	0.032	-
HG2409U	8.5	N/A	0.045	0.889	0.706	0.561	0.354	0.281	0.141	0.089	0.071	0.035	-
HGV-2409U	8.5	N/A	0.045	0.889	0.706	0.561	0.354	0.281	0.141	0.089	0.071	0.035	-
HG2410U	10	N/A	N/A	0.050	0.997	0.792	0.500	0.397	0.199	0.126	0.100	0.050	-
HG2412U	12	N/A	N/A	N/A	0.063	0.050	0.792	0.629	0.315	0.199	0.158	0.079	-
HG2415U-PRO	15	N/A	N/A	N/A	N/A	0.100	0.063	0.050	0.629	0.397	0.315	0.158	-
HG2409P	8	N/A	0.997	0.792	0.629	0.500	0.315	0.250	0.126	0.079	0.063	0.032	-
HG2408P	8	N/A	0.997	0.792	0.629	0.500	0.315	0.250	0.126	0.079	0.063	0.032	-
HG2412P	12	N/A	N/A	0.080	0.063	0.050	0.792	0.629	0.315	0.199	0.158	0.079	-
HG2414P	14	N/A	N/A	N/A	0.100	0.080	0.050	0.040	0.500	0.315	0.250	0.126	-
HG2416P	16	N/A	N/A	N/A	N/A	0.126	0.080	0.063	0.792	0.500	0.397	0.199	-
HG2409Y	9	N/A	0.050	0.997	0.792	0.629	0.397	0.315	0.158	0.100	0.079	0.040	-
HG2412Y	12	N/A	N/A	0.080	0.063	0.050	0.792	0.629	0.315	0.199	0.158	0.079	-
HG2415Y	14.5	N/A	N/A	N/A	0.112	0.089	0.056	0.045	0.561	0.354	0.281	0.141	-
HG2424G	24	N/A	N/A	N/A	N/A	N/A	0.502	0.399	0.200	0.126	0.100	0.050	-

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

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

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