

RF exposure

FCC ID: ROV-UTTR900M

The output power of the EUT is 200 mW and the gain of the antenna is 2dBi

The following information provides the minimum separation distance for the EUT, as calculated from **FCC OET 65 Appendix B, Table 1B** "Guidelines for General Population/Uncontrolled Exposure"

This calculation is based on the highest EIRP possible from the EUT considering maximum power and antenna gain. The formulas were used:

GP limit is = 0.62 mW/cm² for 928 MHz (from F/1500)
Pwatts*Ggain or ERP = 10^{^(PdBm-30+GdBi)/10} = 0.316 Watts
0.316 Watts = 25 dBm
S = E²/3770 mW/cm²
E or V/m = (ERP*30)^{0.5}/d, (d in meters)
d = ((ERP*30)/3770*S)^{0.5}

Freq. MHz	S GP limit mW/cm ²	Maximum RF power dBm	Antenna Gain dBi	ERP watts	E V/m	MSD d meters
903	0.602	23	2	0.316	47.6	0.065
927	0.618	23	2	0.316	48.3	0.064

GP is the limit for general Population/Uncontrolled Exposure

MSD is the minimum Separation Distance

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less