NCEE Labs
4740 Discovery Drive
Lincoln, NE 68521
402-323-6233

FCC ID:T62-ULTERRAIP15

IC:4397A-ULTERRAIP15

Maximum exposure limits from CFR 47, FCC Part 1.1310:

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	$*900/f^2$	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	$*180/f^2$	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

The power density is calculated as shown below:

S = (P x G)/(4 x π x d^2) – used to calculate exposure at 20 cm

S= power density
P = transmitter conducted power (in mW)
G = antenna numeric gain
D = distance to radiation center (20 cm)

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Table 2 – Power Density Calculations

Transmitter	Frequency	Antenna Gain	EIRP	Power Density	Limit	% of limit
	MHz	numerical	mW	mW/cm^2	mW/cm^2	
1	915	1	0.38	0.0000756	0.0610	0.12%
1	918	1	0.38	0.0000756	0.0612	0.12%
1	921	1	0.41*	0.0000816	0.0614	0.13%
2	915	1	0.80	0.0001592	0.0610	0.26%
2	918	1	0.65	0.0001294	0.0612	0.21%
2	921	1	0.69*	0.0001373	0.0614	0.22%
3	2452	1	5.82*	0.0011584	1.0000	0.12%
3	2457	1	5.71	0.0011365	1.0000	0.11%
3	2462	1	4.82	0.0009594	1.0000	0.10%

Note: This equipment is not intended to be operated by hand, and instead is operated by a separate handheld remote. It is expected that a 20cm separation will be maintained at all times.

All EIRP values were taken from the maximum field strength measurements in the test reports.

*Maximum values for each radio are indicated by an asterisk

If all three radios are operating simultaneously on the highest output channel, It would be:

0.13% + 0.26% + 0.12% = 0.51% of the maximum allowed power density.

Radio 1 = Main board

Radio 2 = trim board

Radio 3 = iPilot standard