§1.1307 (b) (1) & §2.1091- MaximuM Permissible exposure (MPE)

FCC ID.: AMWUP689 Model(s): EXP11000

Manufacturer: Uniden America Corporation Type of equipment: Cordless Telephone

According to FCC §15.319(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minute)					
Limits for General Population/Uncontrolled Exposure									
0.3-1.34	614	1.63	*(100)	30					
1.34-30	842/f	2.19/f	*(180/f\2\)	30					
30-300	27.5	0.073	0.2	30					
300-1500	/	/	f/1500	30					
1500-100,000	/	/	1.0	30					

f = frequency in MHz

MPE Calculation

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

Where: S = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Channel	Frequency	Antenna Gain		Conducted Power		Evaluation Distance	Power Density	MPE Limit
	(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mW/cm ²)	(mW/cm ²)
High	1928.448	2.0	1.58	17.79	60.12	20	0.0189	1.0

Result: The device meets MPE limit at 20 cm distance.

^{* =} Plane-wave equivalent power density