

Digital Monitoring Products		Model: XT50	Test Number: 080529		
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.				
	dBi = dB gain compared to an isotropic radiator.				
	S = power density in mW/cm ²				
				Antenna Gain (dBi)	0
		Output Power		dBd + 2.17 = dBi	2.2
Tx Frequency (MHz)	913	Maximum (Watts)	0.2380	Antenna Gain (dBd)	-2.17
Cable Loss (dB)	0.0	(dBm)	23.77	Antenna minus cable (dBi)	0.00
	Calculated ERP (mw)	144.403		EIRP = Po(dBM) + Gain (dB)	
	Calculated EIRP (mw)	238.000		Radiated (EIRP) dBm	23.766
				ERP = EIRP - 2.17 dB	
				Radiated (ERP) dBm	21.596
Occupational Limit	3.04333	mW/cm²	<div style="border: 1px solid black; padding: 5px;"> Power density (S) EIRP $\frac{EIRP}{4\pi r^2} = mW/cm^2$ r (cm) EIRP (mW) </div>		
General Public Limit	0.60867	mW/cm²			
FCC radio frequency radiation exposure limits per 1.1310					
	Frequency (MHz)	Occupational Limit	Public Limit		
	300-1,500	f/300	f/1500		
	1,500-10,000	5	1		
FCC radio frequency radiation exposure limits per 1.1310					
	Frequency (MHz)	Occupational Limit @ Tx Freq (mW/cm ²)	Public Limit @ Tx Freq (mW/cm ²)		
	300-1,500	3.043333333	0.608666667		
	1,500-10,000	5	1		
	EIRP	Distance	Distance	S	Distance
	milliwatts	cm	inches	mW/cm ²	Feet
	238.000	300.00	118.11	0.00021	9.84
	238.000	225.00	88.58	0.00037	7.38
	238.000	200.00	78.74	0.00047	6.56
	238.000	150.00	59.06	0.00084	4.92
	238.000	100.00	39.37	0.00189	3.28
	238.000	90.00	35.43	0.00234	2.95
	238.000	80.00	31.50	0.00296	2.62
	238.000	70.00	27.56	0.00387	2.30
	238.000	60.00	23.62	0.00526	1.97
	238.000	50.00	19.69	0.00758	1.64
	238.000	40.00	15.75	0.01184	1.31
	238.000	30.00	11.81	0.02104	0.98
	238.000	20.00	7.87	0.04735	0.66
	238.000	10.00	3.94	0.18939	0.33
	238.000	9.00	3.54	0.23382	0.30
	238.000	8.00	3.15	0.29593	0.26
	238.000	7.00	2.76	0.38652	0.23
	238.000	5.60	2.20	0.60394	0.18
	238.000	2.50	0.98	3.03031	0.08
	Frequency (MHz)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (cm / inches)		
	300-1,500	2.5 / 0.98	5.6 / 2.2		
	1,500-10,000	N/A	N/A		