Maximum Permissive Exposure

FCC ID: KUJCE11101 Product Name: Ceiling Fan Remote Controller(Transmitter) Model No: TR228A-A8106

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (Minutes)			
(A) Limits For Occupational / Control Exposures (f = frequency)							
30-300	61.4	0.163	1.0	6			
300-1500			f/300	6			
1500-100,000			5.0	6			
(B) Limits For General Population / Uncontrolled Exposure (f = frequency)							
30-300	27.5	0.073	0.2	30			
300-1500			f/1500	30			
1500-100,000			1.0	30			

Table 1 Limits for Maximum Permissible Exposure

Chungear Industrial Co., Ltd declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

Mode	Max Output Power (dBm)	Tune-up factor	Tune-up max power (dBm)	
2.4GHz	-4.00	0.9325	-3.73	

**The value presented in the MPE is the maximum tune-up power.

2. MPE Calculation

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.897Numerical**, and the highest power output (P) is **0.424mW**., the power density (S) is **0.000160mW/cm**². RF Exposure Calculations:

S = (P * G) / (4*
$$\pi$$
 * r²) or r = $\sqrt{(P * G) / (4* \pi * S)}$

Where :

Based on safety distance (r)=	20 cm		
Highest Power Output (P)=	-3.73 dBm =	0.424	mW
Antenna Gain (G)=	2.78 dBi =	1.897	Numerical
MPE (S) = (P*G) / $(4^*\pi^*r^2) =$	(0.424*1.897)/(4*π*20 ²)=	0.000160	mW/cm ²

Sincerely Yours,

Mr. Johnny Hsueh Section Manager AUDIX Technology Corporation