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Maximum Permissive Exposure

FCC ID: 2ACFI20AWM

Product Name: Car Camcorder

M/N: P70; SP20A; f940x; P75; P80; P85; f940g; f945x; f945g

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).

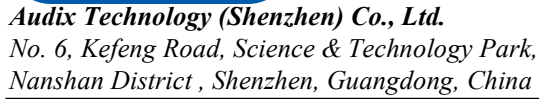
Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	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 Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

2. MPE Calculation

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.

RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$



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WiFi 2.4GHz:

WiFi 5GHz:

Test Mode	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE (mW/cm ²)	Limit (mW/cm ²)
WIFI 5.1G	10.82	12.08	6.23	4.20	0.0101	1
WIFI 5.8G	12.48	17.70	7.85	6.10	0.0215	1
Conclusion: Pass						



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Based on safety distance (r) **20cm**, the antenna gain (G) numerical as below:

Antenna System	
Type of Antenna	FPC Antenna
Antenna Number	1
Antenna Peak Gain	WIFI 2.4GHz Peak Gain: 3.37dBi WIFI 5GHz: U-NII-1 Band (5150-5250) Peak Gain: 6.23dBi U-NII-3 Band (5725-5850) Peak Gain: 7.85dBi

WiFi 2.4GHz highest power output (P) is **47.86mW**, and the WiFi 5GHz highest power output (P) is **17.70mW**;
the WiFi 2.4GHz power density (S) is **0.0207mW/cm²**, the WiFi 5GHz power density (S) is **0.0215mW/cm²**.

Note: Wi-Fi 2.5G and Wi-Fi 5G do not support simultaneous transmission.