

RF EXPOSURE EVALUATION REPORT

FCC ID : 2AMM6-ERD-RS211NAD
Equipment : 24G Radar Model
Brand Name : EARDATEK
Model Name : ERD-RS211NAD
Applicant : EarDa Technologies Co.,Ltd
Block A,LianFeng Creative Industry Park,2 JiSheng Road.,
HuangGe Town,NanSha District,Guangzhou,PRC.
Manufacturer : EarDa Technologies Co.,Ltd
Block A,LianFeng Creative Industry Park,2 JiSheng Road.,
HuangGe Town,NanSha District,Guangzhou,PRC.
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA5D1810	Rev. 01	Initial issue of report	Apr. 10, 2026

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	24G Radar Model
Brand Name	EARDATEK
Model Name	ERD-RS211NAD
FCC ID	2AMM6-ERD-RS211NAD
Wireless Technology and Frequency Range	24GHz Radar : 24000MHz ~ 24250 MHz
Mode	FMCW
SW Version	V1.0.0

Reviewed by: Jason Wang**Report Producer: Daisy Peng****2. Maximum RF average output power among production units**

Mode	EIRP (dBm)
24GHz	12.67

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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 Exposures				
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
300-1500			f/300	6
1500-100,000			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
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

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

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Band	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
24GHz Rada	12.67	18.493	0.004	1.000

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.