RF Exposure Evaluation Report

Product	:	Camera
Trade mark	:	STREAMAX
Model/Type reference	:	AD Plus2.0, C6 Lite
Serial Number	:	N/A
Report Number	:	EED32Q81512702
FCC ID	:	2AM6L-ADP211
Date of Issue	:	Nov. 07, 2024
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093 KDB 447498 D01 General RF Exposure Guidance v06
Test result	:	PASS

Prepared for:

Streamax Technology Co.,Ltd
21-23/F, Building B1, Zhiyuan, No.1001, Xueyuan Avenue, Nanshan District, Shenzhen City, Guangdong Province, P.R.China

Prepared by:

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Date: Nov. 07, 2024

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1 Version

Version No.	Date	Description
00	Nov. 07, 2024	Original

2 Contents

3 General Information

3.1 Client Information

Applicant:	Streamax Technology Co.,Ltd
Address of Applicant:	21-23/F, Building B1, Zhiyuan, No.1001, Xueyuan Avenue, Nanshan District, Shenzhen City, Guangdong Province, P.R.China
Manufacturer:	Streamax Technology Co.,Ltd
Address of Manufacturer:	21-23/F, Building B1, Zhiyuan, No.1001, Xueyuan Avenue, Nanshan District, Shenzhen City, Guangdong Province, P.R.China

3.2 General Description of EUT

Product Name:	Camera
Model No.(EUT):	AD Plus2.0, C6 Lite
Test Model No.:	AD Plus2.0
Trade mark:	STREAMAX

3.3 Product Specification subjective to this standard

Frequency Range:	2.4GHz Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz LTE: B2: 1850-1910MHz, B4: 1710-1755MHz, B5: 824-849MHz, B12: 699-716MHz, B13: 777-787MHz, B66: 1710-1780MHz, B71: 663-698MHz
Modulation Type:	2.4GHz Wi-Fi: IEEE for 802.11b:DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK) LTE: QPSK,16QAM
Test Power Grade:	Default
Test Software of EUT:	CMD
Antenna Type:	Internal antenna
Antenna Gain:	3dBi
Power Supply:	9-36V⎓ 2A
Sample Received Date:	Sep. 30, 2024
Sample tested Date:	Sep. 30, 2024 to Oct. 16, 2024

Remark:
Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
Model No.: AD Plus2.0, C6 Lite
Only the model AD Plus2.0 was tested, their have same electrical,PCB and layout,only the model name,AD Plus2.0 and C6 Lite are different for marketing requirements.

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and

d (cm) = d(m) / 100

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$ **Equation 1**

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm^2

4.2 Maximum Permissible Exposure

Substituting the MPE safe distance using d = 20 cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm^2

1)Maximum tune-up Power

	Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
2.4G Wi-Fi	1	1.71	1.00±1	2.00	1.585
LTE	Band 12	24.19	23.5±1	24.50	281.838

Remark: The Max Conducted Peak Output Power data refer to the report EED32Q81512701,R2007A0434-R1,R2007A0434-R2,R2007A0434-R3.Only the worst case was recorded in the report.(LTE module's FCC ID:XMR202008EC25AFXD.)

2)For SISO transmit:

①2.4G Wi-Fi:

Calculated data:

Ch.	Frq. (MHz)	P (mW)	Gain (dBi)	Gain (num.)	D (cm)	Power density in mW / cm^2	Limit (mW/cm^2)
1	2412	1.585	3.00	1.995	20	0.00063	1

Result: compliant

②LTE:

Calculated data:

Band	Conducted power(dBm)	P (mW)	Gain (dBi)	Gain (num.)	D (cm)	Power density in mW / cm^2	Limit (mW/cm^2)
LTE Band12	23.74	236.592	3.00	1.995	20	0.09393	0.466

Note: Only the worst case data was recorded in the report.

Result: compliant

3)For 2.4G Wi-Fi+LTE transmit:

SUM=0.00063/1+0.09393/0.466=0.2022＜1

Result: compliant.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***