

RF Exposure Evaluation Report

Product : Camera
Trade mark : STREAMAX
Model/Type reference : AD Plus2.0,AD Lite,C6 Lite
Test Model No. : AD Plus2.0
Serial Number : N/A
Report Number : EED32O80680303
FCC ID : 2AM6L-ADP2
Date of Issue : Jul.12, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 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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2 Version

Version No.	Date	Description
00	Jul.12, 2022	Original

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4 General Information

4.1 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

4.2 General Description of EUT

Product Name:	Camera
Mode No.:	AD Plus2.0,AD Lite,C6 Lite
Test Model No.:	AD Plus2.0
Trade mark:	STREAMAX
EUT Supports Radios application:	2.4GHz Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz LTE: B2,B4,B5,B12,B13,B66,B71

4.3 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
Antenna Type (WiFi):	Internal antenna
Antenna Gain (WiFi):	3dBi

Antenna Type (LTE):	Internal antenna
Antenna Gain (LTE):	3dBi
Function (Wi-Fi):	☒ SISO ☐ 2x2 MIMO ☐ 3x3 MIMO ☐ 4x4MIMO
Function (LTE):	☒ SISO ☐ 2x2 MIMO ☐ 3x3 MIMO ☐ 4x4MIMO
Power Supply:	9-36V  2A
Max Conducted Peak Output Power:	2.4G WiFi:1.99dBm, LTE: B2: 23.84dBm, B4: 23.72dBm, B5: 24.19dBm, B12: 23.74dBm, B13: 23.85dBm, B66: 23.82dBm, B71: 23.47dBm The Max Conducted Peak Output Power data refer to the report EED32O80680301,R2007A0434-R1,R2007A0434-R2,R2007A0434-R3. (LTE module' s FCC ID:XMR202008EC25AFXD.) and R1907A0408-R1,R1907A0408-R2,R1907A0408-R3 (LTE module' s FCC ID:XMR201909EC25AFX.)
Sample Received Date:	May 17, 2022
Sample tested Date:	May 25, 2022 to Jun. 06, 2022
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,AD Lite,C6 Lite This application product has single lens and double lens optional.Only the model AD Plus2.0 of double lens was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model's names, Lens resolution and appearance color are different for marketing requirements.

4.4 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

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 RF Exposure Evaluation

5.1 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:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

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

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

5.2 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 / cm²

1)Maximum tune-up Power

	Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
2.4G WiFi	7	1.99	1.00 ± 1	2.00	1.585
LTE	20600	24.19	23.5 ± 1	24.50	281.838

Remark: The Max Conducted Peak Output Power data refer to the report EED32O80680301,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 WiFi:

Calculated data:

Ch.	Frq. (MHz)	P (mW)	Gain (dBi)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
7	2437	1.585	3.00	1.995	20	0.00063	1

Result: compliant

②LTE:

Calculated data:

Ch.	Frq. (MHz)	P (mW)	Gain (dBi)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
20600	844	281.838	3.00	1.995	20	0.11189	1

Result: compliant

3)For 2.4G WiFi+LTE transmit:

$$\text{SUM}=0.00063+0.11189=0.11252<1$$

Result: compliant

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80680301 for EUT external and internal photos.

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 ***