

RF Exposure Evaluation Report

Product : Projector
Trade mark : N/A
Model : Gimbal A8
Additional Model : Gimbal N8, A8, N8, Gimbal A8 Pro,
Gimbal N8 Pro, A8 Pro, N8 Pro,
Gimbal A8 Cine, Gimbal N8 Cine,
Gimbal A8 GO, Gimbal N8 GO
Serial Number : N/A
Report Number : EED32S80521305
FCC ID : 2BDRG-GIMBALA8
Date of Issue : May 21, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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2 General Information

2.1 Client Information

Applicant:	SHEN ZHEN XIN SHENG SHANG TECHNOLOGY CO., LTD
Address of Applicant:	Room 303, Building 9, No. 54-6, Guanlan Avenue, Xinhe Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, China
Manufacturer:	SHEN ZHEN XIN SHENG SHANG TECHNOLOGY CO., LTD
Address of Manufacturer:	Room 303, Building 9, No. 54-6, Guanlan Avenue, Xinhe Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, China
Factory:	SHEN ZHEN XIN SHENG SHANG TECHNOLOGY CO., LTD
Address of Factory:	Room 303, Building 9, No. 54-6, Guanlan Avenue, Xinhe Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, China

2.2 General Description of EUT

Product Name:	Projector
Model No.:	Gimbal A8
Additional Model No.:	Gimbal N8, A8, N8, Gimbal A8 Pro, Gimbal N8 Pro, A8 Pro, N8 Pro, Gimbal A8 Cine, Gimbal N8 Cine, Gimbal A8 GO, Gimbal N8 GO
Model difference:	All model numbers have same appearance, electrical parameters (current/voltage/power, etc.), internal structure, electrical principles, PCB and layout. Only the model name and color are different for marketing requirements. For detailed information, please refer to the table 1 below. Based on the differences among the models, the test model was selected as Gimbal A8, which can represent the series of models, and the test results apply to other models. The test results for the primary model can cover the risks associated with non-tested models.
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1: 5150-5250MHz U-NII-3: 5745-5825MHz
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK, 8DPSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK, BPSK) 5G Wi-Fi: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM)
Test Power Grade:	Default

Test Software of EUT:	adb
Antenna Type:	FPC Antenna
Antenna Gain:	BLE/BT: 3.56dBi 2.4G Wi-Fi: 3.95dBi 5G Wi-Fi: 3.57dBi
Power Supply:	100VAC-240VAC, 50/60Hz, 2A
Sample Received Date:	Mar. 17, 2026
Sample tested Date:	Mar. 17, 2026 to May 08, 2026

Remark:

Table 1

Category	Model	Appearance	Current	Voltage	Power	Internal structure	Electrical principles	PCB and Layout
Test Model	Gimbal A8	Identical	Identical	Identical	Identical	Identical	Identical	Identical
Series Models	Gimbal N8	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	A8	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	N8	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal A8 Pro	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal N8 Pro	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	A8 Pro	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	N8 Pro	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal A8 Cine	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal N8 Cine	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal A8 GO	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal N8 GO	Identical	Identical	Identical	Identical	Identical	Identical	Identical

2.4 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, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	5.56	3.56	6.97	4.98	3060.00	0.0016	Pass
@BT	20	5.55	3.56	6.96	4.97	3060.00	0.0016	Pass
@2.4G Wi-Fi	20	15.5	3.95	17.3	53.70	3060.00	0.0176	Pass
@5G Wi-Fi	20	13.9	3.57	15.32	34.04	3060.00	0.0111	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP=EIRP-2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32S80521301, EED32S80521302, EED32S80521303, EED32S80521304 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi+5G Wi-Fi)=0.0016+0.0176+0.0111 =0.0303 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***