

RF Exposure Evaluation Report

Product : Projector
Trade mark : N/A
Model: : Gimbal N4
Additional Model : Gimbal A4, A4, N4, Gimbal A4 Pro, Gimbal N4 Pro, A4 Pro, N4 Pro, Gimbal A4 Cine, Gimbal N4 Cine, Gimbal A4 GO, Gimbal N4 GO
Serial Number : N/A
Report Number : EED32S819257
FCC ID : 2BDRG-GIMBALN4
Date of Issue : October 8, 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:

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

Prepared by:

Centre Testing International Group Co., Ltd.
Building C, Hongwei Industrial Park Block 70, Bao'an District,
Shenzhen, China

TEL: +86-755-3368 3668**FAX: +86-755-3368 3385**

Compiled by:

Frazer Li

Frazer Li

Approved by:

Aaron Ma

Aaron Ma

Reviewed by:

Tom Chen

Tom Chen

Date:

October 8, 2026

Check No.: 1355110826

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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:	Gimbal N4
Additional Model	Gimbal A4, A4, N4, Gimbal A4 Pro, Gimbal N4 Pro, A4 Pro, N4 Pro, Gimbal A4 Cine, Gimbal N4 Cine, Gimbal A4 GO, Gimbal N4 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 below. Based on the differences among the models, the test model was selected as Gimbal N4, 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.

Category	Model	Appearance	Current	Voltage	Power	Internal structure	Electrical principles	PCB and Layout
Test Model	Gimbal N4	Identical	Identical	Identical	Identical	Identical	Identical	Identical
Series Models	Gimbal A4	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	A4	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	N4	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal A4 Pro	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal N4 Pro	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	A4 Pro	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	N4 Pro	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal A4 Cine	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal N4 Cine	Identical	Identical	Identical	Identical	Identical	Identical	Identical
	Gimbal	Identical	Identical	Identical	Identical	Identical	Identical	Identical

	A4 GO							
	Gimbal N4 GO	Identical	Identical	Identical	Identical	Identical	Identical	Identical
Trade Mark:			N/A					
Product Type:			☒ Mobile ☐ Portable ☐ Fix Location					

2.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz 2.4G Wi-Fi: 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 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): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Test Power Grade:	Default
Test Software of EUT:	adb.exe
Antenna Type:	FPC Antenna
Antenna Gain:	BLE: 3.98 dBi 2.4G Wi-Fi: 2.47dBi 5G Wi-Fi: 4.04 dBi
Power Supply:	100VAC-240VAC, 50/60Hz, 1.5A
Sample Received Date:	Sep. 05, 2026
Sample tested Date:	Sep. 05, 2026 to Sep. 14, 2026

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:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	2.98	3.98	4.81	3.03	3060.00	0.0010	Pass
@2.4G Wi-Fi	20	16.59	2.47	16.91	49.09	3060.00	0.0160	Pass
@5G Wi-Fi	20	11.81	4.04	13.70	23.44	3060.00	0.0077	Pass

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;
- ⑤The estimation distance is 20cm;
- ⑥The test data please refer to the report of EED32S819254, EED32S819255, EED32S819256 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)=0.0010+0.0160+0.0077=0.0247 < 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 ***