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FCC ID: 2BEDO-T-IR

RF Exposure Evaluation

For

Chengdu Jingpin Night Vision Optoelectronics Technology Co., Ltd.

Thermal Imaging Scope

Test Model: T-IR

Prepared for : Chengdu Jingpin Night Vision Optoelectronics Technology Co., Ltd.

Address : 9th Floor, No. 1480, North Section of Tianfu Avenue, High-tech Zone,

Chengdu, China (Sichuan) Pilot Free Trade Zone, Chengdu China

Report No.: LCSA11184061EB

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

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Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : March 12, 2025

Number of tested samples : 2

Sample No. : A250312059-1, A250312059-2

Serial number : Prototype

Date of Test : March 12, 2025 ~ March 27, 2025

Date of Report : March 28, 2025



Shenzhen LCS Compliance Testing Laboratory Ltd.



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RF Exposure Evaluation

Report Reference No.: LCSA11184061EB

Date of Issue.....: March 28, 2025

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address.....: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

Testing Location/ Procedure: Full application of Harmonised standards

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: Chengdu Jingpin Night Vision Optoelectronics Technology Co.,

Ltd.

Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone, Chengdu

China

Test Specification

Standard: FCC KDB publication 447498 D01 General RF Exposure Guidance

v06

FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1093

Test Report Form No.: TRF-4-E-215 A0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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EUT Description.....: Thermal Imaging Scope

Shenzhen LCS Compliance Testing Laboratory Ltd.

Trade Mark....: N/A

Test Model : T-IR

Ratings.....: Input: DC 5V

18650 Li-ion Battery (x4)

Result: PASS

Compiled by:

Supervised by:

Approved by:

Report No.: LCSA11184061EB

Nadia Zhon

Nadia Zhou/ Administrator

Jack Liu/ Technique principal

Gavin Liang/ Manager





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Date of issue

: Thermal Imaging Scope Test Model..... **Chengdu Jingpin Night Vision Optoelectronics Technology** Applicant..... Co., Ltd. : 9th Floor, No. 1480, North Section of Tianfu Avenue, High-tech Address..... Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone, Chengdu China Telephone..... : / Fax..... **Chengdu Jingpin Night Vision Optoelectronics Technology** Manufacturer..... Co., Ltd. : 9th Floor, No. 1480, North Section of Tianfu Avenue, High-tech Address..... Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone, Chengdu China Telephone..... Fax..... **Chengdu Jingpin Night Vision Optoelectronics Technology** Factory..... Co.. Ltd. : 9th Floor, No. 1480, North Section of Tianfu Avenue, High-tech Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone, Chengdu China Telephone..... Fax.....

Test Result PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

			*V-//// U.S.		
Report Version	Issue Date	Revision Content	Revised By		
000	March 28, 2025	Initial Issue	1194 100		

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Report No.: LCSA11184061EB

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上 立语检测股份

IST 立语检测度份 LCSTesting Lab

LCS Testing Lab

上CS Testing Lab

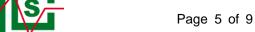


工资 拉诺检测股份

上CS Testing Lab







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1. Product Information

Product name	北哥	Thermal Imaging Scope
Test Model	LCS	T-IR
Ratings	:	Input: DC 5V
		18650 Li-ion Battery (x4)
Hardware Version	:	/
Software Version	:	/
WIFI(2.4G Band)		
Frequency Range	:	2412MHz~2462MHz
Channel Spacing	:	5MHz
Channel Number	:	11 Channels for 20MHz bandwidth (2412~2462MHz)
Till Ing Lab		7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)
		IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
		IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Internal Antenna, 3.0dBi(Max.)
Exposure category	:	General population/uncontrolled environment
EUT Type	:	Production Unit
Device Type	:	Portable Device

Note: For a more detailed antenna description, please refer to the antenna specifications or the ant enna report provided by the customer.













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2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

a)The [\sum of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [\sum of MPE ratios] is \leq 1.0.

b) The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all \leq 0.04, and the [\sum of MPE ratios] is \leq 1.0.

3. Refer Evaluation Method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

<u>FCC KDB publication 447498 D01 General RF Exposure Guidance v06:</u> Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices



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4. Conducted Power Results

cted Power Results			
	LCS Testing Lab	2.4G WIFI]	
Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
	1	2412	8.89
11B	6	2437	8.31
	11	2462	8.04
	1	2412	7.04
11G	6	2437	6.37
(A) 到 [[[] []	11	2462	6.4
Tining Lab	1	2412	6.78
11N20 SISO	6	2437	5.92
	11	2462	6.02
	3	2422	6.27
11N40 SISO	6	2437	5.13
	9	2452	5.92

5. Manufacturing Tolerance

cturing Tolerance			
	Tilliang Lab [2.4	iG WIFI]	
	11B	(Peak)	
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	8.0	8.0
Tolerance ±(dB)	1.0	1.0	1.0
	11G	(Peak)	
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	7.0	6.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0
	11N2	20(Peak)	
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	6.0	5.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0
	11N ²	10(Peak)	
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	6.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0



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6. Evaluation Results

6.1 Standalone Evaluation

[2.4G WIFI]

Band/Mode F	Frequency	Antenna Distance	RF o	utput power	SAR Test	SAR Test Exclusion
Danu/Mode	(GHz)	(mm)	dBm	mW	Exclusion Threshold	
IEEE 802.11b	2.462	5	9.0	7.9433	2.4927< 3.0	Yes
IEEE 802.11g	2.412	5	8.0	6.3096	1.9598< 3.0	Yes
IEEE 802.11n HT20	2.462	5	7.0	5.0119	1.5728< 3.0	Yes
IEEE 802.11n HT40	2.422	5	7.0	5.0119	1.5600< 3.0	Yes

Remark:

- 1. Output power including tune up tolerance;
- 2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

6.2 Simultaneous Transmission for SAR Exclusion

The sample support one WiFi modular. No need consider simultaneous transmission.

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

8. Description of Test Facility

NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

9. Measurement Uncertainty

leasurement Uncertainty					
Ī	Test Item		Frequency Range	Uncertainty	Note
	Output power	:	1GHz-40GHz	±0.57dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

THE END	OF REPORT

