RED-Health Test Report

Report No.	:	**1812C40196912503H**
Applicant	:	**Zhejiang Lingzhu Technology Co., Ltd.**
Address	:	**Room 302,No 1 Building Huace Center,Xihu District, Hangzhou City, Zhejiang Province,China**
Product Name	:	**Smart Camera**
Report Date	:	**Apr. 28, 2025**

Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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TEST REPORT

Applicant	:	Zhejiang Lingzhu Technology Co., Ltd.
Manufacturer	:	Zhejiang Lingzhu Technology Co., Ltd.
Product Name	:	Smart Camera
Model No.	:	SC319-WBR8, SC319-WBR8A, SC319-WBR8B, SC319-WBR8C, SC319-WBR8D, SC319-WBR8E, SC319-WBR8F, SC319-WBR8G
Trade Mark	:	N/A
Rating(s)	:	Input: 5V⎓2A
Test Standard(s)	:	**EN IEC 62311: 2020**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN IEC 62311 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Dec. 26, 2024

Date of Test Dec. 26, 2024 to Apr. 15, 2025

Prepared By

(Lene Chen)

Approved & Authorized Signer

(Kingkong Jin)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Apr. 28, 2025

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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1. General Information

1.1. Client Information

Applicant	:	Zhejiang Lingzhu Technology Co., Ltd.
Address	:	Room 302,No 1 Building Huace Center,Xihu District, Hangzhou City, Zhejiang Province,China
Manufacturer	:	Zhejiang Lingzhu Technology Co., Ltd.
Address	:	Room 302,No 1 Building Huace Center,Xihu District, Hangzhou City, Zhejiang Province,China
Factory	:	Shenzhen Interthings Technology Co., Ltd.
Address	:	701, Building 1, Lechuanghui Building, No.1211 Guanguang Road, Longhua District, Shenzhen,China

1.2. Description of Device (EUT)

Product Name	:	Smart Camera			
Model No.	:	SC319-WBR8, SC319-WBR8A, SC319-WBR8B, SC319-WBR8C, SC319-WBR8D, SC319-WBR8E, SC319-WBR8F, SC319-WBR8G (Note: All samples are the same except the model number, so we prepare "SC319-WBR8" for test only.)			
Trade Mark	:	N/A			
Test Power Supply	:	DC 5V from adapter input AC 230V/50Hz			
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)			
Adapter	:	Model: BS10A-0502000EU Input: 100-240V~50/60Hz 0.35A Max. Output: 5.0V⎓2.0A 10.0W			
WiFi					
Operation Band	:	☒ 2.4GHz band	☒ 5GHz band		
Operation Mode	:	☒ a	☒ b	☒ g	☒ n(HT20)
		☒ n(HT40)	☒ ac(VHT20)	☒ ac(VHT40)	☐ ac(VHT80)
		☐ ac(VHT160)	☒ ax(HEW20)	☒ ax(HEW40)	☐ ax(HEW80)
		☐ ax(HEW160)			
Modulation Type	:	☒ 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) ☒ 802.11b: DSSS (CCK, DQPSK, DBPSK) ☒ 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) ☒ 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) ☒ 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) ☒ 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			
Bluetooth					
Operation Mode	:	☐ BT BDR	☐ BT EDR	☒ BLE 1M	☒ BLE 2M
Modulation Type	:	☒ GFSK	☐ π/4-DQPSK	☐ 8-DPSK	
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.					

1.3. Auxiliary Equipment Used during Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132
Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A
Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location
Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.5. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. General Product Information

2.1 Basic Restriction

The essential requirements of Directive 99/519/EC in the article 3.1(a) and the limits must be taken from Council Recommendation 99/519/EC for General Population or from the ICNIRP Guidelines for Occupational Exposure. EN 50371:2002 Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields. The average power of EUT is less than 20mW then comply with basic restriction (1999/519/EC) without test.

2.2 Table for Filed Antenna

Specification	Antenna Type	Gain (dBi)
BLE	FPC Antenna	2.24
WiFi 2.4G	FPC Antenna	2.24
WiFi 5.2G	FPC Antenna	1.42
WiFi 5.3G	FPC Antenna	1.42
WiFi 5.8G	FPC Antenna	1.51

3. Test Result

3.1 Limit

Council Recommendation 99/519/EC Annex III
Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m^2)
0-1Hz	-	$3,2\times10^4$	4×10^4	-
1-8Hz	1000	$3,2\times10^4/f^2$	$4\times10^4/f^2$	-
8-25Hz	1000	4000/f	5000/f	-
0.025Hz-0,8kHz	250/f	4/f	5/f	-
0,8-3kHz	250/f	5	6,25	-
3-150kHz	87	5	6,25	-
0,15-1MHz	87	0.73/f	0,92/f	-
1-10MHz	$87/f^{1/2}$	0.73/f	0,92/f	-
10-400MHz	28	0.073	0,092	2
400-2000MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046f^{1/2}$	f/200
2-300GHz	61	0,16	0,20	10

Note:
(1)“f” as indicated in the frequency range column.
(2)For frequencies between 100kHz and 10GHz, S_{eq}, E^2, H^2 and B^2 are to be averaged over any six-minute period.
(3)For frequencies exceeding 10GHz, S_{eq}, E^2, H^2 and B^2 are to be averaged over any $68/f^{1.05}$-minute period (f in GHz).
(4)No E-field value is provided for frequencies <1Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25kV/m. Spark discharges causing stress or annoyance should be avoided.

3.2 Detailed results

3.2.1 MPE Evaluation

S =PG* Duty factor / 4πR²
P = Peak Power Input to antenna (Watts)
G =Antenna Gain (numeric)
R = distance to the center of radiation of antenna (in meter) = 0.20 m
Note:
1) P (Watts)=(10 ^ (dBm /10))/1000
2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)
3) Duty factor=1
4) π=3.142

The maximum power density at a distance of 0.2 m for EUT is shown as below:

Test Mode	Antenna Gain(dBi)	EIRP (dBm)	Peak Output Power (W)	Duty factor	Calculated RF Exposure (W/ m²)	Limit (W/ m²)
BLE	2.24	8.66	0.0073	1.000	0.0146	10
WiFi 2.4G	2.24	15.66	0.0368	1.000	0.0732	10
WiFi 5.2G	1.42	13.21	0.0209	1.000	0.0417	10
WiFi 5.3G	1.42	12.64	0.0184	1.000	0.0365	10
WiFi 5.8G	1.51	11.61	0.0145	1.000	0.0288	10

---------- End of Report ----------