DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

Test report No:
2570646R.703B

FCC Exposure TEST REPORT

Product Name	Smart Camera
Trademark	N/A
Model and /or type reference	SC155-WG3C, SC256-WG5
FCC ID	2BEWXSC256WG
Applicant´s name / address	Zhejiang Lingzhu Technology Co., Ltd. Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province,China
Test method requested, standard	FCC 47CFR §2.1091
Verdict Summary	IN COMPLIANCE
Documented By (name / position & signature)	Tim Cao / Project Manager 
Approved by (name / position & signature)	Frank He / Technical Manager 
Date of issue	2025-08-31
Report Version	V1.0
Report template No	Template_FCC-MPE-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Jul. 22, 2025
Date (start test)	Jul. 25, 2025
Date (finish test)	Aug.10, 2025

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test
QP : Quasi-Peak
CAV : CISPR Average
AV : Average
CDN : Coupling Decoupling Network
SAC : Semi-Anechoic Chamber
OATS : Open Area Test Site
BW : Bandwidth
AM : Amplitude Modulation
PM : Pulse Modulation
HCP : Horizontal Coupling Plane
VCP : Vertical Coupling Plane
U_N : Nominal voltage
*T*x : Transmitter
*R*x : Receiver
N/A : Not Applicable
N/M : Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2570646R.703B	V1.0	Initial issue of report.	2025-08-31

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with FCC 47CFR §2.1091.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results relate only to the samples tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:

- Chapter 1 General Information

1 General Description of the Item(s)

Product Name..... :	Smart Camera					
Model No. ..... :	SC155-WG3C, SC256-WG5					
Model difference ..... :	The differences between SC155-WG3C & SC256-WG5 are identical except the main control, sensor, main board ,lens and software version, others are all same.					
Trademark ..... :	N/A					
Operating temperature..... :	-20~50 ℃					
Manufacturer ..... :	Zhejiang Lingzhu Technology Co., Ltd.					
Manufacturer address ..... :	Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province,China					
Power Supply ..... :	5Vdc 1.5A Max.(type C) 3.7Vdc (lithium-ion battery)					
Test SN ..... :	JRPGF06FN00001					
Wireless specification ..... :	Bluetooth (LE)					
Operating frequency range(s)	2400-2483.5MHz					
Type of Modulation ..... :	GFSK					
PHYs	☒	LE 1M	☒	LE 2M	☐	LE Coded S=2/8
Data Rate ..... :	☒	1Mbit/s	☒	2Mbit/s	☐	500/125 Kbit/s
Number of channels..... :	40					
Antenna Type ..... :	Dipole					
Antenna Gain..... :	0.49 dBi					
Wireless specification ..... :	802.11b/g/n					
Operating frequency range(s)	2400-2483.5MHz					
Type of Modulation ..... :	802.11b:DSSS-DBPSK,DQPSK,CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM					
Antenna Type ..... :	Dipole					
Antenna Gain..... :	0.49 dBi					

Remark:

As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)
LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula
Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where
Pd = power density in mW/cm2
Pout = output power to antenna in mW
G = gain of antenna in linear scale
Pi = 3.1416
R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.2. Test Procedure

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

The temperature and related humidity: 18℃and 78% RH.

2.3. Test Result of RF Exposure Evaluation

Power Density：

Standalone modes:

Test Mode	Frequency Band (MHz)	Maximum EIRP (dBm)	Power Density at R = 20 cm (W/m^2)	Power Density Limit (W/m^2)
2.4G WIFI	2400 ~ 2483.5	18.32	0.135	10
Bluetooth	2400 ~ 2483.5	7.37	0.011	10

Simultaneous transmission:BT +2.4G WIFI

Wireless Configure	Frequency Range (MHz)	Maximum EIRP (dBm)	Limit of Power Density S(mW/cm^2)	Power Density S at R = 20cm (mW/cm^2)	Rate	Limit
2.4G WIFI	2400 ~ 2483.5	18.32	1	0.014	0.015	1
Bluetooth	2400 ~ 2483.5	7.37	1	0.001		

Note：Maximum EIRP reference test reports: 2570646R.701B, 2570646R.702B.The safe use distance of the EUT is 20cm, Access Point without any other radio equipment.

The End