

RF Exposure Evaluation Report

APPLICANT : Zhejiang Lingzhu Technology Co., Ltd.

EQUIPMENT : Smart Camera

MODEL NAME : SC256-WBQ2,SC256-WBxyz (“x” can be A-Z for different housing; “y” can be 1-9 for different resolution; “z” can be A-Z or blank for different sensors or lens or batteries)

FCC ID : 2BEWXSC256WB

STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

The product was received on Jul. 20, 2026. The product evaluation date was started from Aug. 25, 2026 and completed on Aug. 25, 2026. We, Sporton International Inc. (Kunshan), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.



Approved by: Si Zhang

Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA672002-R01	Rev. 01	Initial issue of report.	Sep. 02, 2026



1. Administration Data

1.1. Testing Laboratory

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-KS	CN1257	314309

Applicant	
Company Name	Zhejiang Lingzhu Technology Co., Ltd.
Address	Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China
Contact Name	Billy Li
TEL	+86 153 5548 7379

Manufacturer	
Company Name	Zhejiang Lingzhu Technology Co., Ltd.
Address	Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China



2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Smart Camera
Model Name	SC256-WBQ2, SC256-WBxyz ("x" can be A-Z for different housing; "y" can be 1-9 for different resolution; "z" can be A-Z or blank for different sensors or lens or batteries)
FCC ID	2BEWXSC256WB
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	WLAN 2.4GHz 802.11b/g WLAN 2.4GHz 802.11n/ax HT20/HT40/HE20/HE40 WLAN 5GHz 802.11a WLAN 5GHz 802.11n/ac/ax HT20/HT40/VHT20/VHT40/HE20/HE40 Bluetooth LE
Antenna Gain	WLAN 2.4GHz: 0.16 dBi WLAN 5.2GHz: -0.13 dBi WLAN 5.3GHz: 0.38 dBi WLAN 5.5GHz: 0.22 dBi WLAN 5.8GHz: -0.24 dBi Bluetooth: 0.16 dBi
Antenna Type	Dipole Antenna
EUT Stage	Production Unit
Remark: 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description. 2. For the differences models, please refer to the Product Equality Declaration which is submitted separately, and the differences do not affect the MPE analysis results.	
Comments and Explanations: 1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. 2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer. 3. The applicant is solely responsible for the accuracy and correctness of all applicant-provided information, specifications, and data in this report.	

Reviewed by: Martin Lin



3. Maximum RF average output tune up power among production units

<2.4GHz WLAN >

Mode		Maximum Average Power (dBm)
2.4GHz	802.11b	13.00
	802.11g	18.00
	802.11n-HT20	18.00
	802.11n-HT40	16.00
	802.11ax-HE20	18.00
	802.11ax-HE40	16.00

<Bluetooth>

Mode		Maximum Average power(dBm)
Bluetooth	LE	5.00

<WLAN 5GHz>

Mode		Maximum Average Power (dBm)
WLAN 5.2GHz	802.11a	15.00
	802.11n-HT20	15.00
	802.11n-HT40	15.00
	802.11ac-VHT20	15.00
	802.11ac-VHT40	15.00
	802.11ax-HE20	15.00
	802.11ax-HE40	15.00
WLAN 5.3GHz	802.11a	15.00
	802.11n-HT20	14.50
	802.11n-HT40	14.50
	802.11ac-VHT20	14.50
	802.11ac-VHT40	14.50
	802.11ax-HE20	14.50
	802.11ax-HE40	14.50
WLAN 5.5GHz	802.11a	18.00
	802.11n-HT20	18.00
	802.11n-HT40	18.00
	802.11ac-VHT20	18.00
	802.11ac-VHT40	18.00
	802.11ax-HE20	18.00
	802.11ax-HE40	18.00
WLAN 5.8GHz	802.11a	18.00
	802.11n-HT20	18.00
	802.11n-HT40	18.00
	802.11ac-VHT20	18.00
	802.11ac-VHT40	18.00
	802.11ax-HE20	18.00
	802.11ax-HE40	18.00

4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
2.4GHz WLAN	2412.0	0.16	18.00	18.160	0.065	65.464	0.013	1.000
5.2GHz WLAN	5180.0	-0.13	15.00	14.870	0.031	30.690	0.006	1.000
5.3GHz WLAN	5260.0	0.38	14.50	14.880	0.031	30.761	0.006	1.000
5.5GHz WLAN	5500.0	0.22	18.00	18.220	0.066	66.374	0.013	1.000
5.8GHz WLAN	5745.0	-0.24	18.00	17.760	0.060	59.704	0.012	1.000
Bluetooth	2402.0	0.16	5.00	5.160	0.003	3.281	0.001	1.000

Note:

1. For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power to do MPE analysis.
3. According to the EUT characteristic, WLAN 2.4GHz and WLAN 5GHz cannot transmit simultaneously.
4. According to the EUT characteristic, Bluetooth and WLAN (2.4GHz or 5GHz) cannot transmit simultaneously.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

-----THE END-----