

TEST REPORT

Product Name : Wi-Fi IP Camera
Model Number : LB5, LB4, LB3, LS5, O5P, O5S, A07W
FCC ID : ZDELB5

Prepared for : ShenZhen Foscam Intelligent Technology Co., Ltd.
Address : Room 902, Building 1B, Shenzhen International
Innovation Valley, Xingke 1st Street, Nanshan District,
Shenzhen, Guangdong, China, 518055.

Prepared by : EMTEK (SHENZHEN) CO., LTD.
Address : Building 69, Majialong Industry Zone, Nanshan District,
Shenzhen, Guangdong, China

TEL: (0755) 26954280
FAX: (0755) 26954282

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1. TEST RESULT CERTIFICATION

Applicant : ShenZhen Foscam Intelligent Technology Co., Ltd.
Address : Room 902,Building 1B, Shenzhen International innovationValley, Xingke1st Street, Nanshan District, Shenzhen,Guangdong, China, 518055.
Manufacturer : ShenZhen Foscam Intelligent Technology Co., Ltd.
Address : Room 902,Building 1B, Shenzhen International innovationValley, Xingke1st Street, Nanshan District, Shenzhen,Guangdong, China, 518055.
Factory : ShenZhen Foscam Intelligent Technology Co., Ltd.
Address : 701, 7th Floor, Building D, Guangming Port Intelligent ManufacturingInnovation Park, No.8 Jinjun Road, Huangjiang Town, Dongguan,Guangdong, China, 523769
EUT : Wi-Fi IP Camera
Model Name : LB5, LB4, LB3, LS5, O5P, O5S, A07W
Trademark : FOSCAM
Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : September 11, 2025 to December 30, 2025

Prepared by :

Yu Xiaolan

Yu Xiaolan /Editor

Reviewer :

Xia Lili

Xia Lili/Supervisor

Wang Li

Approve & Authorized Signer :

Wang Li/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2509110043W00502R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Wi-Fi IP Camera
Model Number:	LB5, LB4, LB3, LS5, O5P, O5S, A07W (Note: The Model: LB5 is the same as the Model: LB4, LB3, LS5, O5P, O5S and A07W in hardware aspect. The difference in model number serves as marketing strategy.)
Sample:	1#
Data Rate:	2.4G WIFI: 802.11b 802.11g 802.11n(20MHz channel bandwidth)
Modulation:	2.4G WIFI: DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Operating Frequency Range(s) :	2412-2462MHz for 2.4G WIFI
Number of Channels:	11 channels for 2.4G WIFI
Transmit Power Max:	18.23 dBm(0.066527 W) for WiFi 2.4G;
Antenna Gain:	4.87 dBi
Power supply:	AC 100-240V 50/60Hz
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement

RF EXPOSURE EVALUATION

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/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R = distance between observation point and center of the radiator in cm

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

4. Measurement Result

gain:	4.87	FCC MPE						
Frequency (MHz)	Output Power(dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Verdict
802.11b	2402	17.72	22.59	22±1	23	0.121823	1	PASS
	2441	18.23	23.1	23±1	24	0.153366	1	PASS
	2480	16.96	21.83	21±1	22	0.096767	1	PASS
802.11g	2402	16.3	21.17	21±1	22	0.096767	1	PASS
	2441	16.5	21.37	21±1	22	0.096767	1	PASS
	2480	15.24	20.11	20±1	21	0.076865	1	PASS
802.11n(20MHz channel bandwidth)	2402	16.39	21.26	21±1	22	0.096767	1	PASS
	2441	16.47	21.34	21±1	22	0.096767	1	PASS
	2480	15.17	20.04	20±1	21	0.076865	1	PASS

According to KDB 447498, no stand-alone required for 2.4G WiFi antenna, and no simultaneous SAR measurement

*** End of Report ***