

TEST REPORT

Product Name : Wireless IP Camera
Model Number : D8T, D8A, D8H, D8I
FCC ID : ZDED8T

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1. TEST RESULT CERTIFICATION

Applicant : ShenZhen Foscam Intelligent Technology Co., Ltd.

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EUT : Wireless IP Camera

Model Name : D8T, D8A, D8H, D8I

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 : November 10, 2025 to January 12, 2026

Prepared by :

Yu Xiaolan

Yu Xiaolan /Editor

Reviewer :

Xia Lilu

Xia Lilu/Supervisor

Wang Li

Approve & Authorized Signer :

Wang Li/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2511100273W01003R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Wireless IP Camera
Model Number:	D8T, D8A, D8H, D8I (Note: The Model: D8T is the same as the Model:D8A, D8H, D8I in hardware aspect. The difference in model number serves as marketing strategy.)
Sample:	1#
Data Rate:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ax;
Modulation:	DSSS, OFDM
Operating Frequency Range(s) :	2422-2452MHz for 802.11n(HT40)/ax(HE40); 2422-2452MHz for 802.11n(HT40)/ax(HE40); 5745-5825MHz for 802.11a/n(HT20)/ac(VHT20)/ax(HE20); 5755-5795MHz for 802.11n(HT40)/ac(VHT40)/ax(HE40);
Transmit Power Max:	UNII-3 Band: 13.27 dBm(0.021232 W) 2.4G: 13.69 dBm(0.023388 W)
Antenna Gain:	2.03 dBi for 2.4G WIFI 2.71 dBi for 5G WIFI
Power supply:	DC 12V 2A from Adapter
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
EMC Lab.	: Accredited by CNAS The Certificate Registration Number is L2291. The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017) Accredited by FCC Designation Number: CN1204 Test Firm Registration Number: 882943 Accredited by A2LA The Certificate Number is 4321.01. Accredited by Industry Canada The Conformity Assessment Body Identifier is CN0008
Name of Firm	: EMTEK (SHENZHEN) CO., LTD.
Site Location	: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

3. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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 ≤ 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 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

gain:	2.03 dBi	WIFI 2.4G FCC MPE							
Mode	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	2412	15.26	17.29	17±1	18	63.10	0.019940	1	PASS
	2437	14.49	16.52	16±1	17	50.12	0.015839	1	PASS
	2462	12.83	14.86	14±1	15	31.62	0.009994	1	PASS
802.11g	2412	13.36	15.39	15±1	16	39.81	0.012581	1	PASS
	2437	13.82	15.85	15±1	16	39.81	0.012581	1	PASS
	2462	12.31	14.34	14±1	15	31.62	0.009994	1	PASS
802.11n(HT20)	2412	13.33	15.36	15±1	16	39.81	0.012581	1	PASS
	2437	13.22	15.25	15±1	16	39.81	0.012581	1	PASS
	2462	12.01	14.04	14±1	15	31.62	0.009994	1	PASS
802.11n(HT40)	2422	14.29	16.32	16±1	17	50.12	0.015839	1	PASS
	2437	14.79	16.82	16±1	17	50.12	0.015839	1	PASS
	2452	14.01	16.04	16±1	17	50.12	0.015839	1	PASS
802.11ax(HE20)	2412	12.9	14.93	14±1	15	31.62	0.009994	1	PASS
	2437	13.05	15.08	15±1	16	39.81	0.012581	1	PASS
	2462	11.85	13.88	13±1	14	25.12	0.007938	1	PASS
802.11ax(HE40)	2422	14.03	16.06	16±1	17	50.12	0.015839	1	PASS
	2437	14.6	16.63	16±1	17	50.12	0.015839	1	PASS
	2452	13.71	15.74	15±1	16	39.81	0.012581	1	PASS

gain:	UNII-3 Band: 2.71 dBi	FCC MPE							
Mode	Frequency (MHz)	Output Power (dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power(d Bm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Verdict
802.11a	5745	9.97	12.68	12±1	13	19.95	0.007410	1	Pass
	5785	8.77	11.48	11±1	12	15.85	0.005886	1	Pass
	5825	9.71	12.42	12±1	13	19.95	0.007410	1	Pass
802.11n(HT 20)	5745	9.85	12.56	12±1	13	19.95	0.007410	1	Pass
	5785	8.39	11.10	11±1	12	15.85	0.005886	1	Pass
	5825	9.32	12.03	12±1	13	19.95	0.007410	1	Pass
802.11n(HT 40)	5795	9	11.71	11±1	12	15.85	0.005886	1	Pass
	5775	8.63	11.34	11±1	12	15.85	0.005886	1	Pass
802.11ac(V HT20)	5745	9.79	12.50	12±1	13	19.95	0.007410	1	Pass
	5785	8.46	11.17	11±1	12	15.85	0.005886	1	Pass
	5825	9.41	12.12	12±1	13	19.95	0.007410	1	Pass
802.11ac(V HT40)	5795	8.9	11.61	11±1	12	15.85	0.005886	1	Pass
	5775	8.5	11.21	11±1	12	15.85	0.005886	1	Pass
802.11ax(H E20)	5745	9.6	12.31	12±1	13	19.95	0.007410	1	Pass
	5785	8.4	11.11	11±1	12	15.85	0.005886	1	Pass
	5825	9.16	11.87	11±1	12	15.85	0.005886	1	Pass
802.11ax(H E40)	5795	8.88	11.59	11±1	12	15.85	0.005886	1	Pass
	5775	8.49	11.20	11±1	12	15.85	0.005886	1	Pass

Simultaneous launch

MAX Power Density at R=20cm (mW/cm²)

Wireless specification	2.4G WIFI	5GWIFI		
MAX Power Density at R=20cm (mW/cm ²)	0.019940	0.007410		
business accounting	0.02735	Limit (mW/cm ²)	1	
Verdict	Pass			

According to KDB 447498, no stand-alone required for WIFI antenna, and no simultaneous SAR measurement is required.

*** End of Report ***