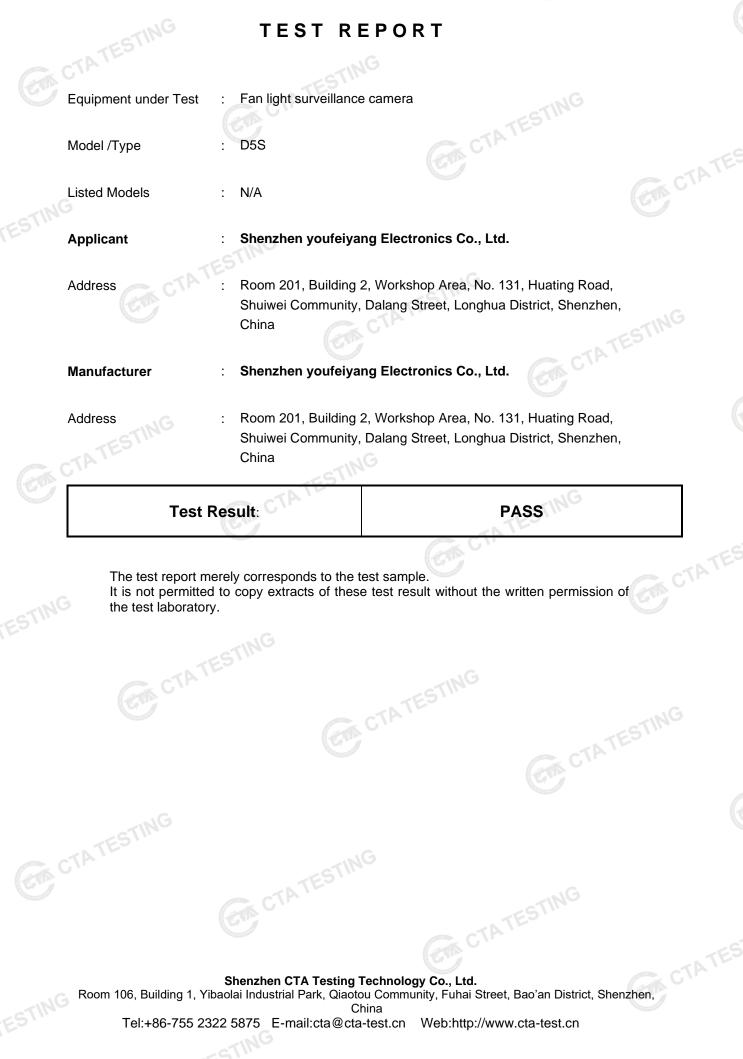


Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fur Street, Bao'an District, Shenzhen, China

	RF Exposure MPE
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FESTING	47CFR §1.1310
Standard:	47CFR §2.1091
	KDB447498 D01 General RF Exposure Guidance v06
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Report No.: CTA25030500102

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		GT CTP
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1 TEST STANDARDS

GTA CTATESTING

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures. FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits. FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

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STING

SUMMARY 2

2.1 **General Remarks**

2 <u>SUMIMART</u>			
2.1 General Remarks		ATESI	
Date of receipt of test sample	<u>.</u>	Mar. 03, 2025	
Testing commenced on	:	Mar. 03, 2025	G
Testing concluded on	:	Mar. 10, 2025	Constant of the second

Product Name:	Fan light surveillance camera]
Model/Type reference:	D5S	
Power supply:	AC 120V, 60Hz	1
testing sample ID:	CTA250305001-1# (Engineer sample), CTA250305001-2#(Normal sample)	STIN
Hardware version:	V1.0]
Software version:	V1.0	1
WIFI :		
Supported type:	802.11b/802.11g/802.11n(H20)	1
Modulation:	802.11b: DSSS 802.11g/802.11n(H20): OFDM	1
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz]
Channel number:	802.11b/802.11g/802.11n(H20): 11	1
Channel separation:	5MHz	6 114
Antenna type:	PCB antenna	
Antenna gain:	0.92 dBi	D USU DU

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by	TI
/	/	/	1	1	CTAIL	

Modifications 2.4

No modifications were implemented to meet testing criteria. CTATES

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3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: **FCC-Registration No.: 517856 Designation Number: CN1318**

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB 💟	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)
Gra C .	(F	CTATEST	

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Test limit 4

4.1 Requirement

TATESTING Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
	Limits for Oco	cupational/Control	lled Exposure	
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 1842/f 61.4 / /	1.63 4.89/f 0.163 / /	(100) * (900/f ²)* 1.0 f/300 5	6 6 6 6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)					
	Limits for Occupational/Controlled Exposure								
$\begin{array}{r} 0.3 - 3.0 \\ 3.0 - 30 \\ 30 - 300 \\ 300 - 1500 \\ 1500 - \\ 100,000 \end{array}$	614 824/f 27.5 / /	1.63 2.19/f 0.073 /	(100) * (180/f ²)* 0.2 f/1500 1.0	30 30 30 30 30 30					
F=frequency in MHz *=Plane-wave equivalent power density									

4.2 MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4πR²

Where: S=power density P=power input to antenna CTA TESTING G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna

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China

4.3 Conducted Power Results CTATE

Туре	Channel	Output power PK (dBm)
G	1	14.02
802.11b	6	13.32
	11	14.23
	1	13.06
802.11g	6	12.71
a)G	11	12.97
ESTIN	1	13.05
802.11n(HT20)	6	12.46
	11	12.84

Manufacturing tolerance 4.4

	CIA C	11	12.84]	
4.4	Manufacturir	ng tolerance		CTA TES	
	Mode	Max. Peak Conducted Output Power (dBm)	Max. t	tune-up	
	2.4GWIFI	14.23	14.	0±1	

Standalone MPE Result 4.5

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

	Outp	ut power	Antenna	Antenna	MPE	MPE
Modulation Type	dBm	mW	Gain (dBi)	Gain (linear)	(mW/cm ²)	Limits (mW/cm ²)
2.4GWIFI	15.0	31.6228	0.92	1.2359	0.0078	1.0000
2.4GWIFI	15.0	31.6228	0.92	1.2359	0.0078	1.0000

Remark:

1. Output power (Peak) including turn-up tolerance;

2. MPE evaluate distance is 20cm from user manual provide by manufacturer. CTA TESTING

4.6 Simultaneous Transmission for MPE Result

N/A

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

> TATESTING ***** End of Report ******

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