

TEST REPORT

Product Name : Smart Wireless PT Camera
Brand Mark : AONI
Model No. : EP01J05
Extension Model : P-XY,B-XY,D-XY,953,95A,95E
FCC ID : Z63-SHM01
Report Number : BLA-EMC-202308-A7503
Date of Sample Receipt : 2023/9/7
Date of Test : 2023/9/7 to 2023/10/13
Date of Issue : 2023/11/22
Test Standard : KDB447498D04 General RF Exposure
Guidance v01
Test Result : Pass

Note:the first X represents 0-99, A-Z; The second Y represents 0-99, A-Z

Prepared for:

SHENZHEN AONI ELECTRONIC CO.,LTD.
**No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An
streets,Bao'an Distric**

Prepared by:

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Date:

2023/11/22



REPORT REVISE RECORD

Version No.	Date	Description
00	2023/11/22	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

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2 GENERAL INFORMATION

Applicant	SHENZHEN AONI ELECTRONIC CO.,LTD.
Address	No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'Anstreets, Bao'an District
Manufacturer	SHENZHEN AONI ELECTRONIC CO.,LTD.
Address	No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'Anstreets, Bao'an District
Factory	SHENZHEN AONI ELECTRONIC CO.,LTD.
Address	No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'Anstreets, Bao'an District
Product Name	Smart Wireless PT Camera
Test Model No.	EP01J05
Extension Model	P-XY,B-XY,D-XY,953,95A,95E
Remark	Appearance and color difference, the first X represents 0-99, A-Z; The second Y represents 0-99, A-Z

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	EP01J05-MAIN-V1.2
Software Version	V3.2.0.3585
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40):2422MHz to 2452MHz
Modulation Type:	2.4GWIFI:802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	2.4GWIF:5MHz
Number of Channels:	2.4GWIFI:802.11b/g/n(HT20):11 802.11n(HT40):7
Antenna Type:	FPC Antenna
Antenna Gain:	2.71dBi(Provided by the customer)

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 LIMITS

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

Ant gain = 2.71dBi

Max Output power =15.89dBm @11n40 2437MHz

ERP = 15.89dBm+2.71dBi-2.15=16.45dBm

So

worse case :

$10^{1.645} = 44.16\text{mW} < 3060\text{ mW}$

Comply with RF exposure exemption limit.

----END OF REPORT----

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