

TEST REPORT

Report No.:SHATBL2603037W04

Applicant : SHENZHEN AONI ELECTRONIC CO.,LTD

Product Name : Smart Outdoor Camera

Brand Name : N/A

Model Name : ED03501

Series model : ED03XYZ,EP01XYZ,EP05XYZ,EP06XYZ,E95AXYZ,
E96QXYZ,E938XYZ,EL02XYZ,EL05XYZ,ER05XYZ,
ER02XYZ,ER06XYZ,E933XYZ,E97AXYZ,E97PXYZ,
EL28XYZ,EC09XYZ

FCC ID : Z63-ED03501

Test Standard : 47 CFR Part 2.1091

Date of Sample Arrival : Mar.25, 2026

Date of Test : Mar.31, 2026~Apr.10, 2026

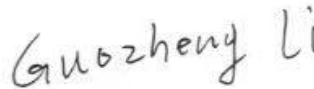
Date of Issue : Apr.10, 2026

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REVISION HISTORY

Rev.	Issue Date	Report No.	Effect Page	Contents
00	Apr.10, 2026	SHATBL2603037W04	ALL	Initial Release

DECLARATION OF REPORT

1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of 47 CFR Part 2.1091. And it is applicable only to the tested sample identified in the report.
2. This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.
3. The general information of EUT in this report is provided by the customer or manufacture, ATBL is only responsible for the test data but not for the information provided by the customer or manufacture.
4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.
5. In this report, '☐' indicates that EUT does not support content after '☐', and '☑' indicates that it supports content after '☑'

1. GENERAL DESCRIPTION

1.1. Applicant

Name : SHENZHEN AONI ELECTRONIC CO.,LTD
Address : No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An streets,
Bao'an District,ShenZhen,China

1.2. Manufacturer

Name : SHENZHEN AONI ELECTRONIC CO.,LTD
Address : No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road,Xin'An streets,
Bao'an District,ShenZhen,China

1.3. Factory

Name : Aoni Intelligent Technology (Zhongshan) Co., LTD
Address : Floor 4,Building 2, NO. 138, Lefeng South Road, Lianfeng, Xiaolan Town,
Zhongshan City, Guangdong Province

1.4. General Information of EUT

General Information	
Equipment Name	Smart Outdoor Camera
Test Model Name	ED03501
Series Model	ED03XYZ,EP01XYZ,EP05XYZ,EP06XYZ,E95AXYZ,E96QXYZ,E938XYZ,EL02XYZ,EL05XYZ,ER05XYZ,ER02XYZ,ER06XYZ,E933XYZ,E97AXYZ,E97PXYZ,EL28XYZ,EC09XYZ
Difference of Model	Appearance color, pixel count, and model naming differ; other details remain the same.
Sample No.	202603190015002
Power supply	DC 12.0V for Adapter
Adapter	Input:AC100-240V~50/60Hz 0.5A Max Output:DC 12.0V 1.0A 12.0W
Battery	N/A
Hardware Version	V1.1
Software Version	V1.0.1
Operation frequency	LE GFSK(1Mbps/2Mbps):2402MHz~2480MHz; 2.4GHz WIFI:2412MHz~2472MHz; 5GHz WIFI: 5150-5350MHz, 5470-5725MHz;5745MHz - 5825MHz
Modulation	BLE GFSK(1Mbps/2Mbps):GFSK
	WiFi 2.4GHz: 802.11b: DSSS (DBPSK/DQPSK/CCK) 802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: OFDMA (BPSK, BPSK_DCM, QPSK, QPSK_DCM, QAM16 QAM16_DCM, QAM64, QAM256, QAM1024)
	WiFi 5GHz: 802.11a/n(HT): OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: OFDMA (BPSK, BPSK_DCM, QPSK, QPSK_DCM, QAM16 QAM16_DCM, QAM64, QAM256, QAM1024)
Operation frequency	BR/EDR/BLE GFSK:2402MHz~2480MHz WiFi 2.4GHz:2400MHz - 2483.5MHz WiFi 5GHz:5180 ~ 5250MHz;5260 ~ 5320MHz;5500 ~ 5700MHz;5745 ~ 5825MHz;
Antenna type	PIFA Antenna
Antenna gain	LE GFSK(1Mbps/2Mbps):2.89dBi; 2.4GHz WIFI:2.89dBi; 5GHz WIFI:2.99dBi;
Connecting I/O Port(s)	Refer to the remark below.

Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.5. Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	5-6/F., Unit 1, No 8, Free Trade One Life Science No. 160, Basheng Road, Pudong New District, Shanghai, China
Telephone	:	+86(0)21-51298625
FCC-Registration Number	:	485917
Designation Number	:	CN1306
A2LA Number	:	6184.01
CNAS Number	:	CNAS L14531
ISED Designation Number	:	27371
CAB identifier	:	CN0116

2. FCC 47CFR §2.1091 Requirement

2.1. Test Standards

According to §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.

According to §1.1310 and §2.1091 RF exposure is calculated.

KDB447498 D01: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

2.2. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled 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				
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

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				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

F=frequency in MHz

*=Plane-wave equivalent power density

2.3. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

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

2.4. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
BLE	2.89	PIFA
WiFi 2.4GHz	2.89	PIFA
WiFi 5GHz	2.99	PIFA

2.5. Manufacturing Tolerance

Function	Max output Power (dBm)	turn-up tolerance ± (dB)
BLE	4.08	± 1.00
WiFi 2.4GHz	21.30	± 1.00
WiFi 5GHz	14.26	± 1.00

Note:The target power has included the maximum transmission power and tolerance values.

2.6. Test Result

As declared by the Applicant, the EUT is a wireless device used in a Mobile 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, $r=20\text{cm}$, as well as the gain of the used antenna is refer to section 4, the RF power density can be obtained.

Modulation Type	Max. Output power (turn-up)		Antenna Gain (dBi)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW			
BLE	5.08	3.2211	2.89	0.0012	1.0000
WiFi 2.4GHz	22.30	169.8244	2.89	0.066	1.0000
WiFi 5GHz	15.26	33.5738	2.99	0.013	1.0000

Note:

- 1.If nothing else, the report will only record the worst power.
- 2.The Maximum power is less than the limit, complies with the exemption requirements.
- 3.Output power including turn-up tolerance.
- 4.The calculated distance is 20 cm.

*****END OF THE REPORT*****