



No.:
FCCSZ2024-0010-H

TEST REPORT

FCC ID : **2BAC7-ARESSE**

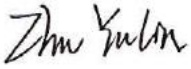
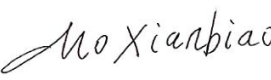

NAME OF SAMPLE : **Smart Home Camera**

APPLICANT : **QSEE TECHNOLOGY**

CLASSIFICATION OF TEST : **N/A**

CVC Testing Technology (Shenzhen) Co., Ltd.



Applicant		Name: QSEE TECHNOLOGY	
		Address: 17890 Castleton St, ste398, City of Industry CA91748	
Manufacturer		Name: Wanjiaan Interconnected Technology Co., Ltd	
		Address: 2-3F, Block 3, Jinrui Zhonghe High-Tech Industrial Zone, Huawang Rd, Dalang Street, Longhua District, Shenzhen City, Guangdong Province,P.R. China	
Equipment Under Test		Name: Smart Home Camera	
		Model/Type: Ares SE	
		Additional Model: Ares, Ares Pro, AresXY(X=A-Z, Y=V1-V9)	
		Brand: Qsee	
		Serial NO.: N/A	
		Sample NO.: 4-1	
Date of Receipt.	2024.02.29	Date of Testing	2024.03.01 ~ 2024.03.29
Test Specification		Test Result	
Evaluation of Test Result		The equipment under test was found to comply with the requirements of the standards applied.	
		Seal of CVC	
		Issue Date: 2024.03.29	
Tested by:		Reviewed by:	Approved by:
			
Zhu Yulin		Mo Xianbiao	
Name Signature		Name Signature	
			
		Dong Sanbi	
		Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2024-0010-H	Original release	2024.03.29



1. GENERAL PRODUCT INFORMATION

PRODUCT	Smart Home Camera
BRAND	Qsee
TEST MODEL	Ares SE
ADDITIONAL MODEL	Ares, Ares Pro, AresXY(X=A-Z, Y=V1-V9)
FCC ID	2BAC7-ARESSE
POWER SUPPLY	DC 5V from USB host unit
OPERATING FREQUENCY	2412MHz ~ 2462MHz for 2.4G WiFi 5180MHz ~ 5825MHz for 5G WiFi
PEAK OUTPUT POWER	19.15dBm for 2.4GWIFI 15.79dBm for 5GWIFI
ANTENNA TYPE AND GAIN (Remark 4/5)	FPC Antenna, with 1.32dBi gain for 2.4GWIFI FPC Antenna, with 3.66dBi gain for 5GWIFI
HARDWARE VERSION:	C07-Q5M01-MAIN-V1.3
SOFTWARE VERSION:	V1.00.19
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A
<p>Remark:</p> <ol style="list-style-type: none">For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.EUT photo refer to the report (Report NO.: FCCSZ2024-0010-EUT).Please refer to the antenna report.Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.	



2. RF EXPOSURE LIMIT

(Option B) According to FCC Part2.1091 and FCC Part1.1307b, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

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

Where:

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

and f is in GHz;

and

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

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to §1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency (MHz)	Threshold ERP (W)
0.3 - 1.34	$1920R^2$
1.34 - 30	$3450R^2 / f^2$
30 - 300	$3.38R^2$
300 - 1500	$0.0128R^2 / f^2$
1500 - 100000	$19.2R^2$



For multiple RF sources: Multiple RF sources are exempt if:

- a) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- b) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.



3. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

4. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
2.4G WiFi	1.32	FPC Antenna
5G WiFi	3.66	FPC Antenna

This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The measured Conducted Power

Option	Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
B	2.4G WiFi	2412 ~ 2462	19	+ -1	18	20
	5G WiFi	5180 ~ 5825	16	+ -1	15	17

The tuned Conducted Power (declared by client)

Option	Technology	Maximum tune up power (dBm)	Maximum Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Part1.1307b Threshold (mW)	Verify
B	2.4G WiFi	20	1.32	21.32	19.17	82.60	3060	PASS
	5G WiFi	17	3.66	20.66	18.51	70.96	3060	PASS

CONCLUSION:

This device cannot transmitted simultaneously in 2.4GWIFI and 5GWIFI, is compliant with the RF exposure requirements.



Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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