

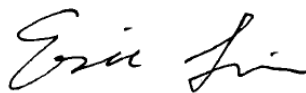
1 Cover Page

**RF Exposure Evaluation Report**

**Application No.:** KSCR2204000497AT  
**FCC ID:** SVNITC952  
**Applicant:** ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.  
**Address of Applicant:** No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China  
**Manufacturer:** ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.  
**Address of Manufacturer:** No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China  
**Equipment Under Test (EUT):**  
**EUT Name:** All-In-One Traffic Camera  
**Model No.:** Refer to page2  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
 KDB 447498 D01 interim General RF Exposure Guidance v06  
**Date of Receipt:** 2022-04-15  
**Date of Test:** 2022-05-09 to 2022-06-11  
**Date of Issue:** 2022-06-28

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin  
Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)**  
 No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300      t(86-512)57355888    f(86-512)57370818    www.sgs.com.cn  
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300      t(86-512)57355888    f(86-512)57370818    sgs.china@sgs.com

**Model No.:**

DHI-ITC952-SU2F-PQE-C1R1-IRL7; ITC952-SU2F-PQE-C1R1-IRL7; DHI-ITC952-SU2F-PQE-C1R1-IRL8; ITC952-SU2F-PQE-C1R1-IRL8; DHI-ITC952-SU2F-PQE-C1R1-L; ITC952-SU2F-PQE-C1R1-L; DHI-ITC952-SU2F-PQE-C1R1-IRL7ZF1640; ITC952-SU2F-PQE-C1R1-IRL7ZF1640; DHI-ITC952-SU2F-PQE-C1R1-IRL8ZF1640; ITC952-SU2F-PQE-C1R1-IRL8ZF1640; DHI-ITC952-SU2F-PQE-C1R1-LZF1640; ITC952-SU2F-PQE-C1R1-LZF1640; ITC1652-SU2F-PQE-C2R1-LZF1640; DHI-ITC1652-SU2F-PQE-C2R1-LZF1640; DHI-ITC1652-SU2F-PQE-C2R1-IRL8ZF1640; DHI-ITC1652-SU2F-PQE-C2R1-L; ITC1652-SU2F-PQE-C2R1-IRL7; ITC1652-SU2F-PQE-C2R1-IRL8; ITC1652-SU2F-GQE-C2R1-LZF1640; ITC1652-SU2F-PQE-C2R1-IRL7ZF1640; DHI-ITC1652-SU2F-PQE-C2R1-IRL7ZF1640; ITC1652-SU2F-PQE-C2R1-IRL8ZF1640; ITC1652-SU2F-PQE-C2R1-L; DHI-ITC1652-SU2F-PQE-C2R1-IRL7; DHI-ITC1652-SU2F-PQE-C2R1-IRL8; DHI-ITC1652-SU2F-GQE-C2R1-LZF1640; ITC1652-SU2F-GQE-C2R1-IRL7ZF1640; ITC1652-SU2F-GQE-C2R1-IRL8ZF1640; DHI-ITC1652-SU2F-GQE-C2R1-IRL8ZF1640; DHI-ITC1652-SU2F-GQE-C2R1-L; DHI-ITC1652-SU2F-GQE-C2R1-IRL7ZF1640; ITC1652-SU2F-GQE-C2R1-L; DHI-ITC1652-SU2F-GQE-C2R1-IRL7; ITC1652-SU2F-GQE-C2R1-IRL8; DHI-ITC1652-SU2F-GQE-C2R1-IRL8; ITC1652-SU2F-GQE-C2R1-IRL7; DHI-ITC1652-SU2F-PQE-C2R0-L; ITC952-SU2F-PQE-C2R1-LZF1640; DHI-ITC952-SU2F-PQE-C2R1-LZF1640; DHI-ITC952-SU2F-PQE-C2R1-IRL8ZF1640; DHI-ITC952-SU2F-PQE-C2R1-L; ITC952-SU2F-PQE-C2R1-IRL7; ITC952-SU2F-PQE-C2R1-IRL8; ITC952-SU2F-GQE-C2R1-LZF1640; ITC952-SU2F-PQE-C2R1-IRL7ZF1640; DHI-ITC952-SU2F-PQE-C2R1-IRL7ZF1640; ITC952-SU2F-PQE-C2R1-IRL8ZF1640; ITC952-SU2F-PQE-C2R1-L; DHI-ITC952-SU2F-PQE-C2R1-IRL7; DHI-ITC952-SU2F-PQE-C2R1-IRL8; DHI-ITC952-SU2F-GQE-C2R1-LZF1640; ITC952-SU2F-GQE-C2R1-IRL7ZF1640; ITC952-SU2F-GQE-C2R1-IRL8ZF1640; DHI-ITC952-SU2F-GQE-C2R1-L; DHI-ITC952-SU2F-GQE-C2R1-IRL7ZF1640; ITC952-SU2F-GQE-C2R1-L; DHI-ITC952-SU2F-GQE-C2R1-IRL7; ITC952-SU2F-GQE-C2R1-IRL8; DHI-ITC952-SU2F-GQE-C2R1-IRL8; ITC952-SU2F-GQE-C2R1-IRL7; DHI-ITC952-SU2F-PQE-C2R0-L



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

☎(86-512)57355888 ☎(86-512)57370818 www.sgsgroup.com.cn  
☎(86-512)57355888 ☎(86-512)57370818 sgs.china@sgs.com

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-06-28		Original

Authorized for issue by:			
		<i>Pawn. Liu</i>	
		_____	
		<b>Pawn.Liu /Project Engineer</b>	
		<i>Eric Lin</i>	
		_____	
		<b>Eric Lin/Reviewer</b>	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

## 2 Contents

	Page
1 COVER PAGE .....	1
2 CONTENTS .....	4
3 GENERAL INFORMATION .....	5
3.1 GENERAL DESCRIPTION OF E.U.T. ....	5
3.2 DETAILS OF E.U.T. ....	5
3.3 TEST LOCATION.....	6
3.4 TEST FACILITY.....	6
4 FCC RADIOFREQUENCY RADIATION EXPOSURE LIMITS .....	7
5 MEASUREMENT AND CALCULATION .....	7
5.1 MAXIMUM TRANSMIT POWER .....	7
5.2 RF EXPOSURE CALCULATION.....	7



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	DC 36V,5A by Adapter Adapter model :ADS-180EL-36-1 Input :100-240V,50/60Hz Output:36V,5A,180W Adapter model:AD1803600500NA Input :100-240V,50/60Hz Output:36V,5A,180W
---------------	---

#### 3.2 Details of E.U.T.

Test voltage:	AC 120V/60Hz
Operation Frequency Range :	24.02GHz to 24.21GHz
Modulation:	FMCW
Antenna Type :	PCB Antenna
Antenna Gain:	16 dBi



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

☎(86-512)57355888 ☎(86-512)57370818 www.sgsgroup.com.cn  
☎(86-512)57355888 ☎(86-512)57370818 sgs.china@sgs.com



### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

### 3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development (ISED) Canada as an accredited testing laboratory.

CAB Identifier: CN0072.

• **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
 t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

## 4 FCC Radiofrequency radiation exposure limits

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

Note: PSD limit for 24G=1 MW/cm<sup>2</sup>

## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR220400049701

Test Mode	Frequency(GHz)	Peak EIRP(dBm)	EIRP(mW)
FMCW	24.117	-8.51	0.1409
$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} + 20 \log(\text{d[meters]}) - 104.77$			
$\begin{aligned} \text{EIRP[dBm]} &= \text{E[dB}\mu\text{V/m]} - 104.77 \\ &= 96.26 \text{ dB}\mu\text{V/m} - 104.77 \\ &= -8.51 \text{ dBm} = 0.1409 \text{ mW} \end{aligned}$			

### 5.2 RF Exposure Calculation

The Max Conducted Peak EIRP is 0.1409mW.

According to the formula  $S = \frac{PG}{4R^2\pi}$ , we can calculate S which is MPE.

Note:

- 1) P (Watts) = Power Input to antenna
- 2) G (Antenna gain in numeric) = 10<sup>^</sup> (Antenna gain in dBi /10)
- 3) R = distance to the center of radiation of antenna (in meter) = 20cm
- 4) MPE limit = 1mW/cm<sup>2</sup>



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

☎(86-512)57355888 ☎(86-512)57370818 www.sgsgroup.com.cn  
 ☎(86-512)57355888 ☎(86-512)57370818 sgs.china@sgs.com

Report No.: KSCR220400049702

Page: 8 of 8

$$S = \frac{PG}{4R^2\pi} = \frac{0.1409}{4 \times 400 \times 3.14} = 0.000028 \text{ mW/cm}^2 \leq 1 \text{ mW/cm}^2$$

So the device is exclusion from SAR test.

of the SAR report.

**--End of the Report--**



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn  
t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com