



**FCC RF EXPOSURE REPORT**

*For*

**Wi-Fi Villa Door Station**

**MODEL NUMBER: DHI-VTO2311R-WP**

**ADDITIONAL MODEL NUMBER: VTO2311R-WP**

**PROJECT NUMBER: 4790209817-3**

**REPORT NUMBER: 4790209817-3-9**

**FCC ID: SVN-2311R-WP**

**ISSUE DATE: Jan. 20, 2022**

*Prepared for*

**Zhejiang Dahua Vision Technology Co., Ltd.**

*Prepared by*

**UL-CCIC COMPANY LIMITED**

**No. 2, Chengwan Road, Suzhou Industrial Park, People's Republic of China**

**Tel: +86 512-6808 6400**

**Fax: +86 512-6808 4099**

**Website: [www.ul.com](http://www.ul.com)**

Form-ULID-008536-12 V1.0

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.



Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	01/20/2022	Initial Issue	



## TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS .....	4
2. TEST METHODOLOGY .....	5
3. FACILITIES AND ACCREDITATION .....	5
4. REQUIREMENT .....	6



# 1. ATTESTATION OF TEST RESULTS

## Applicant Information

Company Name: Zhejiang Dahua Vision Technology Co., Ltd.  
Address: No.1199, Bin'an road, Binjiang District, Hangzhou, P.R. China.

## Manufacturer Information

Company Name: Zhejiang Dahua Vision Technology Co., Ltd.  
Address: No.1199, Bin'an road, Binjiang District, Hangzhou, P.R. China.

## EUT Description

Product Name: Wi-Fi Villa Door Station  
Model Name: DHI-VTO2311R-WP  
Additional No.: VTO2311R-WP  
Sample Number: 4445266  
Data of Receipt Sample: Dec. 01, 2021  
Test Date: Dec. 02, 2021 ~ Jan. 20, 2022

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Guidelines for Human Exposure IEEE C95.1	Complies

Prepared By:

*Tom Tang*

Reviewed By:

*Leon Wu*

Tom Tang  
Project Engineer

Leon Wu  
Senior Engineer Project

Authorized By:

*Chris Zhong*

Chris Zhong  
Laboratory Leader



## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06 and FCC Guidelines for Human Exposure IEEE C95.1.

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<b>A2LA (Certificate No.: 4829.01)</b> <b>UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA.</b> <b>FCC (FCC Designation No.: CN1247)</b> <b>UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</b> <b>IC (IC Designation No.: 25056 CAB No.: CN0073)</b> <b>UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</b>
---------------------------	---

Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



## 4. REQUIREMENT

### LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100) *	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> ) *	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

Note 1: f = frequency in MHz, \* means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm<sup>2</sup> is available for this EUT.

### MPE CALCULATION METHOD

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

where: S = power density (in appropriate units, e.g. mW/ cm<sup>2</sup>)  
P = power input to the antenna (in appropriate units, e.g., mW)  
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 (appropriate units, e.g., cm)



**CALCULATED RESULTS**

Radio Frequency Radiation Exposure Evaluation

WIFI (Worst case)

Mode	Frequency	Output Power to Antenna with tolerance		Antenna Gain		Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Test Result
		(dBm)	(mW)	(dBi)	(Numeric)			
11b	2412 - 2462 MHz	10.0	10.00	2.04	1.60	0.003	1	--
								Complies

Note: the calculated distance is 20cm.

**END OF REPORT**