

#### FCC IC RF EXPOSURE REPORT

For

### **IP CAMERA**

**MODEL NUMBER: DH-IPC-WL46A** 

ADDTIONAL MODEL NUMBER: IPC-WL46A; DH-IPC-WL46A-0280B; IPC-WL46A-0280B; IPC-L46N-USA; IPC-L46N-CAN; IPC-L46N; IPC-L46; IPC-L46-USA; IPC-L46-CAN

PROJECT NUMBER: 4790217753-2

REPORT NUMBER: 4790217753-2-3

FCC ID: SVNDH-IPC-WLX6

**ISSUE DATE: Dec 31, 2021** 

Prepared for

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Prepared by

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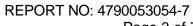


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## **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	12/31/2021	Initial Issue	

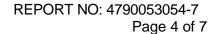






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1. ATTESTATION OF TEST RESULTS

**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.

**Factory Information** 

Company Name: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD Address: No.1199, Bin'an road, Binjiang District, Hangzhou,

P.R.China.

Company Name: ZHEJIANG DAHUA ZHILIAN CO.,LTD.

Address: No.28, Dongqiao Road, Dongzhou Street, Fuyang District,

Hangzhou, P.R. China.

**EUT Description** 

Product Name IP CAMERA Model Name DH-IPC-WL46A

Additional No. IPC-WL46A; DH-IPC-WL46A-0280B; IPC-WL46A-0280B;

IPC-L46N-USA; IPC-L46N-CAN; IPC-L46N; IPC-L46;

IPC-L46-USA; IPC-L46-CAN

Sample Number 4477838
Data of Receipt Sample Dec 08, 2021

Date Tested Dec 09, 2021 ~ Dec 31, 2021

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

Prepared By: Reviewed By:

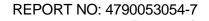
Tom Tang Leon Wu

Tom Tang Leon Wu

Project Engineer Senior Project Engineer

Authorized By:

Chris Zhong





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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.

### 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) 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. IC (IC Designation No.: 25056 CAB No.: CN0073) 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.
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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.



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## 4. REQUIREMENT

### **LIMIT**

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Magnetic Field Strength (E) Strength (H) (V/m) (A/m)		PowerDensity (S) (mW/cm²)	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/f2)*	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**

 $S = PG/(4\pi R2)$ 

where: S = power density (in appropriate units, e.g. mW/ cm2)

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**

WIFI 2.4G (Worst case)						
Operating	Output Power with tolerance		Antenna Gain		Power density	Limit
Mode	(dBm)	(mW)	(dBi)	(num)	(mW/ cm <sup>2</sup> )	
802.11b - ANT 2	18.0	63.10	4.22	2.64	0.033	1

WIFI 5G (Worst case)							
Operating	Output Power with tolerance		Antenna Gain		Power density	Limit	
Mode	(dBm)	(mW)	(dBi)	(num)	(mW/ cm <sup>2</sup> )		
802.11ac40 (ANT 1+2) MIMO	19.0	79.43	6.49	4.46	0.0705	1	

Note: the calculated distance is 20cm.

# **END OF REPORT**