



**RF EXPOSURE REPORT**

*For*

**IR NETWORK CAMERA**

**MODEL NUMBER: DS-2CD2446G2-IW**

**ADDITIONAL MODEL NUMBER: DS-2CD2446G2-IWUHK,DS-2CD2446G2-IWCKV,DS-2CD2446G2-IWUVS,DS-2CD2446G2-IWKVO,DS-2CD2446G2-IWHUN,DS-2CD2443G2-IW,DS-2CD2443G2-IWUHK,DS-2CD2443G2-IWCKV,DS-2CD2443G2-IWUVS,DS-2CD2443G2-IWKVO,DS-2CD2443G2-IWHUN**

**PROJECT NUMBER: 4789920552**

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**FCC ID: 2ADTD-I0R2401**

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*Prepared for*

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## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD.  
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### Manufacturer Information

Company Name: HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD.  
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### Factory Information(1)

Company Name: Hangzhou Hikvision Technology Co., Ltd.  
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### Factory Information(2)

Company Name: Hangzhou Hikvision Electronics Co., Ltd.  
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### Factory Information(3)

Company Name: Hangzhou Hikvision Digital Technology Co., Ltd.  
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### EUT Description

Product Name IR NETWORK CAMERA  
Model Name DS-2CD2446G2-IW  
Additional No. DS-2CD2446G2-IWUHK,DS-2CD2446G2-IWCKV,  
DS-2CD2446G2-IWUVS,DS-2CD2446G2-IWKVO,  
DS-2CD2446G2-IWHUN,DS-2CD2443G2-IW,DS-2CD2443G2-  
IWUHK,DS-2CD2443G2-IWCKV,DS-2CD2443G2-IWUVS,  
DS-2CD2443G2-IWKVO,DS-2CD2443G2-IWHUN

Sample Number 3889193  
Data of Receipt Sample May 08, 2021  
Date Tested May 08, 2021~ May. 22, 2021



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

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## 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	<p><b>A2LA (Certificate No.: 4829.01)</b>  <b>UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA.</b></p> <p><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></p> <p><b>IC (IC Designation No.: 25056)</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></p>
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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.



## 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) (the measured power value refer to the tune-up document)

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:

1) For SISO mode:

WIFI (Worst case)							
Mode	Tune-up Power(P)		Antenna Gain		Power Density	Limit	Test Result
11N40	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )	--
	14.0	25.12	0.5	1.12	0.0056	1	Complies

Note: The calculated distance is 20cm.

2) For MIMO mode:

WIFI (Worst case)							
Mode	Tune-up Power(P)		Antenna Gain		Power Density	Limit	Test Result
11N40	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )	--
	16.5	44.67	3.51	2.24	0.0200	1	Complies

Note: The calculated distance is 20cm.

**END OF REPORT**