

#### FCC RF EXPOSURE REPORT

For

#### **IP Camera**

MODEL NUMBER: IPC6415SR-X5UPW

ADDITIONAL NUMBER: IPC6415SR-X5UPW-NB, IPC-B645, IPC-B645-IR, IPC-B645-WH, IPC-B645-FW, IPC-S645, IPC-S645-IR, IPC-S645-WH, IPC-S645-FW, IPC-E645, IPC-E645-IR, IPC-E645-WH, IPC-E645-FW, AFSXJ-NC-C-IPC-B645, AFSXJ-NC-C-IPC-B645-IR, AFSXJ-NC-C-IPC-B645-WH, AFSXJ-NC-C-IPC-B645-FW, IPC-B645-XYZ-ABC

FCC ID: 2AL8S-0235C3GQ

REPORT NUMBER: 4789049979-2

**ISSUE DATE: Jul. 08, 2019** 

Prepared for

Zhejiang Uniview Technologies Co., Ltd.

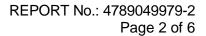
Prepared by

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## 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: Zhejiang Uniview Technologies Co., Ltd.

Address: 88 JIANGLING RD, BINJIANG DISTRICT, HANGZHOU,

ZHEJIANG 310051 CHINA

**Manufacturer Information** 

Company Name: Zhejiang Uniview Technologies Co., Ltd.

Address: 88 JIANGLING RD, BINJIANG DISTRICT, HANGZHOU,

ZHEJIANG 310051 CHINA

**Factory Information** 

Factory 1:

Company Name: Zhejiang Uniview Systems Technology Co.,Ltd.

Address: No.1277 South Qingfeng South Road, Tongxiang City, Jiaxing City

Factory 2:

Company Name: TDG Technology Co.,Ltd.

Address: YATAI ROAD NO.1, NANHU DISTRICT, JIAXING,

ZHEJIANG, 314050, CHINA

Factory 3:

Company Name: SUZHOU QIAOXIN ELECTRONIC Technology Co.,Ltd.
Address: NO.77,YITANG ROAD,ECONOMIC DEVELOPMENT

ZONE, WUJIANG DISTRICT, SUZHOU JIANGSU CHINA

**EUT Description** 

EUT Name: IP Camera

Model: IPC6415SR-X5UPW

ADDITIONAL Number: IPC6415SR-X5UPW-NB, IPC-B645, IPC-B645-IR, IPC-B645-WH,

IPC-B645-FW, IPC-S645, IPC-S645-IR, IPC-S645-WH, IPC-S645-

FW, IPC-E645, IPC-E645-IR, IPC-E645-WH, IPC-E645-FW,

AFSXJ-NC-C-IPC-B645, AFSXJ-NC-C-IPC-B645-IR, AFSXJ-NC-C-IPC-B645-WH, AFSXJ-NC-C-IPC-B645-FW, IPC-B645-XYZ-ABC

Sample Number: 2349907

Sample Received Date: May 16, 2019

Date of Tested: May 16~ June 20, 2019



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## APPLICABLE STANDARDS

#### **STANDARD**

FCC 47CFR§2.1091 KDB-447498 D01 V06

#### **TEST RESULTS**

Complies

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Checked By:
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Tom Tang

**Engineer Project Associate** 

Scholl Zhang

Chris Zhong

Senior Project Engineer

Approved By:

Scholl Zhang

Laboratory Leader



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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.

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate  Accreditation Certifi
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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 Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time $ E ^2$ , $ H ^2$ 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**

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

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)



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## **CALCULATED RESULTS**

Radio Frequency Radiation Exposure Evaluation

WIFI2.4G (Worst case)									
Operating	Tune up tolerance	Max. Tune up Power	Antenna Gain		Power density	Limit			
Mode	(dBm)	(dBm)	(dBi)	(num)	(mW/ cm <sup>2</sup> )				
802.11g	18.5±1	19.5	2.4	1.74	0.0275	1			

## Note:

1. the calculated distance is 20cm.

# **END OF REPORT**