



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

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Prepared for

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Prepared by

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TABLE OF CONTENTS

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



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



APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091 KDB-447498 D01 V06	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.

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
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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 ²)	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/f ²)*	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/cm² 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)



CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

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

Note:

1. the calculated distance is 20cm.

END OF REPORT