



FCC RF EXPOSURE REPORT

For

4MP Dual Band Pan/Tilt Wireless IP Camera

MODEL NUMBER: IP4M-1051B

ADDITIONAL MODEL NUMBER: IP4M-1051B-; IP4M-1051B-***;**

IP4M-1051W; IP4M-1051W-; IP4M-1051W-***;**

****" can be "A-Z", or "0-9", or blank**

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Prepared for

Amcrest Technologies LLC

Prepared by

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Amcrest Technologies LLC
Address: 16727 Park Row Dr, Houston, TX 77084

Manufacturer Information

Company Name: Amcrest Technologies LLC
Address: 16727 Park Row Dr, Houston, TX 77084

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 4MP Dual Band Pan/Tilt Wireless IP Camera
Model Name IP4M-1051B
Additional No. IP4M-1051B-**; IP4M-1051B-***;
IP4M-1051W; IP4M-1051W-**; IP4M-1051W-***;
"*" can be "A-Z", or "0-9", or blank
Sample Number 1542101-001
Data of Receipt Sample April. 24, 2018
Date Tested April. 25, 2018 ~ May. 25, 2018


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

Tested By : 

Check By: 

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Engineer Project Associate

Shawn Wen
Laboratory Leader

Approved By: 

Stephen Guo
Laboratory Manager

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	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>IAS (Lab Code: TL-702) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has demonstrated compliance with ISO/IEC Standard 17025:2005, General requirements for the competence of testing and calibration laboratories</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
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Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

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) (the measured power value see Report: F12124 Section 6.6)

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 2.4G

WIFI (Worst case)							
Mode	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
	(dBm)	(mW)	(dBi)	(Numeric)			
11B	15.5	35.48	1.68	1.47	0.0104	1	Complies
							--

2) For 5.1G

WIFI (Worst case)							
Mode	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
	(dBm)	(mW)	(dBi)	(Numeric)			
11ac 20	18	63.10	1.99	1.58	0.0195	1	Complies
							--

3) For 5.8G

WIFI (Worst case)							
Mode	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
	(dBm)	(mW)	(dBi)	(Numeric)			
11n40	20	100	1.99	1.58	0.0315	1	Complies
							--

Note: the calculated distance is 20cm.

END OF REPORT