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

PROJECT NUMBER: 4788435051

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Prepared for

Amcrest Technologies LLC

Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS 3

2. TEST METHODOLOGY 4

3. FACILITIES AND ACCREDITATION 4

4. REQUIREMENT 5

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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 : Denny Huang

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Shawn Wen
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Stephen Guo

Laboratory Manager

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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.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **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 **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 Delcaration of Conformity (DoC) and Certification rules **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. **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

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

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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/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/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 $1.0mW/cm^2$ 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)

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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
11B	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
	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
11ac 20	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
	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
11n40	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
	20	100	1.99	1.58	0.0315	1	Complies

Note: the calculated distance is 20cm.

END OF REPORT

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