MPE Test Report

Report No.:	DHQA-19NO2333VTSHPB-2
FCC ID:	ZZ2-AMC058
Product:	4MP Pan/Tilt wireless IP Camera
Test Model:	IP4M-1041W
Serial Model:	IP4M-1041B
Received Date:	Nov.21, 2019
Test Date:	Nov.25 to Dec.10, 2019
Issued Date:	Dec.23, 2019
Applicant:	Amcrest Technologies LLC
Address:	16727 Park Row Dr. Houston, TX 77084
Manufacturer:	Amcrest Technologies LLC
Address:	16727 Park Row Dr. Houston, TX 77084
Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation
Lab Address:	No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)

ACCREDITED
Test Lab
Cert 2343.01

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Release Control Record

Issue No.	Description	Date Issued
DHQA-19NO2333VTSHPB-2	Original release	Dec.23, 2019

1 Certificate of Conformity

Product: 4MP Pan/Tilt wireless IP Camera

Brand: --

Test Model: IP4M-1041W

Series Model: IP4M-1041B

Applicant: Amcrest Technologies LLC

Test Date: Nov.25 to Dec.10, 2019

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : , **Date:** Dec.23, 2019

Will YAN

Project Engineer

Approved by : , **Date:** Dec.23, 2019

Daniel SUN

RF Supervisor

2 General Information

2.1 General Description of EUT

Product	4MP Pan/Tilt wireless IP Camera
Brand	--
Test Model	IP4M-1041W
Series Model:	IP4M-1041B
Model Difference	Only product color is different
Power Rating	5VDC/1A with adaptor 100-240V~,50/60Hz
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Operating Frequency	See clause 3.2
Number of Channel	See clause 3.2
Antenna Type	IFA Antenna
Antenna Connector	--
Antenna Gain	0.92dBi

3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm^2

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	15.57	0.92	20	0.00887055	1

Conclusion:

The calculation result of MPE is less than the limit.

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