

FCC RF EXPOSURE REPORT

For

Amcrest 4MP Video Doorbell Camera

MODEL NUMBER: AD410

PROJECT NUMBER: 4790425401-2.1

REPORT NUMBER: 4790425401-2.1-3

FCC ID: ZZ2-AD410

ISSUE DATE: Jun 23, 2022

Prepared for

Amcrest Technologies LLC.

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/23/2022	Initial Issue	

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TABLE OF CONTENTS

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



1. ATTESTATION OF TEST RESULTS

Applicant Information	
Company Name:	Amcrest Technologies LLC.
Address:	16727 Park Row Dr, Houston, TX 77084, United States Of America
Manufacturer Information	
Company Name:	Amcrest Technologies LLC.
Address:	16727 Park Row Dr, Houston, TX 77084, United States Of America
EUT Description	
Product Name:	Amcrest 4MP Video Doorbell Camera
Model Number:	AD410
Model Difference	N/A
Sample Number:	4991737
Data of Receipt Sample:	May 31,2022
Date Tested:	May 31, 2022– Jun. 22, 2022

APPLICABLE STANDARDS

STANDARD FCC Guidelines for Human Exposure IEEE C95.1 **TEST RESULTS**

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 and FCC Guidelines for Human Exposure IEEE C95.1.

3. FACILITIES AND ACCREDITATION

Test Location	UL-CCIC Company Limited, EMC&RF Lab
Address	No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122 ,China
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. IC (IC Designation No.: 25056; CAB No.:CN0073) 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.

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

<u>LIMIT</u>

Limits for General Population/Uncontrolled Exposure

V/cm ²)	$ ^2$, $ H ^2$ or S (minutes)
,	(minutes)
(100)*	30
180/f2)*	30
0.2	30
f/150	30
1.0	30
	180/f2)* 0.2 f/150

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

WIFI 2.4G (Worst case)						
Operating	Output Power with tolerance		Antenna Gain		Power density	Limit
Mode	(dBm)	(mW)	(dBi)	(num)	(mW/ cm^2)	
802.11b - ANT 1	19.0	79.43	1.68	1.47	0.0226	1
802.11n20 – ANT1 + 2 (MIMO)	16.0	39.81	5.53	3.57	0.0283	1

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WIFI 5G (Worst case)						
Operating	Output Power with tolerance		Antenna Gain		Power density	Limit
Mode	(dBm)	(mW)	(dBi)	(num)	(mW/ cm^2)	
802.11a- ANT 1	16.5	44.67	2.99	2.0	0.0178	1
802.11ac40 (ANT 1+2) MIMO	16.5	44.67	5.68	3.7	0.0329	1

Note: the calculated distance is 20cm.

END OF REPORT

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