

#### **FCC RF EXPOSURE REPORT**

For

**Amcrest SmartHome 1080P Detterent Camera** 

**MODEL NUMBER: ADC2W** 

PROJECT NUMBER: 4790425401-2.3

REPORT NUMBER: 4790425401-2.3-2

FCC ID: ZZ2- ADC2W

**ISSUE DATE: Aug. 12, 2022** 

Prepared for

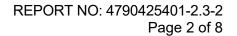
Amcrest Technologies LLC.

Prepared by

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## **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	08/12/2022	Initial Issue	



# **TABLE OF CONTENTS**

1.	ATTESTATION OF TEST RESULTS	4
	TEST METHODOLOGY	
3.	FACILITIES AND ACCREDITATION	5
4.	MEASUREMENT UNCERTAINTY	6
5	REQUIREMENT	7



### 1. ATTESTATION OF TEST RESULTS

Applicant I	Information
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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** 

Laboratory Leader

Product Name: Amcrest SmartHome 1080P Detterent Camera

Model Name: ADC2W
Sample Number: 5040307
Data of Receipt Sample: Jun. 09, 2022

Date Tested: Jun. 09, 2022 ~ Aug. 09, 2022

#### APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC 47CFR§2.1091 KDB-447498 D01 V06

Complies

Prepared By:	Reviewed By:	
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Authorized By:		
Chris Zhong		
Chris Zhong	_	



#### 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.  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.
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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. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty			
Output Power to Antenna	3.1 dB			
Note: This uncertainty represents an expanded uncertainty expressed at approximately the				

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



# 5. 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)	PowerDensity (S) (mW/cm²)	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<sup>2</sup> is available for this EUT.

#### **MPE CALCULATION METHOD**

 $S = PG/(4\pi R2)$ 

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**

WIFI 2.4G (Worst case)						
Operating Mode	Output Power with tolerance		Antenna Gain		Power density	Limit
	(dBm)	(mW)	(dBi)	(num)	(mW/cm <sup>2</sup> )	
802.11b-ANT 1	17.0	50.12	1.28	1.34	0.0136	1
802.11g-ANT 1	17.0	50.12	1.28	1.34	0.0136	1
802.11n20-ANT 1	13.5	22.39	1.28	1.34	0.0061	1
802.11n20-ANT 2	11.5	14.13	1.28	1.34	0.0038	1
802.11n20- ANT1 + 2 (MIMO)	16.5	44.67	4.29	2.69	0.0165	1
802.11n40-ANT 1	13.0	19.95	1.28	1.34	0.0054	1
802.11n40-ANT 2	11.5	14.13	1.28	1.34	0.0038	1
802.11n40- ANT1 + 2 (MIMO)	14.5	28.18	4.29	2.69	0.0104	1

#### Note:

- 1. The output power to antenna and antenna gain are from report 4790425401-2.3-1.
- 2. The minimum separation distance of the device is greater than 20 cm.
- 3. All the modes and channels had been tested, but only the worst data was recorded in the report.
- 4. The calculated result for the sample received is <Pass> according to < 47 CFR FCC Part 2 Subpart J, section 2.1091> when <Accuracy Method> decision rule is applied.

### **END OF REPORT**