



**FCC RF EXPOSURE REPORT**

*For*

**Amcrest 1080P Wi-Fi Video Doorbell**

**MODEL NUMBER: AD110**

**ADDITIONAL MODEL NUMBER: AD110-EU; AD110-UK**

**PROJECT NUMBER: 4789451811**

**REPORT NUMBER: 4789451811-2**

**FCC ID: ZZ2-Z05**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	05/06/2020	Initial Issue	



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# 1. ATTESTATION OF TEST RESULTS

## Applicant Information

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

## Manufacturer Information

Company Name: Amcrest Technologies LLC  
Address: 16727 Park Row Dr, Houston, Texas, 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: Amcrest 1080P Wi-Fi Video Doorbell  
Model Name: AD110  
Additional No.: AD110-EU; AD110-UK  
Sample Number: 2962866  
Data of Receipt Sample: Mar. 20, 2020  
Date Tested: Mar.21, 2019 ~ Apr. 27, 2020

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

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4829.01)</b>  <b>UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA.</b></p> <p><b>FCC (FCC Designation No.: CN1247)</b>  <b>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.</b></p> <p><b>IC (IC Designation No.: 25056)</b>  <b>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.</b></p>
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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. 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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	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

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

where: S = power density (in appropriate units, e.g. mW/ cm<sup>2</sup>)

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

WIFI (Worst case)							
Mode	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
11b	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )	--
	17.0	50.12	1.28	1.34	0.0134	1	Complies

Note: the calculated distance is 20cm.

**END OF REPORT**