

FCC/ IC TEST REPORT

According to

FCC CFR Title 47 Part 15 Subpart C (15.247)

Applicant Amcrest Technologies LLC

Address 16727 Park Row Dr. Houston, TX 77084

Manufacturer Zhejiang Dahua Vision Technology Co., Ltd.

Address No.1199, Bin'an road, Binjiang District, Hangzhou, P.R. China.

960P/1.3MP Fixed Wireless IP Camera **Equipment**

Model No. IPM-HX1B, IPM-HX1W

FCC ID ZZ2AMC016

IC ID 21923-AMC016

Test Period Jul.18,2017~ Jul.31, 2017

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of *Cerpass Technology Corporation Test Laboratory.* the test report shall not be reproduced exc- ept in full.
- The test report must not be used by the clients to claim product certification approval by any agency of the Government.

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.10 - 2013&RSS-247,Issue 2&RSS-Gen&FCC Part15.247and the energy emitted by this equipment was passed.

Laboratory Accreditation: Approved by:

Cerpass Technology Corporation Test Laboratory TAF LAB Code: 1439

Mark Liao / Assistant Manager

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Radio Frequency Exposure

LIMIT

For 2.4G Band: According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

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EUT Specification

EUT	960P/1.3MP Fixed Wireless IP Camera				
Frequency band (Operating)					
Device category	☐ Portable (<20cm separation)☑ Mobile (>20cm separation)				
Exposure classification	 ☐ Occupational/Controlled exposure (S = 5mW/cm²) ☐ General Population/Uncontrolled exposure (S=1mW/cm²) 				
Antenna diversity	 Single antenna Multiple antennas Tx diversity Rx diversity Xx/Rx diversity 				
Max. output power for 2.4G Band	IEEE802.11b: 22.42 dBm (0.1746W) IEEE802.11g: 18.46 dBm (0.0701W) IEEE802.11n HT20: 18.99 dBm (0.0793W) IEEE802.11n HT40: 16.99 dBm (0.0500W)				
Antenna gain (Max)	6.12 dBi for 2.4G Band				
Evaluation applied					
Remark:					
gain.) for2.4G band 2. DTS device is not subject	to routine RF evaluation; MPE estimate is used to justify the compliance. In transmitters, no SAR consideration applied. The maximum power				

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density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger. *Note: Simultaneous transmission is not applicable for this EUT.



TEST RESULTS FOR 2.4G BAND

No non-compliance noted.

Calculation

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

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$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and $d(cm) = d(m) / 100$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

Maximum Permissible Exposure

Modulation Mode	Frequency band (MHz)	Max. Conducted output power(dBm)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm2)	Limit (mW/cm2)
IEEE802.11b	2412-2462	22.42	6.12	20	0.14	1
IEEE802.11g	2412-2462	18.46	6.12	20	0.06	1
IEEE802.11n HT20	2412-2462	18.99	6.12	20	0.06	1
IEEE802.11n HT40	2422-2452	16.99	6.12	20	0.04	1