

RF Exposure Evaluation Declaration

Product Name	:	IP surveillance camera (Wi-Fi & mobile)
Model No.	:	EN-CNUC-001b
FCC ID	:	2AQEO-1001

Applicant:Eagle Eye Networks B.V.Address:Hogehilweg 19, 1101 CB Amsterdam, The Netherlands

Date of Receipt : Feb. 03, 2018 Issued Date : Jul. 04, 2018 Report No. : 1822021R-RF- US-P20V01 Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification Issued Date : Jul. 04, 2018

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Product Name Applicant Address	:	IP surveillance camera (Wi-Fi & mobile) Eagle Eye Networks B.V. Hogehilweg 19, 1101 CB Amsterdam, The Netherlands				
Manufacturer Address	:	Eagle Eye Networks B.V. Hogehilweg 19, 1101 CB Amsterdam, The Netherlands				
Model No. FCC ID EUT Voltage	:	EN-CNUC-001b 2AQEO-1001 100-240Vac 0.3A max 50/60Hz				
Test Voltage	:	AC 230V/50Hz				
Brand Name	:	Eagle Eye NuboCam				
Applicable Standard	:	KDB 447498D01V06				
		FCC Part1.1310				
Test Result	:	Complied				
Performed Location	:	DEKRA Testing and Certification (Suzhou) Co., Ltd.				
		Corporation - Suzhou EMC Laboratory				
		No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,				
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		FCC Designation Number: CN1155				
Documented By	:	Kathy Feng				
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Approved By	:	Harry zhans				
		(Engineering Manager: Harry Zhao)				



1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)				
(A) Limits for ((A) Limits for Occupational/ Control Exposures							
300-1500			F/300	6				
1500-100,000			5	6				
(B) Limits for General Population/ Uncontrolled Exposures								
300-1500			F/1500	6				
1500-100,000			1	30				

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout^{*}G)/(4^{*}pi^{*}r^{2})$

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18° C and 78° RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	P surveillance camera (Wi-Fi & mobile)	
Test Item	:	RF Exposure Evaluation	
Test Site	•	AC-6	

Antenna Information:

Antenna Delivery	\square	1*TX+1*RX			2*TX+2*	RX		3*TX+3*RX	
Antenna technology	\square	SISO	SISO						
		MIMO		Basic					
				Sectorized antenna systems					
				Cross-polarized antennas					
				Unequ	ual antenn	a gains	, with	n equal transmit powers	
				Spatial Multiplexing					
				CDD					
				Beam	-forming				
Antenna Type		External		Dipole					
		Internal		PIFA					
				PCB					
			\boxtimes	Ceramic Chip Antenna					
				Metal plate type F antenna					
				Cross	-polarize A	Antenna	1		
Antenna Gain	-1.30	lBi							



• Output Power into Antenna & RF Exposure Evaluation Distance:

Standlone modes:

Test Mode	Frequency Band (MHz)	Maximum Output Power to Antenna (dBm)	Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Power Density Limit at R = 20 cm (mW/cm2)
Zigbee	2400 ~ 2483.5	5.28	-1.3	0.0005	1.0
802.11b/g/n(20MHz)	2412 ~ 2462	16.46	-1.3	0.007	1.0

Simultaneous transmission:

Test Mode	Frequency Band (MHz)	Maximum Output Power to Antenna (dBm)	Directional Gain (dBi)		Power Density Limit at R = 20 cm (mW/cm2)
Zigbee	2400 ~ 2483.5	5.28	-1.3	0.0005	1.0
802.11b/g/n(20MHz)	2412 ~ 2462	16.46	-1.3	0.007	1.0
Simulta	0.0075	1.0			

Note: The simultaneous transmission power density is 0.0075 mW/cm2 for IP surveillance camera (Wi-Fi & mobile) without any other radio equipment.

The End