

SGS-CSTC Standards Technical Services Co., Ltd.

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RF Exposure Evaluation declaration

Application No: SZEMO110301189RF

Applicant: ShenZhen Foscam Intelligent Technology Co., Ltd. **Manufacturer/Factory:** ShenZhen Foscam Intelligent Technology Co., Ltd.

Address of Applicant/ Manufacturer/Factory:

5/F, Block 1, Vision Business Park, Nanshan District, Shenzhen, China.

FCC ID: ZDE-FI8918W

Fundamental Carrier

Frequency: 2.412GHz to 2.462GHz

Equipment Under Test (EUT):

Name: Wireless IP Camera

Model No.: FI8918W
Trade Mark: FOSCAM

Date of Receipt: 2011-03-22

Date of Test: 2011-03-29 to 2011-04-27

Date of Issue: 2011-05-19

Test Result : PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jack Zhang

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 RF Exposure Evaluation

2.1 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 in1.1307(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 Occupational/ Control Exposures						
300-1500			F/300	6		
1500-100,000			5	6		
300-1500			F/1500	6		
1500-100,000			1	300		

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

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 id 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.



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2.2 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.

2.3 Test Result of RF Exposure Evaluation

Product: Wireless IP Camera

Test Item: FI8918W

Test Site: No.3 OATS

Antenna Gain: 2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.585 in linear scale.

802.11b

Output Power Into Antenna & RF Exposure Evaluation Distance (2dBi):

Channel	Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)
1	2412	70.96	0.0221
6	2437	100.00	0.0315
11	2462	105.20	0.0332

The distance r (4th column) calculated from the Fries transmission formula is far shorter than 20 cm separation requirement.

802.11g

Output Power Into Antenna & RF Exposure Evaluation Distance (2dBi):

Channel	Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)
1	2412	105.44	0.0332
6	2437	99.77	0.0315
11	2462	112.72	0.0355

The distance r (4th column) calculated from the Fries transmission formula is far shorter than 20 cm separation requirement.