



BUREAU
VERITAS

Test Report No.: FS171219N020

RF EXPOSURE REPORT

Applicant	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD
Address	NO.2 West Xingye Road Laimei Industrial Area Chenghai Shantou Guangdong China

Manufacturer or Supplier	SHENZHEN LOGIC TECHNOLOGY LIMITED
Address	D06 of YIBEN e-commerce Industrial Park Chaguang west rode xili town ShenZhen City
Product	wifi Camera
Brand Name	N/A
Model	LOG1710
Additional Model & Model Difference	X20W-WIFI, See item 1
Date of tests	Dec. 19. 2017 ~ Jan. 15. 2018

FCC Part 2 (Section 2.1091)

KDB 447498 D01

IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department

Date: Mar. 02, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS171219N020	Original release	Mar. 02, 2018

**Bureau Veritas Shenzhen Co., Ltd.
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1. CERTIFICATION

FCC ID:	QV7-LOG1710
PRODUCT:	wifi Camera
BRAND NAME:	N/A
MODEL NO.:	LOG1710
ADDITIONAL NO.:	X20W-WIFI
TEST SAMPLE:	Engineering Sample
APPLICANT:	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

Additional model X20W-WIFI is identical with the test model LOG1710 except the model number for marketing purpose.



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2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2	Wire Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
802.11b	2412	16	+2	14	18
802.11g	2412	15	+2	13	17
802.11n(HT20)	2412	14	+2	12	16

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2412	16.84
802.11g	2412	15.62
802.11n(HT20)	2412	14.99

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412	18	2	20	0.019894	1.0

--- END ---

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