

RF EXPOSURE REPORT

Applicant	Swann Communications Pty Ltd
Address	Unit 5B, 706 Lorimer Street Port Melbourne, Victoria, Australia 3207

Manufacturer or Supplier	SHENZHEN AONI ELECTRONIC CO., LTD
Address	building 5, Honghui Industrial Park, Baoan District, Shenzhen, China
Product	IP Camera
Brand Name	Swann
Model	SWIFI-PTCAM2
Additional Model & Model Difference	N/A
Date of tests	Dec. 23, 2019 ~ Jan. 17, 2020

☒ **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
Assistant Manager / EMC Department




Date: Mar. 19, 2020

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Test Report No.: FM191223N008

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM191223N008	Original release	Mar. 19, 2020

1. CERTIFICATION

FCC ID:	VMIPTCAM2
PRODUCT:	IP Camera
BRAND NAME:	Swann
MODEL NO.:	SWIFI-PTCAM2
ADDITIONAL NO.:	N/A
TEST SAMPLE:	Engineering Sample
APPLICANT:	Swann Communications Pty Ltd
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

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**.

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	FPC 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	2412-2462	16	+ -1	15	17
802.11g	2412-2462	15	+ -1	14	16
802.11n(HT20)	2412-2462	15	+ -1	14	16
802.11n(HT40)	2422-2452	14	+ -1	13	15

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2437	15.96
802.11g	2437	15.35
802.11n(HT20)	2437	15.01
802.11n(HT40)	2437	13.93

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	17	2	20	0.0158	1.0

--- END ---