



FCC TEST REPORT FCC ID: VMISWIFI-2KICAM

Product	:	2K Indoor Cam			
Model Name	:	SWIFI-2KICAM			
Brand	:	Swann			
Report No.	:	PTC22031503805E-FC02			
		Prepared for			
		r repared for			
		Swann Communications Pty Ltd			
Unit 5E	Unit 5B, 706 Lorimer Street Port Melbourne, Victoria, Australia 3207				
		Prepared by			
Fiepaieu by					
Precise Testing & Certification Co., Ltd.					
Building 1, No.	Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.				



TEST RESULT CERTIFICATION

Applicant's name Swann Communications Pty Ltd

Address Unit 5B, 706 Lorimer Street Port Melbourne, Victoria, Australia

3207

Manufacture's name : DONGGUAN JUYANG ELECTRONIC COMPANY LIMITED

Address Room101,Building2,No.46,HuangTang Road,Xinsi District,HengLi

Town, Dong Guan City, Guang Dong Province, China

Product name 2K Indoor Cam

Model name SWIFI-2KICAM

Test procedure : 1.1307(b)(1)

Test Date : Apr. 8, 2022 to Jun. 27, 2022

Date of Issue : Jun. 27, 2022

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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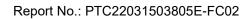
Test Engineer:

Simon Pu / Engineer

Simon

Technical Manager:

Ronnie Liu / Manager





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2 Test Summary

Test Items	Test Requirement	Result	
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS	
Remark:			
N/A: Not Applicable			



3 General Information

3.1 General Description of E.U.T.

Product Name :		2K Indoor Cam	
Model Name	:	SWIFI-2KICAM	
Specification :		802.11b/g/n HT20/HT40	
Operation Frequency	:	2412-2462MHz for 802.11b/g/ n(HT20/HT40)	
Number of Channel	:	11 channels for 802.11b/g/ n(HT20/HT40)	
Type of Modulation :		DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;	
Antenna installation	Antenna installation : Integral antenna		
Antenna Gain		1.73 dBi	
Power supply	:	Adapter: Model: CS-0501500 Input: 100-240V~50/60Hz 0.5A Output:DC5V,1.5A	
Hardware Version	:	V2	
Software Version	:	V3	



4 RF Exposure

Test Requirement : 15.247 (i)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500	27.0	0.070	F/1500	30	
300-1300			F/1300	30	
1500-100,000			1.0	30	

Note: f = frequency in MHz; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

ltem	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mw)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
2412	1.49	19.23	83.752928	0.024816	1	Pass

******THE END REPORT*****