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Report No.: 1911RSU014-U2 Report Version: V01 Issue Date: 12-06-2019

RF Exposure Evaluation Declaration

FCC ID: P27SCH2R0

Applicant: Sercomm Corporation

Application Type: Certification

Product: Indoor Camera

Model No.: SCH2R0-29xxxxx (the 1st x should be "blank" or "-"; the

rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for the

marketing purpose)

Brand Name: ADT

FCC Classification: Digital Transmission System (DTS)

Unlicensed PCS Base Station (PUB)

Test Procedure(s): KDB 447498 D01v06

Test Date: November 07 ~ 25, 2019

Reviewed By:

Sunny Sun)

Approved By:

ilac-MRA

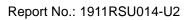


The test results relate only to the samples tested.

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

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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Revision History

Report No.	Version	Description	Issue Date	Note
1911RSU014-U2	Rev. 01	Initial Report	12-06-2019	Valid

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General Information

Applicant:	Sercomm Corporation		
Applicant Address:	8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.		
Manufacturer:	Sercomm Corporation		
Manufacturer Address:	8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.		
Test Site:	MRT Technology (Suzhou) Co., Ltd		
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development		
	Zone, Suzhou, China		
Test Device Serial No.:	N/A Production Pre-Production Engineering		

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.



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1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Indoor Camera
Model No.:	SCH2R0-29xxxxx (the 1st x should be "blank" or "-"; the rest x could be 0
	to 9, A to Z, a to z, "blank" or "-", for the marketing purpose)
Brand Name:	ADT
DECT Specification:	
Frequency Range:	1921.536 ~ 1928.448MHz
Number of Channels:	5
Type of Modulation:	Digital (Gaussian Frequency Shift Keying)
Antenna Gain:	0dBi
Antenna Type:	PCB Antenna
Wi-Fi Specification:	
Frequency Range:	802.11b/g/n-HT20: 2412 ~ 2462 MHz
Type of Modulation:	802.11b: DSSS, DBPSK, DQPSK, CCK
	802.11g/n-20M: OFDM, BPSK, QPSK, 16QAM, 64QAM
Antenna Gain:	2.71dBi
Antenna Type:	FPCB Antenna

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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 in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)
(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

Calculation 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, 1mW/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 Result of RF Exposure Evaluation

Product	Indoor Camera
Test Item	RF Exposure Evaluation

Test Mode	Frequency Band (MHz)	Maximum EIRP (dBm)	Power Density at $R = 20 \text{ cm}$ (mW/cm^2)	Limit (mW/cm²)
DECT	1921.536 ~ 1928.44	20.48	0.0222	1
Wi-Fi	2412 ~ 2462	21.27	0.0267	1

CONCLUSION:

The max Power Density at R (20 cm) = 0.0222mW/cm² + 0.0267 mW/cm² = 0.0489 mW/cm² < 1 mW/cm².

Therefore, the Min Safety Distance is 20cm.

————— The End

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Appendix A – Test Setup Photograph

Refer to "1911RSU014-UT" file.

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Appendix B – EUT Photograph

Refer to "1911RSU014-UE" file.

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