



FCC ID: P27RC845 Report No.: T190503D08-MF Page: 1 / 9 Rev.: 00

IEEE C95.1 2005 KDB 447498 D01 V06 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

FHD Wireless Indoor Camera

Model: RC845xxxxxxx (the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)

Trade Name: ADT

Issued to

Sercomm Corporation 8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan.

Issued by

Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) Issued Date: July 26, 2019

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部分複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Compliance Certification Service Inc. 程智科技股份有限公司 No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan / 新北市五股區五工六路 11 號 t:(886-2) 2299-9720 f:(886-2) 2298-1882 www.sgs.tw www.ccsrf.com



Page: 2/9 Rev.: 00

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 26, 2019	Initial Issue	ALL	May Lin



Page: 3/9 Rev.: 00

TABLE OF CONTENTS

1.	TEST RESULT CERTIFICATION	4
2.	LIMIT	5
3.	EUT SPECIFICATION	6
4.	TEST RESULTS	8
5.	MAXIMUM PERMISSIBLE EXPOSURE	9



Page: 4 / 9 Rev.: 00

1. TEST RESULT CERTIFICATION

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

APPLICABLE STANDARDS							
STANDARD	TEST RESULT						
IEEE C95.1 2005 KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted						
Statements of Conformity							
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.							

Approved by:

omil 1400

Kevin Tsai Deputy Manager Compliance Certification Services Inc.

Test by:

īn

May Lin Report coordinator Compliance Certification Services Inc.



Page: 5/9 Rev.: 00

2. LIMIT

According to §15.247(i), 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 of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.



3. EUT SPECIFICATION

EUT	FHD Wireless Indoor Camera RC845xxxxxxx (the 1st x should be "blank" or "-"; the rest x could be 0 to 9,									
Model		xxxxx (the 1st x should or z, "blank" or "-", for ma			rest x could	be 0 to 9,				
Trade Name	ADT									
Model Discrepancy	All the above models are identical except for the designation of model numbers. The suffix of (The 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-") on model number is just for marketing purpose only.									
Frequency band (Operating)	802.1 802.1 802.1 802.1	 802.11b/g/n HT20: 2412MHz ~ 2462MHz 802.11n HT40: 2422MHz ~ 2452MHz 802.11a/n HT20: 5180MHz ~ 5240MHz / 5720MHz ~ 5825MHz 802.11n HT40: 5190MHz ~ 5230MHz / 5755MHz ~ 5795MHz 802.11ac VHT80: 5210MHz / 5775MHz Others 								
Device category	 Portable (<20cm separation) Mobile (>20cm separation) Others 									
Exposure classification	🛛 Gener	eational/Controlled expose al Population/Uncontroll hW/cm ²)								
	2.4G									
	Ant No.	Operating Band	Туре	Material	Peak Gain					
	Ant 1	WiFi 2.4G/5G	Dipole	PCB	2.74 dBi					
	Ant 2	WiFi 2.4G/5G	Dipole	PCB	1.93 dBi					
	1. Power D	irectional Gain: 2.35								
	5G									
Antenna Specification	Ant No.	Operating Band	Туре	Material	Peak Gain					
	Ant 1	WiFi 2.4G/5G	Dipole	PCB	4.97 dBi					
	Ant 2	WiFi 2.4G/5G	Dipole	PCB	4.24 dBi					
	1. Power D 2.4GHz: 5GHz:	Directional Gain: 4.62 Directional Gain : 2.3 Directional Gain : 4.6		•	,					



Page: 7/9 Rev.: 00

	2.4GHz		
	IEEE 802.11b Mode:	22.30 dBm	(169.824 mW)
	IEEE 802.11g Mode:	20.30 dBm	(107.152 mW)
	IEEE 802.11n HT 20 Mode:	23.66 dBm	(232.274 mW)
Max tune up Power	IEEE 802.11n HT 40 Mode:	22.30 dBm	(169.824 mW)
-	5GHz		
	IEEE 802.11a Mode:	24.60 dBm	(288.403 mW)
	IEEE 802.11n HT 20 Mode:	24.70 dBm	(295.121 mW)
	IEEE 802.11n HT 40 Mode:	24.20 dBm	(263.027 mW)
	IEEE 802.11ac VHT 80 Mode	23.70 dBm	(234.423 mW)
	MPE Evaluation*		
Evaluation applied	SAR Evaluation		
	□ N/A		



4. TEST RESULTS

No non-compliance noted.

Calculation

Given

 $E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$ Where E = Field strength in Volts / meter P = Power in Watts G = Numeric antenna gain d = Distance in meters S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

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

Changing to units of mW and cm, using:

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

Page: 8/9 Rev.: 00



Page: 9/9 Rev.: 00

Report No.: T190503D08-MF

5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using d = 20 cm into Equation 1:

 $S = 0.000199 \times P \times G$

Where P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

IEEE 802.11b mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
11	2462	169.824	1.72	20	0.0581	1

IEEE 802.11g mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
6	2437	107.152	1.72	20	0.0367	1

IEEE 802.11n HT20 mode:

Γ	Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
	1	2412	232.274	1.72	20	0.0795	1

IEEE 802.11n HT40 mode:

C	Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
	3	2422	169.824	1.72	20	0.0581	1

IEEE 802.11a mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
165	5825	288.403	2.9	20	0.1664	1

IEEE 802.11n HT20 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
157	5785	295.121	2.9	20	0.1703	1

IEEE 802.11n HT40 mode:

I	Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
	159	5795	263.027	2.9	20	0.1518	1

IEEE 802.11ac VHT80 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
155	5775	234.423	2.9	20	0.1353	1

--End of Test Report--