



FCC ID: P27BC855
Report No.: T190711D17-MF

Page 1 / 8
Rev.: 01

**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**

RF EXPOSURE REPORT

For

Wireless Full HD Battery Camera

Model:

BC855xxxxxxxx (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.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)
Issue Date: September 25, 2019**

Note: *This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, A2LA, NIST or any government agencies. The test results in the report only apply to the tested sample.*

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.

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 25, 2019	Initial Issue	ALL	May Lin



Report No.: T190711D17-MF

Page 3 / 8
Rev.: 01

TABLE OF CONTENTS

1. TEST RESULT CERTIFICATION	4
2. LIMIT	5
3. EUT SPECIFICATION.....	6
4. TEST RESULTS.....	7
5. MAXIMUM PERMISSIBLE EXPOSURE.....	8

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:

Reporter:




Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

May Lin
Report coordinator
Compliance Certification Services Inc.

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	Wireless Full HD Battery Camera														
Model	BC855xxxxxxx (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)														
Frequency band (Operating)	<input type="checkbox"/> Bluetooth: 2402MHz-2480MHz <input checked="" type="checkbox"/> 802.11b/g/n HT20: 2412MHz ~ 2462 MHz <input type="checkbox"/> 802.11n HT40: 2422MHz ~ 2452MHz <input type="checkbox"/> 802.11a/n HT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5700MHz / 5745MHz ~ 5825MHz 802.11n HT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5670MHz / 5755MHz ~ 5795MHz 802.11ac VHT80: 5210MHz / 5290MHz / 5530MHz / 5775MHz <input type="checkbox"/> Others														
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others														
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)														
Antenna Specification	2.4GHz: Antenna Gain : 2.97 dBi (Numeric gain 1.98)														
Maximum Measurement Average Power	<table border="1"> <tr> <td>2.4GHz:</td> <td></td> <td></td> </tr> <tr> <td>IEEE 802.11b Mode:</td> <td>24.49 dBm</td> <td>(281.190 mW)</td> </tr> <tr> <td>IEEE 802.11g Mode:</td> <td>22.92 dBm</td> <td>(195.884 mW)</td> </tr> <tr> <td>IEEE 802.11n HT 20 Mode:</td> <td>22.42 dBm</td> <td>(174.582 mW)</td> </tr> </table>			2.4GHz:			IEEE 802.11b Mode:	24.49 dBm	(281.190 mW)	IEEE 802.11g Mode:	22.92 dBm	(195.884 mW)	IEEE 802.11n HT 20 Mode:	22.42 dBm	(174.582 mW)
2.4GHz:															
IEEE 802.11b Mode:	24.49 dBm	(281.190 mW)													
IEEE 802.11g Mode:	22.92 dBm	(195.884 mW)													
IEEE 802.11n HT 20 Mode:	22.42 dBm	(174.582 mW)													
Maximum tune up power	<table border="1"> <tr> <td>2.4GHz:</td> <td></td> <td></td> </tr> <tr> <td>IEEE 802.11b Mode:</td> <td>26.00 dBm</td> <td>(398.107 mW)</td> </tr> <tr> <td>IEEE 802.11g Mode:</td> <td>24.00 dBm</td> <td>(251.189 mW)</td> </tr> <tr> <td>IEEE 802.11n HT 20 Mode:</td> <td>24.00 dBm</td> <td>(251.189 mW)</td> </tr> </table>			2.4GHz:			IEEE 802.11b Mode:	26.00 dBm	(398.107 mW)	IEEE 802.11g Mode:	24.00 dBm	(251.189 mW)	IEEE 802.11n HT 20 Mode:	24.00 dBm	(251.189 mW)
2.4GHz:															
IEEE 802.11b Mode:	26.00 dBm	(398.107 mW)													
IEEE 802.11g Mode:	24.00 dBm	(251.189 mW)													
IEEE 802.11n HT 20 Mode:	24.00 dBm	(251.189 mW)													
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation* <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A														

4. TEST RESULTS

No non-compliance noted.

Calculation

$$\text{Given } E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$$

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:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

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

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

Report No.: T190711D17-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 / cm²

IEEE 802.11b mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
6	2437	389.107	1.98	20	0.1533	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	251.189	1.98	20	0.0990	1

IEEE 802.11n HT20 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
6	2437	251.189	1.98	20	0.0990	1

--End of Report--