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RF Exposure Report

Project Number: 5214055 Proposal: SUW-202408006976

Report Number: 5214055EMC11 Revision Level: 3

Client: Alarm.com Incorporated

Equipment Under Test: Alarm.com 4MP Indoor/Outdoor Spotlight Battery Camera

Model: ADC-V731B FCC ID: YL6-143V731B IC ID: 9111A-143V731B

Applicable Standards: 47 CFR §§ 2.1091

FCC KDB 447498 D01 General RF Exposure Guidance v06

FCC OET Bulletin 65

RSS-102, Issue 6 (December 15, 2023)

Report issued on: 23 April 2025

Report revised on: 29 May 2025

Result: Compliant





FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01
This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal

Prepared by:

Daniel Alvarez, RF/EMCSr. Staff Engineer

Reviewed by: State Clothal 2008/FMOM

Stephen Whalen, SAR/EMC Manager

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1 General Information

1.1 Client Information

Company Name: Alarm.com Incorporated

Address: 8281 Greensboro Drive, Suite 100

City, State, Zip, Country: Tysons, VA 22102, USA

1.2 Test Laboratory

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA

Type of lab: Testing Laboratory

Certificate Number: 3212.01

1.3 General Information of EUT

Manufacturer: Alarm.com Incorporated

Product Marketing Name (PMN): Alarm.com 4MP Indoor/Outdoor Spotlight Battery Camera

Model Number: ADC-V731B

Serial Number: 50407410F2F1 (Conducted Sample); 50407410F2B2 (Radiated Sample)

Type / Frequency / Data Modes: Bluetooth Low Energy / 2402 – 2480 MHz / 1Mbps / 2Mbps Type / Frequency / Data Modes: 2.4GHz WLAN / 2412 – 2462 MHz / (802.11b; 11g; 11n) Type / Frequency / Data Modes: 5 GHz WLAN / 5180 – 5825 MHz / (802.11a; 11n; 11ac)

Antenna*:

2.4GHz	Frequency(MHz)	2400	2450	2500
Ant.1	Peak Gain(dBi)	1.7	1.5	1.4
Ancı	Efficiency(%)	62	60	59
Ant.2	Peak Gain(dBi)	1.9	2.0	1.7
AIIL.2	Efficiency(%)	62	60	57
5GHz	Frequency(MHz)	5150	5550	5850
	Frequency(MHz) Peak Gain(dBi)	5150 3.2	5550 2.3	5850 4.0
5GHz Ant.1				
Ant.1	Peak Gain(dBi)	3.2	2.3	4.0
	Peak Gain(dBi) Efficiency(%)	3.2 60	2.3 59	4.0 63

Max Conducted Output Power:

BLE	2.4GHz WLAN	5GHz WLAN	
5.05	24.22	16.74	dBm

^{*}Data was not measured by SGS laboratory and therefore SGS is not responsible for accuracy. Data obtained via customer, specification sheet, previous regulatory filing or other.

1.4 Operating Modes and Conditions

Maximum power levels were utilized for calculations.

SGS North America Inc.



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Alarm.com Incorporated / ADC-V731B

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2 RF Exposure

2.1 Test Results

Test Description	Product Specific Standard	Test Result		
RF Exposure	FCC Part 1.1310 & RSS-102	Compliant		

2.2 Test Method

The formula below calculates power density.

$$S = \frac{PG}{4\pi R^2}$$
 $S = \frac{EIRP}{4\pi R^2}$

where;

 $S = Power density (mW/cm^2)$

P = Maximum sourced based average power delivered to antenna port (mW)

G = Maximum numeric power gain of antenna relative to an isotropic radiator (dBi -> linear)

R = Distance between by-stander and antenna (cm)

EIRP = Equivalent (or effective) isotropically radiated power

The limits for general population / uncontrolled exposure were used at a distance of 20cm.

2.3 FCC Single transmission RF Exposure Levels (mW/cm²)

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	e EIRP	Distance (R)	Power Density EIRP _{Avg} /(4πR²)	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW/cm²	mW/cm ²		
WLAN 2.4	2400-2483.5	24.2	2.0	0.0	26.2	419	20	0.083	1.00	8%	Pass
Bluetooth	2400-2483.5	5.1	2.0	0.0	7.1	5	20	0.001	1.00	0%	Pass
WLAN 5 GHz (UNII-2)	5250-5700	16.7	4.0	0.0	20.7	119	20	0.024	1.00	2%	Pass

2.4 ISED Single transmission RF Exposure Levels (W/m²)

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	je EIRP	Distance (R)	Power Density EIRP _{Avg} /(4πR²)	IC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	W/m ²	W/m ²		
WLAN 2.4	2400-2483.5	24.2	2.0	0.0	26.2	419	20	0.833	5.35	16%	Pass
Bluetooth	2400-2483.5	5.1	2.0	0.0	7.1	5	20	0.010	5.35	0%	Pass
WLAN 5 GHz (UNII-2)	5250-5700	16.7	4.0	0.0	20.7	119	20	0.236	9.13	3%	Pass

2.5 Simultaneous Conditions

No Simultaneous transmission.

SGS North America Inc.



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3 Revision History

Revision Level	Description of changes	Revision Date						
Draft	Draft Release	25 February 2025						
0	Initial Release	23 April 2025						
1	Corrected equipment under test	02 May 2025						
2	Updated Equipment Under Test	14 May 2025						
3	Updated BLE measured value.	29 May 2025						