

RF EXPOSURE **EVALUATION REPORT**

APPLICANT : Anker Innovations Limited

PRODUCT NAME : Indoor Cam S350

MODEL NAME : T8416

BRAND NAME : eufy SECURITY

FCC ID : 2AOKB-T8416S

: 47 CFR Part 2(2.1091) STANDARD(S)

RECEIPT DATE : 2024-07-05

TEST DATE : 2024-07-09 to 2024-07-19

ISSUE DATE : 2024-07-29

ShenzhenMorlab Communications Technology Co., Ltd.

Edited by:

Approved by:

Shen Junsheng (Supervisor)

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Change History				
Version Date Reason for change				
1.0 2024-07-29		First edition		



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	Anker Innovations Limited		
Applicant Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,		
Applicant Address:	Hong Kong		
Manufacturer:	Anker Innovations Limited		
Manufacturer Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,		
Manufacturer Address:	Hong Kong		

1.2 Equipment under Test (EUT) Description

Product Name:	Indoor Cam S350			
Sample No.:	5#			
Hardware Version:	T8416-MAIN-V0	14		
Software Version:	1.3.1.15			
	Bluetooth	2402MHz-2480MHz		
Frequency Bands:	WLAN 2.4GHz	2412MHz-2462MHz		
Trequency bands.	VALLANI ECLI-	5180MHz-5240MHz; 5260MHz-5320MHz;		
	WLAN 5GHz	5500MHz-5720MHz; 5745MHz-5825MHz		
	Bluetooth	GFSK		
Modulation Mode:	WLAN 2.4GHz	DSSS, OFDM, OFDMA		
	WLAN 5GHz	OFDM, OFDMA		
	Bluetooth			
	Antenna Type:	PIFA Antenna		
	Antenna Gain:	enna Gain: 3.6dBi		
Antonio	WLAN 2.4GHz			
Antenna Information:	Antenna Type:	PIFA Antenna		
information:	Antenna Gain:	3.6dBi		
	WLAN 5GHz			
	Antenna Type:	PIFA Antenna		
	Antenna Gain:	2.75dBi		



1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Method Determination /Remark
47 CFR Part 2(2.1091)	Radio Frequency Radiation Exposure Assessment: mobile devices	No deviation
KDB 447498 D01v06	General RF Exposure Guidance	No deviation

Note 1: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 2: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.





2. Device Category and RF Exposure Limit

Per user manual, based on 47 CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47 CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

General Population/Uncontrolled Exposure:

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

Table 1Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
-	B) Limits for Genera	<u>-</u>	<u>-</u>	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

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





3. Maximum Average Power Summary

Wireless Mode	Channel	Frequency (MHz)	Max. Average Power (dBm)	Tune-up Limit (dBm)
Bluetooth	CH 0	2402	7.66	8.00
WLAN 2.4GHz	CH 1	2412	20.31	20.50
WLAN 5GHz	CH 36	5180	13.05	13.50

Note 1: According to KDB 447498, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Note 2: The maximum average power refers to report (Report No.: SZ24070017W01/W02/W03).





4. RF Exposure Assessment

> Standalone Transmission Assessment

<Standalone Antenna Transmission Assessment>

	Eroguenov	Tung un	Antonno	רים	Power	Limit for
Bands	Frequency (MHz)	Tune-up Power(dBm)	Antenna Gain(dBi)	E.I.R.P. (mW)	Density	MPE
	(IVITIZ)	Power(dbiii)	Gairi(ubi)	(11100)	(mW/cm²)	(mW/cm²)
Bluetooth	2402	8.00	3.60	14.45	0.003	1.0
WLAN 2.4GHz	2412	20.50	3.60	257.04	0.051	1.0
WLAN 5GHz	5180	13.50	2.75	42.17	0.008	1.0

Note:

- According to KDB 447498, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.
- 2. MPE calculate method

$S = PG/4\pi R^2$

Where: S= Power density (in appropriate units, e.g. mW/cm²)

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Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

P = Time-average maximum tune-up power (in appropriate units, e.g. dBm)

G = numeric gain of the antenna (in appropriate units, e.g. dBi)

R = Separation distance to the centre of radiation of the antenna (20cm)

> Simultaneous Transmission Assessment:

According to the user manual, both the WLAN and Bluetooth transmitters in the device cannot operate simultaneously, therefore simultaneous transmission analysis is not required.

> Conclusion:

According to 47 CFR §2.1091, this device complies with human exposure basic restrictions.





Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
	FL.1-3, Building A, FeiYang Science Park, No.8		
Laboratory Address:	LongChang Road, Block 67, BaoAn District, ShenZhen,		
	GuangDong Province, P. R. China		
Telephone:	+86 755 36698555		
Facsimile:	+86 755 36698525		

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
	FL.1-3, Building A, FeiYang Science Park, No.8		
Address:	LongChang Road, Block 67, BaoAn District, ShenZhen,		
	GuangDong Province, P. R. China		

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

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