

RF EXPOSURE EVALUATION REPORT

APPLICANT: Anker Innovations Limited

PRODUCT NAME: eufyCam 2

MODEL NAME : T8114S

BRAND NAME: eufy SECURITY

FCC ID : 2AOKB-T8114S

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

RECEIPT DATE : 2021-09-30

TEST DATE : 2021-10-19 to 2021-11-26

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DIRECTORY

1. Technical Information 3	;
1.1 Applicant and Manufacturer Information3	ļ
1.2 Equipment under Test (EUT) Description3	,
1.3 Applied Reference Documents 4	ŀ
2. Device Category and RF Exposure Limit 5	,
3. RF Output Power6	,
4. RF Exposure Assessment7	,
Annex A Testing Laboratory Information8	;

Change History				
Version Date Reason for change				
1.0 2021-12-09		First edition		

Shenzhen Morlab Communications Technology Co., Ltd. FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	Anker Innovations Limited		
Applicant Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok,		
Applicant Address:	Kowloon, Hong Kong		
Manufacturer:	Anker Innovations Limited		
Manufacturer Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok,		
Manufacturer Address:	Kowloon, Hong Kong		

1.2 Equipment under Test (EUT) Description

Product Name:	eufyCam 2
Sample No.:	2#
Hardware Version:	T8140-S SC3335 V01
Software Version:	V4.0.6
Modulation Technology:	DSSS, OFDM
Modulation Mode:	802.11b, 802.11g, 802.11n (HT20)
Operating Frequency Range:	2412MHz-2462MHz
Antenna Type:	FPC Antenna
Antenna Gain:	2.62dBi





1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Method determination /Remark
FCC 47CFR 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.



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2. Device Category and RF Exposure Limit

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

Mobile Devices:

47CFR 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 1—Limits 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)			
(1	(B) Limits for General Population/Uncontrolled Exposure						
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. RF Output Power

2.4GHz WLAN					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Power	Duty Cycle %
	CH 1	2412	19.63		
802.11b	CH 7	2442	19.53	20.00	100.00
	CH 13	2472	19.43		
	CH 1	2412	14.93	15.50	95.49
802.11g	CH 7	2442	14.67		
	CH 13	2472	14.54		
902 11p	CH 1	2412	13.67		
802.11n (HT20)	CH 7	2442	13.46	14.00	94.40
(11120)	CH 13	2472	13.28		

Note 1: According to KDB 447498 Section 4.3, 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 output power refers to report (Report No.: SZ21090310W01).



4. RF Exposure Assessment

> Standalone Transmission Assessment:

	Fraguanay	Tung un	Antonno	C I D D	Power	Limit for
Bands	Frequency	Tune-up	Antenna Gain(dBi)	E.I.R.P.	Density	MPE
	(MHz)	Power(dBm)	Gairi(ubi)	(mW)	(mW/cm²)	(mW/cm²)
WLAN 2.4GHz	2412	20.00	2.62	182.81	0.036	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

Power Density = E.I.R.P./ 4π R²

Where: E.I.R.P. = P+G

P = Output Power (dBm) G = Antenna Gain (dBi)

R = Separation Distance (20cm)

> Simultaneous Transmission Assessment:

This device only incorporates a WLAN 2.4G transmitter, therefore simultaneous SAR assessment is not required.

> Conclusion:

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



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Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
	FL.3, Building A, FeiYang Science Park, No.8 LongChang		
Laboratory Address:	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.3, Building A, FeiYang Science Park, No.8 LongChang
Address:	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.

END OF REPORT	

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