

RF EXPOSURE ASSESSMENT REPORT

APPLICANT: Anker Innovations Limited

PRODUCT NAME : Video Baby Monitor 720P

MODEL NAME : T8321-C

BRAND NAME: eufy SECURITY

FCC ID : 2AOKB-T8321C

STANDARD(S) : 47CFR 2.1091

KDB 447498

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Change History				
Version	Date	Reason of Changed		
1.0	2020-05-08	Original		



1. Technical Information

REPORT No.: SZ20020089S01

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

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

1.2 Equipment under Test (EUT) Description

EUT Name:	Video Baby Monitor 720P
Hardware Version:	V01
Software Version:	V3.2
Frequency Bands:	2410 MHz ~ 2477 MHz
Modulation Mode:	FHSS, GFSK
Antenna Type:	PIFA antenna
Antenna Gain:	1.4dBi

1.3 Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title	Method determination /Remark
1	47 CFR§2.1091	Radio Frequency Radiation Exposure Assessment: mobile devices	No deviation
2	KDB 447498 D01v06	General RF Exposure Guidance	No deviation

Note 1: The test item is not applicable.

Note 2: 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.



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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)
(E	B) Limits for General	Population/Uncontro	lled 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

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< Output Power>

Mode	Frequency (MHz)	Average power (dBm)	Duty factor Calculate	
	(MHZ)	3Mbps		
	2410	14.77	17.53	
2410 ~ 2477 MHz	2441.5	14.32	17.08	
	2477	14.03	16.79	
Tune-up Limit		15.00	18.00	
Duty Cycle (%)		52	.94	

Note:

- 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.
- 2. The output power is refer from the report SZ20020089W01.



4. RF Exposure Assessment

Standalone Transmission Assessment:

	Frequency	Maximum	Antenna	EIRP (mW)	Power	Limit for
Bands Frequency (MHz)		Tune-up Power	Gain		Density	MPE
	(dBm)	(dBi)	(11100)	(mW/cm²)	(mW/cm²)	
2410~ 2477 MHz	2410	18.00	1.4	87.096	0.017	1.0

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.

2. MPE calculate method

Power Density = EIRP/ 4π R²

Where: EIRP = P+G

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

R = Separation Distance (20cm)

Simultaneous Transmission Assessment:

This device only incorporates a 2410~ 2477 MHz transmitter, Therefore simultaneous SAR assessment is not required.

> Conclusion:

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





Annex A General Information

1. Identification of the Responsible Testing Laboratory

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Shenzhen Morlab Communications Technology Co., Ltd.				
Morlab Laboratory				
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2. Identification of the Responsible Testing Location

Nama	Shenzhen Morlab Communications Technology Co., Ltd.		
Name:	Morlab Laboratory		
	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road,		
Address:	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 C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



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