



FCC TEST REPORT

FCC ID: 2BMQ4-KB10

Product	:	Baby Camera
Model Name	:	KB10 KB20 KB30 (kit: KB11 KB12 KB13 KB21 KB22 KB23 KB31 KB32 KB33)
Brand	:	N/A
Report No.	:	PTC24111917601E-FC02
Prepared for		
Shenzhen Kesta Technology Co.,Ltd.		
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Prepared by		
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Report No.: PTC24111917601E-FC02

TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Kesta Technology Co.,Ltd.

Address : 1905, Building B, Shum Yip U Centre, Hangcheng Sub-district,
Baoan District, Shenzhen,Guangdong, China

Manufacture's name : Shenzhen Kesta Technology Co.,Ltd.

Address : 1905, Building B, Shum Yip U Centre, Hangcheng Sub-district,
Baoan District, Shenzhen,Guangdong, China

Product name : Baby Camera

Model name : KB10 KB20 KB30
(kit: KB11 KB12 KB13 KB21 KB22 KB23 KB31 KB32 KB33)

Test procedure : FCC CFR47 Part 1.1307(b)(1)

Test Date : Nov.26, 2024 to Dec. 27, 2024

Date of Issue : Dec. 28, 2024

Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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Report No.: PTC24111917601E-FC02

2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Baby Camera
Model Name	:	KB10 KB20 KB30 (kit: KB11 KB12 KB13 KB21 KB22 KB23 KB31 KB32 KB33)
Specification	:	Bluetooth BLE 802.11b/g/n HT20
Operation Frequency	:	2402-2480MHz for BT 2412-2462MHz for 802.11b/g/ n(HT20)
Number of Channel	:	40 channels For DTS 11 channels for 802.11b/g/ n(HT20)
Type of Modulation	:	GFSK, For DTS DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	wire antenna
Antenna Gain	:	2.48 dBi
Power supply	:	DC5V 1.5A via adapter Input 100-240Vac 50/60Hz (Model: TPA-418G050150UU01)
Hardware Version	:	KB10_M02
Software Version	:	V1.0
Test sample No.	:	PTC24111917601E-1/2, PTC24111917601E-2/2
Model difference	:	Only the primary color of the appearance differed.



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

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



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta_\phi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Mode	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
2402(BLE_2 M)	1.77	1.67	1.67±1	1.8493	0.000651	1	Pass
2462(11B)	1.79	15.64	15.64±1	46.1318	0.016471		

Conclusion:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. No simultaneous transmit.

*****THE END REPORT*****