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**IEEE C95.1 2005
KDB 447498 D01 V06
47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091
RF EXPOSURE REPORT**

For

Cubo AI Baby Monitor

Model: Cubo1

Trade Name: Cubo

Issued to

**Yun yun AI Baby camera Co., Ltd.
No.239, Hulin St., Xinyi Dist., Taipei City 110, Taiwan**

Issued by

**Compliance Certification Services Inc.
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)
<http://www.ccsrf.com>
Issued Date: November 15, 2018**

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	November 15, 2018	Initial Issue	ALL	Doris Chu



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1. TEST RESULT CERTIFICATION

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
IEEE C95.1 2005 KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted

Approved by:

Sam Chuang
Manager
Compliance Certification Services Inc.

Reporter:

Doris Chu
Report coordinator
Compliance Certification Services Inc.

2. LIMIT

According to §15.247(i), 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 of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

3. EUT SPECIFICATION

EUT	Cubo AI Baby Monitor																																	
Model	Cubo1																																	
Trade Name	Cubo																																	
Model Discrepancy	N/A																																	
Frequency band (Operating)	☒ IEEE 802.11b/g/n HT20: 2.412GHz ~ 2.462GHz IEEE 802.11n HT40: 2.422GHz ~ 2.452GHz IEEE 802.11a/n HT20: 5180MHz ~ 5240MHz / 5745MHz ~ 5825MHz IEEE 802.11n HT40: 5190MHz ~ 5230MHz / 5755MHz ~ 5795MHz IEEE 802.11ac VHT80: 5210MHz / 5775MHz ☐ Others																																	
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others																																	
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm ²) ☒ General Population/Uncontrolled exposure (S=1mW/cm ²)																																	
Antenna Specification	2.4GHz: Antenna Type: FPC Antenna <table border="1"> <thead> <tr> <th>No.</th><th>Brand name</th><th>Model no.</th><th>Length of antenna cable</th><th>Peak Gain (dBi)</th></tr> </thead> <tbody> <tr> <td>1</td><td>LB-LINK</td><td>FDG3L60IB</td><td>60mm</td><td>2.5</td></tr> <tr> <td>2</td><td>LB-LINK</td><td>FDG3L60IB</td><td>60mm</td><td>2.5</td></tr> </tbody> </table> Power Directional Gain: 2.5 5GHz: Antenna Type: FPC Antenna <table border="1"> <thead> <tr> <th>No.</th><th>Brand name</th><th>Model no.</th><th>Length of antenna cable</th><th>Peak Gain (dBi)</th></tr> </thead> <tbody> <tr> <td>1</td><td>LB-LINK</td><td>FDG3L60IB</td><td>60mm</td><td>3</td></tr> <tr> <td>2</td><td>LB-LINK</td><td>FDG3L60IB</td><td>60mm</td><td>3</td></tr> </tbody> </table> Power Directional Gain: 3 2.4GHz: Antenna Gain : 2.50 dBi (Numeric gain 1.78) 5GHz: Antenna Gain : 3.00 dBi (Numeric gain 2.00)				No.	Brand name	Model no.	Length of antenna cable	Peak Gain (dBi)	1	LB-LINK	FDG3L60IB	60mm	2.5	2	LB-LINK	FDG3L60IB	60mm	2.5	No.	Brand name	Model no.	Length of antenna cable	Peak Gain (dBi)	1	LB-LINK	FDG3L60IB	60mm	3	2	LB-LINK	FDG3L60IB	60mm	3
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2	LB-LINK	FDG3L60IB	60mm	3																														



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Max tune up Power	2.4GHz:		
	IEEE 802.11b Mode:	20.00 dBm	(100.000 mW)
	IEEE 802.11g Mode:	21.50 dBm	(141.254 mW)
	IEEE 802.11n HT 20 Mode:	25.50 dBm	(354.813 mW)
	IEEE 802.11n HT 40 Mode:	24.50 dBm	(281.838 mW)
	5GHz:		
	IEEE 802.11a Mode:	20.00 dBm	(100.000 mW)
	IEEE 802.11n HT 20 Mode:	22.50 dBm	(177.828 mW)
	IEEE 802.11n HT 40 Mode:	22.00 dBm	(158.489 mW)
	IEEE 802.11ac VHT 80 Mode:	29.00 dBm	(794.328 mW)
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A		

4. TEST RESULTS

No non-compliance noted.

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using $d = 20$ cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

2.4GHz:

IEEE 802.11b mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
6	2437	100.000	1.78	20	0.0354	1

IEEE 802.11g mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
6	2437	141.254	1.78	20	0.0500	1

IEEE 802.11n HT20 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
6	2437	354.813	1.78	20	0.1257	1

IEEE 802.11n HT40 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
6	2437	281.838	1.78	20	0.0998	1



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5GHz:

IEEE 802.11 a mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
165	5825	100.000	2.00	20	0.0398	1

IEEE 802.11 n HT20 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
165	5825	177.828	2.00	20	0.0708	1

IEEE 802.11 n HT40 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
151	5755	158.489	2.00	20	0.0631	1

IEEE 802.11 ac VHT80:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
155	5775	794.328	2.00	20	0.3161	1

--End of Report--