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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<br>KDB 447498 D03<br>47 C.F.R. Part 1, Subpart I, Section 1.1310<br>47 C.F.R. Part 2, Subpart J, Section 2.1091 | No non-compliance noted |

Approved by:

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Sam Chuang  
Manager  
Compliance Certification Services Inc.

Reporter:

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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

| <b>EUT</b>                        | Cubo AI Baby Monitor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                         |                 |     |            |           |                         |                 |   |         |           |      |     |   |         |           |      |     |     |            |           |                         |                 |   |         |           |      |   |   |         |           |      |   |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|-----------------|-----|------------|-----------|-------------------------|-----------------|---|---------|-----------|------|-----|---|---------|-----------|------|-----|-----|------------|-----------|-------------------------|-----------------|---|---------|-----------|------|---|---|---------|-----------|------|---|
| <b>Model</b>                      | Cubo1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                         |                 |     |            |           |                         |                 |   |         |           |      |     |   |         |           |      |     |     |            |           |                         |                 |   |         |           |      |   |   |         |           |      |   |
| <b>Trade Name</b>                 | Cubo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                         |                 |     |            |           |                         |                 |   |         |           |      |     |   |         |           |      |     |     |            |           |                         |                 |   |         |           |      |   |   |         |           |      |   |
| <b>Model Discrepancy</b>          | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                         |                 |     |            |           |                         |                 |   |         |           |      |     |   |         |           |      |     |     |            |           |                         |                 |   |         |           |      |   |   |         |           |      |   |
| <b>Frequency band (Operating)</b> | <input checked="" type="checkbox"/> IEEE 802.11b/g/n HT20: 2.412GHz ~ 2.462GHz<br>IEEE 802.11n HT40: 2.422GHz ~ 2.452GHz<br>IEEE 802.11a/n HT20: 5180MHz ~ 5240MHz / 5745MHz ~ 5825MHz<br>IEEE 802.11n HT40: 5190MHz ~ 5230MHz / 5755MHz ~ 5795MHz<br>IEEE 802.11ac VHT80: 5210MHz / 5775MHz<br><input type="checkbox"/> Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                         |                 |     |            |           |                         |                 |   |         |           |      |     |   |         |           |      |     |     |            |           |                         |                 |   |         |           |      |   |   |         |           |      |   |
| <b>Device category</b>            | <input type="checkbox"/> Portable (<20cm separation)<br><input checked="" type="checkbox"/> Mobile (>20cm separation)<br><input type="checkbox"/> Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                         |                 |     |            |           |                         |                 |   |         |           |      |     |   |         |           |      |     |     |            |           |                         |                 |   |         |           |      |   |   |         |           |      |   |
| <b>Exposure classification</b>    | <input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm <sup>2</sup> )<br><input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                         |                 |     |            |           |                         |                 |   |         |           |      |     |   |         |           |      |     |     |            |           |                         |                 |   |         |           |      |   |   |         |           |      |   |
| <b>Antenna Specification</b>      | <p><b>2.4GHz:</b><br/>Antenna Type: FPC Antenna</p> <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> <p>Power Directional Gain: 2.5</p> <p><b>5GHz:</b><br/>Antenna Type: FPC Antenna</p> <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> <p>Power Directional Gain: 3</p> <p>2.4GHz:      Antenna Gain :      2.50 dBi (Numeric gain 1.78)<br/> 5GHz:         Antenna Gain :      3.00 dBi (Numeric gain 2.00)</p> |           |                         |                 | 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 |
| 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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|                    |                                                                                                                                |           |              |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|
| Max tune up Power  | <b>2.4GHz:</b>                                                                                                                 |           |              |
|                    | 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) |
|                    | <b>5GHz:</b>                                                                                                                   |           |              |
|                    | 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 | <input checked="" type="checkbox"/> MPE Evaluation*<br><input type="checkbox"/> SAR Evaluation<br><input type="checkbox"/> 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 / cm<sup>2</sup>

## 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 / cm<sup>2</sup>

### 2.4GHz:

#### IEEE 802.11b mode:

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

**--End of Report--**