

Masterwork Aoitek Tech Corp Ltd  
11F.-3, No.3, Park St., Nangang Dist., Taipei City 115, Taiwan

Federal Communications Commission  
Authorization and Evaluation Division  
Equipment Authorization Branch  
7435 Oakland Mills Road  
Columbia, MD 21046

### **Applicant's declaration concerning RF Radiation Exposure**

We hereby indicate that the product  
Product description: Lollipop Pro Baby Camera  
Model No: CABC-LOL03

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The integral antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter within the host device.

A safety statement concerning minimum separation distances from enclosure of the Product: Lollipop Pro Baby Camera will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

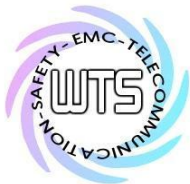
The appropriate information can be drawn from the test report no: W6M22003-19765-C-1, W6M22003-19765-C-54 and the accompanying calculations.

Company: Masterwork Aoitek Tech Corp Ltd.  
Address: 11F.-3, No.3, Park St., Nangang Dist., Taipei City 115, Taiwan

Date: 2020/04/29

Signature

Poxu Chen



Registration number: W6M22003-19765-C-1  
 FCC ID: 2AE92CABC-LOL03

## 3.2 Equivalent Isotropic Radiated Power (EIRP)

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

WLAN

$$\text{EIRP} = 13.26 \text{ dBm} + (-1.15 \text{ dBi [antenna gain claimed by manufacturer]}) = 12.11 \text{ dBm} = 16.2555 \text{ mW}$$

BLE

$$\text{EIRP} = 8.52 \text{ dBm} + (-1.15 \text{ dBi [antenna gain claimed by manufacturer]}) = 7.37 \text{ dBm} = 5.4576 \text{ mW}$$

## 3.3 Exemption Limits for Routine Evaluation according to

### 47 CFR FCC Part 2 Subpart J, section 2.1091

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

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 20 cm normally can be maintained between the user and the device.

## MPE Calculation Method

### (A) Limits for Occupational/Controlled Exposure

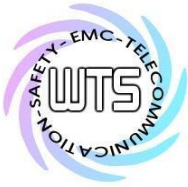
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

### (B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	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



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E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)  
d = Separation distance between radiator and human body (m)

The formula can be changed to  $Pd \cdot \frac{30 \times P \times G}{377 \times d^2}$  mW/cm<sup>2</sup>.

Established separation distance is 20 cm.

## WLAN

Operating frequency band : 2412-2462 MHz

The product meets RF exposure requirement.

Because the power density of 0.0032 mW/cm<sup>2</sup> at 2412 MHz is below the power density limit of 1 mW/cm<sup>2</sup>.

## BLE

Operating frequency band : 2402-2480 MHz

The product meets RF exposure requirement.

Because the power density of 0.0011 mW/cm<sup>2</sup> at 2402 MHz is below the power density limit of 1 mW/cm<sup>2</sup>.



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### **3.6 Automatic Discontinuation of transmission, FCC 15.407 (c)**

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

This function will be declared by manufacturer.

### **3.7 Reserved, FCC 15.407 (d)**

### **3.8 Indoor Operation Restriction, FCC 15.407 (e)**

Within the 5.15–5.25 GHz band, U- NII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations. This equipment has to be declared by manufacturer of the final product as content of the user manual.

### **3.9 Equivalent Isotropic Radiated Power (EIRP), FCC 15.407 (f)**

Band 1

EIRP = max. conducted output power + antenna gain

EIRP = 11.06 dBm + (-1.41 dBi [antenna gain claimed by manufacturer]) = 9.65 dBm = 9.2257 mW

Band 4

EIRP = max. conducted output power + antenna gain

EIRP = 10.66 dBm + (-1.10 dBi [antenna gain claimed by manufacturer]) = 9.56 dBm = 9.0365 mW

Test equipment used: ETSTW-RE 055



Registration number: W6M22003-19765-C-54  
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**3.10 Exemption Limits for Routine Evaluation according to  
 47 CFR FCC Part 2 Subpart J, section 2.1091**

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

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 20 cm normally can be maintained between the user and the device.

**(A) Limits for Occupational/Controlled Exposure**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time ( E  <sup>2</sup> ,  H  <sup>2</sup> or S) (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	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 (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time ( E  <sup>2</sup> ,  H  <sup>2</sup> or S) (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

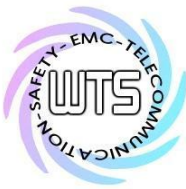
f = frequency in MHz

\*Plane-wave equivalent power density

E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)  
 d = Separation distance between radiator and human body (m)

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

The formula can be changed to mW/m<sup>2</sup>.



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**Band 1**

Established separation distance is 20 cm.

Operating frequency band: 5180-5240 MHz

The product meets RF exposure requirement.

Because the power density of  $0.0018 \text{ mW/cm}^2$  at 5240 MHz is below the power density limit of  $1 \text{ mW/cm}^2$ .

**Band 4**

Established separation distance is 20 cm.

Operating frequency band: 5745-5825 MHz

The product meets RF exposure requirement.

Because the power density of  $0.0018 \text{ mW/cm}^2$  at 5745 MHz is below the power density limit of  $1 \text{ mW/cm}^2$ .