

## RF Exposure Report

**Report No.:** MFBAOZ-WTW-P22040585

**FCC ID:** 2AUIUWYZECOP

**Test Model:** WYZECOP

**Received Date:** 2022/4/19

**Test Date:** 2022/6/20

**Issued Date:** 2022/12/26

**Applicant:** Wyze Labs, Inc

**Address:** 5808 Lake Washington Blvd NE, Ste 300 Kirkland WA United States Of America

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

**FCC Registration / Designation Number:** 723255 / TW2022



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### Release Control Record


Issue No.	Description	Date Issued
MFBAOZ-WTW-P22040585	Original release.	2022/12/26

## 1 Certificate of Conformity

**Product:** Wyze Battery Cam Pro  
**Brand:** WYZE  
**Test Model:** WYZECOP  
**Sample Status:** Engineering sample  
**Applicant:** Wyze Labs, Inc  
**Test Date:** 2022/6/20  
**Standards:** FCC Part 2 (Section 2.1091)  
KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :** Vivian Huang , **Date:** 2022/12/26  
Vivian Huang / Specialist

**Approved by :**  , **Date:** 2022/12/26  
May Chen / Manager

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
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

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20 cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 2.4 Antenna Gain

Antenna No.	Antenna Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (cm)
1	2.43	2.4~2.4835	Dipole	ipex(MHF)	4
	3.48	5.15~5.85			
2	2	24~24.25	Array	None	-

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## 2.5 Calculation Result

Operation Mode	Evaluation Frequency (MHz)	Max. Average Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Pass/ Fail
WLAN 2.4GHz	2412-2462	283.792	2.43	20	0.09879	1	Pass
WLAN 5GHz (U-NII-1)	5180-5240	173.38	3.48	20	0.07687	1	Pass
WLAN 5GHz (U-NII-2A)	5260-5320	196.336	3.48	20	0.08704	1	Pass
WLAN 5GHz (U-NII-2C)	5500-5700	197.697	3.48	20	0.08765	1	Pass
WLAN 5GHz (U-NII-3)	5745-5825	110.408	3.48	20	0.04895	1	Pass
Bluetooth	2402-2480	7.129	2.43	20	0.00248	1	Pass

Operation Mode	Evaluation Frequency (MHz)	Max EIRP Power (dBm)	Max EIRP Power (mW)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
24GHz	24148	-3.26	0.4721	20	0.00009	1	Pass

### Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- Calculate the EIRP from the radiated field strength:
  - EIRP (dBm) = Radiated field strength (dBuV/m) + 20\*Log(d) -104.7
  - d is the measurement distance, in m
  - EIRP = 91.9 + 20\*Log(3) -104.7 = -3.26 dBm

### Conclusion:

The formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$\text{WLAN 2.4GHz} + 24\text{GHz} = 0.09879 / 1 + 0.00009 / 1 = 0.09888$$

$$\text{WLAN 5GHz} + 24\text{GHz} = 0.08765 / 1 + 0.00009 / 1 = 0.08774$$

$$\text{Bluetooth} + 24\text{GHz} = 0.00248 / 1 + 0.00009 / 1 = 0.00257$$

**Therefore the maximum calculations of above situations are less than the "1" limit.**

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