

## **MPE Test Report**

Report No.: AAOG-ESH-P21031918B-3

FCC ID: 2ABEU-YLDP007

**Product:** Smart LED Bulb W3(Dimmable)

Model: YLDP007

Received Date: Mar.25, 2021

Test Date: Apr.10 to Apr.17, 2021

Issued Date: Apr.23.2021

Applicant: Qingdao Yeelink Information Technology Co., Ltd.

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Manufacturer: Qingdao Yeelink Information Technology Co., Ltd.

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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### **Release Control Record**

Issue No.	Description	Date Issued
AAOG-ESH-P21031918B-3	Original release	Apr.23, 2021



### 1 Certificate of Conformity

Product: Smart LED Bulb W3(Dimmable)

Brand: YEELIGHT

Model: YLDP007

Applicant: Qingdao Yeelink Information Technology Co., Ltd.

Test Date: Apr.10 to Apr.17, 2021

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Yuam Thomas

ANSI C63.10:2013

The above equipment has been tested by **BUREAU VERITAS ADT** (Shanghai) Corporation, 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.

-	Yuan ZHANG Project Engineer	_		
	Project Engineer			
Approved by :	Daniel SUN  EMC Lab Manager	, Date: — —	Apr.23, 2021	

Prepared by:

Apr.23, 2021

, Date:



# 2 General Information

# 2.1 General Description of EUT

Product	Smart LED Bulb W3(Dimmable)		
Brand	YEELIGHT		
Test Model	YLDP007		
Model Difference			
Power Rating	AC 120V, 60Hz; 8W		
Modulation Type	CCK, DQPSK, DBPSK for DSSS		
Woddiation Type	64QAM, 16QAM, QPSK, BPSK for OFDM		
Modulation Technology	DSSS, OFDM		
Operating Frequency	2412MHz-2462MHz		
Number of Channel	802.11b, 802.11g and 802.11n (HT20):11		
Antenna Type	PCB Antenna		
Antenna Connector			
Antenna Gain	2dBi		

### Note:

1. For more details, please refer to the User's manual of the EUT.



### 3 RF Exposure

### 3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (minutes)	
Limits For General Population / Uncontrolled Exposure					
300-1,500	-	-	F/1500	30	
1,500-100,000	-	-	1.0	30	

F = Frequency in MHz

#### 3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

 $S = PG / (4\pi R^2)$ 

Where  $S = power density in mW/cm^2$ 

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

### 3.3 MPE Calculation Formula

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

#### 3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
WLAN 2.4GHz					
2412-2462	17.55	2	20	0.017945285	1

#### **Conclusion:**

The calculation result of MPE is less than the limit.

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