



MPE Test Report

Report No.: AAOG-ESH-P21092087B-2

FCC ID: 2ABEU-PLYTD-0003

Product: Yeelight LED Screen Light Bar Pro

Model: PLYTD-0003

Received Date: Sep.27, 2021

Test Date: Sep.28 to Nov.24, 2021

Issued Date: Nov.25, 2021

Applicant: Qingdao Yeelink Information Technology Co., Ltd.

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Manufacturer: Qingdao Yeelink Information Technology Co., Ltd.

Address: F10-B4, Building B, International Innovation Park, 1# Keyuan Weiyi Road, Laoshan, Qingdao, Shandong, China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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**FCC Registration /
Designation Number:** 176467/ CN1213



Test Lab
Cert 2343.01

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Release Control Record

Issue No.	Description	Date Issued
AAOG-ESH-P21092087B-2	Original release	Nov.25, 2021

1 Certificate of Conformity

Product: Yeelight LED Screen Light Bar Pro

Brand: YEELIGHT

Model: YLYTD-0003

Applicant: Qingdao Yeelink Information Technology Co., Ltd.

Test Date: Sep.28 to Nov.24, 2021

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.1- 1992

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.

Prepared by :



, **Date:**

Nov.25, 2021

Yuan ZHANG

Project Engineer

Approved by :



, **Date:**

Nov.25, 2021

Daniel SUN

EMC Lab Manager

2 General Information

2.1 General Description of EUT

Product	Yeelight LED Screen Light Bar Pro
Brand	YEELIGHT
Test Model	YLYTD-0003
Model Difference	--
Power Rating	100-240V~, 50/60Hz for LED driver 5V ---2A for Light Bar
Modulation Type	CCK, DQPSK, DBPSK for DSSS 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	1dBi

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/cm ²)	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/cm²

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/cm ²)	Limit (mW/cm ²)
WLAN 2.4GHz					
2412-2462	16.00	1	20	0.00997586	1

Conclusion:

The calculation result of MPE is less than the limit.

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