

RADIO TEST REPORT

Report No: STS2111195H03

Issued for

GODOX PHOTO EQUIPMENT CO.LTD

1st to 4th Floor, Building 2/1st to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China

Product Name:	Litemons LED Light	
Brand Name:	Godox, LITEMONS	
Model Name:	LA200D	
Series Model:	LA150D	
FCC ID:	2ABYN045	
Test Standard:	FCC 47CFR §2.1091	

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Test Report Certification

Applicant's Name...... GODOX PHOTO EQUIPMENT CO.LTD

Address..... 1st to 4th Floor, Building 2/1st to 4th Floor, Building 4 , Yaochuan

Industrial Zone, Tangwei Community, Fuhai Street, Baoan District,

Shenzhen, 518103 China

Manufacturer's Name: GODOX Photo Equipment Co.,Ltd.

Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone,

Tangwei Community, Fuhai Street, Bao'an District, Shenzhen

518103, China

Product Description

Product Name.....: Litemons LED Light

Brand Name: Godox, LITEMONS

Model Name :... LA200D

Series Model....: LA150D

Standards FCC 47CFR §2.1091

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Date of Test

Date of receipt of test item 03 Dec. 2021

Date of Issue 15 Dec. 2021

Test Result...... Pass

Testing Engineer

(Chris Chen)

Technical Manager

Jen she

(Sean she)

Authorized Signatory:

(Vita Li)







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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	15 Dec. 2021	STS2111195H03	ALL	Initial Issue





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Litemons LED Light		
Brand Name	Godox, LITEMONS		
Model Name	LA200D		
Series Model	LA150D		
Model Difference	The adapter is different from the lamp bead		
Product Description	The EUT is Litemons LED Light Operation Frequency: Modulation Type: GFSK Antenna gain: Antenna Designation: PCB Antenna PCB Antenna		
Adapter	Adapter for LA150D Model: KT360A4800416B3 Input: 100-240V~50/60Hz 5A Output: 48.0V = = 4.16A 199.68W Adapter for LA200D Model: KT360A4800520B3 Input: 100-240V~50/60Hz 5A Output: 48.0V = = 5.2A 249.6W		
Hardware version number	20211103W01		
Software version number	V1.0		

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,

Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density		
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)		
Limits for Occupational	/ controlled Exposures				
300 - 1500			F/300		
1500 – 100000			5.0		
Limits for General population / Uncontrolled Exposure					
300 - 1500			F/1500		
1500 – 100000			1.0		

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $Pd = (Pout * G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



2.5 TEST RESULT

Turn up

Mode	Detector	Turn up Power
GFSK	AV	2±1dBm

ANT Gain (G)

2402-2483.5MHz: 1.74dBi (gain of antenna in linear scale=1.493)

Protocol	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain(gain of antenna in linear scale)	Power Density (mW/cm²)	Limit (mW/c m²)	Ratio	Result
GFSK	3	1.9953	1.493	0.0006	1	0.006	Pass

*****END OF THE REPORT***