





RADIO TEST REPORT

Report No: STS2107201H02

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:	Waterproof LED Light			
Brand Name:	Godox			
Model Name:	WL8P			
Series Model:	N/A			
FCC ID:	2ABYN039			
Test Standard:	: FCC 47CFR §2.1093			

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APPROVAL

Shenzhen STS Test Services Co., Ltd.
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Test Report Certification

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

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: Waterproof LED Light

Brand Name Godox

Model Name WL8P

Series Model N/A

Standards FCC 47CFR §2.1093

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Date of Test

Date of receipt of test item..... 27 July 2021

Date (s) of performance of tests 27 July 2021 ~ 14 Sept. 2021

Date of Issue 14 Sept. 2021

Test Result......Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

Authorized Signatory:

(Sean she)

ean She

(Vita Li)







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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	14 Sept. 2021 STS2107201H02		ALL	Initial Issue





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Waterproof LED Light			
Brand Name	Godox			
Model Name	WL8P			
Series Model	N/A			
Model Difference	N/A			
Product Description	The EUT is Waterproof LED Light Operation Frequency: Modulation Type: GFSK Antenna gain: OdBi Antenna Designation: PCB			
Rating	Input: Charge By Type-C USB cable DC 5V,2A			
Battery	Rated Voltage: 3.7V Charge Limit Voltage: 4.28V Capacity: 2900mAh			
Hardware version number	20210503S10			
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 §2.1093 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 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

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	24B.T.
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	CART
1500	73	86	98	110	122	SAR Test Exclusion
1900	65	76	87	98	109	Threshold (mW)
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	



The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,where f(GHz) is the RF channel transmit frequency in GHz.

Power and distance are rounded to the nearest mW and mm before calculation The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.





2.3 TEST RESULT

Maximum measured transmitter power.

BLE The Worst Case

Mode	frequency	Maximum AV Output Power Tune up tolera		Max Tune up
Mode	GHz	dBm	dBm	dBm
GFSK	2402	-0.86	-1±1	0

Remark: The worst case gain of the antenna is 0dBi. 0dBi logarithmic terms convert to numeric result is nearly 1

Maximum Tune up Power₍₂₄₀₂₎= 1mw

[(GFSK power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] \cdot [$\sqrt{f(GHz)}$]= $1/5^*\sqrt{2402}$ =0.309≤3.0

Threshold at which no SAR required is 0.309≤ 3.0 for 1-g SAR, Separation distance ≤ 5mm.

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