

Report No.: SZEM210100093603

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## **SAR Evaluation Report**

Application No.: SZEM2101000936CR

**Applicant:** Godox Photo Equipment Co., Ltd.

**Address of Applicant:** 1st to 4th Floor, Building 2/1st to 4th Floor of Building 4, Yaochuan Industrial

Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,

China

**Manufacturer:** Godox Photo Equipment Co., Ltd.

Address of Manufacturer: 1st to 4th Floor, Building 2/1st to 4th Floor of Building 4, Yaochuan Industrial

Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,

China

**Factory:** Godox Photo Equipment Co., Ltd.

**Address of Factory:** 1st to 4th Floor, Building 2/1st to 4th Floor of Building 4, Yaochuan Industrial

Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,

China

**Equipment Under Test (EUT):** 

**EUT Name:** Focusing LED Light Model No.: S60(SC60 for control unit)

Trade mark: Godox FCC ID: 2ABYN022

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

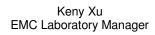
KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2021-01-21

**Date of Test:** 2021-04-09 to 2021-04-24

**Date of Issue:** 2021-05-27

Test Result : PASS\*





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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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## 2 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2021-05-27		Original		

Authorized for issue by:			
	Jowell Bas		
	Powell Bao/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	-	



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### 4 General Information

## 4.1 General Description of EUT

Power supply:	Input: AC 100-240V 50/60Hz 0.9A Max Output: DC 36V 2.0A Connect cable: 295cm unshielded
Cable(s):	AC cable: 485cm unshielded DC cable: 355cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	5.0 BLE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral
Antenna Gain:	1.74dBi



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### 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

### 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.4 Deviation from Standards

None.

#### 4.5 Abnormalities from Standard Conditions

None

### 4.6 Other Information Requested by the Customer

None.



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#### SAR Evaluation 5

## 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-q extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### **5.1.2 Limits**

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)] ·  $[\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) i 6.28 dBm on the middle channe 2.44 GHz (\*) 6.28 dBm logarithmic terms convert to numeric result is nearly 4.25 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm) [Vf(GHz)] General RF Exposure = (4.25 mW / 5 mm)  $x \sqrt{2.44}$  GHz = 1.33

(1)

SAR requirement:

S = 3.0(2)

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM210100093602

- End of the Report -



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