RF Exposure Evaluation Report

Product	:	LED Video Light
Trade mark	:	Godox
Model/Type reference	:	VL150, VLC150
Serial Number	:	N/A
Report Number	:	EED32M00004502
FCC ID	:	2ABYN003
Date of Issue	:	May 29, 2020
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Test result	:	PASS

Prepared for:

Godox Photo Equipment Co., Ltd .
1st to 4th Floor, Building 2/lst to 4th Floor, Building 4,
Yaochuan Industrial Zone, Tangwei Community,
Fuhai Street, Baoan District, Shenzhen, China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Tested By:	mark. chen.	Compiled by:	Sunlight Sun
	Mark Chen		Sunlight Sun
Reviewed by:	Ware Xin	Approved by:	Sam Chuang
	Ware Xin		Sam Chuang
Date:	May 29, 2020		Check No.:2447612317

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2 Version

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4 General Information

4.1 Client Information

Applicant:	Godox Photo Equipment Co., Ltd .
Address of Applicant:	1st to 4th Floor, Building 2/lst to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, China
Manufacturer:	Godox Photo Equipment Co., Ltd .
Address of Manufacturer:	1st to 4th Floor, Building 2/lst to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, China
Factory:	Godox Photo Equipment Co., Ltd .
Address of Factory:	1st to 4th Floor, Building 2/lst to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, China

4.2 General Description of EUT

Product Name:	LED Video Light
Model No.(EUT):	VL150, VLC150
Test Model No:	VL150
Trade Mark:	Godox
EUT Supports Radios application:	BT 4.1 Single mode, 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	Setup_SmartRF_Studio_7-2.6.1.exe	
Antenna Type:	external whip antenna	
Antenna Gain:	5 dBi	
Power Supply:	Adapter	Input:AC100V-240V(50/60HZ)/2A Output:DC16.8V 10A
	Lithium Battery	DC14.4V
Max Conducted Peak Output Power:	-3.363 dBm	
	The Max Conducted Peak Output Power data refer to the report EED32M00004501	
Sample Received Date:	Jan. 06, 2020	
Sample tested Date:	Jan. 06, 2020 to Apr. 01, 2020	

The tested sample(s) and the sample information are provided by the client.

Model No.:VL150, VLC150

Only the model VL150 was tested, The product model of our LED video light/ LED Video Light is: VL150.

Because the product can be divided into three parts: LED light, control box and adapter, the separate model of the control box is: VLC150, in which the Bluetooth wireless module of the product is embedded in the control box VLC150.

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g 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)] · [√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[17]

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 tune-up power is -5 dBm +/- 2dB, therefore the highest tune-up power is

-3.0 dBm	(0.50 mW)	@ 2402 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

(	0.50mW	/	5mm	) * (	2.402GHz	^0.5	)=	0.2

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [√f(GHz)] = 0.2< 3.0

Therefore, standalone SAR measurements are not required for both head and body

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00004501 for EUT external and internal photos.

*** End of Report ***

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