

Page 1 of 8

RF Exposure Evaluation Report

Product

: LED Video Light

VL150, VLC150

Godox

Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue Test Standards

N/A
EED32M00004502
2ABYN003
May 29, 2020
47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
PASS

Test result

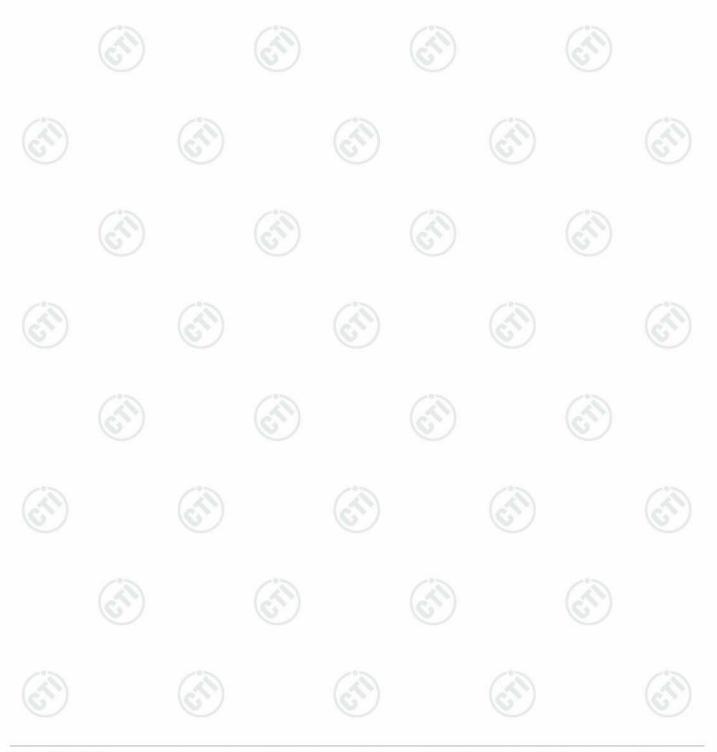




2 Version

Page 2 of 8

	Version No.	Date	0	Description	
	00	May 29, 2020		Original	
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	Report No. : EED32M00004502				Page	Page 3 of 8	
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Page 4 of 8

Report No. : EED32M00004502

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	100	13
Model No.(EUT):	VL150, VLC150	(25°)	(a^{γ})
Test Model No:	VL150		J
Trade Mark:	Godox		
EUT Supports Radios application:	BT 4.1 Single mode, 2402MHz to 248	30MHz	

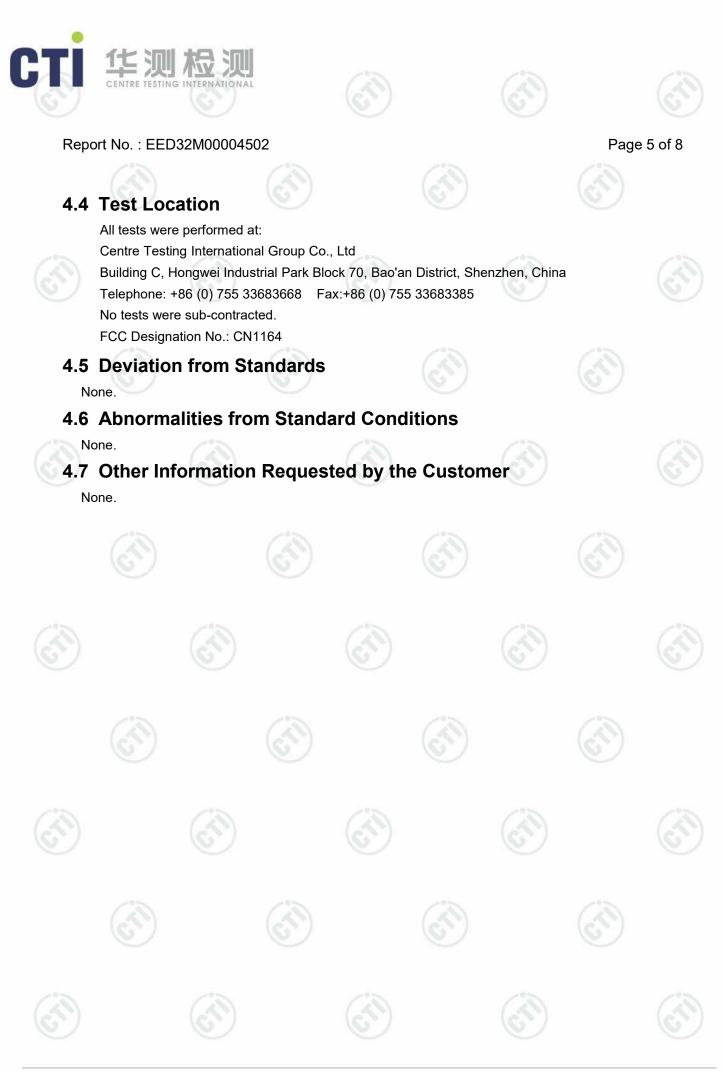
4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480	MHz		
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		
Mary Care durate d Da als Outrast	-3.363 dBm			
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32M00004501			
Sample Received Date:	Jan. 06, 2020 🤇		6)	
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.





Page 6 of 8

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 \leq 50 mm are determined by:

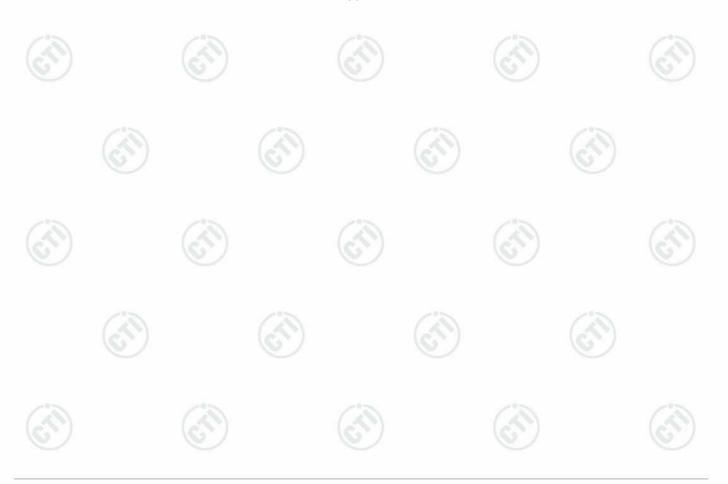
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]

[√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 calculation¹⁷

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 \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





Page 7 of 8

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

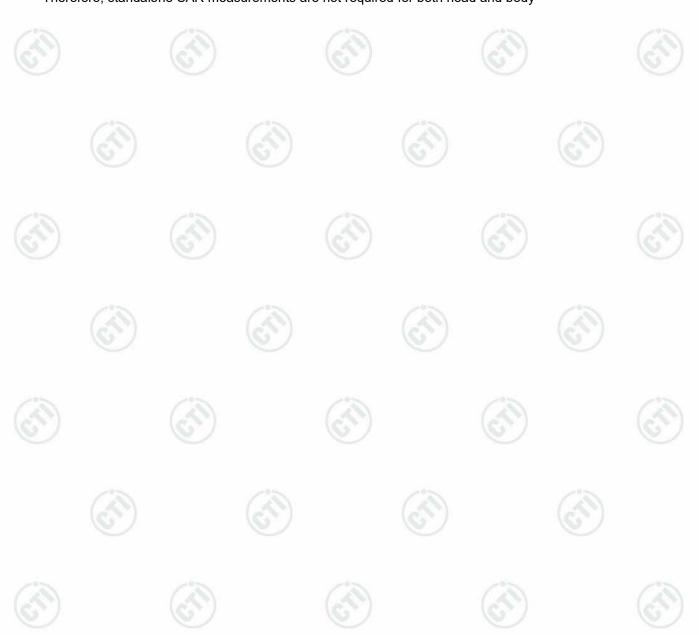
When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

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

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

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





Page 8 of 8

PHOTOGRAPHS OF EUT Constructional Details

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

*** End of Report *** The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.