# **Radio Test Report**

Report No.: CTA231120009H01

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

CTA TESTING TTL Li-ion Round Head Camera Flash **Product Name:** 

> **Brand Name:** Godox

Model Name: V1Pro C

V1Pro N, V1Pro S, V1Pro F, V1Pro O, Series Model(s):

V1Pro P

**2ABYN013** 

Test Standards: FCC 47CFR §2.1093

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### **TEST REPORT**

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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.
Address:	4th Floor of Building 1, 1st to 4 th Floor of Building 2, 4th Floor of 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:	TTL Li-ion Round Head Camera Flash
Brand Name:	Godox
Model Name:	V1Pro C
	V1Pro N, V1Pro S, V1Pro F, V1Pro O, V1Pro P
Test Standards:	FCC 47CFR §2.1093
only be altered or revised by CTA	447498 D04 Interim General RF Exposure Guidance v01 ed except in full, without the written approval of STS, this document a, personal only, and shall be noted in the revision of the document.
Date of Test	
Date of receipt of test item	
	: 25 Oct. 2023 ~ 31 Oct. 2023
Date of Issue	: 31 Oct. 2023
Test Result	: 31 Oct. 2023 : <b>Pass</b>
To ation Finalis	Zoon Can

resung Engineer :	700 000	
TATESTING	(Zoey Cao)	<del></del>
Technical Manager :	Anny Won	CTA TESTING
·	(Amy Wen)	CIA
Authorized Signatory :	Evic Wang	
110	(Eric Wang)	

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### **Revision History**

	Revision History		
ev. Issue Date	Report No.	Effect Page	Contents
00 31 Oct. 2023	CTA231120009H01	ALL	Initial Issue
	9	60	A

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### 1. GENERAL INFORMATION

Product Name	TTL Li-ion Round Head Camera Flash
Brand Name	Godox
Model Name	V1Pro C
Series Model(s)	V1Pro N, V1Pro S, V1Pro F, V1Pro O, V1Pro P
Model Difference	Only different in model name
	The EUT is TTL Li-ion Round Head Camera Flash Operation 2412.99MHz –2464.49MHz
Product Description	Frequency:
	Antenna gain: 0dBi
	Antenna Designation: PCB Antenna
Rating	Input: Battery: 7.2V
Hardware Version	20220805L04
Software Version	V1.0
Z.	CTA TESTING

#### 1.2 TEST FACTORY

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District,

Shenzhen, China

FCC test Firm Registration Number: 517856

IC test Firm Registration Number: 27890

A2LA Certificate No.: 6534.01

IC CAB ID: CN0127

### Report No.: CTA231120009H01

### 2. FCC 47CFR §2.1093 REQUIREMENT

#### 2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

#### 2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and  $f$  is in GHz

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

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(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)	]
0.3-1.34	1,920 R <sup>2</sup> .	
1.34-30	3,450 R <sup>2</sup> /f <sup>2</sup> .	TING
30-300	3.83 R <sup>2</sup> .	ES
300-1,500	0.0128 R <sup>2</sup> f.	
1,500-100,000	19.2R <sup>2</sup> .	
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For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least  $\lambda/2\pi$  according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.

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#### 2.3 TEST RESULT

#### Turn up

EST RESULT		
Mode	Detector	Turn up Power
2.4G	AV	-2±1dBm

	2.4G			AV	8	-2:	±1dBm		
ESTING	į	Separa	ANT	Max	Maximum	Max		(6	
Protocol	Fre. (GHz)	tion distanc e (cm)	Gain ( dBi)	EIRP (dBm)	time-aver aged power (mW)	EIRP (mW)	Limit (mW)	Ratio	Result
2.4G	2.412999634	0.5	0	-1	0.79433	0.79433	2.77748	0.28599	Pass

2. The Maxinum power is less than the limit, complies with the exemption requirements.

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