Radio Test Report

Report No.:CTA231120010H02

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: TTL Wireless Flash Trigger

Brand Name: 6000X

Model Name: X nano C

Series Model(s): X nano N, X nano S, X nano F, X nano O,

X nano P

FCC ID: 2ABYN106

Test Standards: FCC 47CFR §2.1093

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Page 2 of 10 Report No.: CTA231120010H02

TEST REPORT

	Applicant's Name:	GODOX PI	HOTO EQUIPMENT CO.,LTD
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	Manufacturer's Name:	GODOX F	Photo Equipment Co.,Ltd.
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CTA.	Product Description		
Ĩ	Product Name:	TTL Wirele	ess Flash Trigger
	Brand Name:	Gode	OX TESTING
	Model Name:	X nano C	
			, X nano S, X nano F, X nano O, X nano P
	Test Standards:	FCC 47Cl	FR §2.1093 004 Interim General RF Exposure Guidance v01
		ed except in	on full, without the written approval of CTA, this document only, and shall be noted in the revision of the document.
	Date of Test	:	
	Date of receipt of test item	:	26 Oct. 2023
	Date (s) of performance of tests.		26 Oct. 2023 ~ 16 Nov. 2023
	Date of Issue	C.	16 Nov. 2023
	Test Result		Pass

Testing Engineer :	Zoey Coro	
Testing Engineer :	(Zoey Cao)	
Technical Manager :	Anny Wen	CTA TESTING
	(Amy Wen)	CIL CIL
Authorized Signatory:	Eric Wang	
TING	(Eric Wang)	
CTP CTP	(Eric Wang)	TESTING

Page 3 of 10

Report No.: CTA231120010H02

TABLE OF CONTENTS

1. GENERAL INFORMATION		5
1.1 GENERAL DESCRIPTION OF THE EUT		5
1.2 TEST FACTORY		6
2. FCC 47CFR §2.1093 REQUIREMENT		7
2.1 TEST STANDARDS		7
2.2 LIMIT		7
2.3 TEST RESULT		10
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Report No.: CTA231120010H02 Page 4 of 10

		Page 4 of 10	Rep	Report No.: CTA231120010H02		
CT	ATES	Revision Hi	story			
Rev. Issue Date		Report No.	Effect Page	Contents		
00	16 Nov. 2023	CTA231120010H02	ALL	Initial Issue		
			(31)			

Page 5 of 10 Report No.: CTA231120010H02

CTATESTING

Product Name	TTL Wireless Flash Trigger			
Brand Name	60dox			
Model Name	X nano C			
Series Model(s)	X nano N, X nano S, X nano F, X nano O, X nano P			
Model Difference	Only different in model name			
Product Description	The EUT is TTL Wireless Flash Trigger Operation Frequency: Modulation Type: GFSK Antenna gain: Antenna Designation: Ceramic			
Rating	Input: 5V= 2A			
Battery	Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 850mAh, 3.145Wh			
Hardware Version	20220805L04			
Software Version	V1.0			

Page 6 of 10 Report No.: CTA231120010H02

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Shenzhen, China

FCC test Firm Registration Number: 517856

IC test Firm Registration Number: 27890

A2LA Certificate No.: 6534.01

CTATESTING IC CAB ID: CN0127

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);

Page 8 of 10 Report No.: CTA231120010H02

(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 λ 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 ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .
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Report No.: CTA231120010H02 Page 9 of 10

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 CTATI (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.

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

ERPth, i = exemption threshold ERP for fixed, mobile, or portable RF source i, 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 CTATES applicable from § 1.1310.



Page 10 of 10

Report No.: CTA231120010H02

2.3 TEST RESULT

Turn up

E	ST RESULT	CTATESTING	
	Mode	Detector	Turn up Power
	2.4G	AV	-21±1dBm

TESTING							CVIA
Protocol	Fre. (GHz)	Separation distance (cm)	Maximum time-avera ged power (dBm)	Max Turn up power (dBm)	Max EIRP (mW)	Limit (mW)	Result
2.4G	2.412999634	0.5	-21.34	-20	0.01	2.777485	Pass
			,			W. C.	•

Note: 1. Calculated formula: EIRP(dBm)=73.86(dBuV/m)-95.2

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

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