RF Exposure Evaluation Report

Report No.:	RWAO202400004C
Applicant:	Shenzhen Teslong Technology Co., Ltd.
Address:	2nd Floor, Block 4, Jinhuafa Industrial Park, East of Donghuan 2 avenue, Longhua, Shenzhen, China
Product Name:	Digital Borescope
Product Model:	TF600
Multiple Models:	N/A
Trade Mark:	N/A
FCC ID:	2AXAVTF6002401
Standards:	47 CFR §1.1310 KDB 447498 D01 General RF Exposure Guidance v06
Test Date:	2024-08-09
Test Result:	Complied
Report Date:	2024-08-12

Reviewed by: Abel chen

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Project Engineer

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Prepared by:

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NVLAP TESTING NVLAP LAB CODE 600335-0

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Revision History

Version No.	Issued Date	Description
00	2024-08-12	*Original*

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1 General Information

1.1 Client Information

Applicant:	Shenzhen Teslong Technology Co., Ltd.
Address:	2nd Floor, Block 4, Jinhuafa Industrial Park, East of Donghuan 2 avenue, Longhua, Shenzhen, China
Manufacturer:	Shenzhen Teslong Technology Co., Ltd.
Address:	2nd Floor, Block 4, Jinhuafa Industrial Park, East of Donghuan 2 avenue, Longhua, Shenzhen, China

1.2 Product Description of EUT

The EUT is Digital Borescope that contains 2.4G radio.

Sample Serial Number	28-2 (assigned by WATC)
Sample Received Date	2024-01-05
Sample Status	Good Condition
Frequency Range	2412MHz - 2462MHz
Maximum Conducted Peak Output Power	2412MHz - 2462MHz: 16.24dBm
Modulation Technology	DSSS, OFDM
Antenna Gain#	2.16dBi
Spatial Streams	SISO (1TX, 1RX)
Power Supply	DC 3.7V from battery or DC 5~12V from type-C port
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

2 RF Exposure Evaluation

2.1 Standard

According to §1.1310, radio frequency devices shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

2.2 Result

Radio	Frequency (MHz)	Time-base Average Power including Tune-up Tolerance		Min. test separation distance (mm)	Result (10-g extremity SAR)	Exclusion Limit (10-g extremity SAR)	Verdict
		(dBm)	(mW)				
2.4G WLAN	2412-2462	13.0	20	0.5	6.28	7.5	Pass

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

The device is for handheld use.

Result: Complied, No need standalone SAR test.

---End of Report---