

RF Exposure Evaluation Report

Report No.: RWAZ202300046C

Applicant: Shenzhen Teslong Technology Co., Ltd.

Address: 2nd Floor, Block 4, Jinhuafa Industrial Park, East of Donghuan 2

avenue, Longhua, Shenzhen, China

Product Name: HD Video-Endoskop

Product Model: VE 500

Multiple Models: N/A

Trade Mark: N/A

FCC ID: 2AXAVVE5002303

Standards: 47 CFR §1.1310

KDB 447498 D01 General RF Exposure Guidance v06

Test Date: 2024-01-23

Test Result: Complied

Report Date: 2024-01-23

Reviewed by:

Approved by:

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Revision History

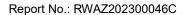
Version No.	Issued Date	Description
00	2024-01-23	Original

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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 HD Video-Endoskop that contains 2.4G WLAN radios.

Sample Serial Number	13-2 (assigned by WATC)	
Sample Received Date	2023-12-08	
Sample Status	Good Condition	
Frequency Range	2.4G WLAN: 2412MHz - 2462MHz	
Maximum Conducted Peak Output Power	17.48dBm	
Modulation Technology	DSSS, OFDM	
Antenna Gain [#]	0.86dBi	
Spatial Streams [#]	SISO (1TX, 1RX)	
Power Supply	DC 3.7V from battery or DC 5V/9V/12V from type-C port	
Operating temperature#	-20 deg.C to +60 deg.C	
Adapter Information	N/A	
Modification	Sample No Modification by the test lab	

1.3 Laboratory Location

World Alliance Testing and 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

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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.

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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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 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 \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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

2.2 Result

Radio	Frequency (MHz)	Maximum Conducted Average Power including Tune-up Tolerance (dBm)	Min. test separation distance (mm)	Result (1-g SAR)	Exclusion Limit (1-g SAR)	Verdict
2.4G WLAN	2412-2462	9.5	5	2.8	3	Pass

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

Result: Complied, No need standalone SAR test.

---End of Report---

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