

# RF Exposure Evaluation Report

**Report No.:** RWAZ202300046C

**Applicant:** Shenzhen Teslong Technology Co., Ltd.

**Address:** 2nd Floor, Block 4, Jinhua 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:**

Abel Chen

**Approved by:**

Jacob Kong

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**Prepared 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, Jinhua Industrial Park, East of Donghuan 2 avenue, Longhua, Shenzhen, China
Manufacturer:	Shenzhen Teslong Technology Co., Ltd.
Address:	2nd Floor, Block 4, Jinhua 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 <sup>#</sup>	0.86dBi
Spatial Streams <sup>#</sup>	SISO (1TX, 1RX)
Power Supply	DC 3.7V from battery or DC 5V/9V/12V from type-C port
Operating temperature <sup>#</sup>	-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

Tel: +86-755-29691511, Email: [qa@watc.com.cn](mailto: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  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  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  $< 5$  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---**