

# RF Exposure Evaluation Report

**Applicant:** Shenzhen Tengwei Video Technology Co., Ltd

**Address of Applicant:** Room 505, Rujun Building, Banxuegang Road, Longgang District Shenzhen China

## Equipment Under Test (EUT)

**Product Name:** IP CAMERA

**Model No.:** T8864D, T8864F, T8866D, T8866F, T8868D, T8868F, T8882D, T8882F, T8884D, T8884F

**Trade mark:** TENVIS

**FCC ID:** 2ADGP-TWS864

**Applicable standards:** FCC CFR Title 47 Part 2 Subpart J Section 2.1091

**Date of sample receipt:** 29 May, 2020

**Date of Test:** 29 May, to 24 Jun., 2020

**Date of report issue:** 28 Jun., 2020

**Test Result:** PASS\*

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Version

Version No.	Date	Description
00	28 Jun., 2020	Original

Tested by: YT Yang

**Test Engineer**

Date: 28 Jun., 2020

Reviewed by: Winner Zhang

**Project Engineer**

Date: 28 Jun., 2020

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## 4 General Information

### 4.1 Client Information

Applicant:	Shenzhen Tengwei Video Technology Co.,Ltd
Address:	Room 505, Rujun Building, Banxuegang Road, Longgang District Shenzhen, China
Manufacturer/Factory:	TENVIS Technology Co., Ltd
Address:	14F, Building B1, Nanshan Park, No. 1001 Xueyuan Road, Nanshan District, Shenzhen, 518000, China.
Factory:	TENVIS Technology Co., Ltd
Address:	TENVIS Technology Industrial Park, NO.10 Jixiang 3rd Road, Pingdi Town, Longgang District, Shenzhen, 518117, China

### 4.2 General Description of E.U.T.

Product Name:	IP CAMERA
Model No.:	T8864D, T8864F, T8866D, T8866F, T8868D, T8868F, T8882D, T8882F, T8884D, T8884F
Operation Frequency:	2.4G Wi-Fi: 2412MHz~2462MHz
Modulation technology:	802.11b: DSSS, 802.11g/n: OFDM
Antenna Type:	External Antenna
Antenna gain:	Wi-Fi: 5.0 dBi
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 4.3 Operating Modes

Operating mode	Detail description
2.4G WIFI mode	Keep the EUT in continuously transmitting in 2.4G WIFI mode

### 4.4 Additions to, deviations, or exclusions from the method

No

### 4.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

### 4.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.  
 Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,  
 Bao'an District, Shenzhen, Guangdong, China  
 Tel: +86-755-23118282, Fax: +86-755-23116366  
 Email: [info@ccis-cb.com](mailto:info@ccis-cb.com), Website: <http://www.ccis-cb.com>

## 5 Technical Requirements Specification in FCC CFR Title 47 Part 2.1091

### 5.1 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

### 5.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

### 5.3 Result

Frequency (MHz)	Maximum Output power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm <sup>2</sup> )	Limits for General Population/ Uncontrolled Exposure (mW/cm <sup>2</sup> )
2.4G Wi-Fi							
2412	16.44	44.06	5	3.16	20.00	0.0277	1.0

Note: Just the worst case mode was shown in report.

### 5.4 Conclusion

The device is exempt from the RF exposure evaluation.

-----End of report-----