



FCC TEST REPORT

FCC ID: 2A8WT-FB-02W-1-N

| | | |
|--|---|---|
| Product | : | Surveillance cameras |
| Model Name | : | FB-02W-1-N |
| Additional model | : | FB-01W-1-N,FB-02W-1-N,FB-03W-1-N,FB-04W-1-N,FB-05W-1-N,FB-06W-1-N,FB-07W-1-N,FB-08W-1-N,FB-09W-1-N,FB-10W-1-N,FB-11W-1-N,FB-12W-1-N,FH-01W-1-N,FH-02W-1-N,FH-03W-1-N,FH-04W-1-N,FH-05W-1-N,FG-01W-1-N,FG-02W-1-N,FG-03W-1-N |
| Brand | : | VANVISION |
| Report No. | : | PTC22092103402E-FC02 |
| Prepared for | | |
| Huizhou Fandeng Electronic Technology Co., LTD | | |
| No. 01, 10th Floor, Building B, Building B, No. 7, Tongsheng East Road, Shuikou Street, Huicheng District, Huizhou City | | |
| Prepared by | | |
| Precise Testing & Certification Co., Ltd. | | |
| Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China. | | |



1. TEST RESULT CERTIFICATION

Applicant's name : Huizhou Fandeng Electronic Technology Co., LTD

Address : No. 01, 10th Floor, Building B, Building B, No. 7, Tongsheng East Road, Shuikou Street, Huicheng District, Huizhou City

Manufacture's name : Huizhou Fandeng Electronic Technology Co., LTD

Address : No. 01, 10th Floor, Building B, Building B, No. 7, Tongsheng East Road, Shuikou Street, Huicheng District, Huizhou City

Product name : Surveillance cameras

Model name : FB-02W-1-N

Additional model name : Refer to Page 6

Test procedure : FCC CFR47 Part 1.1307(b)(1)

Test Date : Sep. 28, 2022 to Oct. 15, 2022

Date of Issue : Oct. 20, 2022

Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Ronnie Liu'.

Ronnie Liu / Manager



Contents

| | Page |
|---------------------------------------|----------|
| 2 TEST SUMMARY | 4 |
| 3 GENERAL INFORMATION | 5 |
| 3.1 GENERAL DESCRIPTION OF E.U.T..... | 5 |
| 4 RF EXPOSURE | 6 |
| 4.1 REQUIREMENTS..... | 6 |
| 4.2 THE PROCEDURES / LIMIT | 6 |
| 4.3 MPE CALCULATION METHOD | 7 |
| 4.4 TEST RESULT | 7 |



Report No.: PTC22092103402E-FC02

2 Test Summary

| Test Items | Test Requirement | Result |
|---|------------------|--------|
| Maximum Permissible Exposure (Exposure of Humans to RF Fields) | 15.247 (i) | PASS |
| Remark: | | |
| N/A: Not Applicable | | |



3 General Information

3.1 General Description of E.U.T.

| | | |
|-----------------------|---|---|
| Product Name | : | Surveillance cameras |
| Model Name | : | FB-02W-1-N |
| Additional model Name | : | FB-01W-1-N,FB-02W-1-N,FB-03W-1-N,FB-04W-1-N,FB-05W-1-N,FB-06W-1-N,FB-07W-1-N,FB-08W-1-N,FB-09W-1-N,FB-10W-1-N,FB-11W-1-N,FB-12W-1-N,FH-01W-1-N,FH-02W-1-N,FH-03W-1-N,FH-04W-1-N,FH-05W-1-N,FG-01W-1-N,FG-02W-1-N,FG-03W-1-N |
| Specification | : | 802.11b/g/n HT20/HT40 |
| Operation Frequency | : | 2412-2462MHz for 802.11b/g/ n(HT20/HT40) |
| Number of Channel | : | 11 channels for 802.11b/g/ n(HT20/HT40) |
| Type of Modulation | : | DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; |
| Antenna installation | : | Integral antenna |
| Antenna Gain | : | 2.26 dBi |
| Power supply | : | Adapter: Model: GA-1201000 Input: 100-240V~50/60Hz 0.6A Output:DC12.0V,1000mA |
| Hardware Version | : | N/A |
| Software Version | : | N/A |

Model difference:

FB-02W-1-N,FB-01W-1-N,FB-02W-1-N,FB-03W-1-N,FB-04W-1-N,FB-05W-1-N,FB-06W-1-N,FB-07W-1-N,FB-08W-1-N,FB-09W-1-N,FB-10W-1-N,FB-11W-1-N,FB-12W-1-N,FH-01W-1-N,FH-02W-1-N,FH-03W-1-N,FH-04W-1-N,FH-05W-1-N,FG-01W-1-N,FG-02W-1-N,FG-03W-1-N only the model name is different.



4 RF Exposure

Test Requirement : 15.247 (i)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

| Frequency Range | Electric Field | Magnetic Field | Power Density (S) | Averaging Time |
|-----------------|----------------|----------------|-------------------|----------------|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842 / f | 4.89 / f | (900 / f)* | 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

| Frequency Range | Electric Field | Magnetic Field | Power Density (S) | Averaging Time |
|-----------------|----------------|----------------|-------------------|----------------|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | | | F/1500 | 30 |
| 1500-100,000 | | | 1.0 | 30 |

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

| Item | Antenna Gain (numeric) | Max. Peak Output Power (dBm) | Tune up tolerance (dBm) | Max Tune Up Power (mW) | Power Density (mW/cm ²) | Limit of Power Density (mW/cm ²) | Result |
|------|------------------------|------------------------------|-------------------------|------------------------|-------------------------------------|--|--------|
| 2412 | 1.68 | 15.87 | 15.87 ± 1 | 48.640721 | 0.016283 | 1 | Pass |

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