

RF Exposure Evaluation Report

Product : YI Home 2K Pro Camera, YI Home MAX Camera
Trade mark : 
Model/Type reference : YYS.62121, YYS.62505
Serial Number : N/A
Report Number : EED32Q80364402
FCC ID : 2AFIB-YYS62405
Date of Issue : May 22, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
447498 D04 Interim General RF Exposure
Guidance v01
Test result : PASS

Prepared for:

Yi Technology Co., Ltd.

**No.366 Shangke Road, No.18 Lane 55 Chuanhe Road, China (Shanghai)
Pilot Free Trade Zone, 201203**

Prepared by:

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2 Version

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4 General Information

4.1 Client Information

Applicant:	Yi Technology Co., Ltd.
Address of Applicant:	No.366 Shangke Road, No.18 Lane 55 Chuanhe Road, China (Shanghai) Pilot Free Trade Zone, 201203
Manufacturer:	Yi Technology Co., Ltd.
Address of Manufacturer:	No.366 Shangke Road, No.18 Lane 55 Chuanhe Road, China (Shanghai) Pilot Free Trade Zone, 201203
Factory:	Yi Technology Co., Ltd.
Address of Factory:	No.366 Shangke Road, No.18 Lane 55 Chuanhe Road, China (Shanghai) Pilot Free Trade Zone, 201203

4.2 General Description of EUT

Product Name:	YI Home 2K Pro Camera, YI Home MAX Camera
Model No.:	YYS.62121, YYS.62505
Test Model No.:	YYS.62121
Trade mark:	

4.3 Product Specification subjective to this standard

Frequency Range:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK)	
Test Power Grade:	Default	
Test Software of EUT:	SecureCRTPortable.exe	
Antenna Type:	Monopole Antenna	
Antenna Gain:	-0.38 dBi	
Power Supply:	Adapter:	Model: TPA-98B050100UU01 Input: AC 100V-240V, 50/60Hz, 0.15A Output: DC 5V, 1A
Sample Received Date:	Mar. 22, 2024	
Sample tested Date:	Mar. 22, 2024 to Apr. 20, 2024	
Remark: Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.: YYS.62121, YYS.62505 Only the model YYS.62121 was tested. The electrical circuit design, layout, components used and internal wiring are identical. Only model name, appearance and color are different.		

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation**For Stand alone:****For 2.4G Wi-Fi:**

Frequency (MHz)	Available maximum time- averaged power (dBm)	Antenna gain (dBi)	ERP (dBm)	Available maximum time- averaged power (mW)	Limit (mW)	Result
2412	8.72	-0.38	6.19	7.447	≤3060	PASS

Note:

- ① EIRP=Available maximum time-averaged power+Antenna gain;
- ② ERP=EIRP-2.15;
- ③ According to § 1.1307(b)(3)(i)(B), RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).
- ④ The estimation distance is 20cm;
- ⑤ The test data please refer to the report of EED32Q80364401 and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***