


RF Exposure Evaluation Report

Product : PALM Gimbal Camera
Trade mark : 
Model/Type reference : YTXJ03FM
Serial Number : N/A
Report Number : EED32L00396102
FCC ID : 2AG53YTXJ03FM
Date of Issue : Mar. 31, 2020
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Test result : PASS

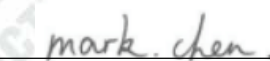
Prepared for:

BEIJING FIMI TECHNOLOGY LIMITED
1# Complex Building, Yongtaiyuan Jia, Qinghe, Haidian , Beijing, China

Prepared by:

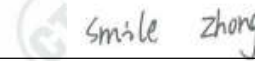
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2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Mar. 31, 2020 | Original |
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3 Contents

| | Page |
|--|----------|
| 1 COVER PAGE..... | 1 |
| 2 VERSION..... | 2 |
| 3 CONTENTS..... | 3 |
| 4 GENERAL INFORMATION..... | 4 |
| 4.1 CLIENT INFORMATION..... | 4 |
| 4.2 GENERAL DESCRIPTION OF EUT..... | 4 |
| 4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD..... | 4 |
| 4.4 TEST LOCATION..... | 5 |
| 4.5 DEVIATION FROM STANDARDS..... | 5 |
| 4.6 ABNORMALITIES FROM STANDARD CONDITIONS..... | 5 |
| 4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER..... | 5 |
| 5 SAR EVALUATION..... | 6 |
| 5.1 RF EXPOSURE COMPLIANCE REQUIREMENT..... | 6 |
| 5.1.1 Standard Requirement..... | 6 |
| 5.1.2 Limits..... | 6 |
| 5.1.3 EUT RF Exposure..... | 7 |
| PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS..... | 8 |

4 General Information

4.1 Client Information

| | |
|--------------------------|--|
| Applicant: | BEIJING FIMI TECHNOLOGY LIMITED |
| Address of Applicant: | 1# Complex Building, Yongtaiyuan Jia, Qinghe, Haidian , Beijing, China |
| Manufacturer: | BEIJING FIMI TECHNOLOGY LIMITED |
| Address of Manufacturer: | 1# Complex Building, Yongtaiyuan Jia, Qinghe, Haidian , Beijing, China |

4.2 General Description of EUT

| | |
|----------------------------------|---|
| Product Name: | PALM Gimbal Camera |
| Model No.(EUT): | YTXJ03FM |
| Trade Mark: |  |
| EUT Supports Radios application: | IEEE 802.11 b/g/n(HT20)(HT40): 2412MHz to 2462MHz |

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: | B:19/19/20, G:28/28/28, N20:28/27/27, N40:25/25/25 |
| Test Software of EUT: | Putty |
| Antenna Type: | Multilayer Chip antenna |
| Antenna Gain: | 1dBi |
| Power Supply: | DC 7.4V |
| Max Conducted Peak Output Power: | 8.4dBm The Max Conducted Peak Output Power data refer to the report EED32L00396101 |
| Sample Received Date: | Dec. 31, 2019 |
| Sample tested Date: | Dec. 31, 2019 to Mar. 24, 2020 |
| The tested sample(s) and the sample information are provided by the client. | |

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 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 ≤ 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 calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The tune-up power is 7.5 dBm +/- 1dB, therefore the highest tune-up power is
8.5 dBm (7.08 mW) @ 2462 MHz

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.

So,

$$\sqrt{(7.08\text{mW} / 5\text{mm}) * (2.462\text{GHz}^{0.5})} = 2.2$$

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] = 2.2 < 3.0$$

Therefore, standalone SAR measurements are not required for both head and body

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00396101 for EUT external and internal photos.

*** End of 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.