



MPE REPORT

FCC ID:2AWZ2-P1

Date of issue: Aug. 11, 2020

Report number: MTi20070619-6E2

Sample description: PTZ Camera

Model(s): P1, P5, DM01, DM02, DM03, DM04, DM05, DM06, DM07, DM08

Applicant: Shenzhen JideTech Development Co., Limited

Address: A916 Niulanqian Building Minzhi Avenue Xinniu Community, Minzhi Street, Longhua District, Shenzhen

Date of test: July 20, 2020 to Aug. 11, 2020

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

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| TEST RESULT CERTIFICATION | |
|----------------------------------|--|
| Applicant's name: | Shenzhen JideTech Development Co., Limited |
| Address: | A916 Niulanqian Building Minzhi Avenue Xinniu Community, Minzhi Street, Longhua District, Shenzhen |
| Manufacture's name: | Shenzhen YGH Electronic Equipment Co.,Ltd |
| Address: | 3 / F, Building D, Liangxiang Industrial Zone, No. 269 Fuqian Road, Fucheng Street, Guanlan, Shenzhen, China |
| Product name: | PTZ Camera |
| Trademark: | JideTech |
| Model and/or type reference: | P1 |
| Serial model: | P5, DM01, DM02, DM03, DM04, DM05, DM06, DM07, DM08 |
| RF exposure procedures: | KDB 447498 D01 v06 |

This device described above has been tested by Shenzhen Microtest Co., Ltd 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.

Tested by:

Demi Mu

Aug. 11, 2020

Reviewed by:

Leo Su

Aug. 11, 2020

Approved by:

Tom Xue

Aug. 11, 2020



RF EXPOSURE EVALUATION

According to FCC 1.1310: 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)

Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposure | | | | |
| 0.3-3.0 | 614 | 1.63 | *100 | 6 |
| 3.0-30 | 1842/f | 4.89/f | *900/f ² | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1,500 | | | f/300 | 6 |
| 1,500-100,000 | | | 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 ² | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1,500 | | | f/1500 | 30 |
| 1,500-100,000 | | | 1.0 | 30 |

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

MPE Calculation Method

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d= Power density in mW/cm²

P_{out}=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm(20cm)

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.



Measurement Result

WIFI:

Operation Frequency: WIFI 802.11b/g/n HT20: 2412-2462MHz,

802.11n HT40: 2422-2452MHz,

Power density limited: 1mW/ cm²

Antenna Type: External Antenna;

Antenna gain: 3 dBi

R=20cm

mW=10^(dBm/10)

antenna gain Numeric=10^(dBi/10)= 10^(3/10)=2.00

| Channel Freq. (MHz) | modulation | conducted power | Tune-up power | Max | | Antenna | Evaluation result at 20cm | Power density Limits (mW/cm2) |
|---------------------|-------------|-----------------|---------------|---------------|-----------|---------|---------------------------|-------------------------------|
| | | (dBm) | (dBm) | tune-up power | Gain | | | |
| | | Ant A | Ant A | Ant A | Numeric | | | |
| 2412 | 802.11b | 15.98 | 16±1 | 17 | 50.118723 | 2 | 0.01994 | 1 |
| 2437 | | 16.9 | 16±1 | 17 | 50.118723 | 2 | 0.01994 | 1 |
| 2462 | | 16.73 | 16±1 | 17 | 50.118723 | 2 | 0.01994 | 1 |
| 2412 | 802.11g | 15.91 | 15±1 | 16 | 39.810717 | 2 | 0.01584 | 1 |
| 2437 | | 15.74 | 15±1 | 16 | 39.810717 | 2 | 0.01584 | 1 |
| 2462 | | 15.42 | 15±1 | 16 | 39.810717 | 2 | 0.01584 | 1 |
| 2412 | 802.11n H20 | 15.41 | 15±1 | 16 | 39.810717 | 2 | 0.01584 | 1 |
| 2437 | | 15.75 | 15±1 | 16 | 39.810717 | 2 | 0.01584 | 1 |
| 2462 | | 15.72 | 15±1 | 16 | 39.810717 | 2 | 0.01584 | 1 |
| 2422 | 802.11n H40 | 13.61 | 13±1 | 14 | 25.118864 | 2 | 0.00999 | 1 |
| 2437 | | 12.81 | 13±1 | 14 | 25.118864 | 2 | 0.00999 | 1 |
| 2452 | | 12.86 | 13±1 | 14 | 25.118864 | 2 | 0.00999 | 1 |

Conclusion:

For the max result: 0.01994≤ 1.0 for 1g SAR, No SAR is required.

----END OF REPORT----