



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3160413-00298-EF



CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China



TEST REPORT For FCC ID

47 CFR PART 15 OCT, 2015

Report Reference No. CGZ3160413-00298-EF

Date of issue..... 05 May 2016

Testing Laboratory Name CENTRE OF TESTING SERVICE CO., LTD.

Address..... A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

 Testing location/ procedure Full application of Harmonised standards ☒

 Partial application of Harmonised standards ☐

 Other standard testing method ☐
Applicant's name..... Giroptic

Address..... 165 Avenue de Bretagne, 59000 Lille France

Test specification

Standard 47 CFR PART 15 OCT, 2015, ANSI C63.10:2013,

Test Report Form No. CTSEMC-1.0

TRF Originator..... CENTRE OF TESTING SERVICE CO., LTD.

Master TRF..... Dated 2009-01

CENTRE OF TESTING SERVICE CO., LTD. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the CENTRE OF TESTING SERVICE CO., LTD is acknowledged as copyright owner and source of the material. CENTRE OF TESTING SERVICE CO., LTD takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description : 360cam

Trade Mark /

Manufacturer..... Designer

Model/Type reference..... GR_CAM_0360_A

Ratings..... Battery 3.7V, DC 5V for Charging

 Result **PASSED**
Compiled by:

Kate zhang / Fileadministrators

Supervised by:

Duke yang / Technique principal

Approved by:

Vincent yao / Manager

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



FCC ID -- T E S T R E P O R T

| | | |
|--------------------------|----------------------------|-------------------------------------|
| Test Report No. : | CGZ3160413-00298-EF | <u>06 May 2016</u> Date of issue |
|--------------------------|----------------------------|-------------------------------------|

| | |
|---------------------------|--|
| Type / Model..... | GR_CAM_0360_A |
| EUT..... | 360cam |
| Applicant | Giroptic |
| Address..... | 165 Avenue de Bretagne, 59000 Lille France |
| Telephone..... | +86-3 59 39 10 00 |
| Fax..... | / |
| Contact..... | CHEN Ming |
| Manufacturer | Designer |
| Address..... | / |
| Telephone..... | / |
| Fax..... | / |
| Contact..... | / |
| Factory | / |
| Address..... | / |
| Telephone..... | / |
| Fax..... | / |
| Contact..... | / |

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



TABLE OF CONTENTS

| Description | Page |
|--|-------------|
| 1. TEST STANDARDS | 4 |
| 2. SUMMARY | 4 |
| 2.1 GENERAL REMARKS | 4 |
| 2.2 FINAL ASSESSMENT | 4 |
| 3. EQUIPMENT UNDER TEST | 5 |
| 3.1 POWER SUPPLY SYSTEM UTILISED..... | 5 |
| 3.2 SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT)..... | 5 |
| 3.3 EUT OPERATION MODE | 5 |
| 3.4 EUT CONFIGURATION..... | 6 |
| 4. TEST ENVIRONMENT | 7 |
| 4.1 ADDRESS OF THE TEST LABORATORY..... | 7 |
| 4.2 TEST FACILITY | 7 |
| 4.3 ENVIRONMENTAL CONDITIONS | 7 |
| 4.4 DEFINITIONS OF SYMBOLS USED IN THIS TEST REPORT | 7 |
| 4.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY | 7 |
| 4.6 MEASUREMENT UNCERTAINTY | 8 |
| 5. Summary of standards and results | 8 |
| 5.1.DESRIPTION OF STANDARDS AND RESULTS | 8 |
| 6. Power Line Conducted Emission Test | 9 |
| 6.1.1 DESCRIPTION OF THE TEST LOCATION | 9 |
| 6.1.2TEST EQUIPMENT..... | 9 |
| 6.2.1 BLOCK DIAGRAM OF TEST SETUP..... | 9 |
| 6.2.2 DESCRIPTION OF THE TEST SET-UP | 10 |
| 6.2.3 LIMITS OF DISTURBANCE (CLASS B) | 10 |
| 6.2.4 POWER LINE CONDUCTED EMISSION TEST RESULTS | 10 |
| 7. Radiated disturbance (electric field) | 13 |
| 7.1.TEST EQUIPMENT..... | 13 |
| 7.2.BLOCK DIAGRAM OF TEST SETUP | 13 |
| 7.3.RADIATED EMISSION LIMIT STANDARD: FCC 109 | 14 |
| 7.4.TEST PROCEDURE | 14 |
| 7.5.RADIATED EMISSION TEST RESULTS | 14 |
| 8. Manufacturer/ Approval holder Declaration | 19 |

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2015
- ANSI C63.10:2013

2. SUMMARY

2.1 GENERAL REMARKS

| | |
|--------------------------------|------------------------|
| Date of receipt of test sample | 13 April 2016 |
| Testing commenced on | 13 April ~ 05 May 2016 |
| Testing concluded on | 06 May 2016 |

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- ☐ - **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 1.
- ☐ - **does not** fulfil the FCC requirements cited on page 1.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ☒ AC 120V/60Hz for PC
☐ Other

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1
Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:
For Radiation emission:

- ☐ -Normal
☒ -Copy Data

Operation mode 1: Copy Data

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

3.4 EUT configuration

3.4.1. Description of configuration (EUT)

| | | |
|----------------------------|---|--|
| Description | : | 360cam |
| Model Number | : | 360cam |
| Operation frequency (WiFi) | : | 802.11b/g/n(20M):2412.0 MHz~2462.0 MHz |
| Antenna | : | PCB antenna, met requirement of FCC 15.203 |

3.4.2. Tested Supporting System Details

3.4.1. Monitor

| | | |
|--------------|---|-------------------------------------|
| M/N | : | ST2220LB |
| S/N | : | N/A |
| Manufacturer | : | DELL |
| Power Cord | : | Unshielded, Detachable, 1.8m , 3Pin |
| FCC ID | : | By DoC |

3.4.2. Personal Computer

| | | |
|--------------|---|-------------------------------------|
| M/N | : | Optiplex390MT |
| S/N | : | H3JGB3X |
| Manufacturer | : | DELL |
| Power Cord | : | Unshielded, Detachable, 1.8m , 3Pin |
| CE | : | By DoC |

3.4.3. Keyboard

| | | |
|--------------|---|----------------------|
| M/N | : | L5OU |
| S/N | : | N/A |
| Manufacturer | : | DELL |
| Data Cable | : | Shielded, Detachable |
| CE | : | By DoC |

3.4.4. Mouse

| | | |
|--------------|---|----------------------------|
| M/N | : | MSIII-P |
| S/N | : | N/A |
| Manufacturer | : | DELL |
| Data Cable | : | Shielded, Detachable, 1.8m |
| CE | : | By DoC |

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

4. TEST ENVIRONMENT

4.1 Address of the test laboratory

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on May 22, 2014.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No. 971995, July 13, 2012.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|-----------------------|------------|
| Temperature: | 15~35 ° C |
| Humidity: | 25~75 % |
| Atmospheric pressure: | 86~106 kPa |

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

4.6 Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty | Note |
|-------------------------|-----------------|---------------------|------|
| Conduction disturbance | 150kHz~30MHz | $\pm 1.22\text{dB}$ | (1) |
| Power disturbance | 30MHz~300MHz | $\pm 1.38\text{dB}$ | (1) |
| Radiation emission (3m) | 30MHz~300MHz | $\pm 3.14\text{dB}$ | (1) |
| | 300MHz~1000MHz | $\pm 3.18\text{dB}$ | (1) |
| | 1GHz~18GHz | $\pm 3.54\text{dB}$ | (1) |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5. Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | |
|--|---|---------|
| Description of Test Item | Standard | Results |
| Conducted Emission Test | ANSI C63.10:2013 FCC Part 15 B: 15.107 | PASSED |
| Radiated Emission Test | ANSI C63.10:2013 FCC Part 15 B: 15.109 | PASSED |
| N/A is an abbreviation for Not Applicable. | | |

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

6. Power Line Conducted Emission Test

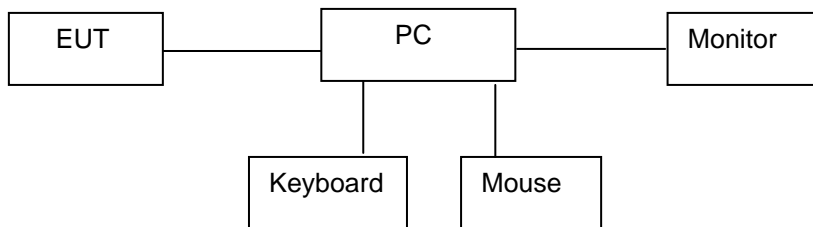
6.1.1 Description of the test location

Test location : Shielding Room

6.1.2 Test Equipment

| Conducted Disturbance | | | | | |
|-----------------------|-------------------|-----------------|-----------|------------|-----------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESHS10 | 842884/012 | 2015/10 |
| 2 | Artificial Mains | ROHDE & SCHWARZ | ESH3-Z5 | 832479/025 | 2015/10 |
| 3 | Artificial Mains | ROHDE & SCHWARZ | ESH3-Z5 | 832479/026 | 2015/10 |
| 4 | Pulse Limiter | ROHDE & SCHWARZ | ESHSZ2 | 100301 | 2015/10 |
| 5 | EMI Test Software | ROHDE & SCHWARZ | ESK1 | N/A | 2015/10 |

6.2.1 Block Diagram of Test Setup



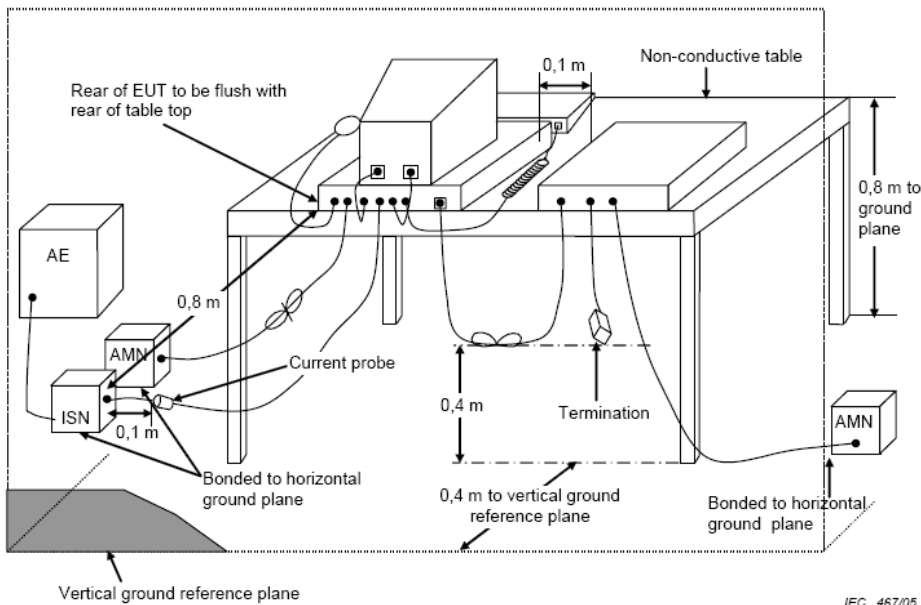
(EUT: 360cam)

6.2.2 Description of the test set-up

6.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

6.1.2.2 Block Diagram of Test Setup



6.2.3 Limits of disturbance (Class B)

| Frequency | Maximum RF Line Voltage | |
|-----------------|----------------------------|-------------------------|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

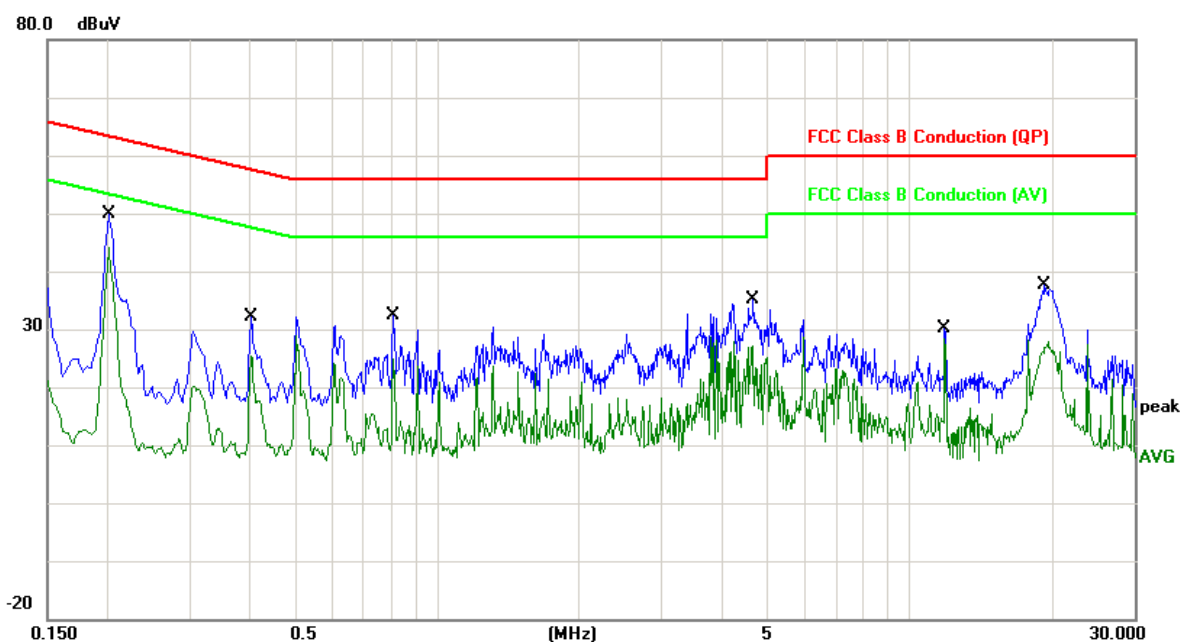
Note: (1) The tighter limit shall apply at the edge between two frequency bands.

6.2.4 Power Line Conducted Emission Test Results



| | | | |
|------------------|---------------|---------|----------------|
| Test point: | L | Result: | ■ - passed |
| Frequency range: | 0.15MHz~30MHz | | □ - not passed |

| | |
|----------------|---|
| EUT | 360cam |
| Test Condition | Ambient Temperature: 25°C Humidity: 56% |
| Test Date: | 13 April ~ 05 May 2016 |
| Operator | Duke |
| MODEL NO | GR_CAM_0360_A |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|--|-----------------|-------------|----------------|----------------|----------------|-------------|------|
| 1 | 0.2020 | 10.83 | 36.85 | 47.68 | 63.53 | -15.85 | QP |
| 2 | 0.2020 | 10.83 | 31.44 | 42.27 | 53.53 | -11.26 | AVG |
| 3 | 0.4060 | 10.89 | 17.05 | 27.94 | 57.73 | -29.79 | QP |
| 4 | 0.4060 | 10.89 | 14.11 | 25.00 | 47.73 | -22.73 | AVG |
| 5 | 0.8100 | 10.90 | 16.72 | 27.62 | 56.00 | -28.38 | QP |
| 6 | 0.8100 | 10.90 | 13.59 | 24.49 | 46.00 | -21.51 | AVG |
| 7 | 4.6900 | 11.06 | 18.36 | 29.42 | 56.00 | -26.58 | QP |
| 8 | 4.6900 | 11.06 | 14.96 | 26.02 | 46.00 | -19.98 | AVG |
| 9 | 11.9300 | 11.13 | 17.86 | 28.99 | 60.00 | -31.01 | QP |
| 10 | 11.9300 | 11.13 | 17.12 | 28.25 | 50.00 | -21.75 | AVG |
| 11 | 19.3540 | 11.02 | 21.99 | 33.01 | 60.00 | -26.99 | QP |
| 12 | 19.3540 | 11.02 | 14.54 | 25.56 | 50.00 | -24.44 | AVG |
| Remark: Other frequency mini margin all >6 dB of Limit | | | | | | | |

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

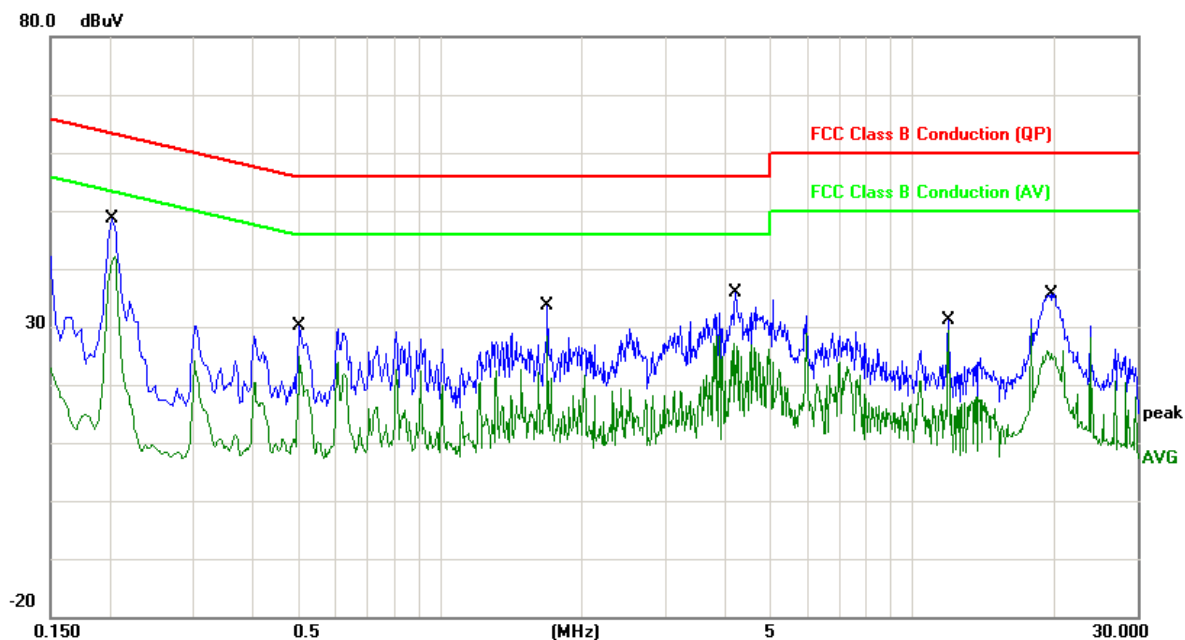
Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

| | | | |
|------------------|---------------|---------|--|
| Test point: | N | Result: | <input checked="" type="checkbox"/> - passed |
| Frequency range: | 0.15MHz~30MHz | | <input type="checkbox"/> - not passed |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|------|
| 1 | 0.2020 | 10.81 | 36.95 | 47.76 | 63.53 | -15.77 | QP |
| 2 | 0.2020 | 10.81 | 32.02 | 42.83 | 53.53 | -10.70 | AVG |
| 3 | 0.5060 | 10.90 | 16.23 | 27.13 | 56.00 | -28.87 | QP |
| 4 | 0.5060 | 10.90 | 13.48 | 24.38 | 46.00 | -21.62 | AVG |
| 5 | 1.6900 | 10.92 | 17.68 | 28.60 | 56.00 | -27.40 | QP |
| 6 | 1.6900 | 10.92 | 11.07 | 21.99 | 46.00 | -24.01 | AVG |
| 7 | 4.2340 | 11.02 | 23.82 | 34.84 | 56.00 | -21.16 | QP |
| 8 | 4.2340 | 11.02 | 11.86 | 22.88 | 46.00 | -23.12 | AVG |
| 9 | 11.9340 | 11.10 | 18.28 | 29.38 | 60.00 | -30.62 | QP |
| 10 | 11.9340 | 11.10 | 17.63 | 28.73 | 50.00 | -21.27 | AVG |
| 11 | 19.6580 | 11.00 | 21.18 | 32.18 | 60.00 | -27.82 | QP |
| 12 | 19.6580 | 11.00 | 13.11 | 24.11 | 50.00 | -25.89 | AVG |

Remark: Other frequency mini margin all >6 dB of Limit

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

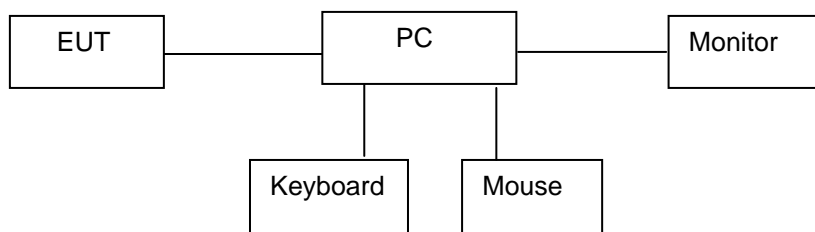
7. Radiated disturbance (electric field)

7.1.Test Equipment

| Radiated disturbance (electric field) | | | | | |
|---------------------------------------|-------------------|-----------------|------------|------------|-----------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 100868 | 2015/10 |
| 2 | Biconical Antenna | ROHDE & SCHWARZ | HK116 | 100221 | 2016/03 |
| 3 | Log per Antenna | ROHDE & SCHWARZ | HL223 | 100226 | 2016/03 |
| 4 | Log per Antenna | ROHDE & SCHWARZ | HL050 | 100186 | 2016/03 |
| 5 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2016/03 |
| 6 | Loop Antenna | A.R.A | PLA-1030/B | 1030 | 2015/10 |

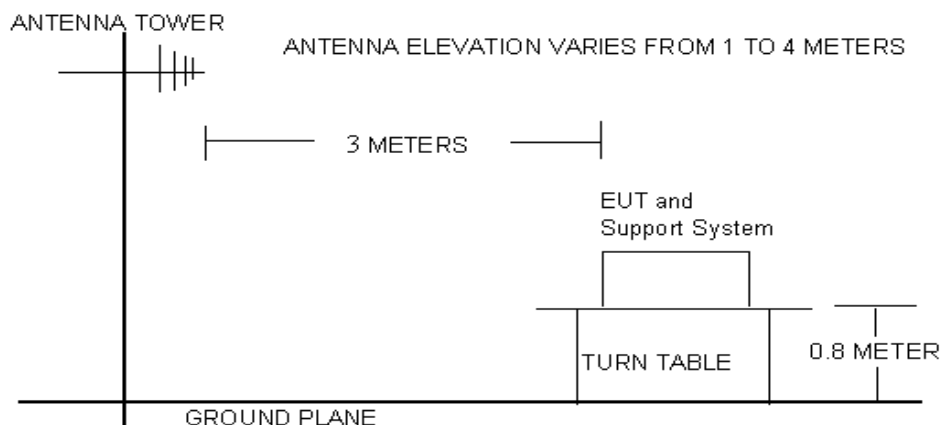
7.2.Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



(EUT:360cam)

7.2.2 Anechoic Chamber Setup Diagram



Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

7.3.Radiated Emission Limit Standard: FCC 109

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|---|-----------------------------------|
| | | $\mu\text{V}/\text{m}$ | $\text{dB}(\mu\text{V})/\text{m}$ |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | Other:74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) | |

Remark: (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, Pretest of EUT, final, select the worst case test and record the test results in the report.

The test modes is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5.Radiated Emission Test Results

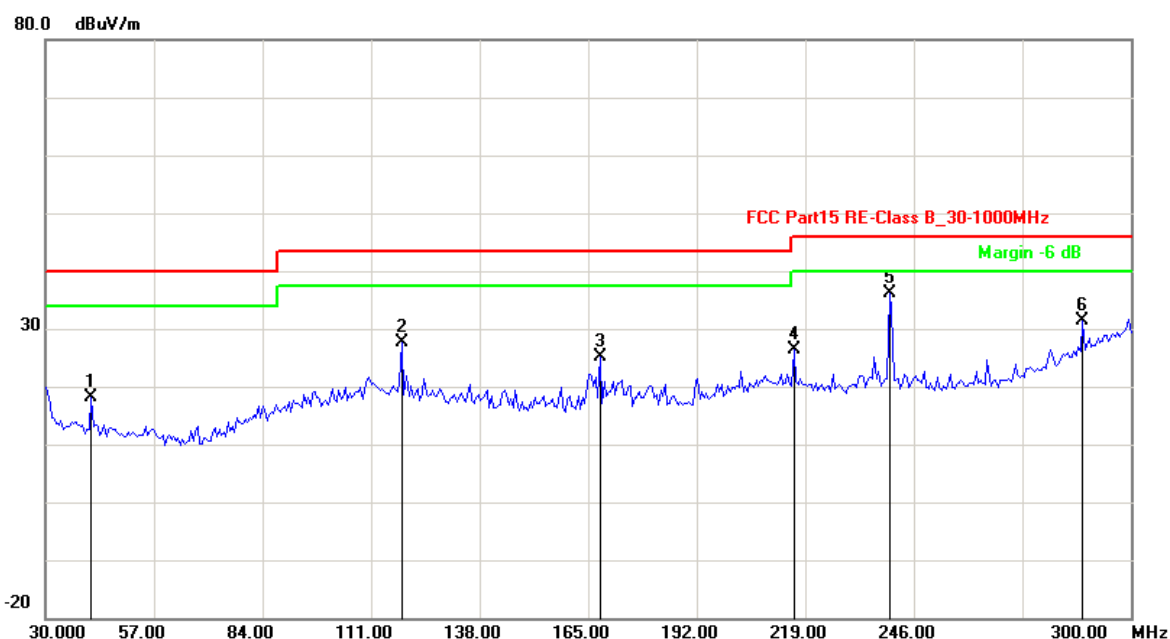
PASSED.



| | | | |
|------------------|--------------|---------|----------------|
| Test point: | Horizontal | Result: | ■ - passed |
| Frequency range: | 30MHz ~18GHz | | □ - not passed |

| | |
|----------------|---|
| EUT | 360cam |
| Test Condition | Ambient Temperature: 25°C Humidity: 56% |
| Test Date: | 13 April ~ 05 May 2016 |
| Operator | Duke |
| MODEL NO | GR_CAM_0360_A |

Below 1GHz



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------|----------------|----------------|-------------|------|
| 1 | 41.3627 | -17.51 | 35.54 | 18.03 | 40.00 | -21.97 | QP |
| 2 | 118.7375 | -16.79 | 44.45 | 27.66 | 43.50 | -15.84 | QP |
| 3 | 167.9760 | -15.98 | 41.20 | 25.22 | 43.50 | -18.28 | QP |
| 4 | 216.1323 | -10.64 | 36.97 | 26.33 | 46.00 | -19.67 | QP |
| 5 | 239.9399 | -11.56 | 47.71 | 36.15 | 46.00 | -9.85 | QP |
| 6 | 288.0962 | -4.65 | 36.10 | 31.45 | 46.00 | -14.55 | QP |

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

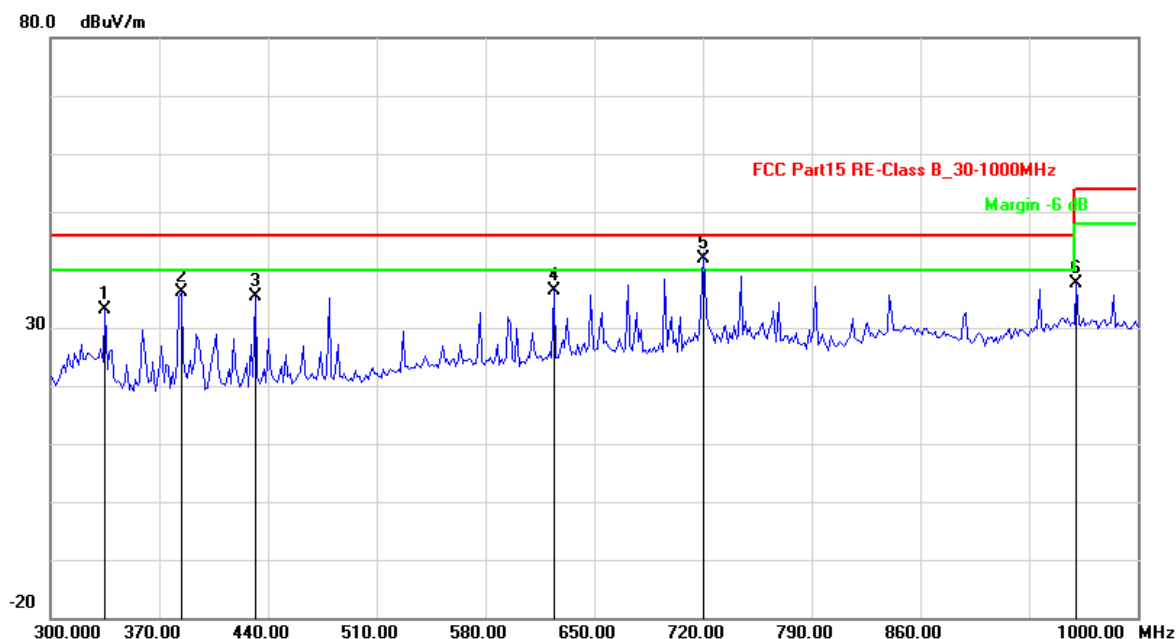
Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBμV/m) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------|----------------|----------------|-------------|------|
| 1 | 335.0701 | -12.03 | 45.04 | 33.01 | 46.00 | -12.99 | QP |
| 2 | 384.1683 | -10.78 | 46.96 | 36.18 | 46.00 | -9.82 | QP |
| 3 | 431.8637 | -9.20 | 44.50 | 35.30 | 46.00 | -10.70 | QP |
| 4 | 624.0480 | -4.43 | 40.90 | 36.47 | 46.00 | -9.53 | QP |
| 5 | 720.8417 | -2.83 | 44.82 | 41.99 | 46.00 | -4.01 | QP |
| 6 | 960.7214 | 0.32 | 37.25 | 37.57 | 54.00 | -16.43 | QP |

Above 1GHz

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBμV/m) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------|----------------|----------------|-------------|------|
| 1 | 2102.204 | -8.62 | 38.24 | 29.62 | 74.00 | -44.38 | peak |
| 2 | 2102.204 | -8.62 | 22.88 | 14.26 | 54.00 | -39.74 | AVG |
| 3 | 5783.567 | 5.80 | 38.49 | 44.29 | 74.00 | -29.71 | peak |
| 4 | 5783.567 | 5.80 | 24.31 | 30.11 | 54.00 | -23.89 | AVG |

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

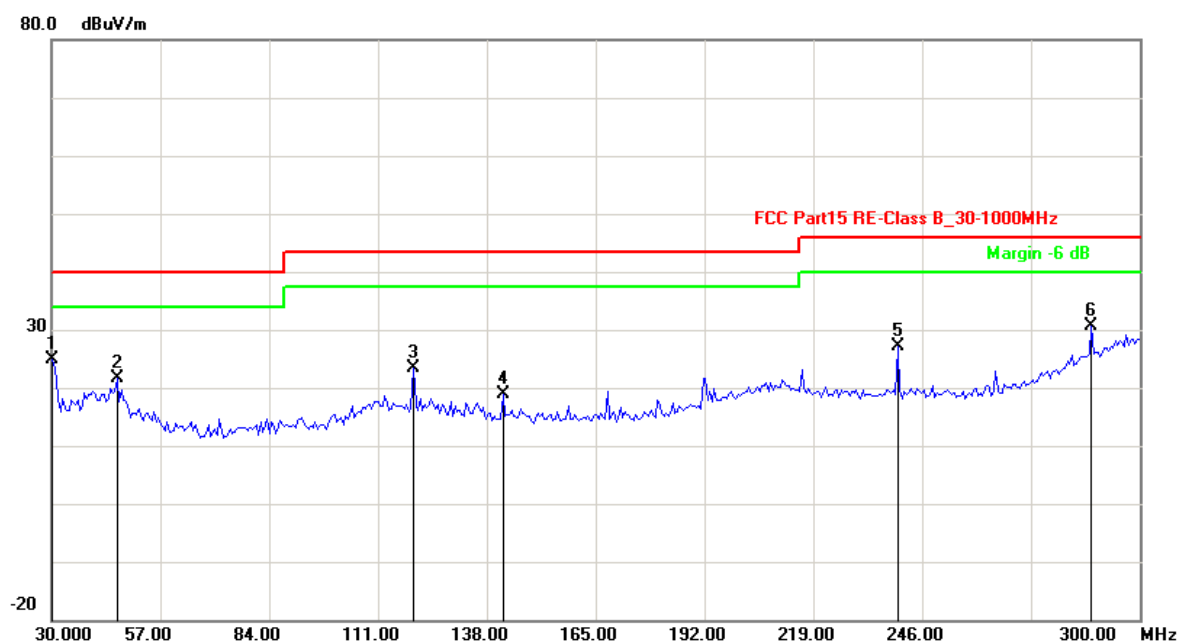
See Reverse For Terms And Conditions of Service



| | | | |
|------------------|--------------|---------|--|
| Test point: | Vertical | Result: | <input checked="" type="checkbox"/> - passed |
| Frequency range: | 30MHz ~18GHz | | <input type="checkbox"/> - not passed |

| | |
|----------------|---|
| EUT | 360cam |
| Test Condition | Ambient Temperature: 25°C Humidity: 56% |
| Test Date: | 13 April ~ 05 May 2016 |
| Operator | Duke |
| MODEL NO | GR_CAM_0360_A |

Below 1GHz



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------|----------------|----------------|-------------|------|
| 1 | 30.0000 | -16.04 | 40.94 | 24.90 | 40.00 | -15.10 | QP |
| 2 | 46.2324 | -18.13 | 39.74 | 21.61 | 40.00 | -18.39 | QP |
| 3 | 119.8196 | -16.73 | 40.09 | 23.36 | 43.50 | -20.14 | QP |
| 4 | 142.0040 | -16.03 | 34.99 | 18.96 | 43.50 | -24.54 | QP |
| 5 | 239.9399 | -11.56 | 38.66 | 27.10 | 46.00 | -18.90 | QP |
| 6 | 288.0962 | -4.65 | 35.33 | 30.68 | 46.00 | -15.32 | QP |

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

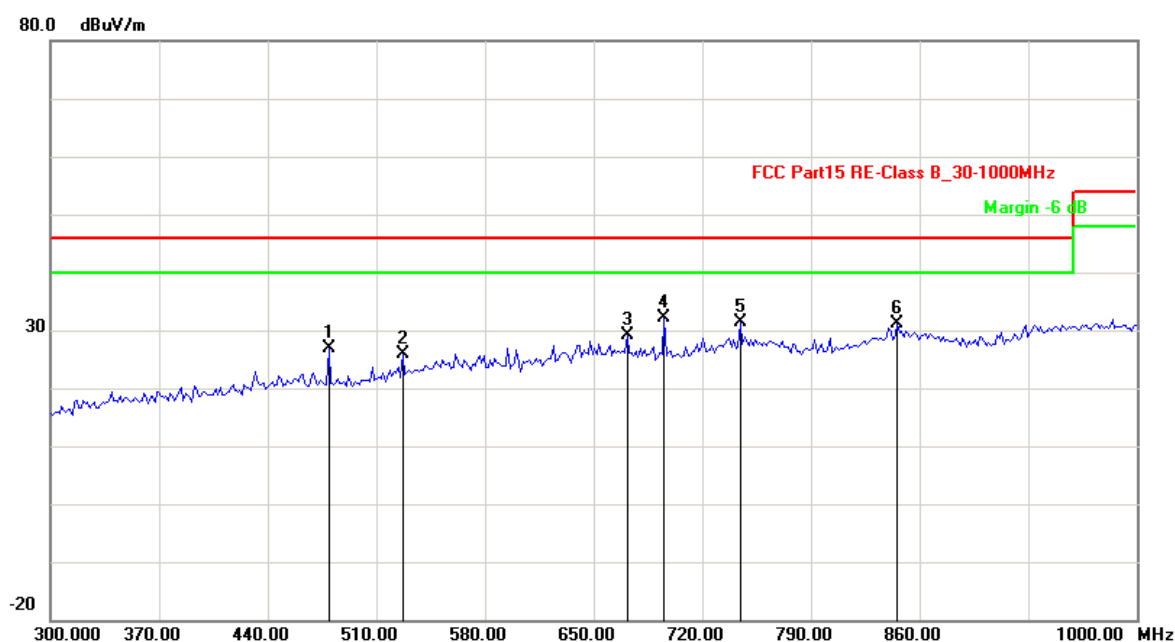
Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBμV/m) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------|----------------|----------------|-------------|------|
| 1 | 479.5591 | -8.26 | 35.26 | 27.00 | 46.00 | -19.00 | QP |
| 2 | 527.2545 | -6.79 | 32.58 | 25.79 | 46.00 | -20.21 | QP |
| 3 | 671.7435 | -3.44 | 32.65 | 29.21 | 46.00 | -16.79 | QP |
| 4 | 695.5912 | -3.67 | 35.92 | 32.25 | 46.00 | -13.75 | QP |
| 5 | 744.6894 | -1.82 | 33.21 | 31.39 | 46.00 | -14.61 | QP |
| 6 | 845.6914 | -0.55 | 31.73 | 31.18 | 46.00 | -14.82 | QP |

Above 1GHz

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBμV/m) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------|----------------|----------------|-------------|------|
| 1 | 1771.543 | -10.74 | 39.06 | 28.32 | 74.00 | -45.68 | peak |
| 2 | 1771.543 | -10.74 | 25.00 | 14.26 | 54.00 | -39.74 | AVG |
| 3 | 5496.994 | 4.73 | 38.52 | 43.25 | 74.00 | -30.75 | peak |
| 4 | 5496.994 | 4.73 | 23.86 | 28.59 | 54.00 | -25.41 | AVG |

Note:Level=Reading+Factor. Margin= Limit-Level

Remark: Others frequency Radiated Emission level margin all >10dB of Limit.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



8. Manufacturer/ Approval holder Declaration

The following identical model(s):

**GR_CAM_1360_A, GR_CAM_2360_A, GR_CAM_3360_A
GR_CAM_4360_A, GR_CAM_5360_A, GR_CAM_6360_A**

Belong to the tested device:

Product description: **360cam**
Model name: **GR_CAM_0360_A**

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service