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FCC TEST REPORT Verification

Under: FCC Part 15, Class B

Prepared For:

Y-cam Solutions Ltd.

3 Dee Road, Richmond, Surrey TW9 2JN, United Kingdom

FCC ID: V4FPINGV002

EUT: Network Video Camera

Model: HomeView Cam

April 20, 2012

Issue Date:

Original Report

Report Type:

Erie Guo

Test Engineer: Eric Guo

Review By: Apollo Liu / Manager

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1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1. 2 Testing Laboratory

Site on File with the Federal Communications Commission – United Sates

Registration Number: 963441

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: 7353A

1. 4 Application Details

Date of Receipt of Application : January 13, 2012
Date of Receipt of Test Item : March 6, 2012

Date of Test : March 6~March 30, 2012

1. 5 Test Item

Manufacturer : Same As Applicant Address : Same As Applicant

Trade Name : Y-CAM, BabyPing, Vodafone HomeView

Model No.(Base) : HomeView Cam

Model No.(Extension) : BabyPing Video, Cloud Cam Description : Network Video Camera

Additional Information

Product Type : WLAN (1TX, 1RX) Radio Type : Intentional Transceiver

Power Type : DC12V/1000mA(Adapter_model: FKS308HSC-1201000N)

Modulation : see the below tables

Data Modulation : IEEE 802.11b: DQPSK, DBPSK, DSSS, and CCK

IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM

IEEE 802.11n: HT20/HT40: OFDM (64QAM,16QAM, QPSK, BPSK)

Date Rate (Mbps) : see the below table Frequency Range : 2412~2462MHz

Channel Number : For 2.4GHz Band: 11 for 20MHz bandwidth; 7 for 40MHz bandwidth

Antenna : Embedded

Antenna & Band Width

| Antenna | Single (TX) | | Tw | o (TX) |
|-----------------|-------------|--------|--------|--------|
| Band width Mode | 20 MHz | 40 MHz | 20 MHz | 40 MHz |
| 802.11a | X | X | X | X |
| 802.11b | √ | X | X | X |
| 802.11g | √ | X | X | X |
| Draft n | √ | √ | X | X |

1. 6 Test Standards

FCC 15 Subpart B

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

FCC 15 Subpart B: 2007, Class B

| Standard | Test Type | Result | Notes |
|-------------------------------|----------------|--------|----------|
| FCC Part 15, Paragraph 15.107 | Conducted Test | PASS | Complies |
| FCC Part 15, Paragraph 15.109 | Radiated Test | PASS | Complies |

3. EUT Modifications

No modification by test lab.

4. Conducted Power Line Test

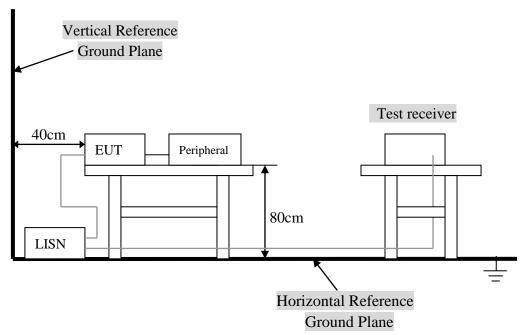
4. 1 Test Equipment

Please refer to Section 8 this report.

4. 2 Test Procedure

The EUT was tested according to ANSI C63.4 - 2003. The frequency spectrum from $\underline{0.15}$ MHz to $\underline{30}$ MHz was investigated. The LISN used was 50 ohm / 50 u-Henry as specified by section 5.1 OF ANSI C63.4 - 2003. cables and peripherals were moved to find the maximum emission levels for each frequency.

4. 3 Test Setup



For the actual test configuration, Please refer to the related items - Photos of Testing.

4. 4 Configuration of The EUTThe EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

| Device | Manufacturer | Model # | FCC ID |
|----------------------|----------------------|--------------|-------------|
| Network Video Camera | Y-cam Solutions Ltd. | HomeView Cam | V4FPINGV002 |

B. Internal Devices

| Device | Manufacturer | Model # | FCCID / DoC |
|--------|--------------|---------|-------------|
| N/A | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

C. Peripherals

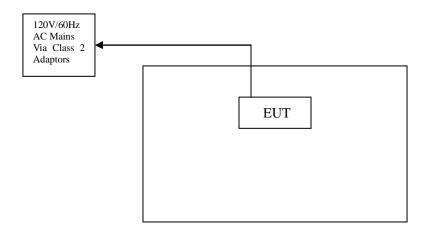
| Device | Manufacturer | Model # Serial # | FCC ID/ DoC | Cable |
|----------|--------------|---------------------|----------------|--|
| Printer | HP | HP930C | DoC | 1.5m unshielded power cord 1.2m unshielded data cable. |
| Modem | GVC | N/A | DoC | 1.5m unshielded power cord 1.2m unshielded data cable. |
| Notebook | DELL | PP10L | DoC | 1.5m unshielded power cord |
| PC | Dell | 2400n | DoC | 1.5m unshielded power cord |

FCC ID: V4FPINGV002 Y-cam Solutions Ltd.

4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 2003.

- A. Setup the EUT and simulators as shown on follow.B. Enable RF signal and confirm EUT active.
- A. Modulate output capacity of EUT up to specification.



4. 6 Conducted Power Line Emission Limits

| Frequency Range (MHz) | Class A QP/AV (dBuV) | Class B QP/AV (dBuV) |
|-----------------------|----------------------|----------------------|
| 0.15 - 0.5 | 79/66 | 66 -56/56 -46 |
| 0.5 - 5.0 | 73/60 | 56/46 |
| 5.0 - 30 | 73/60 | 60/50 |

Note: In the above table, the tighter limit applies at the band edges.

4. 7 Conducted Power Line Test Result

The frequency spectrum from $\underline{0.15}$ MHz to $\underline{30}$ MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of $\underline{9}$ KHz.

Temperature : 26 °C
 Humidity : 53 % RH
 Result : PASSED

The frequency spectrum from 0.15 MHz to 30 MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of 9 KHz.

· Temperature : $\underline{26}$ °C · Humidity : $\underline{53 \%}$ RH

Adapter Model: FKS308HSC-1201000N

| | FCC Part 15 Paragraph 15.207 | | | | | | |
|--------------------|------------------------------|-------|------------------|-----------------------|-------|----------------------|--------|
| Frequency (MHz) | Emission (dBuV) QP AV | | LINE/ NEUTRAL | Limit (dBuV) QP AV | | Margin (dB) QP AV | |
| 0.158 | 39.35 | 29.18 | Line | 65.57 | 55.57 | -26.22 | -26.39 |
| 0.190 | 36.08 | 27.57 | Neutral | 64.04 | 54.04 | -27.96 | -26.47 |
| 0.190 | 36.68 | 28.71 | Line | 64.04 | 54.04 | -27.36 | -25.33 |
| 0.518 | 34.97 | 28.05 | Neutral | 56.00 | 46.00 | -21.03 | -17.95 |
| 17.710 | 39.76 | 32.02 | Line | 60.00 | 50.00 | -20.24 | -17.98 |
| 17.170 | 33.57 | 25.79 | Neutral | 60.00 | 50.00 | -26.43 | -24.21 |

Note: NF = No Significant Peak was Found.

Note:

- 1.Uncertainty in conducted emission measured is <+/ -2dB.
- 2. The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = Emission Level Limit Value.

Conducted Emission

EN55022

EUT: Network Video Camera

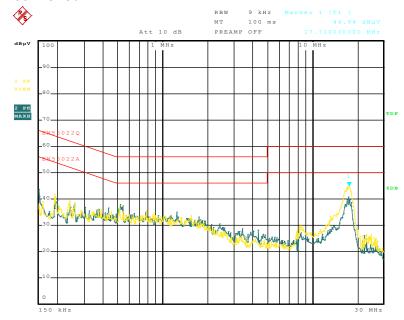
M/N: HomeView Cam

Manufacturer: Same As Applicant Operating Condition: Transmitter

Test Site: Normal Operator: Eric

Test Specification: LINE&NEUTRAL

Comment:



Date: 21.MAR.2012 13:13:13

5. Radiated Emission Test

5. 1 Test Equipment

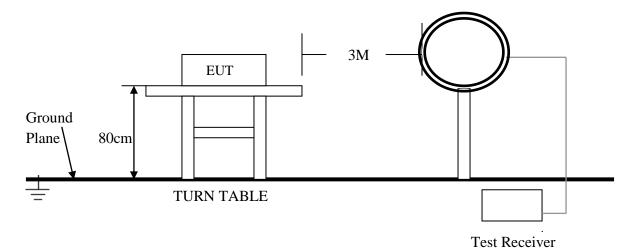
Please refer to Section 8 this report.

5. 2 Test Procedure

- 1. The EUT was tested according to ANSI C63.4 2003.
- 2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high <u>0.8</u> m. All set up is according to ANSI C63.4-2003.
- 3. The frequency spectrum from $\underline{9}$ kHz to $\underline{25}$ GHz was investigated. All readings from $\underline{9}$ kHz to $\underline{150}$ kHz are quasi-peak values with a resolution bandwidth of $\underline{200}$ Hz. All readings from $\underline{150}$ kHz to $\underline{30}$ MHz are quasi-peak values with a resolution bandwidth of $\underline{9}$ KHz. All readings from $\underline{30}$ MHz to $\underline{1}$ GHz are quasi-peak values with a resolution bandwidth of $\underline{120}$ KHz. All readings are above $\underline{1}$ GHz, peak values with a resolution bandwidth of $\underline{1}$ MHz. Measurements were made at $\underline{3}$ meters.
- 4. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency. Emissions below 30MHz were measured with a loop antenna while emission above 30MHz were measured using a broadband E-field antenna.
- 5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table
- 6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4 2003.

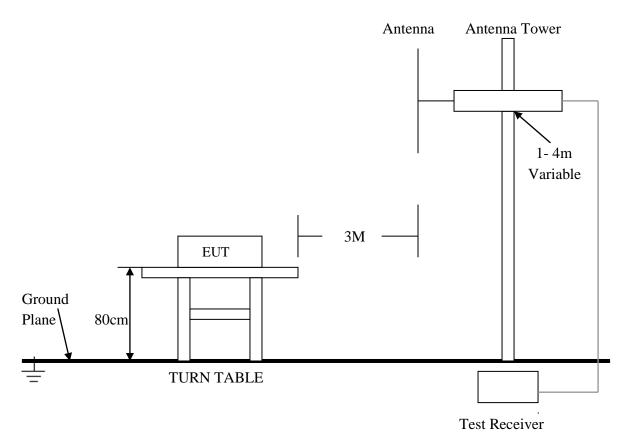
5. 3 Radiated Test Setup

For Frequencies below 30 MHz



For the actual test configuration, please refer to the related items - Photos of Testing

For Frequencies above 30 MHz



For the actual test configuration, please refer to the related items - Photos of Testing

5. 4 Configuration of The EUT

Same as section 4.4 of this report

5. 5 EUT Operating Condition

Same as section 4.5 of this report

5. 6 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.109.

| Frequency (MHz) | Distance (m) | Field Strength (dBuV/m) |
|-----------------|--------------|-------------------------|
| 30 - 88 | 3 | 40.0 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note:

- 1. In the emission tables above, the tighter limit applies at the band edges.
- 2. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.
- 3. The lower limit shall apply at the transition frequencies.

5. 7 Radiated Emission Test Result

Product : Network Video Camera Test Mode : 802.11b_CH Mid

Test Result : PASS
For Frequency Below 30MHz

Adapter Model: FKS308HSC-1201000N

| Freq. (MHz) | Emission (dBuV/m) QP Detector | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
|----------------|----------------------------------|-----------------|-----------------|----------------|
| N/A | N/A | N/A | N/A | N/A |
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- (3) Emission Level = Reading Level + Probe Factor + Cable Loss.

For Frequency Above 30MHz

Adapter Model: FKS308HSC-1201000N

| Freq. (MHz) | Emission (dBuV/m) QP Detector | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
|----------------|----------------------------------|-----------------|-----------------|----------------|
| 120.000 | 41.78 | HORZ | 43.5 | -1.72 |
| 132.000 | 41.81 | VERT | 43.5 | -1.69 |
| 311.680 | 43.12 | HORZ | 46.0 | -2.88 |
| 194.360 | 41.22 | VERT | 43.5 | -2.28 |
| 406.440 | 43.69 | HORZ | 46.0 | -2.31 |
| 354.760 | 41.03 | VERT | 46.0 | -4.97 |

Note:

- All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- (3) Emission Level = Reading Level + Probe Factor + Cable Loss.

6. Photo of Testing

6.1 Emission test view

Conducted emission test view



Radiated emission test view



6.2 Photograph - EUT

EUT top view





EUT bottom view



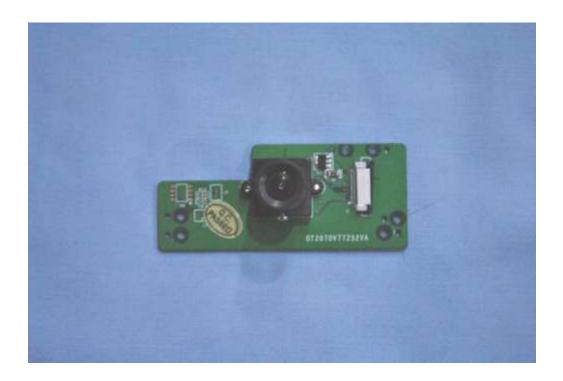


EUT inside whole view



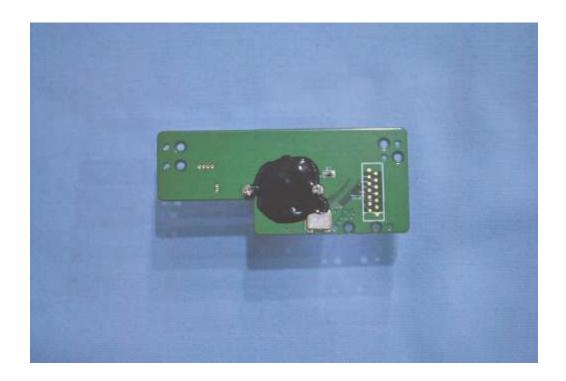
Main & RF board component side





Main & RF board solder side





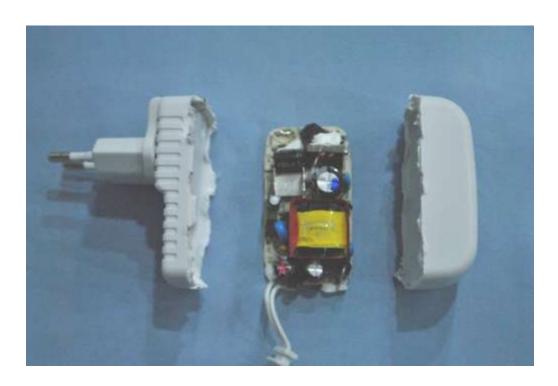
Adapter top view



Adapter side view



Adapter inside whole view



7. FCC ID Label

FCC ID: V4FPINGV002

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper label. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Label Location



8. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

| Equipment/ | Manufacturer | Model # | Serial No. | Due Date |
|------------------------------------|-----------------|----------------|-----------------|---------------|
| Facilities | | | | |
| Turntable | SinTek | N/A | N/A | NCR |
| Antenna Tower | SinTek | N/A | N/A | NCR |
| OATS | SinTek | N/A | N/A | Sep.28, 2013 |
| Bilog Antenna | SCHAFFNER | CBL6111C | 2775 | June 12, 2012 |
| Pre-Amplifier | HP | 8449B | 3008B00965 | June 12, 2012 |
| Horn Antenna | EMCO | 3115 | 9602-4659 | June 12, 2012 |
| Horn Antenna | Rohde & Schwarz | AT4560 | SB3435/03 | May 4, 2012 |
| EMI Test Receiver | Rohde & Schwarz | ESPI7 | 100013 | June 01, 2012 |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100273 | May 27, 2012 |
| Signal Generator | FLUKE | PM5418+Y/C | LO747012 | May 27, 2012 |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 872096/16 | Jan. 30, 2013 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | 9161-4079 | Sep.18, 2012 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | 9161-4080 | Sep.18, 2012 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-564 | Sep.18, 2012 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-565 | Sep.18, 2012 |
| AMN | Rohde & Schwarz | ESH3-Z5 | 100197 | May 27, 2012 |
| Pulse Limiter | SCHWARZBECK | VTSD 9561-F | 9604 | Nov.29, 2012 |
| ISN | SCHWARZBECK | NTFM 8158 CAT3 | CAT 3 8158-0010 | Nov.19, 2012 |
| ISN | SCHWARZBECK | NTFM 8158 CAT5 | CAT 5 8158-0009 | Nov.19, 2012 |
| ISN | SCHWARZBECK | NTFM 8158 CAT6 | CAT 6 8158-0012 | Nov.19, 2012 |
| KMO Shielded Room | KMO | KMO-001 | N/A | N/A |
| Coaxial Cable with N-Connectors | SCHWARZBECK | AK9515H | 95549 | Sep.18, 2012 |
| SOHO Telephone Switching System | IKE | 2000-108C | N/A | NCR |
| 3m Anechoic Chamber | Sintek | KMO-3AC | KMO-3AC-1 | May 29, 2012 |
| Temperature Chamber | TABAI | PSL-4GTW | N/A | Feb.10, 2013 |