

# EMI TEST REPORT

## FCC CERTIFICATION / INDUSTRY CANADA

**Applicant:**

LG Electronics MobileComm U.S.A., Inc.  
1000 Sylvan Avenue, Englewood Cliffs NJ 07632

**Date of Receipt: February 16, 2016**

**Date of Issue: February 29, 2016**

**Test Report No. HCT-E-1602-F044**

**HCT FRN: 0005866421**

**FCC ID :**

**ZNFR105**

**Rule Part(s) / Standard(s):** FCC CFR 47 PART 15 Subpart B Class B  
ICES-003 Issue 5 Class B

**FCC Classification:** JBP (Part 15 B – Class B Computing Device Peripheral)

**EUT Type:** 360 Camera

**IC:** 2703C-R105

**Model Name:** LG-R105

**Test Port:** USB Port

**Date of Test:** February 26, 2016- February 27, 2016

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003. (See Test Report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

**Tested By**



**Sun-Hyeong Lee**  
Test Engineer  
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**Reviewed By**



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Technical Manager  
EMC Team  
Certification Division

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## DOCUMENT HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCT-E-1602-F044	February 29, 2016	Initial Release



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**ATTACHMENT: TEST SETUP PHOTOGRAPHS**



## 1. GENERAL INFORMATION

### 1.1 Description of EUT

The 360 Camera is a smart device that allows you to easily take high quality photos and videos with dynamic audio.

<b>Model</b>	LG-R105
<b>FCC ID</b>	ZNFR105
<b>IC</b>	2703C-R105
<b>EUT Type</b>	360 Camera
<b>Bluetooth Specification</b>	V4.0
<b>WLAN Specification</b>	802.11 b/g/n
<b>USB Type</b>	Micro USB 2.0
<b>Battery</b>	1200 mAh
<b>Optics</b>	13 M, 200° x 2 (Dual Fisheye Lens)
<b>Max. Video Res</b>	2560 x 1280 (30fps)
<b>Max. Photo Res</b>	5660 x 2830 (13M)
<b>Image / Video File Format</b>	Still Image : JPEG Video : MP4 (MPEG-4 AVC/H.264, Audio : AAC 5.1Ch)
<b>Capturing</b>	Spherical / Half-spherical image & video
<b>Sound</b>	3 Mic
<b>External SD Card</b>	Up to 2 TB
<b>Dimensions / Weight</b>	40 mm x 97 mm x 25 mm / 72 g
<b>Manufacturer</b>	LG Electronics Inc. LG Twin Towers 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, Korea

**\*NOTE.** It is recommended to use a UHS-1 (U3) read/write 10MB/s or higher SD memory card. (Class 10 or higher)



## 1.2 Related Submittal(s) / Grant(s)

Original submittal only.

## 1.3 Test Facility

Test site is located at 74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, SOUTH KOREA. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2003.

Measurement Facilities	Reg. No.
HCT FRN: 0005866421 Radiated Field strength measurement facility (3 m)	90661 (February 28, 2014)
HCT FRN: 0005866421 Radiated Field strength measurement facility (10 m)	90661 (February 28, 2014)
COMPANY CODE: 5944A Filing the EMI Measurement Facility (3 m Semi Anechoic Chamber and Shielded Room)	IC 5944A-4 (August 20, 2014)
COMPANY CODE: 5944A Radiated Field Strength Measurement Facility (10 m Semi-Anechoic Chamber)	IC 5944A-2 (August 20, 2015)



## 1.4 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Manufacturer	FCC ID / IC / DoC	Connected To
EUT	LG-R105	LG	ZNFR105 2703C-R105	Notebook PC, USB cable
USB cable	EAD63849201	Ningbo Broad	-	EUT, Notebook PC
USB cable	EAD63849202	CRESYN	-	EUT, Notebook PC
USB cable	EAD63849203	KSD	-	EUT, Notebook PC
USB cable	EAD63849204	LEAGTECH	-	EUT, Notebook PC
Notebook PC	ProBook6560b	HP	DoC	EUT, Notebook PC adaptor, RJ45 cable, Serial mouse
Notebook PC adaptor	PPP009D	DELTA Electronics (Jiangsu) LTD	-	Notebook PC
Gateway	TL-WR747N	TP-LINK	-	RJ45 cable, Gateway adaptor
Gateway adaptor	T120150-2H1	TP-LINK	-	Gateway
Serial mouse	Serial 2 button mouse	Radio shack	FSUGMZE3	Notebook PC
RJ45 cable	-	-	-	Notebook PC, Gateway
Micro SD card	MB-MP32D	Samsung	-	EUT



## 1.5 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB	Y	Y	(P,D)1.0
Notebook PC	RJ 45	N/A	N	(D)2.5
	Serial (Mouse)	N/A	Y	(D)1.8
	DC in	N	N/A	(P)1.8
Gateway	DC in	N	N/A	(P)1.8

\* The marked “(D)” means the data cable and “(P)” means the power cable.

## 1.6 Noise Suppression Parts on Cable. (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	USB	N	N/A	Y	Both End
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial (Mouse)	N	N/A	Y	Notebook PC End



## 2. DESCRIPTION OF TEST

### 2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2003

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).  
If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).  
Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
- c. The frequency range from 150 kHz to 30 MHz was searched.

#### [ Conducted Emission Limits ]

Frequency (MHz)	Resolution Bandwidth (kHz)	Quasi-Peak (dB(μV))	Average (dB(μV))
0.15 to 0.5	9	66 to 56*	56 to 46*
0.5 to 5	9	56	46
5 to 30	9	60	50

*\*Decreases with the logarithm of the frequency.*



## 2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2003, Clause 8

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. The antenna height scans apply for both horizontal and vertical polarizations, except that for vertical polarization, the minimum height of the center of the antenna shall be increased so that the lowest point of the bottom of the lowest antenna element clears the site reference ground plane by at least 25 cm. (below 1 GHz)

### [ Radiated Emission Limits ]

Frequency (MHz)	Antenna Distance (m)	Field Strength ( $\mu\text{V}/\text{m}$ )	Quasi-Peak ( $\text{dB}(\mu\text{V})/\text{m}$ )
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Peak ( $\text{dB}(\mu\text{V})/\text{m}$ )	Average ( $\text{dB}(\mu\text{V})/\text{m}$ )
Above 1 000	3	74	54

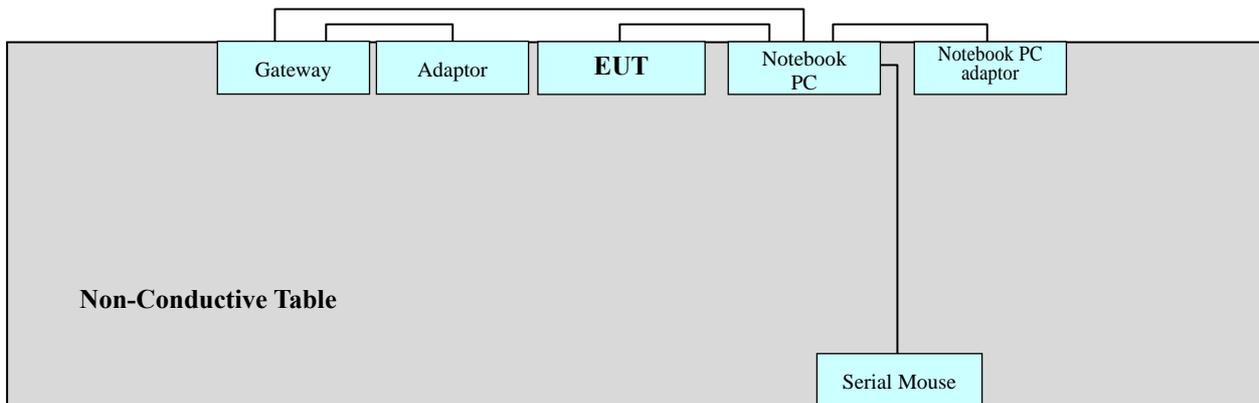


### 2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

### 2.3 Configuration of Tested System



Power Line: 120 VAC, 60 Hz



### 3. PRELIMINARY TEST

#### 3.1 Conducted Emission Test

It was tested Data Communication mode, after connecting all peripheral devices.

**Operation Mode:**       Data Communication mode

#### 3.2 Radiated Emission Test

It was tested Data Communication mode, after connecting all peripheral devices.

**Operation Mode:**       Data Communication mode



## 4. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

### 4.1 Conducted Emission Test

The test results of conducted emission at mains ports provide the following information:

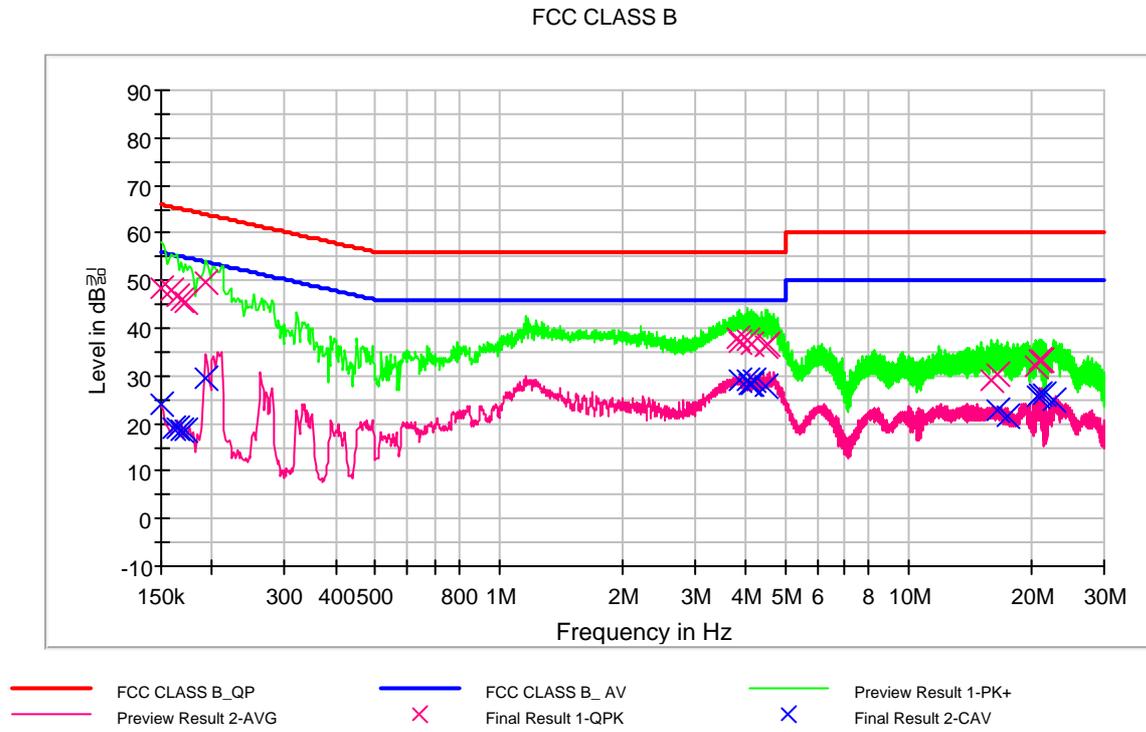
<b>Rule Part / Standard</b>	FCC PART 15 Subpart B Class B ICES-003 Issue 5 Class B
<b>Detector</b>	Quasi-Peak, CISPR-Average
<b>Bandwidth</b>	9 kHz (6 dB)
<b>Operation Mode</b>	Data Communication mode
<b>USB Cable Type</b>	CRESYN (EAD63849202) ※NOTE: The worst-case emissions are reported.
<b>Kind of Test Site</b>	Shielded Room
<b>Temperature</b>	24.0 °C
<b>Relative Humidity</b>	28.5 %
<b>Test Date</b>	February 26, 2016

#### - Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage



Figure 1: Spectral Diagrams, Conducted Emission, AC Main Port, Line (L1)





## QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	48.4	9.000	L1	9.7	17.6	66.0
0.158000	47.8	9.000	L1	9.6	17.8	65.6
0.164000	46.9	9.000	L1	9.6	18.4	65.3
0.168000	46.1	9.000	L1	9.6	19.0	65.1
0.172000	45.5	9.000	L1	9.6	19.4	64.9
0.192000	49.9	9.000	L1	9.6	14.0	63.9
3.820000	37.9	9.000	L1	9.8	18.1	56.0
3.860000	37.2	9.000	L1	9.8	18.8	56.0
4.034000	37.6	9.000	L1	9.8	18.4	56.0
4.120000	36.6	9.000	L1	9.8	19.4	56.0
4.472000	36.4	9.000	L1	9.8	19.6	56.0
4.514000	36.5	9.000	L1	9.9	19.5	56.0
15.986000	28.9	9.000	L1	10.2	31.1	60.0
16.550000	30.2	9.000	L1	10.2	29.8	60.0
20.508000	32.2	9.000	L1	10.3	27.8	60.0
20.862000	33.3	9.000	L1	10.3	26.7	60.0
20.866000	33.3	9.000	L1	10.3	26.7	60.0
21.002000	33.3	9.000	L1	10.3	26.7	60.0

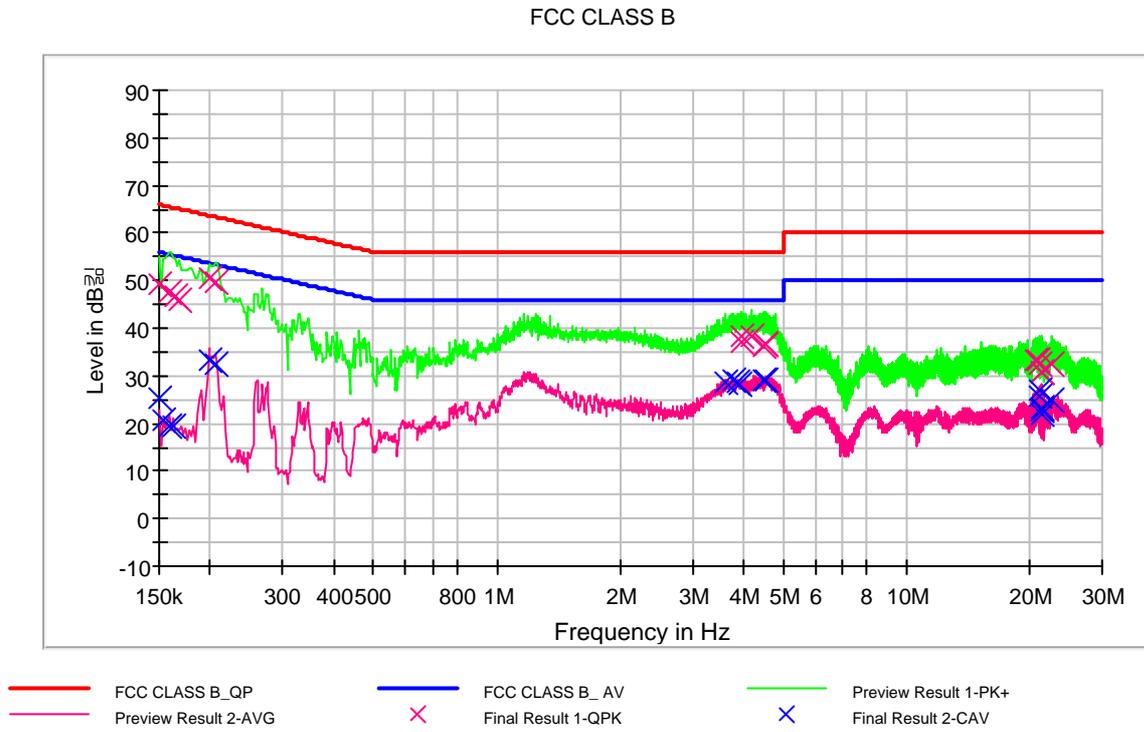


## CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	24.1	9.000	L1	9.7	31.9	56.0
0.160000	18.8	9.000	L1	9.6	36.7	55.5
0.164000	19.0	9.000	L1	9.6	36.3	55.3
0.168000	18.6	9.000	L1	9.6	36.5	55.1
0.172000	18.6	9.000	L1	9.6	36.3	54.9
0.192000	29.6	9.000	L1	9.6	24.3	53.9
3.860000	29.1	9.000	L1	9.8	16.9	46.0
4.034000	28.9	9.000	L1	9.8	17.1	46.0
4.084000	28.4	9.000	L1	9.8	17.6	46.0
4.120000	28.2	9.000	L1	9.8	17.8	46.0
4.174000	29.1	9.000	L1	9.8	16.9	46.0
4.472000	27.9	9.000	L1	9.8	18.1	46.0
16.550000	22.6	9.000	L1	10.2	27.4	50.0
17.422000	21.7	9.000	L1	10.2	28.3	50.0
20.726000	25.6	9.000	L1	10.3	24.4	50.0
20.798000	26.2	9.000	L1	10.3	23.8	50.0
21.280000	26.0	9.000	L1	10.3	24.0	50.0
22.632000	24.8	9.000	L1	10.3	25.2	50.0



Figure 2: Spectral Diagrams, Conducted Emission, AC Main Port, Line (N)





## QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	49.3	9.000	N	9.6	16.7	66.0
0.158000	47.7	9.000	N	9.6	17.9	65.6
0.164000	46.6	9.000	N	9.6	18.7	65.3
0.168000	45.9	9.000	N	9.6	19.2	65.1
0.198000	50.5	9.000	N	9.6	13.2	63.7
0.206000	49.7	9.000	N	9.6	13.7	63.4
3.940000	36.9	9.000	N	9.8	19.1	56.0
3.958000	38.5	9.000	N	9.8	17.5	56.0
4.172000	38.2	9.000	N	9.8	17.8	56.0
4.500000	36.4	9.000	N	9.8	19.6	56.0
4.528000	36.5	9.000	N	9.8	19.5	56.0
4.554000	36.6	9.000	N	9.8	19.4	56.0
20.718000	33.3	9.000	N	10.3	26.7	60.0
20.858000	33.5	9.000	N	10.3	26.5	60.0
21.082000	32.3	9.000	N	10.3	27.7	60.0
21.292000	30.8	9.000	N	10.3	29.2	60.0
21.398000	30.6	9.000	N	10.3	29.4	60.0
22.696000	32.2	9.000	N	10.3	27.8	60.0



## CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	25.2	9.000	N	9.6	30.8	56.0
0.154000	20.5	9.000	N	9.6	35.3	55.8
0.158000	19.5	9.000	N	9.6	36.1	55.6
0.162000	19.3	9.000	N	9.6	36.1	55.4
0.198000	33.3	9.000	N	9.6	20.4	53.7
0.206000	32.3	9.000	N	9.6	21.1	53.4
3.606000	28.7	9.000	N	9.8	17.3	46.0
3.784000	29.0	9.000	N	9.8	17.0	46.0
3.846000	28.6	9.000	N	9.8	17.4	46.0
3.900000	28.2	9.000	N	9.8	17.8	46.0
4.500000	29.2	9.000	N	9.8	16.8	46.0
4.554000	29.0	9.000	N	9.8	17.0	46.0
21.082000	25.6	9.000	N	10.3	24.4	50.0
21.208000	26.9	9.000	N	10.3	23.1	50.0
21.288000	23.4	9.000	N	10.3	26.6	50.0
21.292000	22.1	9.000	N	10.3	27.9	50.0
21.398000	22.8	9.000	N	10.3	27.2	50.0
22.696000	25.0	9.000	N	10.3	25.0	50.0



## 4.2 Radiated Emission Test

The test results of radiated emission provide the following information:

### -For Measurement Below 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B ICES-003 Issue 5 Class B
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operation Mode	Data Communication mode
USB Cable Type	CRESYN (EAD63849202) ※NOTE: The worst-case emissions are reported.
Kind of Test Site	3 m semi anechoic chamber
Temperature	20.9 °C
Relative Humidity	31.9 %
Test Date	February 27, 2016

Frequency (MHz)	Quasi Peak (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
54.510541	30.2	100.0	V	132.0	15.7	9.8	40.0
240.339880	35.3	144.0	H	16.0	15.9	10.7	46.0
551.985812	40.7	175.0	H	316.0	24.4	5.3	46.0

### - Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak



## -For Measurement Above 1 GHz

<b>Rule Part / Standard</b>	FCC PART 15 Subpart B Class B ICES-003 Issue 5 Class B
<b>Detector</b>	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
<b>Highest Operating Frequency</b>	1.8 GHz
<b>Testing Frequency Range</b>	1 GHz to 9 GHz
<b>Operation Mode</b>	Data Communication mode
<b>USB Cable Type</b>	CRESYN (EAD63849202) *NOTE: The worst-case emissions are reported.
<b>Kind of Test Site</b>	3 m semi anechoic chamber
<b>Temperature</b>	21.5 / 20.9 °C
<b>Relative Humidity</b>	28.7 / 31.9 %
<b>Test Date</b>	February 26, 2016 / February 27, 2016

Frequency (MHz)	Peak (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
1330.310622	51.9	100.0	V	216.0	-9.8	22.1	74.0
1400.050100	49.9	250.0	V	27.0	-9.6	24.1	74.0
2011.272545	49.1	100.0	V	230.0	-8.4	24.9	74.0

Frequency (MHz)	CAverage (dB $\mu$ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
1330.310622	28.4	100.0	V	216.0	-9.8	25.6	54.0
1400.050100	47.6	250.0	V	27.0	-9.6	6.4	54.0
2011.272545	30.0	100.0	V	230.0	-8.4	24.0	54.0

### - Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. Peak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage



## 5. LIST OF TEST EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Model Name</u>	<u>Serial Number</u>	<u>Calibration Cycle</u>	<u>CAL Date</u>
<b><u>Conducted Emission</u></b>					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	12.28.2015
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	06.11.2015
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	1 year	12.28.2015
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-
<b><u>Radiated Emission</u></b>					
<b>-For measurement below 1 GHz</b>					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	04.01.2015
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9160	3301	2 year	11.17.2014
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input checked="" type="checkbox"/> Turn Table	EMCO	1060-2M	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	EMCO	2090	9702-1224	N/A	-
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	06.05.2015
<input type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-
<b>-For measurement above 1 GHz</b>					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	04.01.2015
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input checked="" type="checkbox"/> Turn Table	EMCO	1060-2M	-	N/A	-
<input checked="" type="checkbox"/> Turn Table controller	EMCO	2090	9702-1224	N/A	-
<input type="checkbox"/> Power Amplifier	CERNEX	CBLU1183540	21691	1 year	07.06.2015
<input checked="" type="checkbox"/> Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.15.2015
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.07.2014
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	06.05.2015
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32	-	-	-



## 6. CONCLUSION

The data collected shows that the **EUT Type: 360 Camera, Model: LG-R105, FCC ID: ZNFR105** complies with §15.107 and §15.109 of the FCC rules and **IC: 2703C-R105** complies with ICES-003 Issue 5 of the IC rules.