







ISO/IEC17025 Accredited Lab.

Report No: FCC1308002 File reference No: 2013-09-11

Applicant: CEI Conrad Electronic International (HK) Limited

Product: RC EYE OneCam TX

Model No: RCE-ONE-CAMTX

Brand Name: RC Logger

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: September 11, 2013

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Date: 2013-09-11



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The 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.: 899988.

IC-Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.



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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: CEI Conrad Electronic International (HK) Limited

Address: 18/F, Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan. N.T., Hong Kong

Telephone: +852 2559 6328 Fax: +852 2964 6315

1.3 Description of EUT

Product: RC EYE OneCam TX

Manufacturer: CEI Conrad Electronic International (HK) Limited

Address: 18/F, Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan. N.T., Hong Kong

Brand Name: RC Logger

Model Number: RCE-ONE-CAMTX

Additional Model Name N/A
Additional Trade Name N/A
Rating: DC12V

Number of Channels: 8 Modulation Type: FM

Operation Frequency 5.866GHz、5.847GHz、5.828GHz、5.809GHz、5.790GHz、5.771GHz、5.752GHz、

5.733GHz

Antenna Designation Integral antenna with gain 10.0dBi

1.4 Submitted Sample

4 Samples

1.5 Test Duration

2013-07-30 to 2012-9-11

The report refers only to the sample tested and does not apply to the bulk.

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

Test Engineer 1.7

The sample tested by

Print Name: Terry Tang

2.0		Test Equip	ments		
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2013-08-23	2014-08-22
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2013-08-25	2014-08-24
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2013-08-23	2014-08-22
System Controller	CT	SC100	-		
Loop Antenna	EMCO	6502	00042960	2013-08-23	2014-08-22
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2013-08-23	2014-08-22
3m OATS			N/A	2013-08-22	2014-08-21
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2013-08-24	2014-08-23
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2013-08-24	2014-08-23
Power meter	Anritsu	ML2487A	6K00003613	2013-08-24	2014-08-23
Power sensor	Anritsu	MA2491A	32263	2013-08-24	2014-08-23
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2013-08-21	2014-08-20
LISN	AFJ	LS16C	10010947251	2013-08-21	2014-08-20
Spectrum	HP	E7405A	MY45106612	2013-08-23	2014-08-22
9*6*6 Anechoic			N/A	2013-08-22	2014-08-21
DC Power Source	LW	APS-1502	N/A	2013-08-22	2014-08-21

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249

4.0 EUT Modification

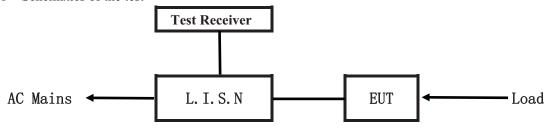
No modification by Shenzhen Timeway Technology Consulting Co., Ltd

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

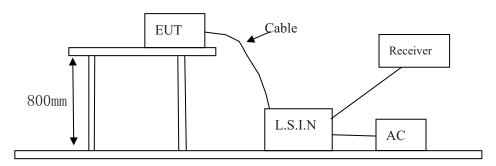


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The 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.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
RC EYE OneCam	CEI Conrad Electronic	RCE-ONE-CAMTX	24 ADVDCE ONE CAMTY
TX	International (HK) Limited	RCE-ONE-CAMITA	2AARVRCE-ONE-CAMTX

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
			FCC ID	

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Eraguanay(MHz)	Class A Li	mits (dBµV)	Class B Limits (dBµV)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
5.00 ~ 30.00	73.0	60.0	60.0	50.0	

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

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

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

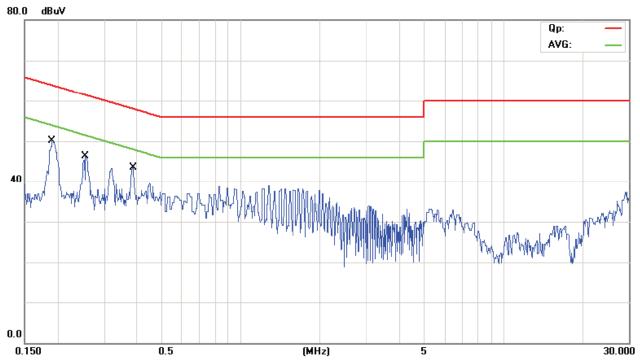
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



Fre	equency		Reading(dBµV)		Limit(dBμV)
	(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0	.1925	Live	47.85	31.50	63.93	53.93
0	.2550	Live	44.11	31.51	61.59	51.59
0	.3833	Live	41.15	32.08	58.21	48.21

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

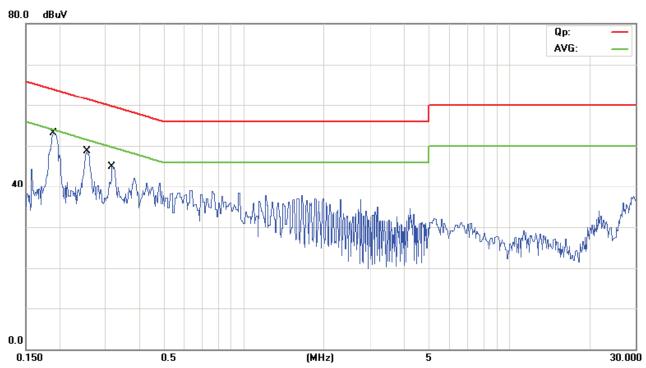
EUT set Condition: Keep Transmitting

Equipment Level: Class B

Results: Pass

Date: 2013-09-11

Please refer to following diagram for individual



Frequency	Line	Reading(dBμV)		Limit(dBμV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.1921	Neutral	51.94	38.74	63.95	53.95
0.2570	Neutral	45.81	36.71	61.53	51.53
0.3188	Neutral	42.08	37.68	59.74	49.74

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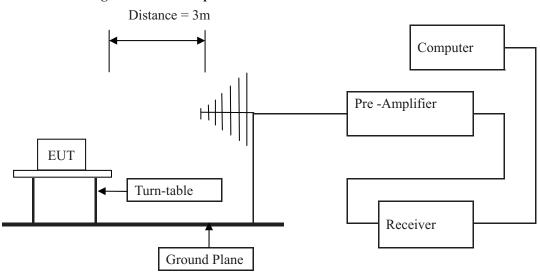
Date: 2013-09-11



6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a RBW of 1 MHz, VBW of 3MHz and PK detector; AV value with a RBW of 1 MHz, VBW of 3MHz and AV detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

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6.4 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:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Strength of Fundamental (3m)			Field S	trength of Harmo	nics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
5725-5875	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-40G, the final emission level got using PK and AV detector.

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6.5 Test result

Fundamental & Harmonics Radiated Emission Data A

Product:	RC EYE OneCam TX	Test Mode:	keep transmitting
Test Item:	Fundamental and spurious Radiated	Temperature:	25℃
	Emission Data		
Test Voltage:	12VDC	Humidity:	56%
Test Result:	Pass		

Frequency (GHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin PK/AV (dB)
5.866	103.30(PK)/ 90.22(AV)	Н	114/94	-10.7(PK)/-3.78(AV)
5.866	103.10(PK)/ 90.80(AV)	V	114/94	-10.9(PK)/-3.20(AV)
11.732		H/V	74/54	
17.598		H/V	74/54	
23.464		H/V	74/54	
29.330		H/V	74/54	
35.206		H/V	74/54	

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Product:	RC EYE OneCam TX	Test Mode:	keep transmitting
Test Item:	Fundamental and spurious Radiated	Temperature:	25℃
	Emission Data		
Test Voltage:	12VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin PK/AV
(GHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
5.809	103.87 (PK)/91.03(AV)	Н	114/94	-10.13(PK)/-2.97(AV)
5.809	103.37 (PK)/90.85(AV)	V	114/94	-10.63(PK)/-3.15(AV)
11.618		Н	74/54	
17.427		V	74/54	
23.236		H/V	74/54	
29.045		H/V	74/54	
34.854		H/V	74/54	

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Product:	RC EYE OneCam TX	Test Mode:	keep transmitting
Test Item:	Fundamental and spurious Radiated	Temperature:	25℃
	Emission Data		
Test Voltage:	12VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin PK/AV
(GHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
5.733	103.61(PK)/90.94(AV)	Н	114/94	-10.39(PK)/-3.06(AV)
5.733	104.11(PK)/91.51(AV)	V	114/94	-9.89(PK)/-2.49 (AV)
11.466		H/V	74/54	
17.299		H/V	74/54	
22.932		H/V	74/54	
28.665		H/V	74/54	
34.398		H/V	74/54	

Note: (1) PK= Peak, AV= Average

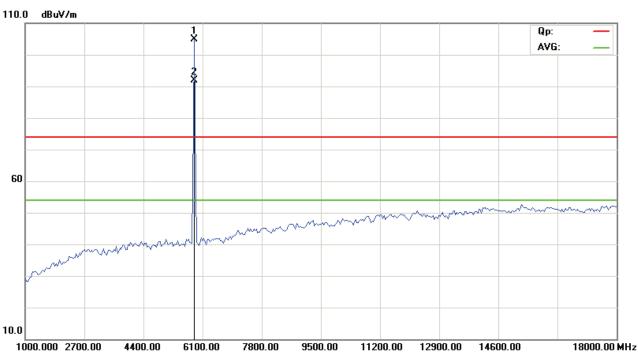
- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) The measured PK value less than the AV limit.
- (6) For Fundamental Radiated Emission Measurement, PK value with RBW=3MHz, VBW=10MHz, PK Detector; AV value with RBW=3MHz, VBW=10MHz, AV Detector;
- (7) --: mean that margin is more than 10dB.

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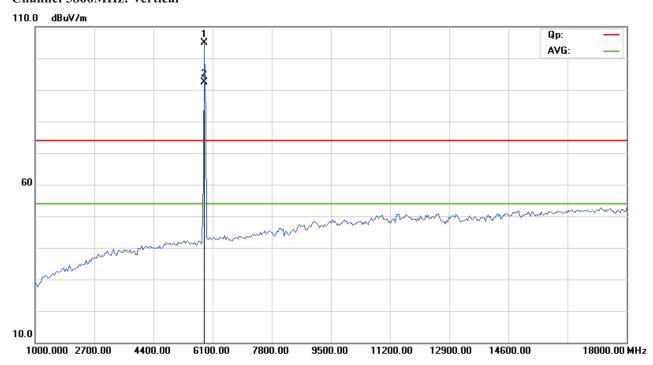


Please refer to the following test plots for details:

Channel 5866MHz: Horizontal



Channel 5866MHz: Vertical



The report refers only to the sample tested and does not apply to the bulk.

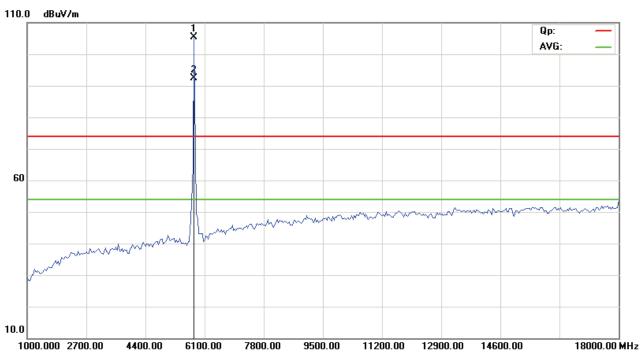
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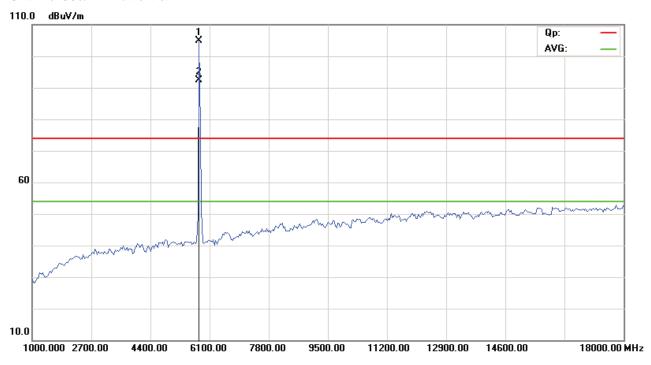
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Channel 5809MHz: Horizontal



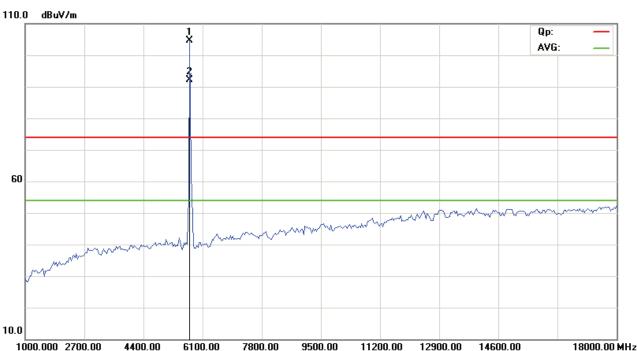
Channel 5809MHz: Vertical



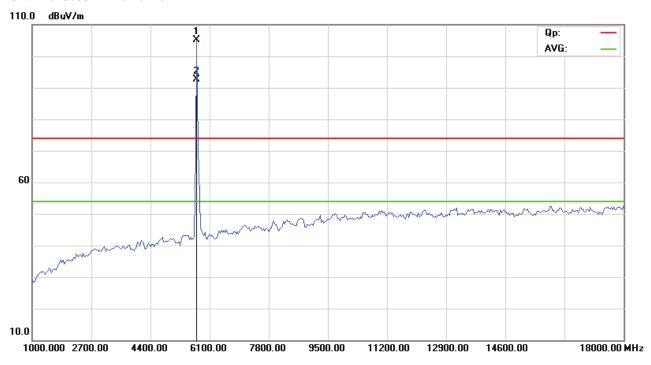
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Channel 5733Hz: Horizontal



Channel 5733MHz: Vertical



Note: for the radiated emissions from 18-40GHz, it was the floor noise.

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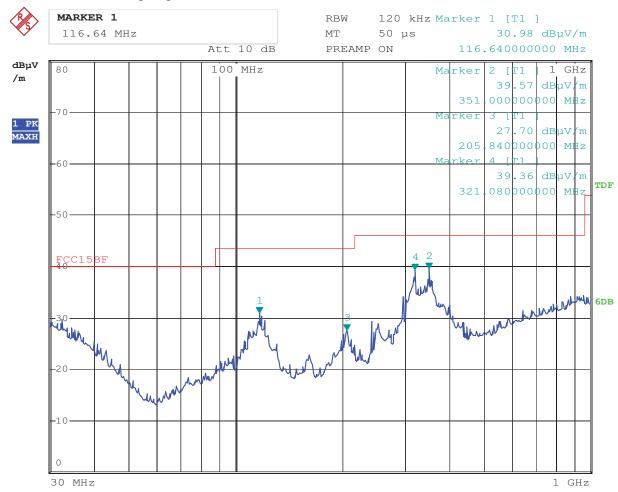


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



Date:	4.SEP.2013	12:01:09
-------	------------	----------

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
116.64	30.98	Н	43.50
351.00	39.57	Н	46
205.84	27.70	Н	46
321.08	39.36	Н	46

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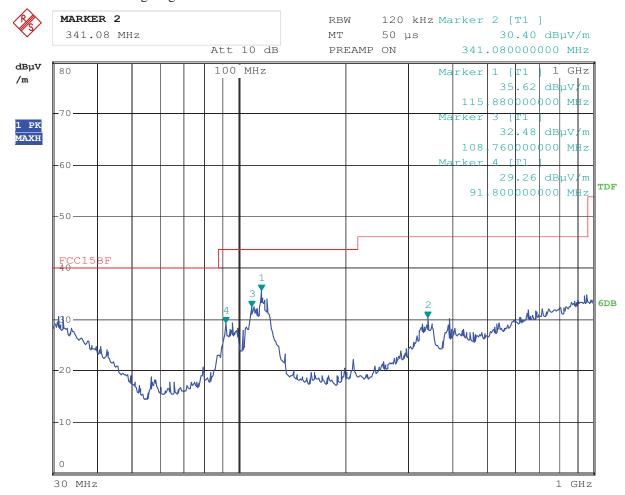


Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



Date: 4.SEP.2013 12:06:10

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \) V/m)
341.08	30.40	V	46
115.88	35.62	V	43.50
108.76	32.48	V	43.50
91.80	29.26	V	43.50

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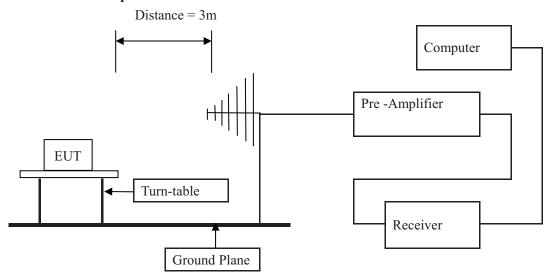


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



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

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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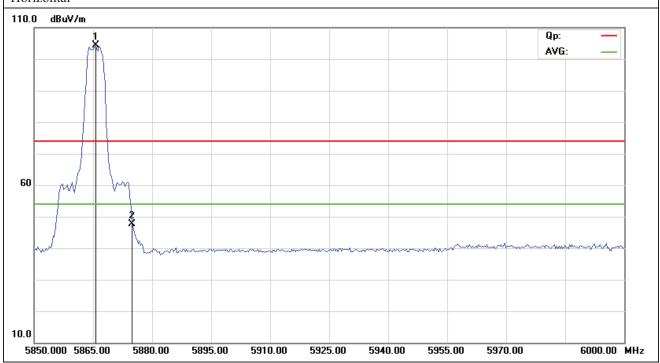
Date: 2013-09-11



7.6 Test Result

Product:	RC EYE OneCam TX		Test Mode:	Keep transmitting-High Channel
Mode	Keeping Transmitting		Test Voltage	DC12V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5875.000MHz	PK (dBμV/m)	45.99	Limit	$74(dB\mu V/m)$
	AV(dBμV/m)			54(dBµV/m)

Horizontal



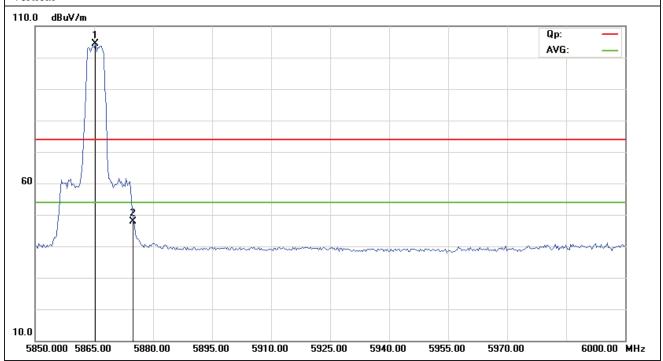
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Product:	RC EYE OneCam TX		Test Mode:	Keep transmitting-High Channel
Mode	Keeping Transmitting		Test Voltage	DC12V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5875.000MHz	PK (dBμV/m)	46.05	Limit	$74(dB\mu V/m)$
	AV(dBμV/m)			54(dBμV/m)

Vertical



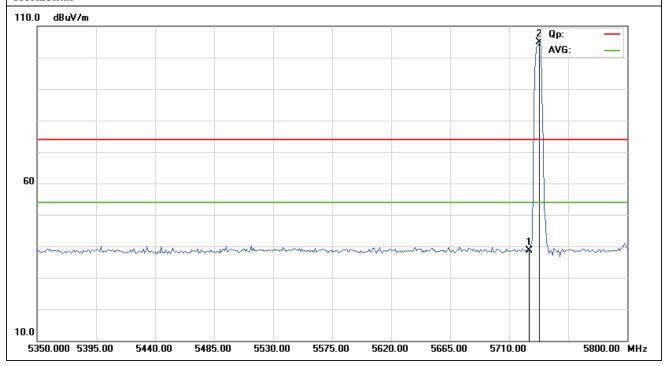
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Date: 2013-09-11



Product:	RC EYE OneCam TX		Test Mode:	Keep transmitting-Low Channel
Mode	Keeping Transmitting		Test Voltage	DC12V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725.000MHz	PK (dBμV/m)	37.52	Limit	$74(dB\mu V/m)$
	AV(dBμV/m)			54(dBμV/m)

Horizontal



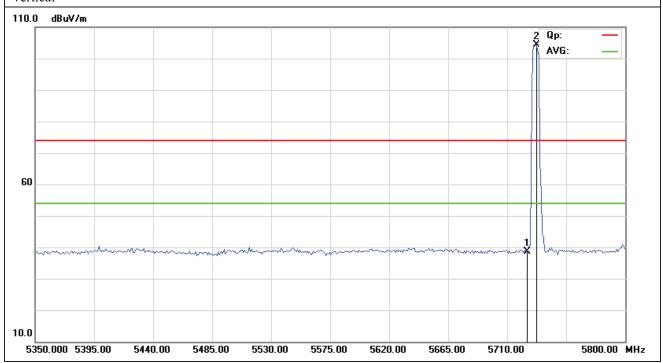
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Date: 2013-09-11



Product:	RC EYE OneCam TX		Test Mode:	Keep transmitting-Low Channel
Mode	Keeping Transmitting		Test Voltage	DC12V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725.000MHz	PK (dBμV/m)	37.47	Limit	$74(dB\mu V/m)$
	AV(dBμV/m)			54(dBµV/m)

Vertical



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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

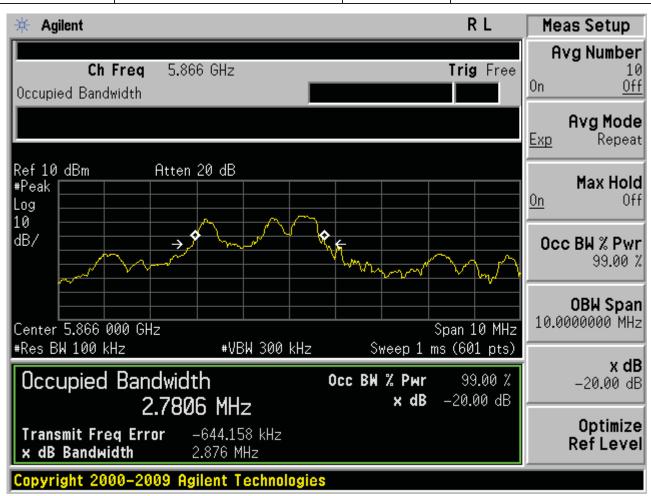
This product has an Integrated antenna with gain 10.0dBi; fulfill the requirement of this section.

Test Result: Pass

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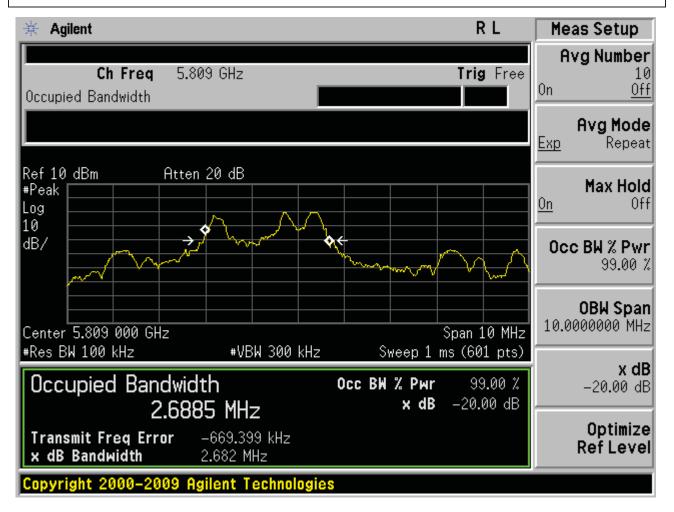
9.0 20dB Bandwidth Measurement					
Product:	RC EYE OneCam TX	Test Mode:	Keep transmitting-5866MHz		
Mode	Keeping Transmitting	Test Voltage	DC12V		
Temperature	24 deg. C,	Humidity	56% RH		
Test Result:	Pass	Detector	PK		
20dB Bandwidth	2.876MHz				



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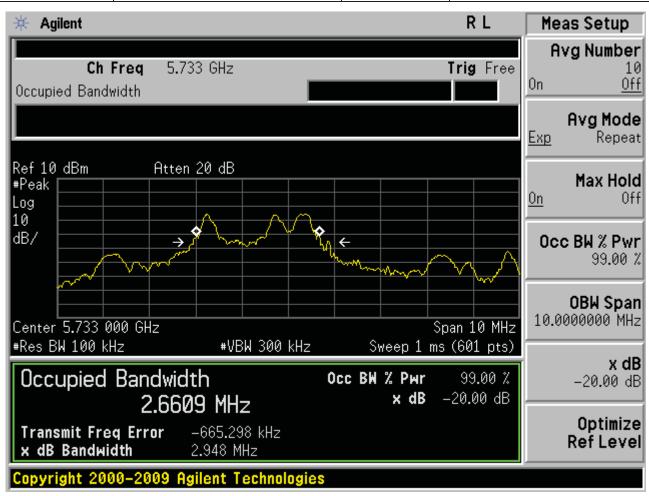
9.1 20dB Bandwidth Measurement					
Product:	RC EYE OneCam TX	Test Mode:	Keep transmitting-5809MHz		
Mode	Keeping Transmitting	Test Voltage	DC12V		
Temperature	24 deg. C,	Humidity	56% RH		
Test Result:	Pass	Detector	PK		
20dB Bandwidth	2.682MHz				



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9.2 20dB Bandwidth Measurement					
Product:	RC EYE OneCam TX	Test Mode:	Keep transmitting-5733MHz		
Mode	Keeping Transmitting	Test Voltage	DC12V		
Temperature	24 deg. C,	Humidity	56% RH		
Test Result:	Pass	Detector	PK		
20dB Bandwidth	2.948MHz				



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10.0 FCC ID Label

Date: 2013-09-11

FCC ID: 2AARVRCE-ONE-CAMTX

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11.0 Photo of testing

11.1 Conducted test View—N/A

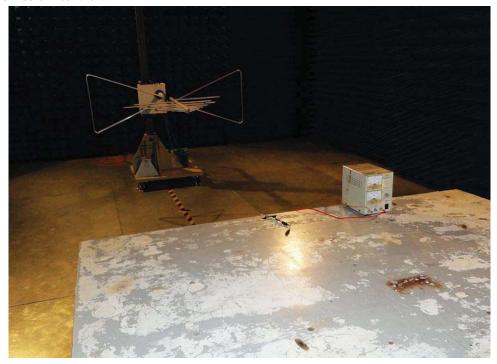


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11.2 Radiated emission test view





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Photographs - EUT





The report refers only to the sample tested and does not apply to the bulk.

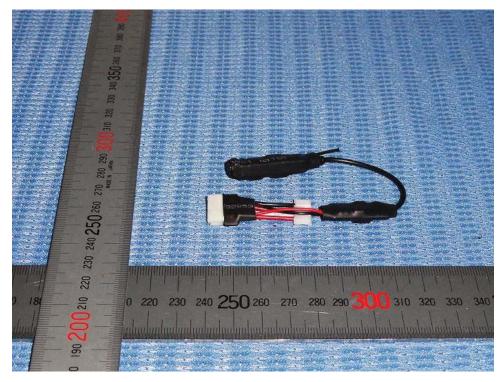
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Photographs – EUT



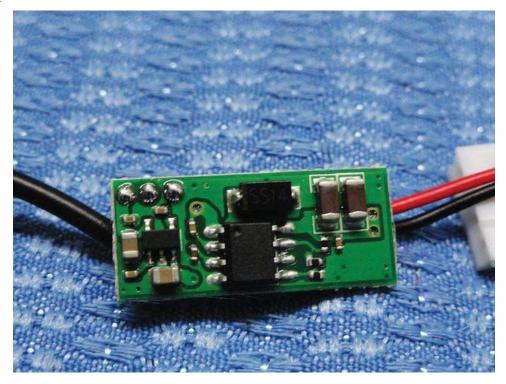


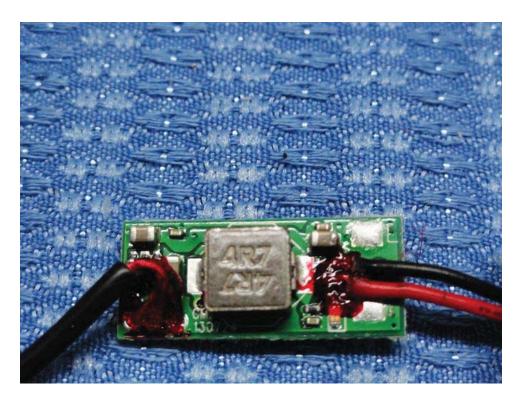
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Photographs – EUT



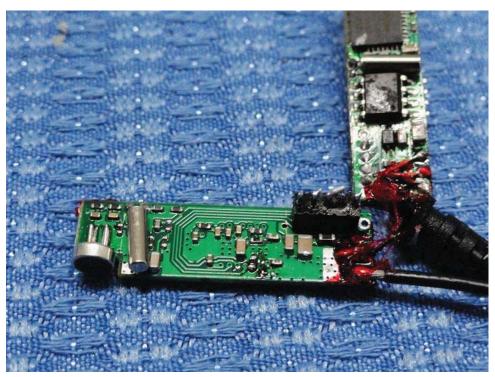


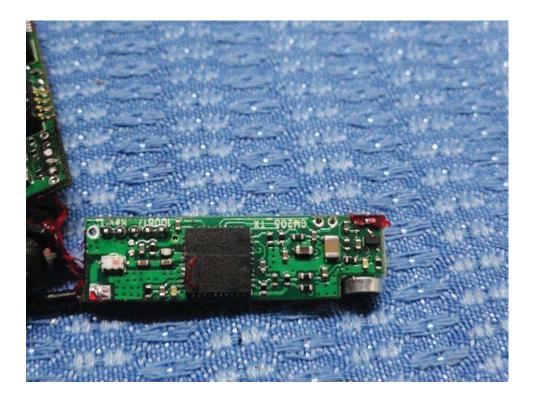
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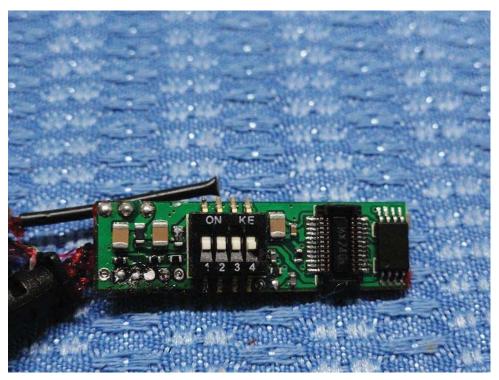
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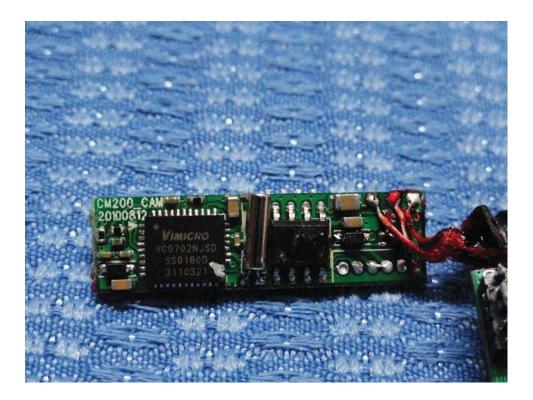
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Photographs – EUT





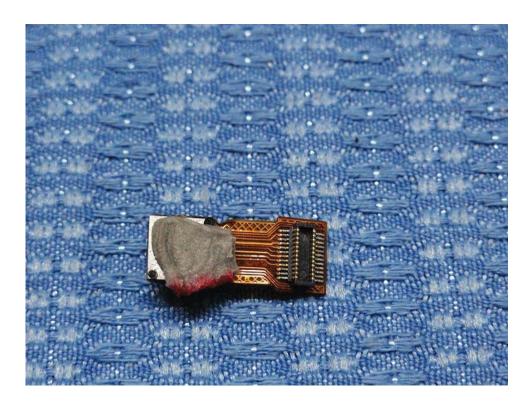
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