

Test Report

FCC Part15 Subpart E

Product Name : 3-Axis Gimbal Camera
Model No. : CGO2+
FCC ID : 2ACS5-CGO2-GB

Applicant : Yuneec Technology Co., Limited
Address : 2/F Man Shung Industrial Building, 7 Lai Yip Street, Kwun
Tong, Hong Kong

Date of Receipt : Mar. 17, 2015
Test Date : Mar. 17, 2015~Apr. 02, 2015
Issued Date : Apr. 21, 2015
Report No. : 1530328R-RF-US-P06V01
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement any agency of the government.

The test report shall not be reproduced without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : Apr. 21, 2015
Report No. : 1530328R-RF-US-P09V01



Product Name : 3-Axis Gimbal Camera

Applicant : Yuneec Technology Co., Limited

Address : 2/F Man Shung Industrial Building, 7 Lai Yip Street, Kwun Tong, Hong Kong

Manufacturer : Good Power Technology Co., Ltd.

Address : No.388 East Zhengwei Road, Jinxi Town, Kunshan, Jiangsu 215324, China

Model No. : CGO2+

FCC ID : 2ACS5-CGO2-GB

EUT Voltage : DC: 5V

Brand Name : YUNEEC

Applicable Standard : FCC CFR Title 47 Part 15 Subpart E: 2014
ANSI C63.4: 2014; ANSI C63.10: 2013
KDB 789033 D02 New Rules v01

Test Result : Complied

Performed Location : Suzhou EMC Laboratory
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FCC Registration Number: 800392

Documented By : _____

Reviewed By : _____

Approved By : _____

Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	:	BSMI, NCC
Germany	:	TUV Rheinland
Norway	:	Nemko, DNV
USA	:	FCC
Japan	:	VCCI
China	:	CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site :<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
<http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1530328R-RF-US-P09V01	V1.0	Initial Issued Report	Apr. 21, 2015

1. General Information

1.1. EUT Description

Product Name	3-Axis Gimbal Camera
Brand Name	YUNEEC
Model No.	CGO2+
EUT Voltage	DC 5V
Frequency Range	802.11a: 5745~5825MHz
Channel Number	802.11a: 5
Type of Modulation	802.11a: OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps
Channel Control	Auto
Antenna Delivery	1*Tx + 1*Rx
Peak Antenna Gain	0 dBi

802.11a(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	N/A	N/A	N/A	N/A	N/A	N/A

Duty Cycle

Test Mode	Duty Cycle
802.11a	98%

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11a

Note:

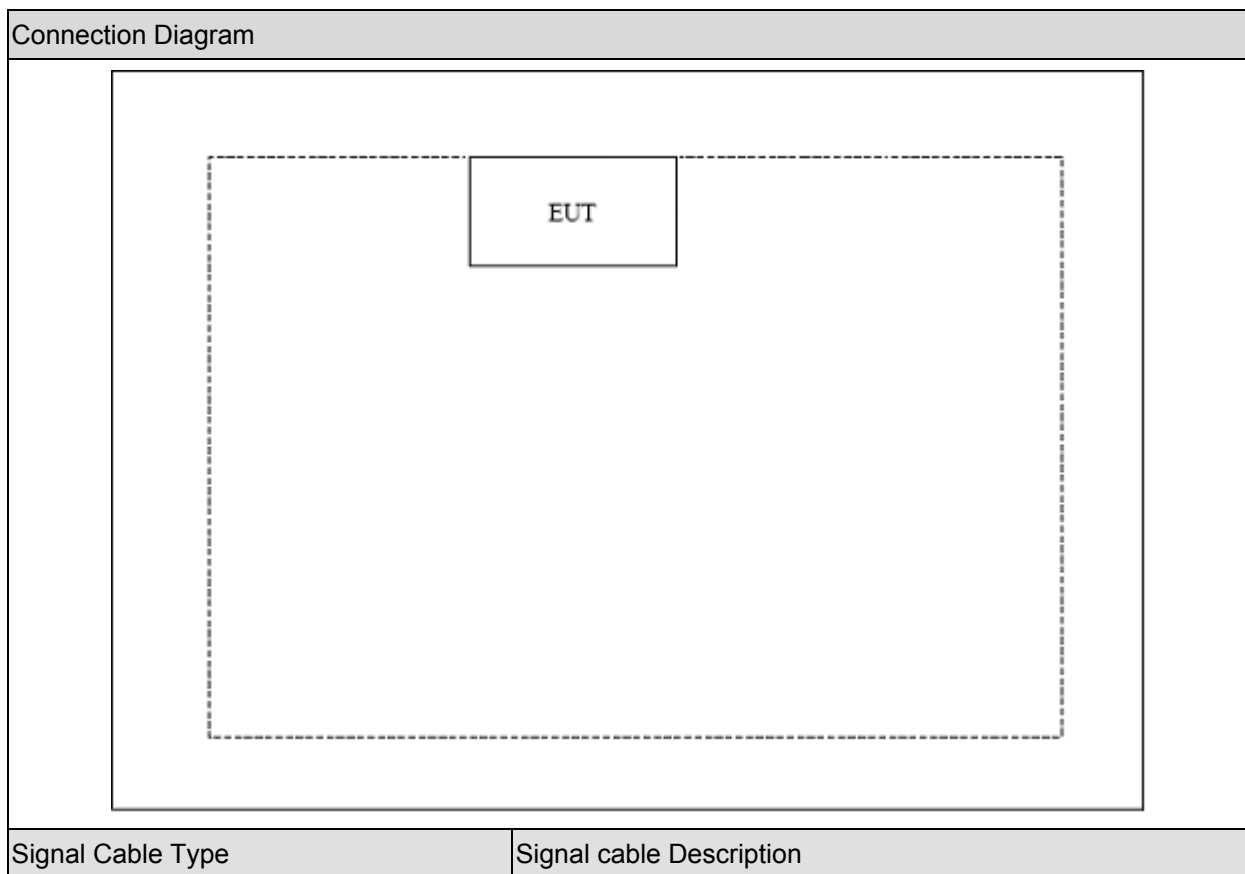
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	N/A	N/A	N/A	N/A	N/A

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Run the RF test software "UltraEdit", and set the test mode and channel, then press OK to start continue transmit or receive.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

FCC CFR Title 47 Part 15 Subpart E: 2014

Performed Test Item	FCC Rule	Test Performed	Deviation
Conducted Emission	§15.207	No	No
Radiated Emission	§ 15.209	Yes	No
6dB&99% Occupied Bandwidth	§ 15.407(a)(5)&(e)	No	No
Power Output	§15.407(a)(3)	Yes	No
Peak Power Spectral Density	§15.407(a)(3)	No	No
Radiated Emission Band Edge	§15.407(b)(4)	Yes	No
Frequency Stability	§15.407(g)	No	No

This report is for non-critical circuit changed and asking for permissive change, so only output power and radiated spurious emission test were performed.

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. Radiated Emission

3.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.10
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.17
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2015.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.01
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2016.01.07

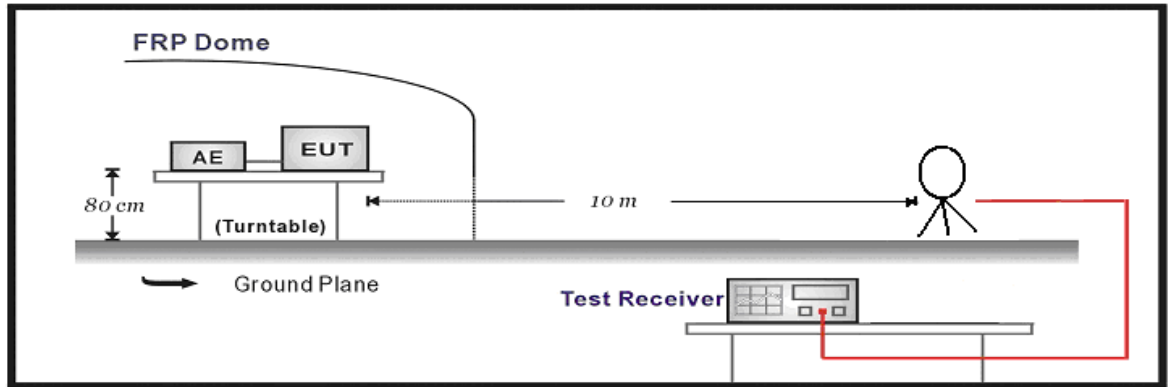
Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2016.03.10
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.07
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2015.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.07

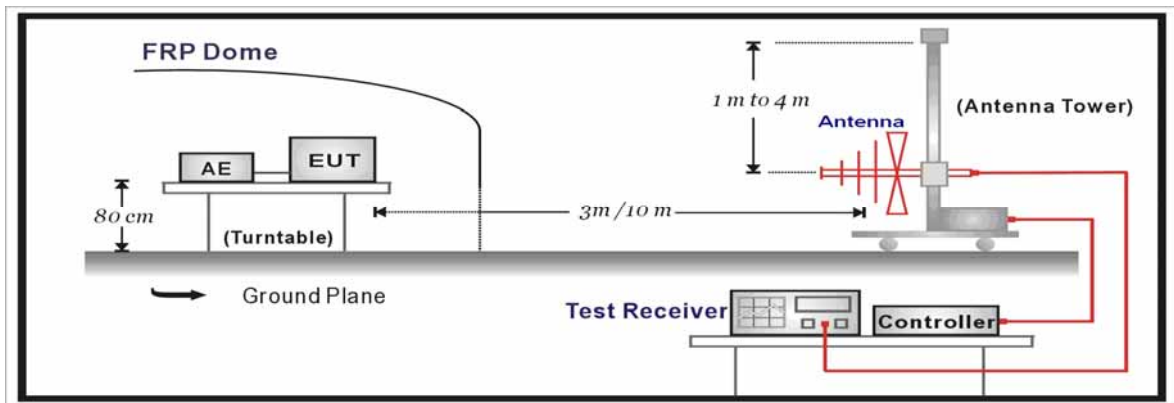
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup

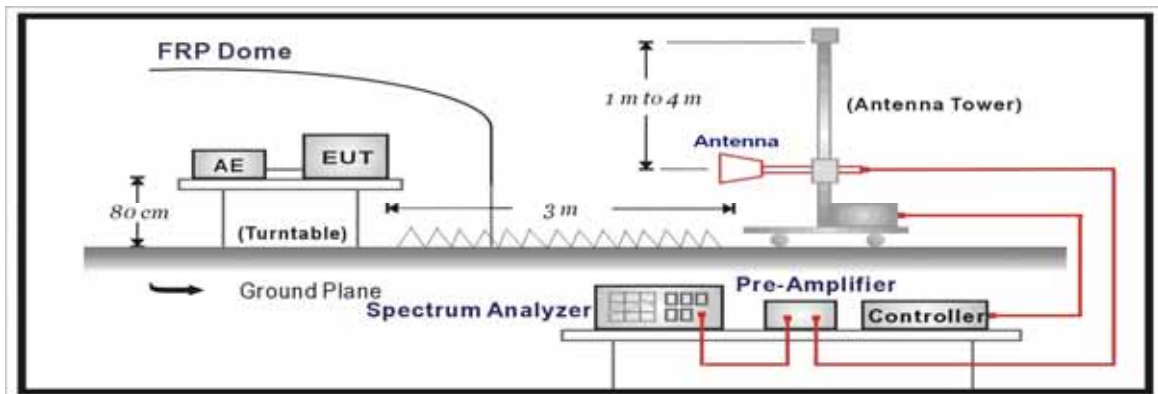
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



3.3. Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument Chainenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

3.4. Test Procedure

The EUT was tested according to ANSI C63.4:2014&ANSI C63.10:2013 &KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from Chainenna to the EUT was 3 meters.

The Chainenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the Chainenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2014 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn Chainenna will be bended down a little (as horn Chainenna has the narrow beamwidth) in order to keeping the Chainenna in the “cone of radiation” of EUT. The 3dB beamwidth is 60~10 degrees for H-plane and 90~10 degrees for E-plane.

The measurement was applied in a semi-anechoic chamber. While testing for spurious

emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna.

The EUT and simulators were placed on a 0.8m high wooden turntable above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

The EUT was tested according to KDB 789033D02 Section II G.4/5/6, for the average unwanted emission measurements above 1GHz, use KDB 789033D02 Section II G. 6(c) Method AD (Average Detection).

The radiated emission was measured using the Spectrum Analyzer with the resolutions bandwidth & method set as:

RBW = 100kHz, VBW = 300kHz, Detector: CISPR QP (30MHz~1GHz)

RBW = 1MHz, VBW = 3MHz, Detector: Peak (>1GHz for PK)

RBW = 1MHz, VBW = 3MHz, Detector: RMS

Use power average type, perform a trace average of at least 100 traces. (>1GHz for AV)

3.5. Uncertainty

The measurement uncertainty above 1GHz is defined as ± 3.9 dB

below 1GHz is defined as ± 3.8 dB

3.6. Test Result

Mode1: Transmit by 802.11a

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
149	H	11490.0	30.4	13.6	44.0	54(Note3)	-10.0	PK
	H	17235.0	31.6	18.8	50.4	54(Note3)	-3.6	PK
	V	11490.0	30.3	13.5	43.8	54(Note3)	-10.2	PK
	V	17235.0	31.8	18.8	50.6	54(Note3)	-3.4	PK
157	H	11570.0	31.1	13.8	44.9	54(Note3)	-9.1	PK
	H	17355.0	31.8	19.1	50.9	54(Note3)	-3.1	PK
	V	11570.0	31.4	13.8	45.2	54(Note3)	-8.8	PK
	V	17355.0	31.4	19.1	50.5	54(Note3)	-3.5	PK
165	H	11650.0	30.0	14.2	44.2	54(Note3)	-9.8	PK
	H	17475.0	31.7	19.5	51.2	54(Note3)	-2.8	PK
	V	11650.0	29.9	14.2	44.1	54(Note3)	-9.9	PK
	V	17475.0	31.1	19.5	50.6	54(Note3)	-3.4	PK

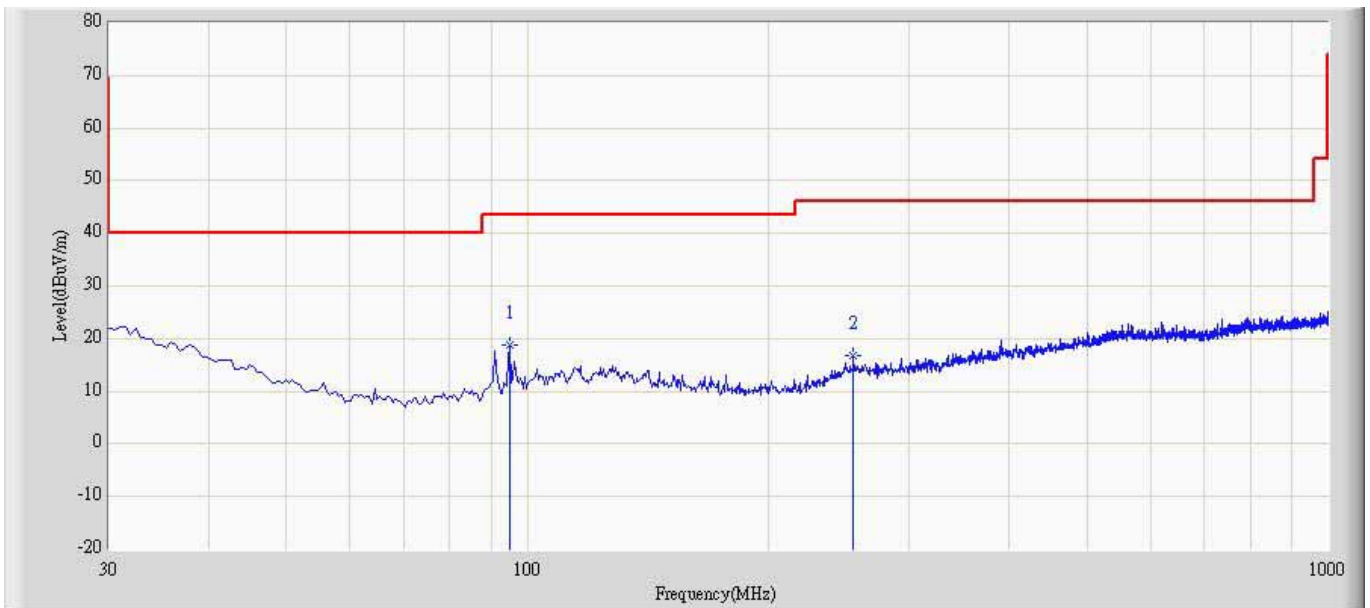
Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

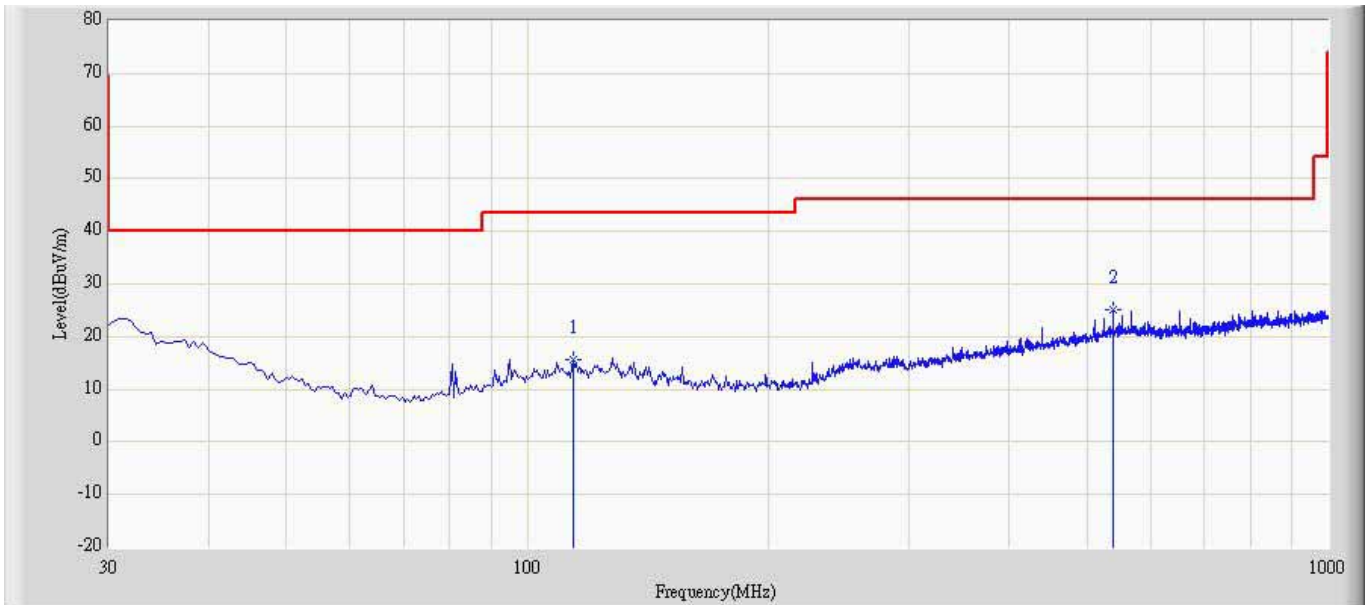
The worst case of Radiated Emission below 1GHz:

Engineer: Nam	
Site: AC2	Time: 2015/04/17 - 14:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D_(30-2000MHz)	Polarity: Horizontal
EUT: 3-Axis Gimbal Camera	Power: By Battery
Note: Mode1: Transmit at channel 5745MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	94.990	18.717	8.038	-24.783	43.500	10.679	QP
2		255.525	16.892	2.401	-29.108	46.000	14.491	QP

Engineer: Nam	
Site: AC2	Time: 2015/04/17 - 15:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D_(30-2000MHz)	Polarity: Vertical
EUT: 3-Axis Gimbal Camera	Power: By Battery
Note: Mode1: Transmit at channel 5745MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		113.905	15.665	2.990	-27.835	43.500	12.675	QP
2	*	539.250	25.255	4.343	-20.745	46.000	20.912	QP

4. Power Output

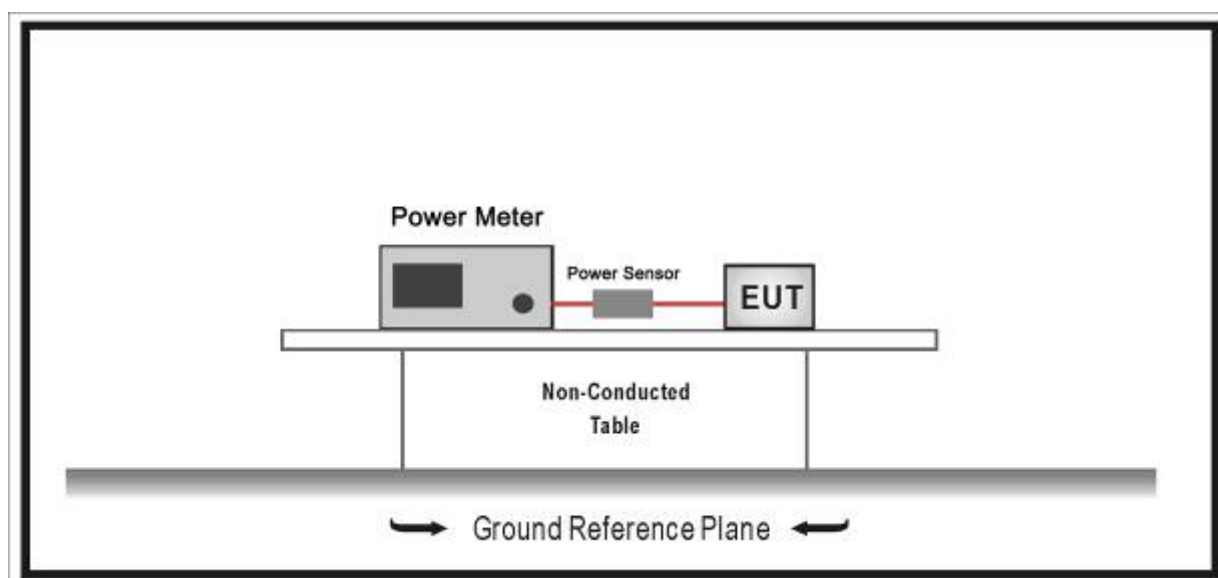
4.1. Test Equipment

Power Output / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.07
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2015.04.09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup



4.3. Limit

According to 15.407(a)(3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing

high gain directional antennas are used exclusively for fixed, point-to-point operations

According to 15.407(a)(4)

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

4.4. Test Procedure

The EUT was tested according to ANSI C63.4:2014&ANSI C63.10:2013 &KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

a) Method PM (Measurement using an RF average power meter):

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in section II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).

Use the wideband power meter to test RMS power and record the result.

4.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

4.6. Test Result

Power output test was verified over all data rates 6/9/12/18/24/36/48/54Mbps, and the 6Mbps was the worst case and data was recorded in the result.

Product	:	3-Axis Gimbal Camera
Test Item	:	Power Output
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a

Output Power Results

Channel No.	Frequency (MHz)	Meas Power (dBm)	Power Limit(dBm)	Power Margin(dBm)	Result
149	5745	10.73	30.00	-19.27	Pass
157	5785	10.89	30.00	-19.11	Pass
165	5825	10.64	30.00	-19.36	Pass

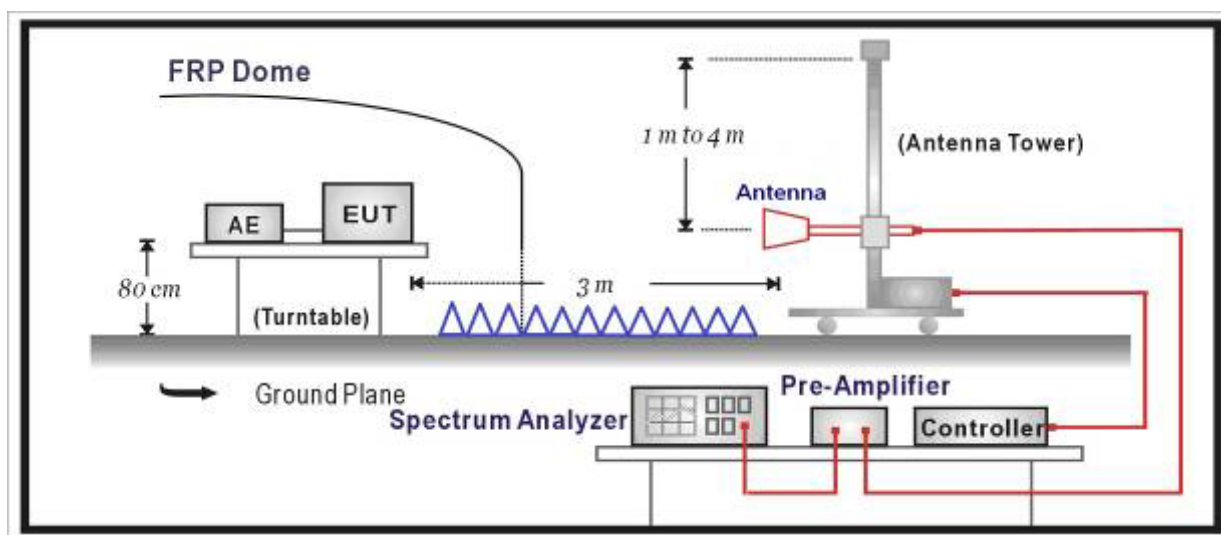
5. Radiated Emission Band Edge

5.1. Test Equipment

☒ Radiated Emission Band Edge / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2016.03.10
Preamplifier	Miteq	NSP1800-25	1364185	2016.03.10
Preamplifier	QuieTek	AP-040G	CHM-0906001	2016.03.10
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2015.10.15
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.07
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.07

5.2. Test Setup



5.3. Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

For 15.407(b) requirement:

- For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBuV/m)
5150 - 5250	-27	68.2
5250 - 5350	-27	68.2
5470 - 5725	-27	68.2
5725 - 5825	-27 [Note(1)]	68.2
	-17 [Note(2)]	78.2

Note(1): Outside the frequency range 5715 - 5835MHz.

Note(2): Within the frequency range from the band edge to 10MHz below or above the band edge, 5715 – 5725MHz and 5825 - 5835MHz.

5.4. Test Procedure

The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2009 on radiated measurement.

Note: When doing emission measurement above 1GHz, the horn Chainenna will be bended down a little (as horn Chainenna has the narrow beamwidth) in order to keeping the Chainenna in the “cone of radiation” of EUT. The 3dB beamwidth is 10~60 degrees for H-plane and 10~90 degrees for E-plane.

According to KDB 789033 D02: section G3 d) (ii)

(ii) Integration Method

- For maximum emissions measurements, follow the procedures described in section II.G.5., “Procedures for Unwanted Maximum Emissions Measurements above 1000 MHz”, except for the following changes:
 - Set RBW = 100 kHz
 - Set VBW $\geq 3 \cdot$ RBW
 - Perform a band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured. CAUTION: You must ensure that the spectrum analyzer or EMI receiver is set for peak-detection and max-hold for this measurement.
- For average emissions measurements, follow the procedures described in section II.G.6., “Procedures for Average Unwanted Emissions Measurements above 1000 MHz”, except for the following changes:
 - Set RBW = 100 kHz
 - Set VBW $\geq 3 \cdot$ RBW
 - Perform a band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.

5.5. Uncertainty

The measurement uncertainty above 1GHz is defined as ± 3.9 dB

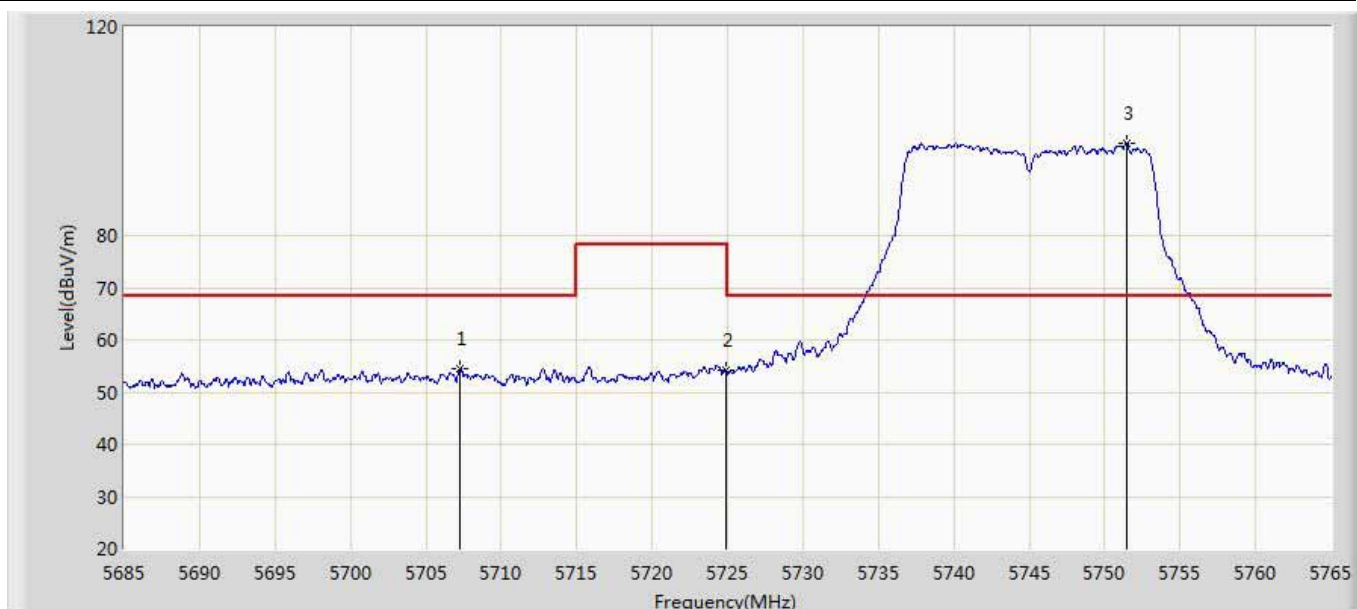
5.6. Test Result

For band edge points:

Peak detector: RBW = 100kHz, VBW = 300kHz, detector = peak, sweep time = auto; power integration across 1MHz.

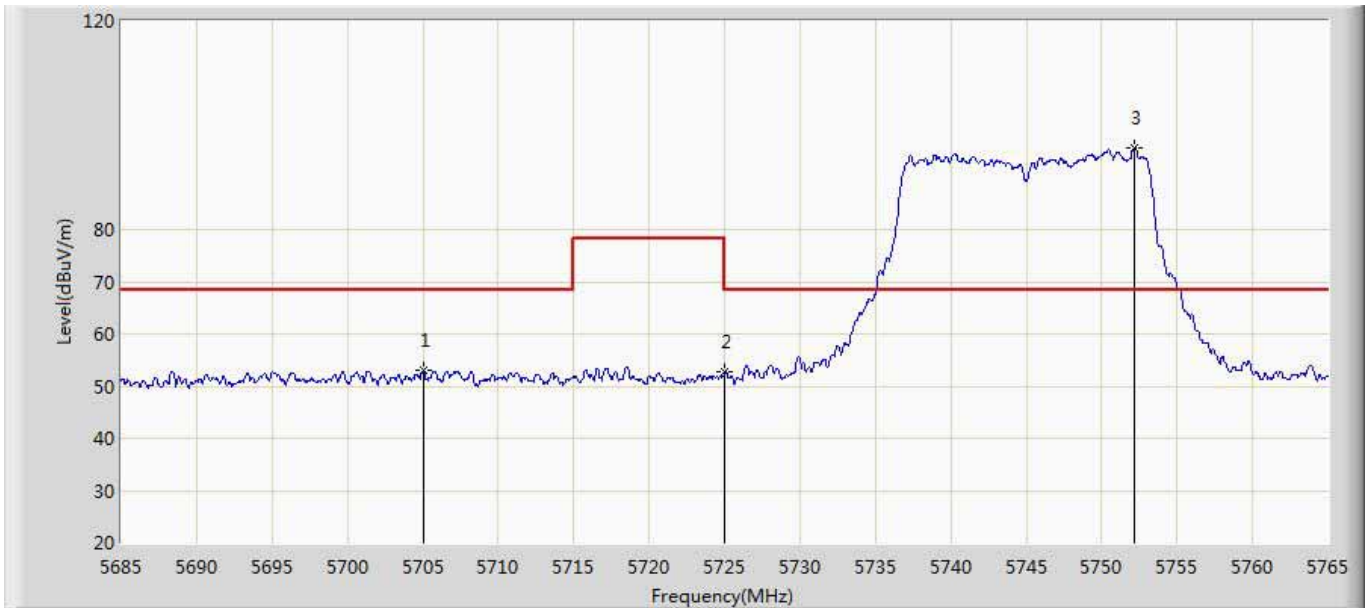
Average detector: RBW = 100kHz, VBW = 300kHz, detector = RMS, sweep time = auto.

Engineer: Nam	
Site: AC5	Time: 2015/03/27 - 13:23
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 3-Axis Gimbal Camera	Power: By Battery
Note: Mode 1: Transmit at channel 5745MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5707.280	54.368	12.849	-13.832	68.200	41.519	PK
2		5724.880	54.153	12.610	-24.047	78.200	41.543	PK
3	*	5751.440	97.815	56.238	N/A	N/A	41.577	PK

Engineer: Nam	
Site: AC5	Time: 2015/03/31 - 10:31
Limit: FCC-15.407	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 3-Axis Gimbal Camera	Power: By Battery
Note: Mode 1: Transmit at channel 5745MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5705.000	52.904	11.390	-15.296	68.200	41.514	PK
2		5725.040	52.648	11.105	-15.552	78.200	41.543	PK
3	*	5752.200	95.693	54.115	N/A	N/A	41.578	PK

————— The End —————