DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY

We; Hanwha Techwin Company Limited
DECLARE UNDER OUR SOLE RESPONSIBILITY THAT THE PRODUCT;

Report No:	KES-E1-16T0011
Type of equipment:	ANALOG CAMERA
Model Name:	SCD-6023RP
Applicant:	Hanwha Techwin Company Limited
Address:	1204,Changwon-daero, Seongsan-gu, Chang-won-si, Gyeongsangnam-do,Korea
Manufacturer :	Tianjin Samsung Techwin Opto-Electronic Co., Ltd.
Address:	No.11 Weiliu Rd,Micro-Electronic Industrial Park,TEDA,Tianjin,300385,People's Republic of China
Test standards :	AS/NZS CISPR22:2009+A1:2010
Classification:	C-Tick

The above equipment was tested by EMC compliance Testing Laboratory for with the requirements of C-tick Rules and Regulations. The results of testing in this report apply to the product / system which was tested only.

Jan. 22. 2015
(Date of issue)

(Name and signature of authorized person)

EMC TEST REPORT For C-TICK

Test Report No.	:	KES-E1-16T0011
Date of Issue	:	Jan. 22, 2016
Product name	:	ANALOG CAMERA
Model/Type No.	:	SCD-6023RP
Variant Model	:	-
Applicant	:	Hanwha Techwin Company Limited
Applicant Address	:	204, Changwon-daero, Seongsan-gu, Changwon-si, Gyeongsangnam-do, korea
Manufacturer	:	Tianjin Samsung Techwin Opto-Electronic Co., Ltd.
Manufacturer Address	:	No.11 Weiliu Rd,Micro-Electronic Industrial Park, TEDA, Tianjin, 300385, People's Republic of China
Date of Receipt	:	Jan. 06, 2016
Test date	:	Jan. 18, 2016 – Jan. 18, 2016
Test Results	:	☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Hyo Jin, Kim
EMC Test Engineer

Reviewed by

Dong-Hun, Jang
EMC Technical Manager

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REPORT REVISION HISTORY

Date	Revision	Page No
Jan. 22, 2016	KES-E1-16T0011	Issued

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1.0 General Product Description

Main Specifications of EUT are:

specifications

SPECIFICATIONS

	SCD-6023RN	SCD-6023RP
Video		
Imaging Device	1/2.9" 2M CMOS	
Total Pixels	2,000(H) x 1,121(V) 2.24M pixels	
Effective Pixels	1,984(H) x 1,105(V) 2.19M pixels	
Scanning System	Progressive Scan	
Horizontal Resolution	1000TVL	
Min. Illumination	Color : 0.45Lux (F2.1, 50IRE); 0.25Lux (F2.1, 30IRE) B/W : 0Lux(IR LED on)	
S / N Ratio	52dB (AGC off, Weight on)	
Video Output	BNC(AHD, CVBS Selectable)	
Resolution	1920 x 1080	
Max, Framerate	30fps @1080p, 30fps@ 720p	
Lens Type		
Focal Length (Zoom Ratio)	4mm	
Max. Aperture Ratio	F2.1	
Angular Field of View	H : 82.2°/ V : 44.1°/D : 97.8°	
Min. Object Distance	0.5m (1.64ft)	
Focus Control	Manual	
Lens Type	Fixed	
Mount Type	Board-in type	
Operational		
On Screen Display	Multi-language Support(16) English, Japanese, Spanish, French, Portuguese, Korean, German, Italian, Russian, Polish, Czech, Romanian, Serbian, Swedish, Danish, Turkish	
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	Off / User BLC / HLC	
Wide Dynamic Range	D-WDR	
Digital Noise Reduction	SSNR4 (Off / On)	
Defog	AUTO / MANUAL / OFF	

30_ specifications

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● SPECIFICATIONS

	SCD-6023RN	SCD-6023RP
Motion Detection	Off / On(4 zones)	
Privacy Masking	Off / On (4 zones rectangle)	
Gain Control	Off / Low / Middle / High / Very High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC(1,800K° ~ 10,500K°)	
Electronic Shutter Speed	1 sec ~ 1/12,000 sec	
Reverse	Off / H-Rev / V-Rev / HV-Rev	
Profile	Basic, Day & Night, Backlight, ITS, Indoor, User	
Alarm	Not support	
Remote control interface	Coaxial	
Protocol	Coax : ACP	
IR Distance	15m(49.21ft)	
Video Transmission Distance	500m(75-5 Coaxial Cable)	
Environmental		
Operating Temperature / Humidity	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH	
Electrical		
Input Voltage	12VDC±10%	
Power Consumption	Max. 4.2W	
Mechanical		
Color / Material	Ivory / Plastic	
Dimension (WxHxD)	86X Φ110mm	
Weight	231g	

※ The specification for this product may change without prior notice for product improvement.

English_31

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1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

Voltage ☐ 100 Vac ☐ 110 Vac ☐ 120 Vac ☐ 24 Vac ☒ 12 Vdc

Frequency ☐ 50 Hz ☐ 60 Hz ☐ Hz

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
ANALOG CAMERA	SCD-6023RP	-	Tianjin Samsung Techwin Opto-Electronic Co., Ltd.	E.U.T

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
MONITOR	M1950DM	-	204KCXM31738	-
AC/DC Adapter	PA-1650-68	OE9FA612314100070	LITE-ON TECHNOLOGY CORPORATION	-
				-
				-

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1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	**I/O Port**	**Description**	**I/O Port**	**Length**	**Shield**
ANALOG CAMERA	BNC	MONITOR	RCA	5.0	U

1.7 EUT Operating Mode(s)

Equipment under test was operated during the measurement under the following conditions:

Test mode	Normal operating
OP	MONITOR CHECK

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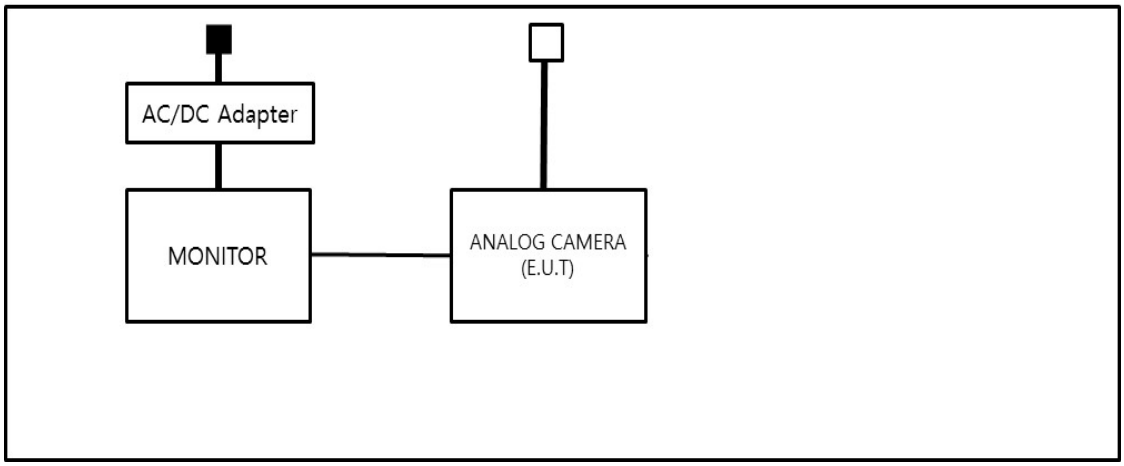
1.8 Configuration

■ AC Main
□ DC Main



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1.9 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

1.10 Test Facility

The measurement facility is located at 473-29 Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22.

1.11 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
USA	**FCC**	3 & 10 meter Open Area Test Sites and one conducted site to perform FCC Part 15/18 measurements.	
JAPAN	**VCCI**	Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1 GHz	R-4308, C-4798, T-2311, G-914
KOREA	**MSIP**	EMI (10 meter Open Area Test Site and two conducted sites) Radio(3 & 10 meter Open Area Test Sites and one conducted site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	KR0100
Canada	**IC**	3 & 10 meter Open Area Test Sites and one conducted site	4769B-1
Europe	**CE**	EMI (10 meter Open Area Test Site and two conducted sites) Radio(3 & 10 meter Open Area Test Sites and one conducted site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	
International	**KOLAS**	EMI (10 meter Open Area Test Site and two conducted sites) Radio(3 & 10 meter Open Area Test Sites and one conducted site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	KOREA LABORATORY ACCREDITATION SCHEME KOLAS TESTING NO. 489

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2.0 Test Regulations

The emissions tests were performed according to following regulations:

☐ **EMC – Directive 2004/108/EC**

☐ EN 61000-6-3:2011		
☐ EN 61000-6-1:2007		
☐ EN 61000-6-4:2007 +A1:2011		
☐ EN 61000-6-2:2005		
☐ EN 55011:2007 +A1:2010	☐ Group 1 ☐ Class A	☐ Group 2 ☐ Class B
☐ EN 55014-1:2006 +A2:2011		
☐ EN 55014-2:1997 +A2:2008		
☐ EN 55015:2013		
☐ EN 55022:2010	☐ Class A	☐ Class B
☐ EN 55024:2010		
☐ EN 50130-4:2011 +A1:2014		
☐ EN 61000-3-2:2014		
☐ EN 61000-3-3:2013		
☐ EN 61326-1:2013		
☐ VCCI V-3/2013.04	☒ Class A	☐ Class B
☒ AS/NZS CISPR22:2009 +A1:2010	☐ Class A	☐ Class B
☐ 47 CFR Part 15, Subpart B / ANSI C63.4-2009	☐ Class A	☐ Class B
☐ IC Regulation ICES-003 : 2012 / ANSI C63.4-2014	☐ Class A	☐ Class B
☐ CISPR 22:2009 +A1:2010	☐ Class A	☐ Class B

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☐ **R&TTE– Directive 1999/5/EC**

☐ EN 301 489-1 V1.9.2

- ☐ Equipment for fixed use
- ☐ Equipment for vehicular use
- ☐ Equipment for portable use

☐ EN 301 489-3 V1.6.1

☐ EN 301 489-17 V2.2.1

☐ EN 60945:2002

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2.1 Conducted Emissionsat Mains Power Ports

Test Date
N/A

Test Location
Electro wave Shieldroom

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☐	EMI Test Receiver	ESR3	R&S	101783	05, 06, 2016
☐	LISN	ENV216	R&S	101137	02, 10, 2016
☐	LISN	ENV216	R&S	101786	05, 06, 2016
☐	Electro wave Shieldroom	-	SEMITEC	-	-

Test Conditions
Temperature: ℃
Relative Humidity: %

Frequency Range of Measurement
150 ㎑ to 30 ㎒

Instrument Settings
IF Band Width: 9 ㎑

TestResults
The requirements are:

☐ PASS
☐ NOT PASS
☒ NOT APPLICABLE

Remarks
See Appendix A for test data.

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2.2 Conducted Emissions at Telecommunication Ports

Test Date
N/A

Test Location
Electro wave Shieldroom

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☐	EMI Test Receiver	ESR3	R&S	101783	05, 06, 2016
☐	LISN	ENV216	R&S	101137	02, 10, 2016
☐	LISN	ENV216	R&S	101786	05, 06, 2016
☐	8-Wire ISN CAT3	CAT3 8158	Schwarzbeck Mess	8158-0019	04, 02, 2016
☐	8-Wire ISN CAT5	CAT5 8158	Schwarzbeck Mess	8158-0030	04, 02, 2016
☐	8-Wire ISN CAT6	NTFM 8158	Schwarzbeck Mess	8158-0029	08, 14, 2016
☐	Electro wave Shieldroom	-	SEMITEC	-	-

Test Conditions
Temperature: ℃
Relative Humidity: %

Frequency Range of Measurement
150 ㎑ to 30 ㎒

Instrument Settings
IF Band Width: 9 ㎑

TestResults
The requirements are:

☐ PASS
☐ NOT PASS
☒ NOT APPLICABLE

Remarks
See Appendix A for test data.

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2.3 Radiated Electric Field Emissions(Below 1 ㎓)

Test Date
Jan. 18, 2016

Test Location
☒ Open Area Test Site #1 ☐ Open Area Test Site #2

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test Receiver	ESR3	R&S	101781	05, 06, 2016
☒	Trilog-Broadband Antenna	VULB 9163	SCHWARZBECK	9168-713	05, 15, 2017
☒	Open Area Test Site	-	KES	-	-
☒	Antenna Mast	-	DAEIL EMC	-	-
☒	Turn Table	-	DAEIL EMC	-	-

Test Conditions
Temperature: -2.3 ℃
Relative Humidity: 57 %

Frequency Range of Measurement
30 ㎒ to 1 ㎓

Instrument Settings
IF Band Width: 120 ㎑

Test Results
The requirements are:

☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks
See Appendix A for test data.

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2.4 Radiated Electric Field Emissions(Above 1 ㎓)

Test Date
Jan. 18, 2016

Test Location
Semi Anachoic Chamber #2

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test Receiver	ESU26	R&S	100552	05. 06. 2016
☒	Broadband Coaxial Preamplifier	BBV 9718	Schwarzbeck Mess - Elektronik	9718-246	10. 23. 2016
☒	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	05. 07. 2017
☒	Semi Anachoic Chamber #2	-	SEMITEC	-	-
☒	Antenna Mast	-	AUDIX	-	-
☒	Turn Table	-	AUDIX	-	-

Test Conditions
Temperature: 19,1 ℃
Relative Humidity: 36,6 %

Frequency Range of Measurement
1 ㎓ to 6 ㎓

Instrument Settings
IF Band Width: 1 ㎒

Test Results
The requirements are:

☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks
See Appendix A for test data.

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APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

[HOT]

N/A

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[NEUTRAL]

N/A

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Conducted Emissions at Telecommunication Ports

[10 Mbps]

N/A

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[100 Mbps]

N/A

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Radiated Electric Field Emissions(Below 1 ㎓)

Frequency	Amplitude	ANT Polar.	ANT. Height	Correction Factor		Corrected Amplitude	Applicable Limit	Margin
[㎒]	[dBμV]	(H/V)	[m]	ANT. [dB/m]	Cable [dB]	[dBμV/m]	[dBμV/m]	[dB]
35.82	19.13	V	1.00	11.08	2.23	32.44	40.00	7.56
519.78	19.10	V	1.00	17.54	6.37	43.01	47.00	3.99
594.50	14.78	V	1.00	19.18	6.71	40.67	47.00	6.33
669.23	12.91	V	1.00	19.58	7.03	39.52	47.00	7.48
742.95	13.87	V	1.00	20.17	7.36	41.40	47.00	5.60
966.05	9.30	H	1.87	23.76	8.78	41.84	47.00	5.16

* H : Horizontal, V : Vertical

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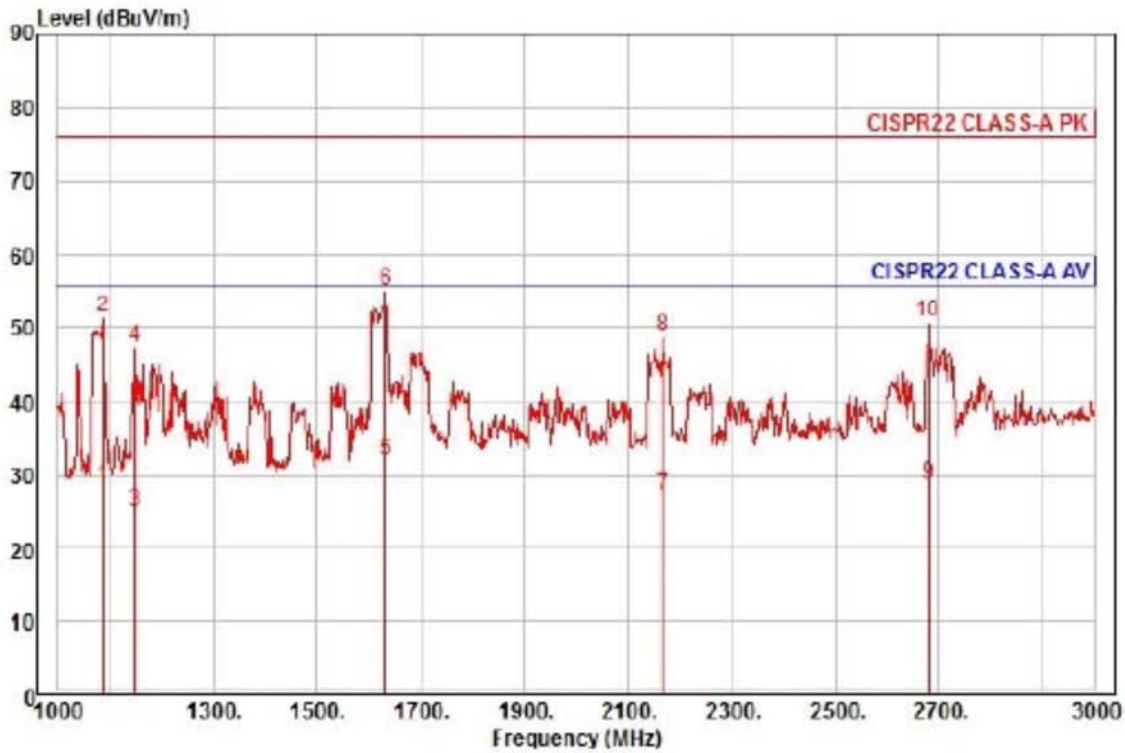
Radiated Electric Field Emissions(Above 1 GHz)



Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN781(2015.05.07) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : ANALOG CAMERA
Model : SCD-6023RN
Mode : 12 V (dc)
Memo : (1 - 3) GHz

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	1088.00	37.99	24.26	6.30	40.08	339	56.00	-27.53	horizontal	Average
2	1088.00	60.93	24.26	6.30	40.08	339	76.00	-24.59	horizontal	Peak
3	1148.00	34.01	24.50	6.47	40.05	319	56.00	-31.07	horizontal	Average
4	1148.00	56.47	24.50	6.47	40.05	319	76.00	-28.61	horizontal	Peak
5 av	1632.00	37.41	26.42	7.86	39.81	299	56.00	-24.12	horizontal	Average
6 pp	1632.00	60.78	26.42	7.86	39.81	299	76.00	-20.75	horizontal	Peak
7	2168.00	29.30	28.29	9.39	39.73	42	56.00	-28.75	horizontal	Average
8	2168.00	50.78	28.29	9.39	39.73	42	76.00	-27.27	horizontal	Peak
9	2680.00	28.44	29.55	10.81	40.02	321	56.00	-27.22	horizontal	Average
10	2680.00	50.49	29.55	10.81	40.02	321	76.00	-25.17	horizontal	Peak

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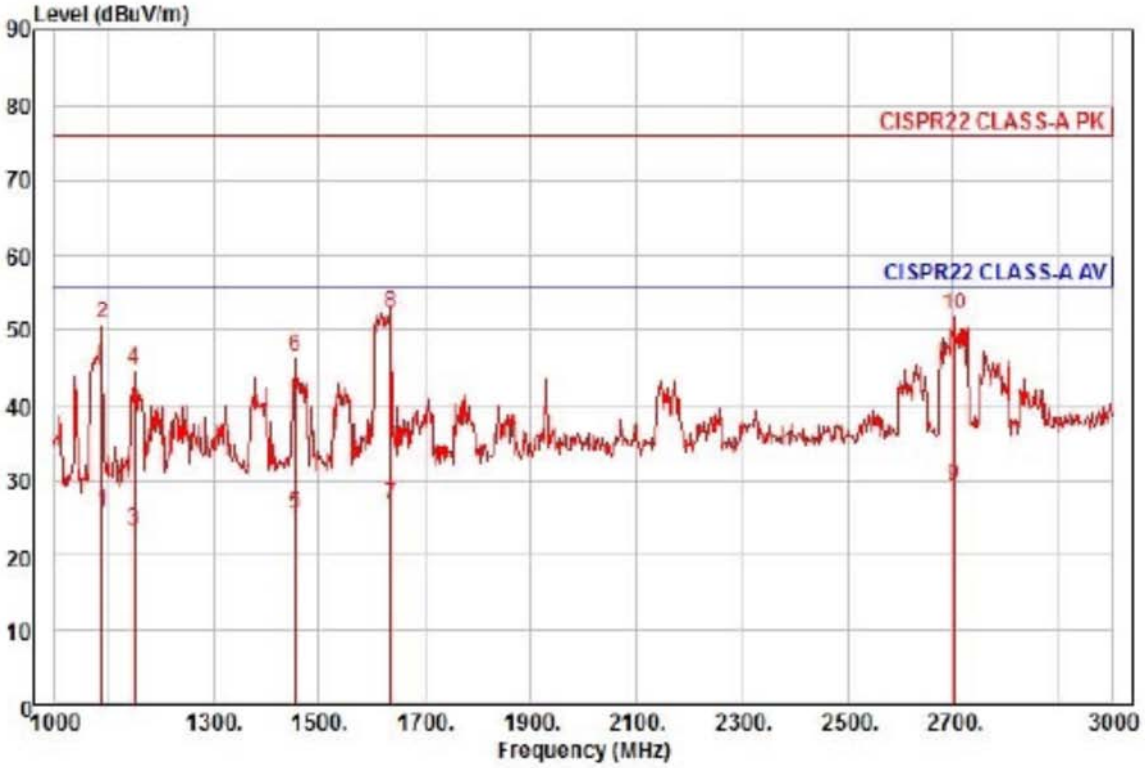

Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN781(2015.05.07) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : ANALOG CAMERA
Model : SCD-6023RN
Mode : 12 V (dc)
Memo : (1 - 3) GHz

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	1090.00	35.27	24.27	6.31	40.08	357	56.00	-30.23	vertical	Average
2	1090.00	60.25	24.27	6.31	40.08	357	76.00	-25.25	vertical	Peak
3	1150.00	32.45	24.51	6.48	40.05	360	56.00	-32.61	vertical	Average
4	1150.00	53.79	24.51	6.48	40.05	360	76.00	-31.27	vertical	Peak
5	1454.00	32.37	25.71	7.35	39.90	28	56.00	-30.47	vertical	Average
6	1454.00	53.28	25.71	7.35	39.90	28	76.00	-29.56	vertical	Peak
7	1636.00	32.15	26.43	7.88	39.81	334	56.00	-29.35	vertical	Average
8 pp	1636.00	57.74	26.43	7.88	39.81	334	76.00	-23.76	vertical	Peak
9 av	2702.00	28.80	29.60	10.87	40.04	346	56.00	-26.77	vertical	Average
10	2702.00	51.47	29.60	10.87	40.04	346	76.00	-24.10	vertical	Peak

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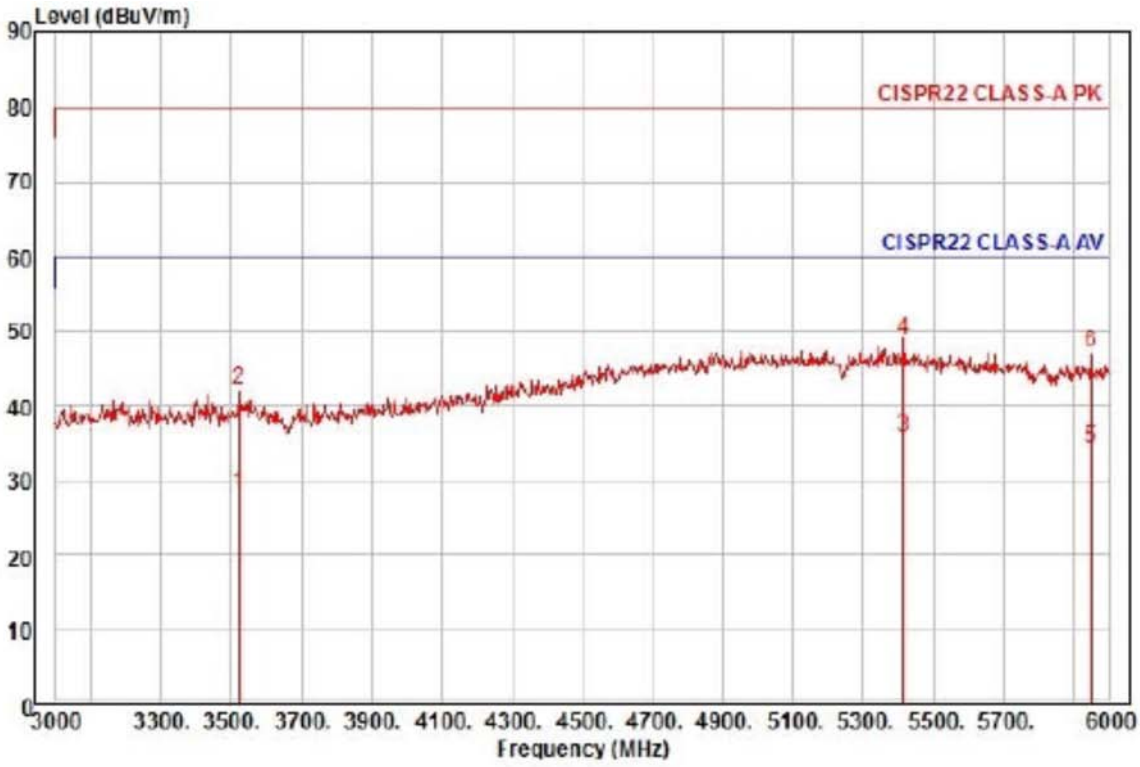

Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN781(2015.05.07) horizontal
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : ANALOG CAMERA
Model : SCD-6023RN
Mode :
Memo : (3 - 6) GHz

		Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1		3522.00	24.96	31.21	12.39	40.31	346	60.00	-31.75	horizontal	Average
2		3522.00	38.97	31.21	12.39	40.31	346	80.00	-37.74	horizontal	Peak
3	pp	5415.00	23.54	36.88	15.63	40.35	184	60.00	-24.30	horizontal	Average
4	pk	5415.00	36.57	36.88	15.63	40.35	184	80.00	-31.27	horizontal	Peak
5		5949.00	22.32	35.80	16.60	40.28	114	60.00	-25.56	horizontal	Average
6		5949.00	35.06	35.80	16.60	40.28	114	80.00	-32.82	horizontal	Peak

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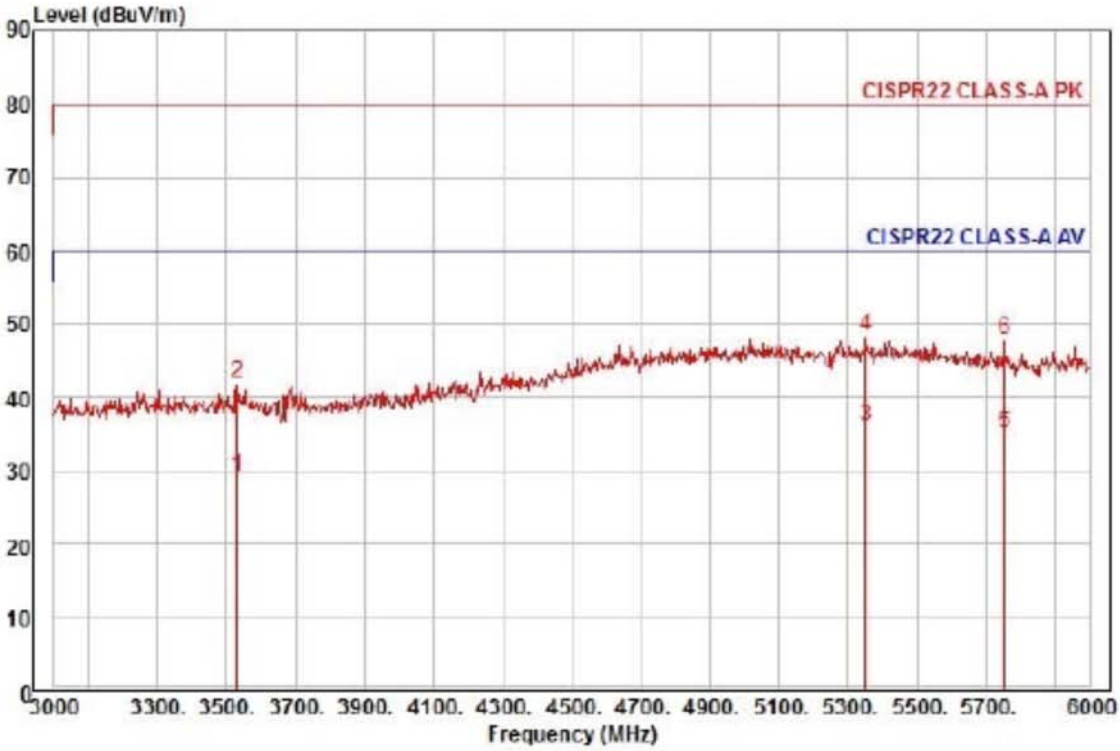

Site : chamber
Condition: CISPR22 CLASS-A PK 3m HORN781(2015.05.07) vertical
: RBW:1000.000kHz VBW:1000.000kHz SWT:Auto
Project : ANALOG CAMERA
Model : SCD-6023RN
Mode :
Memo : (3 - 6) GHz

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	TPos	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	deg	dBuV/m	dB		
1	3531.00	25.90	31.22	12.41	40.32	79	60.00	-30.79	vertical	Average
2	3531.00	38.56	31.22	12.41	40.32	79	80.00	-38.13	vertical	Peak
3 pp	5352.00	23.80	37.01	15.51	40.36	111	60.00	-24.04	vertical	Average
4 pk	5352.00	36.26	37.01	15.51	40.36	111	80.00	-31.58	vertical	Peak
5	5754.00	22.84	36.20	16.24	40.30	6	60.00	-25.02	vertical	Average
6	5754.00	35.70	36.20	16.24	40.30	6	80.00	-32.16	vertical	Peak

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Test Setup Photos and Configuration

Conducted Voltage Emissions

N/A

N/A

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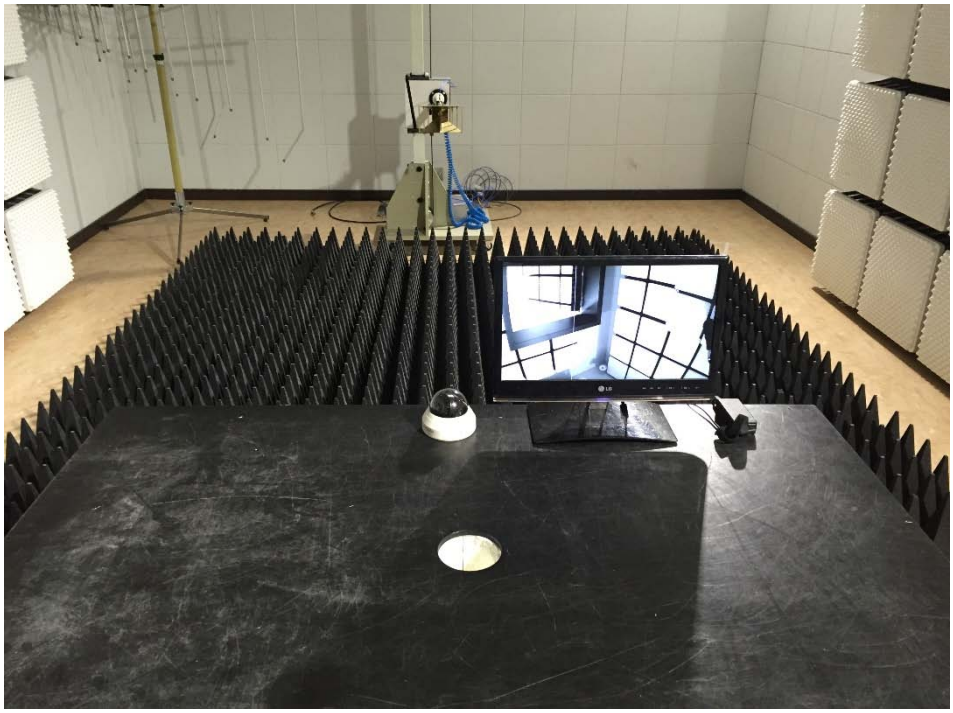
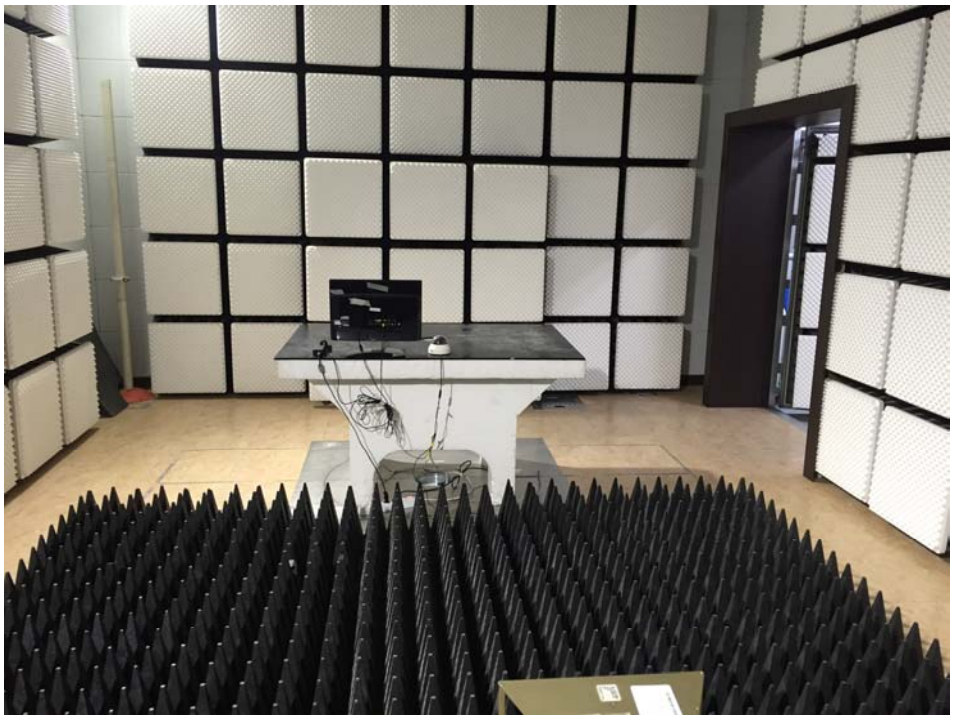
Radiated Electric Field Emissions(Below 1 ㎓)

Radiated Electric Field Emissions(Above 1 ㎓)





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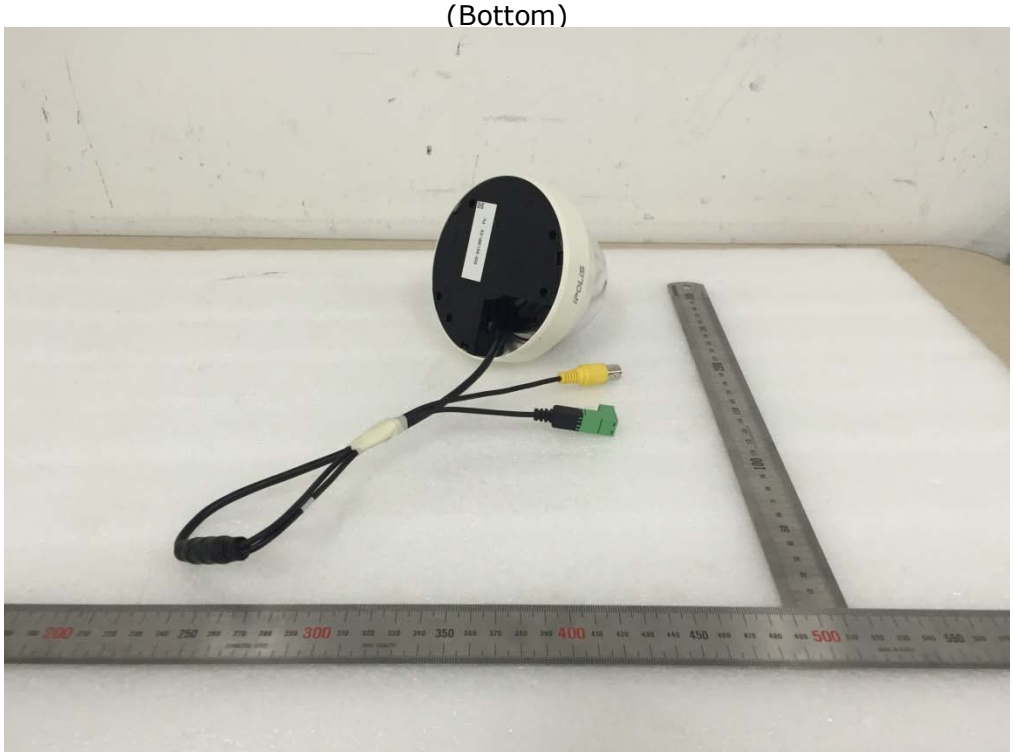
EUT External Photographs

(Top)

(Bottom)



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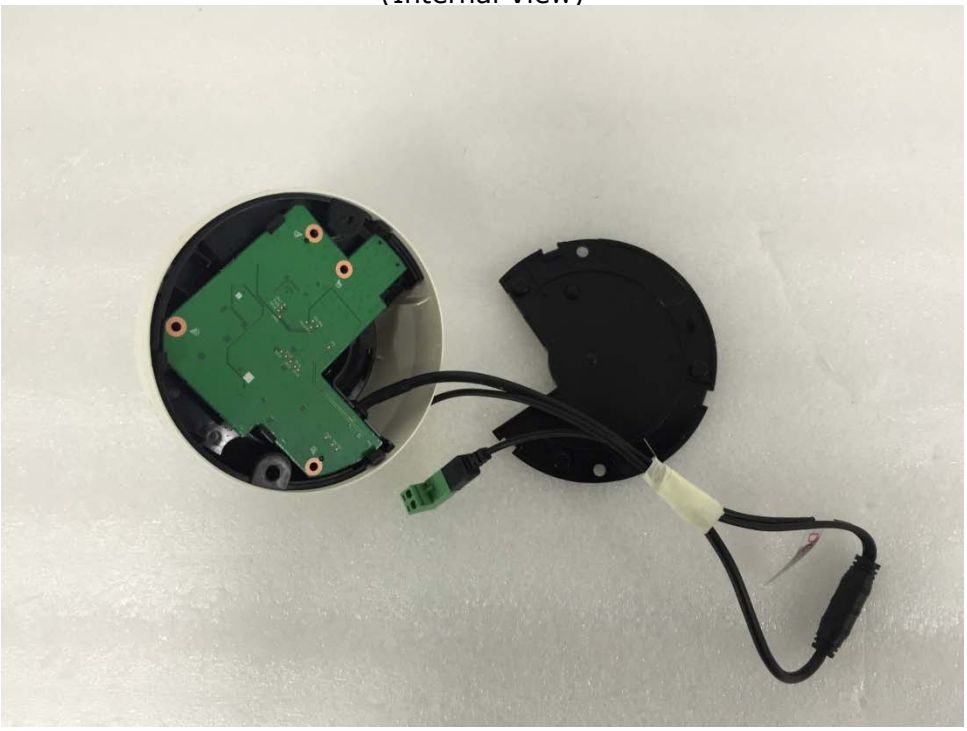
EUT Internal Photographs

(Internal View)



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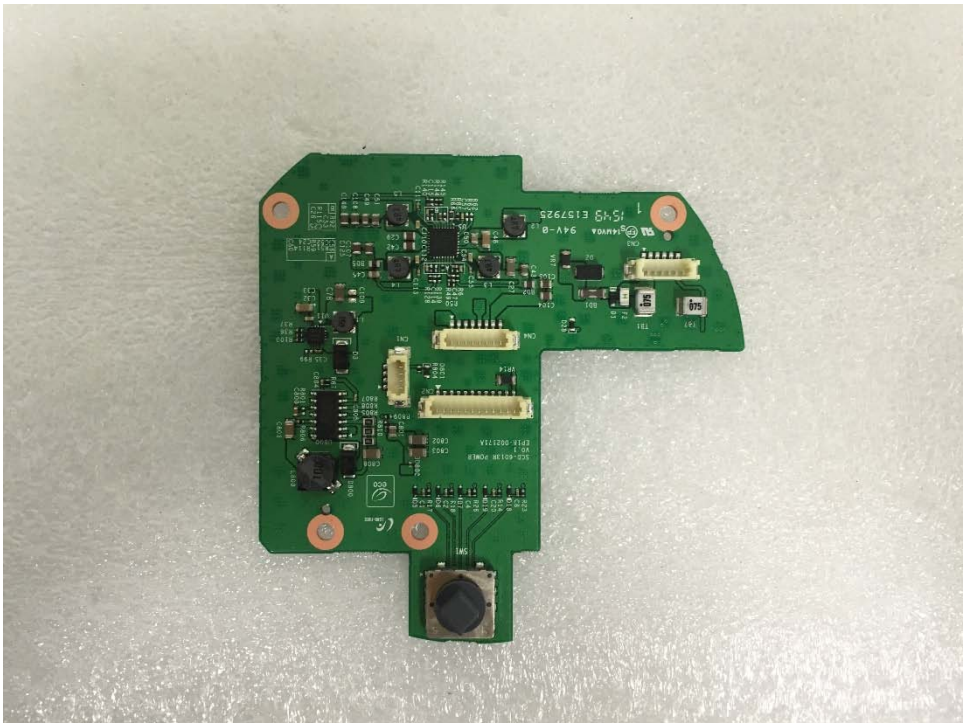
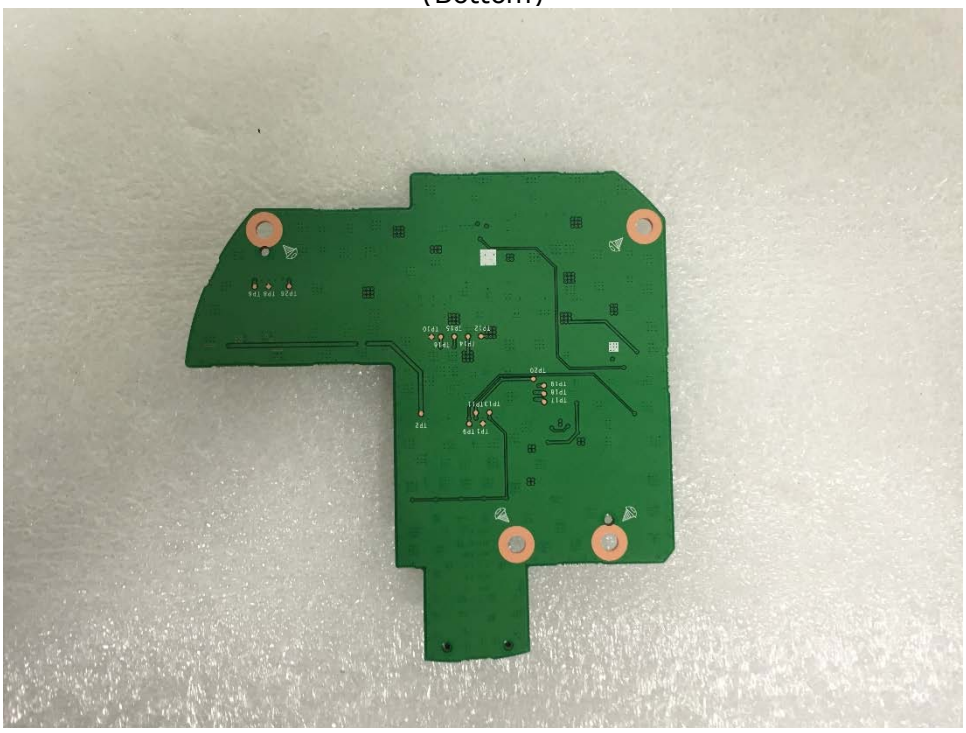
Main Board EUT Internal View – Main Board

(Top)



(Bottom)



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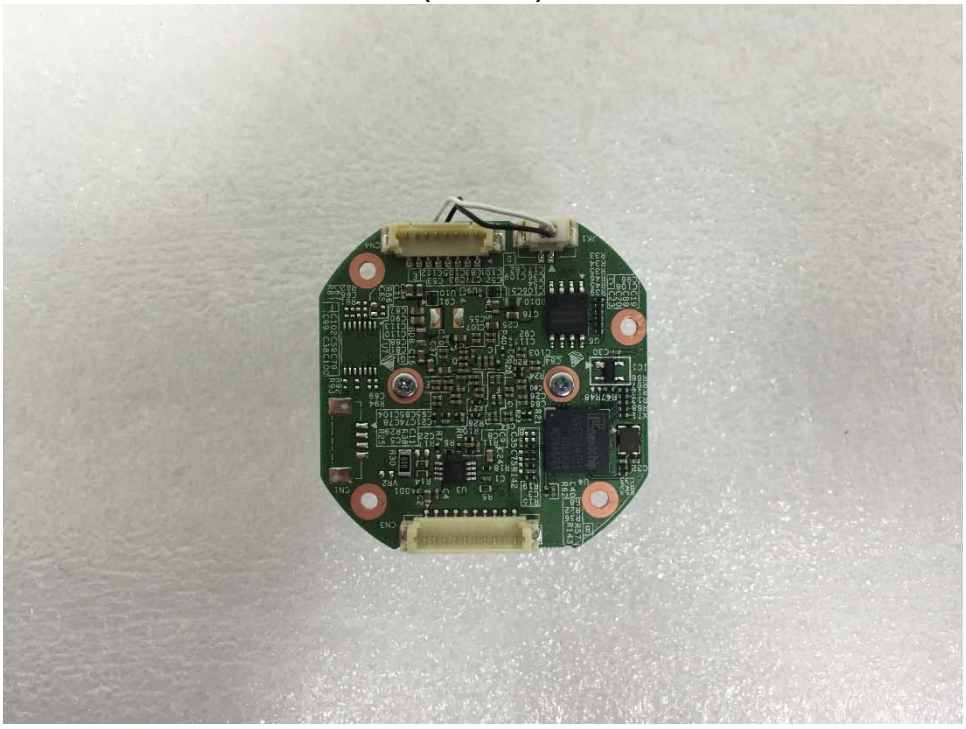
Main Board EUT Internal View – Camera Board

(Top)

(Bottom)



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Main Board EUT Internal View – IR Board

(Top)

(Bottom)