EMC TEST REPORT

Test Report No.	:	KES-E1-18T0055
Date of Issue	:	Jan. 09, 2018
Product name	:	Network Camera
Model/Type No.	:	XNV-6022RM
Variant Mode	:	-
Applicant	:	Hanwha Techwin Co., Ltd.
Applicant Address	:	1204, Changwon-daero, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea
Manufacturer	:	Hanwha Techwin (Tianjin) Co., Ltd
Manufacturer Address	:	No.11 Weiliu Rd,Micro-Electronic Industrial Park, TEDA, Tianjin, 300385, People's Republic of China
Equipment authorization	:	☐ **Declaration of Conformity** ☒ **Verification** ☐ **Certification**
Date of Receipt	:	Dec. 21, 2017
Test date	:	Jan. 04, 2018
Test Results	:	☒ **In Compliance** ☐ **Not in Compliance**

Tested by



Tae Yeon, Kim
EMC Test Engineer

Reviewed by



Dong-Hun, Jang
EMC Technical Manager

This test report is not related to KOLAS.

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Jan. 09, 2018	KES-E1-18T0055	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Video	
Imaging Device	**1/2.8" 2M CMOS**
Total Pixels	**1945(H) x 1109(V) 2.16M**
Effective Pixels	**1945(H) x 1097(V) 2.13M**
Scanning System	**Progressive Scan**
Min. Illumination	**Color : 0.055 lux(F2.0, 1/30sec) (TBD) B/W : 0Lux(IR LED On)**
S / N Ratio	**50dB**
Video Out	**USB : Micro USB type B, 1280x720, for installation**
Lens	
Focal Length (Zoom Ratio)	**3.6mm Fixed**
Max. Aperture Ratio	**F2.0**
Angular Field of View	**H 96.4° V 50.5° D 116° (TBD)**
Min. Object Distance	**TBD**
Focus Control	**Manual**
Lens Type	**Fixed**
Mount Type	**Board-in type**
Pan / Tilt / Rotate	
Pan / Tilt / Rotate range	**±5˚/0-67˚/±90˚**
Operational	
IR Viewable Length	**15m(49.21ft)**
Camera Title	**Off / On (Displayed up to 85 characters) - W/W : English/Numeric/Special Characters - China : English/Numeric/Special/Chinese Characters - Common : Multi-line (Max 5), Color (Grey/Green/Red/Blue/Black/White), Transparency, Auto Scale by Resolution**
Day & Night	**Auto (ICR) / Color / B/W / External / Schedule**
Backlight Compensation	**Off / BLC / HLC(Masking/Dimming), WDR**
Wide Dynamic Range	**150dB**
Contrast	**SSDR (Off / On)**

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Enhancement	
Digital Noise Reduction	**SSNR5 (2D+3D Noise Filter) (Off / On)**
Digital Image Stabilization	**Off / On**
Defog	**Auto(input from fog detection) / Manual / Off**
Motion Detection	**Off/ On(8ea, 8point Polygonal zones), Handover**
Privacy Masking	**Off / On (32ea, polygonal zones) - Color : Grey/Green/Red/Blue/Black/White - Mosaic**
Gain Control	**Off / Low / Middle / High**
White Balance	**ATW / AWC / Manual / Indoor / Outdoor((included Mercury & Sodium)**
Contrast	**level adjustment**
LDC	**On/Off (5 levels with Min/Max)**
Electronic Shutter Speed	**Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)**
Digital PTZ	**24X, 'Digital PTZ(Preset, Group)**
Flip / Mirror	**Flip : On/Off Mirror : On/Off Hallway view : 90˚/270˚**
Video & Audio Analytics	**Tampering, Loitering, Directional Detection, Defocus Detection, Fog Detection, Virtual Line, Enter/Exit, Appear / Disappear, Audio Detection, Face Detection, Motion Detection, Digital Auto Tracking, Sound Classification**
Alarm I/O	**-**
Alarm Triggers	**Motion Detection, Video & Audio Analytics, Network Disconnect**
Alarm events	**File upload via FTP, E-Mail Notification via E-Mail local storage(SD/SDHC/SDXC) or NAS recording at Event Triggers External output DPTZ preset**
Audio In	**Selectable (Mic IN/Line IN), Built-in micophone Supply voltage: 2.5VDC(4mA), Input impedance: approx. 2K Ohm**
Audio out	**Line out, Max output level: 1 Vrms**

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Audio Noise Reduction	**Off / On**
Pixel Counter	**Support**
Network	
Ethernet	**M12 (10/100BASE-T)**
Video Compression Format	**H.265/H.264 (MPEG-4 Part 10/AVC) : Main/Baseline/High , Motion JPEG**
Resolution	**1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240**
Max. Framerate	**H.265/H.264 : Max. 60fps at all resolutions Motion JPEG : Max. 30fps**
Smart Codec	**Manual Mode (area-based : 5EA)**
WiseStream II	**Support**
Video Quality Adjustment	**H.264/H.265 : Target Bitrate Level Control MJPEG : Target Bitrate Level Control**
Bitrate Control Method	**H.264/H.265 : CBR or VBR MJPEG : VBR**
Streaming Capability	**Multiple Streaming (Up to 10 Profiles)**
Audio Compression Format	**G.711 u-law /G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps at 16KHz**
Audio Communication	**Bi-dierctional (2-Way)**
IP	**IPv4, IPv6**
Protocol	**TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour**
Security	**HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication (EAP-TLS, EAP-LEAP)**
Streaming Method	**Unicast / Multicast**
Max. User Access	**20 users at Unicast Mode**

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Edge Storage	**SD/SDHC/SDXC 1slot (up to 256 GB) - Motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded. NAS(Network Attached Storage) Local PC for Instant Recording**
Application Programming Interface	**ONVIF Profile S/G SUNAPI(HTTP API) Open Platform**
Webpage Language	**English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek**
Web Viewer	**Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10. 10.11 10.12 Non-plugin Webviewer Supported Browser: Google Chrome 54, MS Edge 38, Mozilla Firefox 49(Window 64bit only) , Apple Safari 9 (Mac OS X only) Plug-in Webviewer Supported Browser : MS Explore 11, Apple Safari 9 (Mac OS X only)**
Central Management Software	**SmartViewer, SSM**
Environmental	
Operating Temperature / Humidity	**-30°C ~ +55°C (-22°F ~ +131°F) / Less than 90% RH *Start up should be done at above -20˚C**
Storage Temperature / Humidity	**-50°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH**
Ingress Protection	**IP66**
VIbration Resistance	**EN55011:2009+A1:2010, EN50581:2012,EN50121-3-2:2015, EN61000-4-2:2009 EN61000-4-3:2006+A2:2010, EN61000-4-4:2012, EN61000-4-5:2014 EN61000-4-6:2009, EN50155:2007, NEMA 4X**
Vandal Resistance	**IK10, NEMA4X**
Electrical	
Input Voltage / Current	**PoE(IEEE802.3af,Class3)**
Power Consumption	**TBD**
Mechanical	
Color / Material	**Ivory / Metal**

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Dimension (WxHxD)	**99 x 52 x 100**
Weight	**296g(TBD)**

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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 ☐ 230 Vac ☐ 120 Vac ☐ 24 Vac ☐ 12 Vdc ☒ PoE

Frequency ☐ 50 Hz ☐ 60 Hz ☐ Hz

1.2 Variant Model Differences

LNV-6020RN, LNV-6010RN

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
Network Camera	XNV-6022RM	-	Hanwha Techwin (Tianjin) Co.,Ltd.	E.U.T

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Injector	RP-PEG048I	1308AZ110162	REPOTEC	-
MIC	CMK-303	-	CAMAC	-
Earphone	MDR-Q38	-	SONY	-
Smart Phone	SHV-E210L	R33C71BE64F	SAMSUNG	-
Notebook	X56K	HN11N5151FJ0045W	Hansung computer co., Ltd.	-
AC/DC Adaptor	PA-1900-14	OF91R633487012228	LITE-ON TECHNOLOGY (CHANGZHOU)CO., LTD.	-

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1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	**I/O Port**	**Description**	**I/O Port**	**Length**	**Shield**
Network Camera (EUT)	RJ-45	PoE Injector	RJ-45	3.00	U
	3.5 ㎜	MIC	3.5 ㎜	1.55	U
	3.5 ㎜	Earphone	3.5 ㎜	1.00	U
PoE Injector	RJ-45	Notebook	RJ-45	1.00	U
Smart Phone	3.5 ㎜	Notebook	3.5 ㎜	1.00	U

* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

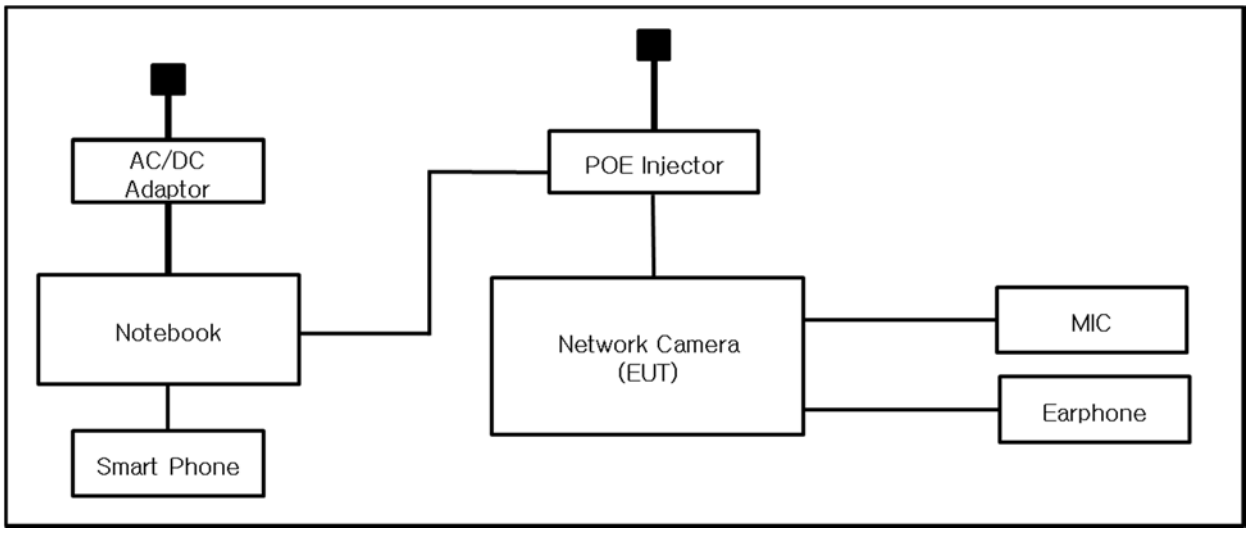
Test mode	operating
PoE	E.U.T Monitoring, Ping Test 1 kHz sound tone input and output confirmation

E.U.T Test operating S/W		
Name	**Version**	**Manufacture Company**
Wise WEBVIEW	-	Hanwha Techwin Co., Ltd.

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1.8 Configuration

■ AC Main
□ DC Main



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1.9 Remarks when standards applied

N/A

1.10 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.

1.11 Test Facility

The measurement facility is located at 473-21 Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32.

1.12 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 2014/30/EU**

☐ 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 55032:2015	☐ 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		

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☐ **VCCI V-3 / 2015.04**	☐ Class A	☐ Class B
☐ **AS/NZS:2013**	☐ Class A	☐ Class B
☒ **47 CFR Part 15, Subpart B**		
☒ CISPR 22:2009 +A1:2010	☒ Class A	☐ Class B
☐ ANSI C63.4-2014	☐ Class A	☐ Class B
☒ **IC Regulation ICES-003 : 2016**		
☒ CAN/CSA CISPR 22-10	☒ Class A	☐ Class B
☐ ANSI C63.4-2014		

☐ **RE– Directive 2014/53/EU**

☐ 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 Emissions at 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 S/W	EMC32	R & S	9.12.00	-
☐	EMI TEST RECEIVER	ESR3	R & S	101781	04, 27, 2018
☐	LISN	ENV216	R & S	101787	01, 05, 2019
☐	LISN	ESH2-Z5	R & S	100450	04, 27, 2018
☐	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 27, 2018
☐	LISN	NNBM8124	SCHWARZBECK	8124-1002	08, 07, 2018
☐	LISN	NNBM8124	SCHWARZBECK	8124-1003	08, 07, 2018

Test Conditions
Temperature: ℃
Relative Humidity: % R.H.

Frequency Range of Measurement
150 ㎑ to 30 ㎒

Instrument Settings
IF Band Width: 9 ㎑

Test Results
The requirements are:

☐ PASS
☐ NOT PASS
☒ NOT APPLICABLE

Remarks
N/A

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2.2 Radiated Electric Field Emissions(Below 1 ㎓)

Test Date
Jan. 04, 2018

Test Location
☐ OPEN AREA TEST SITE #2 ☒ SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	04, 18, 2018
☒	AMPLIFIER	SCU 01	R & S	100603	11, 27, 2018
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	716	11, 28, 2018

Test Conditions
Temperature: 23,8 ℃
Relative Humidity: 41,7 % R.H.

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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2.3 Radiated Electric Field Emissions(Above 1 ㎓)

Test Date
Jan. 04, 2018

Test Location
SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	04, 17, 2018
☒	PREAMPLIFIER	8449B	AGILENT	3008A01967	05, 31, 2018
☐	ATTENUATOR	8491A	HP	32173	03, 24, 2018
☒	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	05, 02, 2019

Test Conditions
Temperature: 23,8 ℃
Relative Humidity: 41,7 % R.H.

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 LINE

N/A

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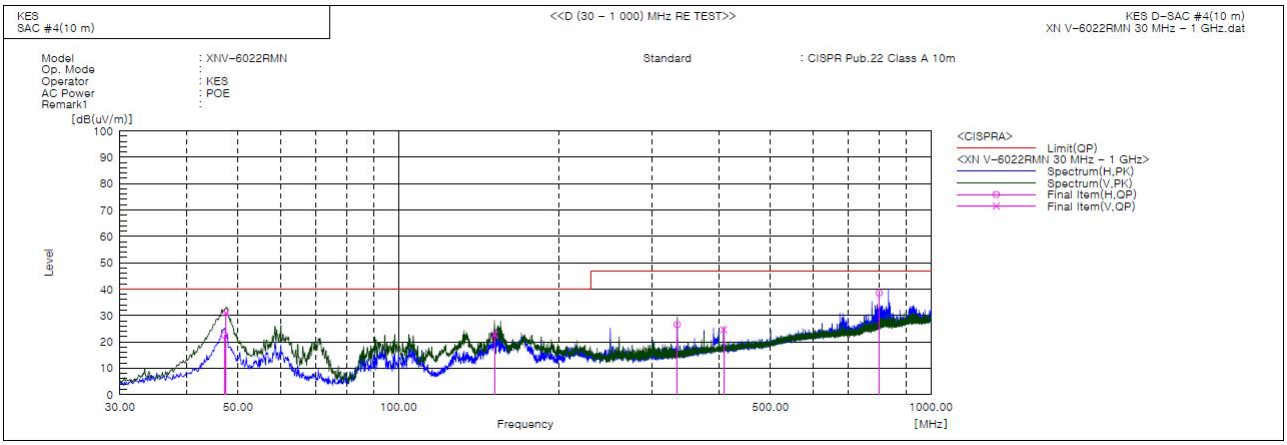
NEUTRAL LINE

N/A

◆ Calculation
QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]
QuasiPeak / CAverage : The Final Value
Reading Value : Not shown in the table.
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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Radiated Electric Field Emissions(Below 1 ㎓)



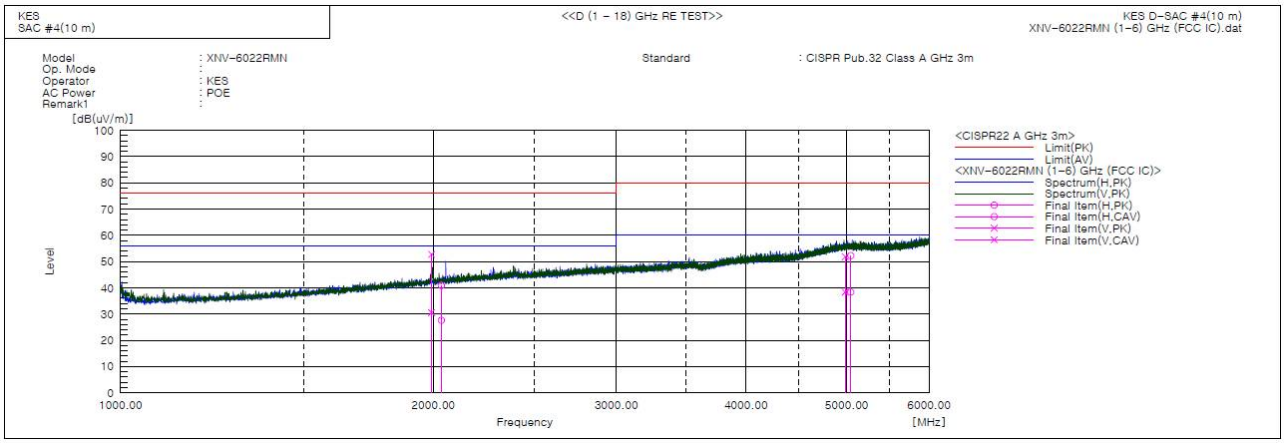
Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	47.150	H	50.5	-28.0	22.5	40.0	17.5	400.0	179.0	
2	47.439	V	58.9	-27.9	31.0	40.0	9.0	222.0	316.0	
3	151.527	V	54.2	-31.3	22.9	40.0	17.1	106.0	251.0	
4	334.124	H	49.3	-22.8	26.5	47.0	20.5	285.0	190.0	
5	408.385	V	44.8	-20.2	24.6	47.0	22.4	100.0	212.0	
6	799.964	H	51.0	-12.5	38.5	47.0	8.5	128.0	244.0	

♦ Calculation – SAC #4(10 m)
Result(QP) [㏈(㎶/m)] = (Reading(QP)[㏈(㎶)] + c.f[㏈(1/m)]
Margin(QP)[㏈] = Limit[㏈(㎶/m)] - Result(QP) [㏈(㎶/m)]
Reading(QP) : Reading value, Result(QP) : Reading value + Factor value
Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

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Radiated Electric Field Emissions(Above 1 ㎓)



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1992.075	V	50.0	27.9	2.7	52.7	30.6	76.0	56.0	23.3	25.4	100.0	0.0	
2	2036.244	H	37.8	24.6	3.0	40.8	27.6	76.0	56.0	35.2	28.4	141.0	169.0	
3	4984.113	V	34.3	20.9	17.5	51.8	38.4	80.0	60.0	28.2	21.6	370.0	237.0	
4	5045.944	H	34.6	20.8	17.6	52.2	38.4	80.0	60.0	27.8	21.6	379.0	239.0	

♦ Calculation

Result(PK/CAV) [dB(㎶/m)] = (Reading(PK/CAV)[dB(㎶)] + c.f[dB(1/m)]

Margin(PK/CAV)[dB] = Limit[dB(㎶/m)] - Result(PK/CAV) [dB(㎶/m)]

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

Limit(PK/CAV) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

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Test Setup Photos and Configuration

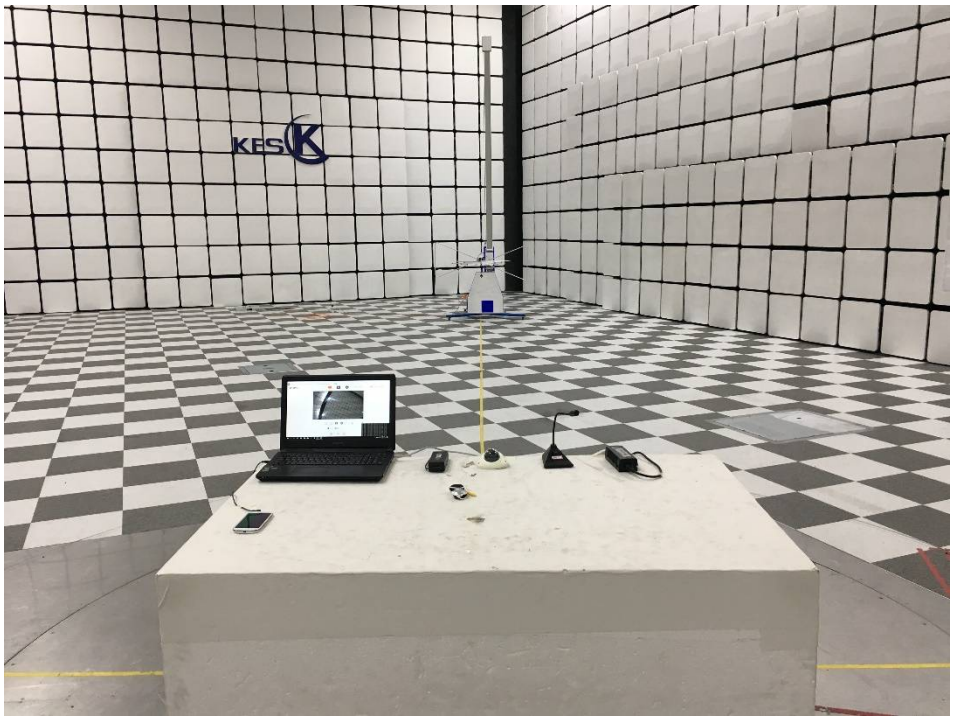
Conducted Voltage Emissions

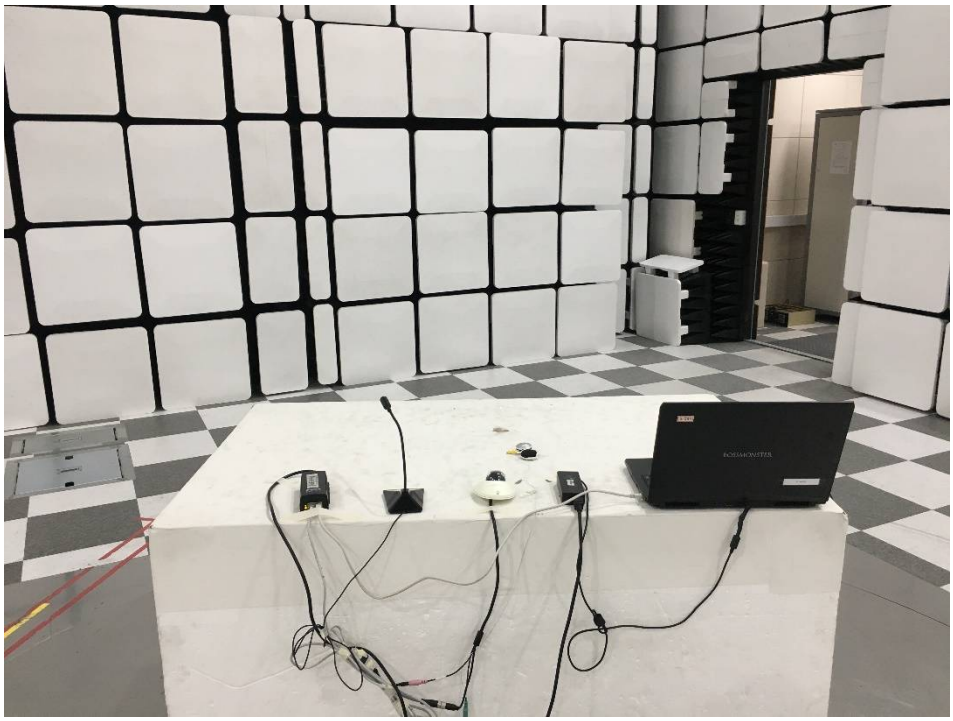
N/A

N/A

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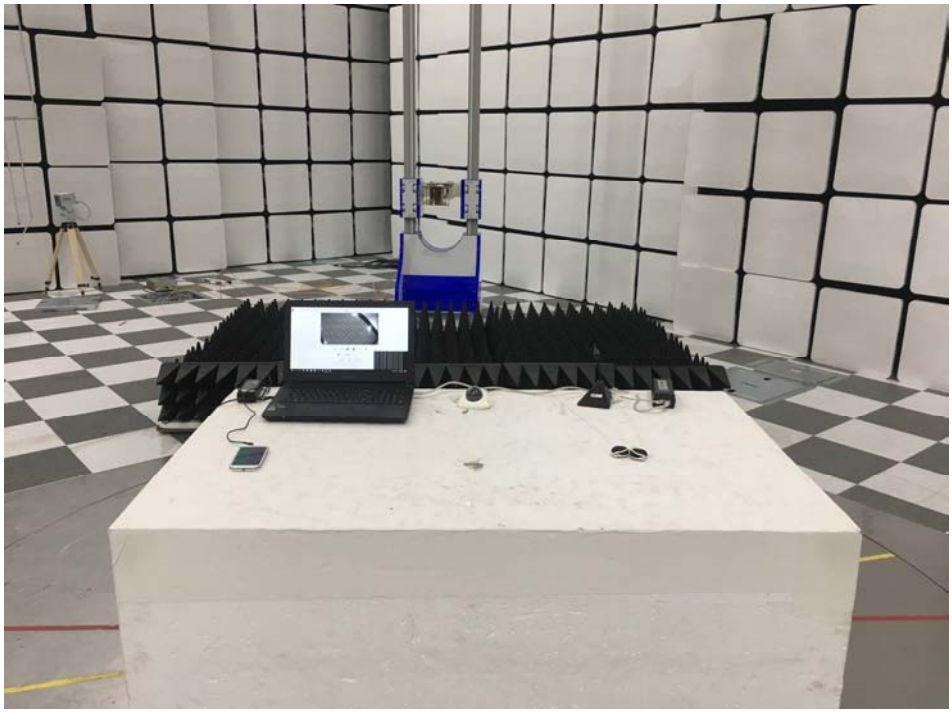
Radiated Electric Field Emissions(Below 1 ㎓)





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Radiated Electric Field Emissions(Above 1 ㎓)





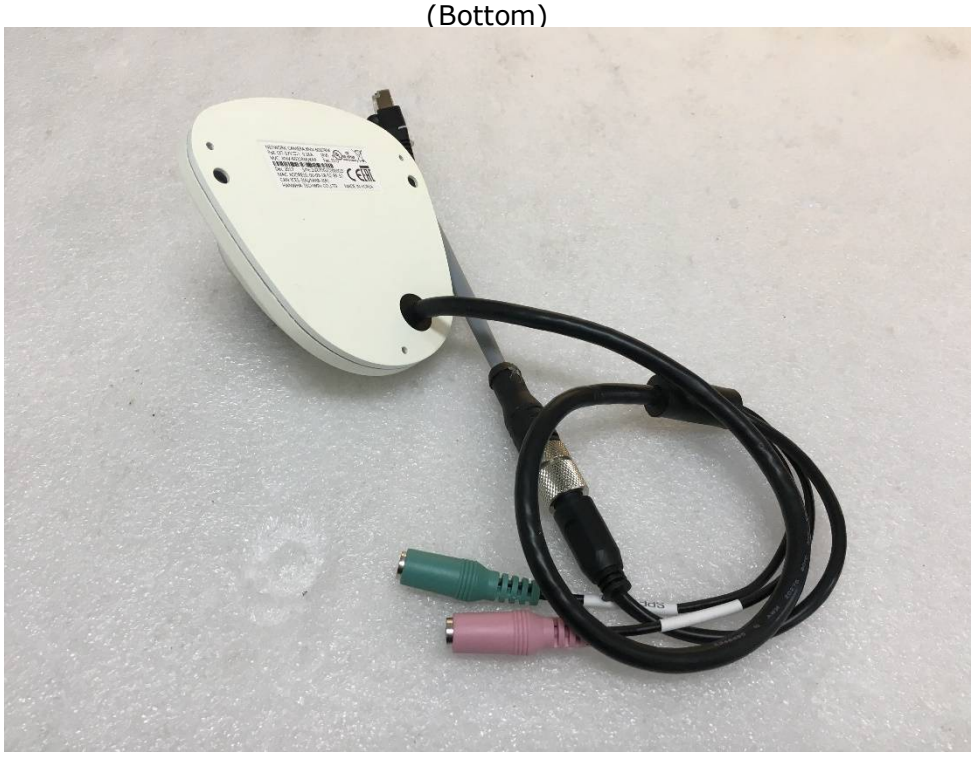
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EUT External Photographs

(Top)



(Bottom)



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EUT Internal Photographs

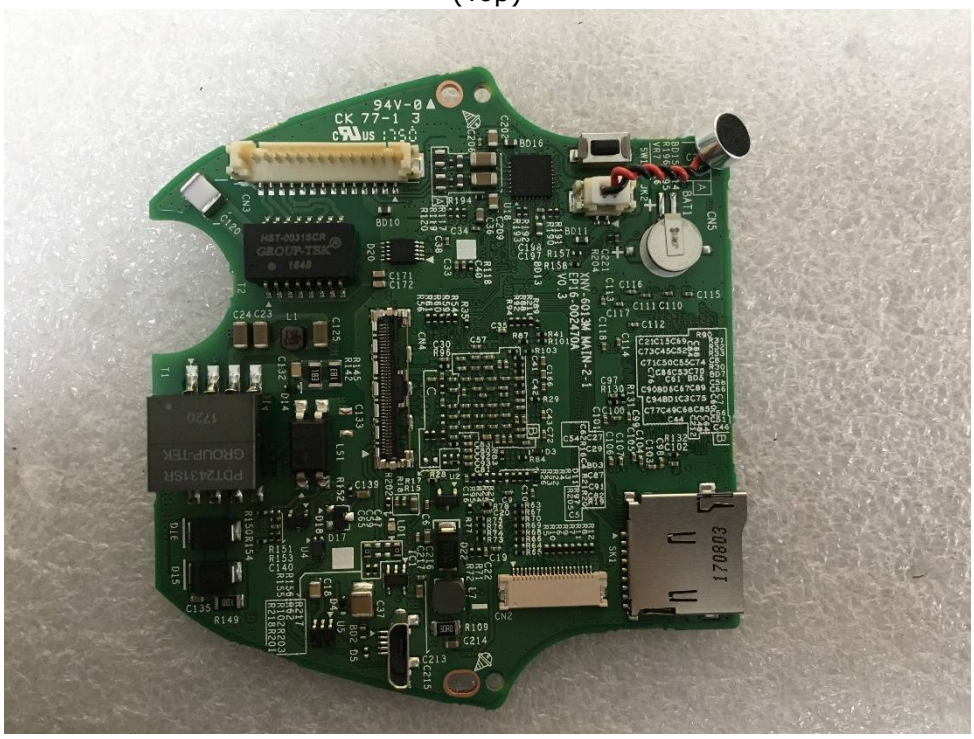
(Internal View)



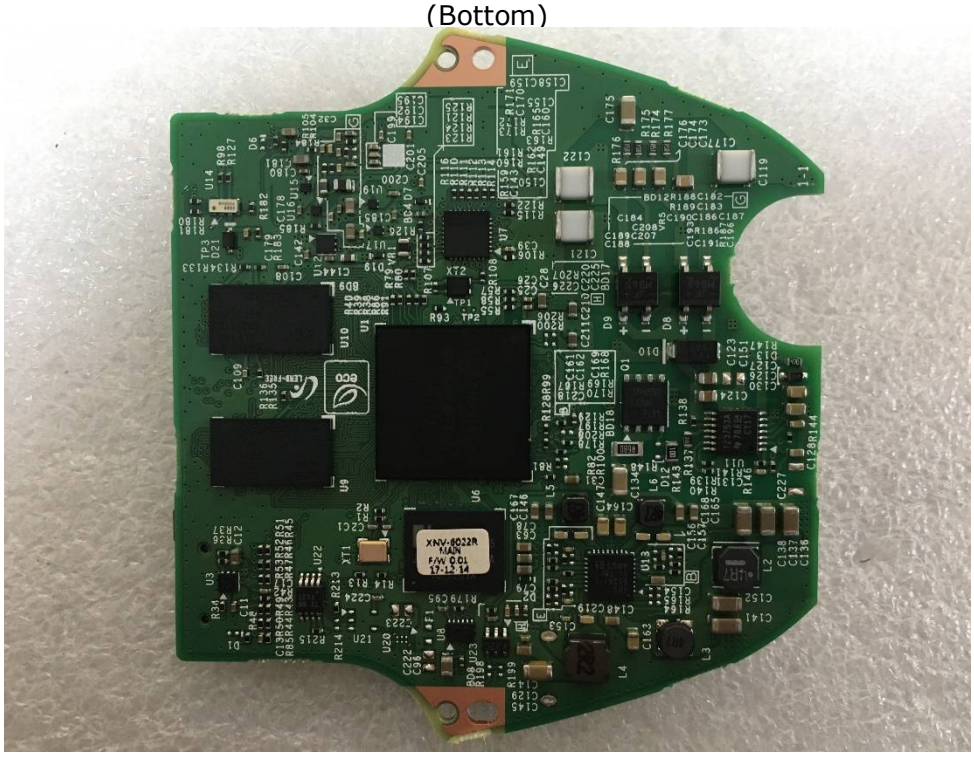
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EUT Internal View – Main board

(Top)



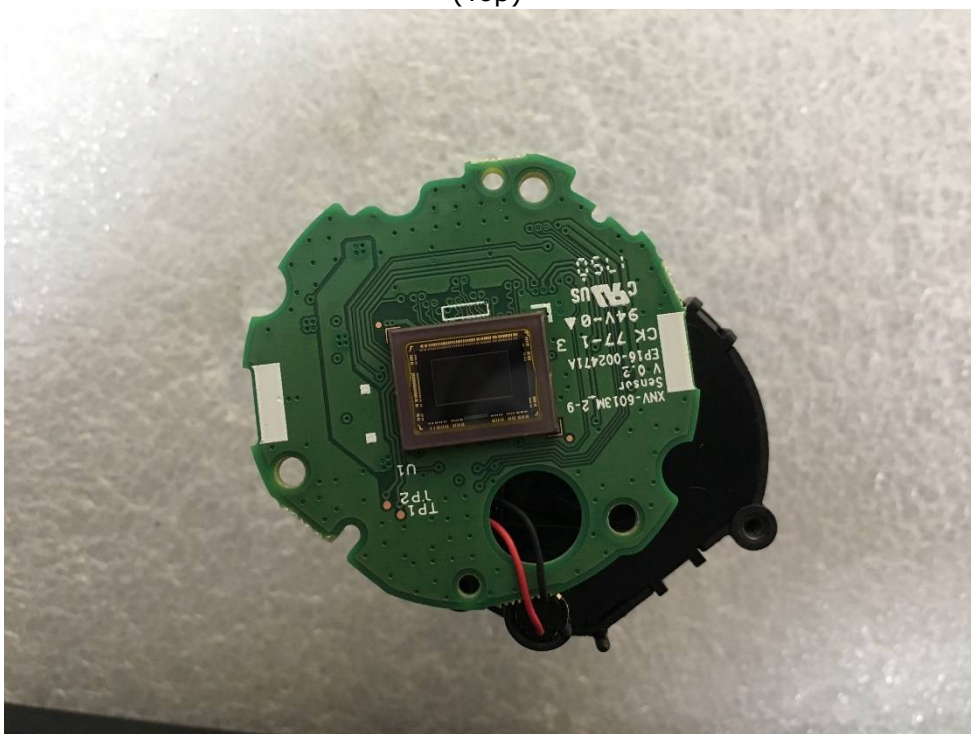
(Bottom)



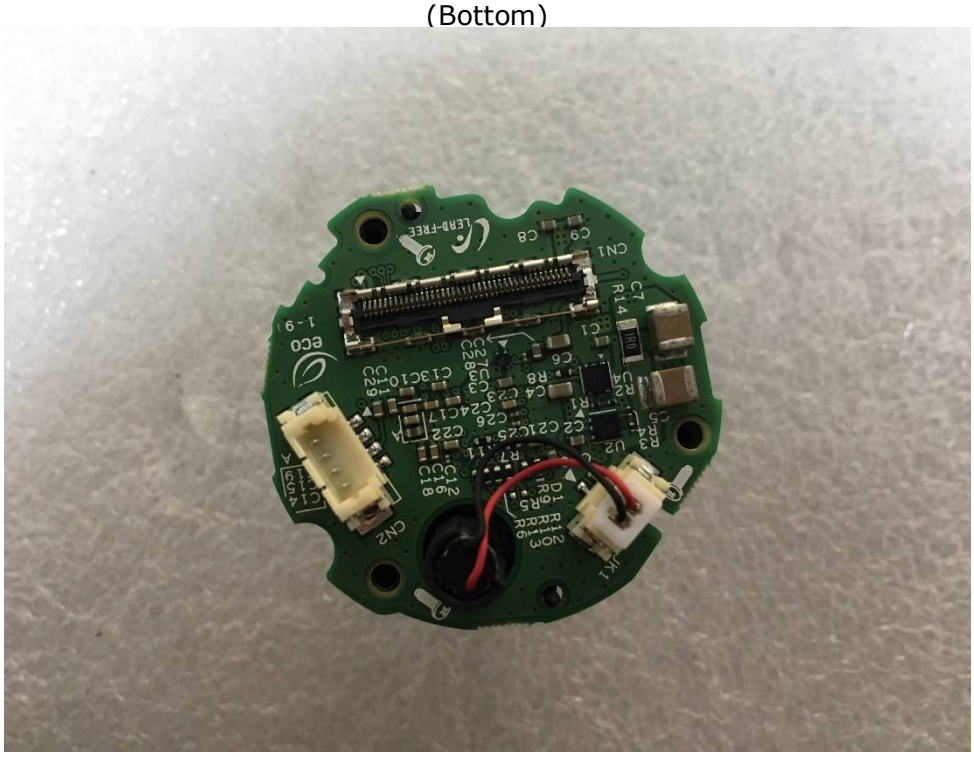
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EUT Internal View – Sensor board

(Top)



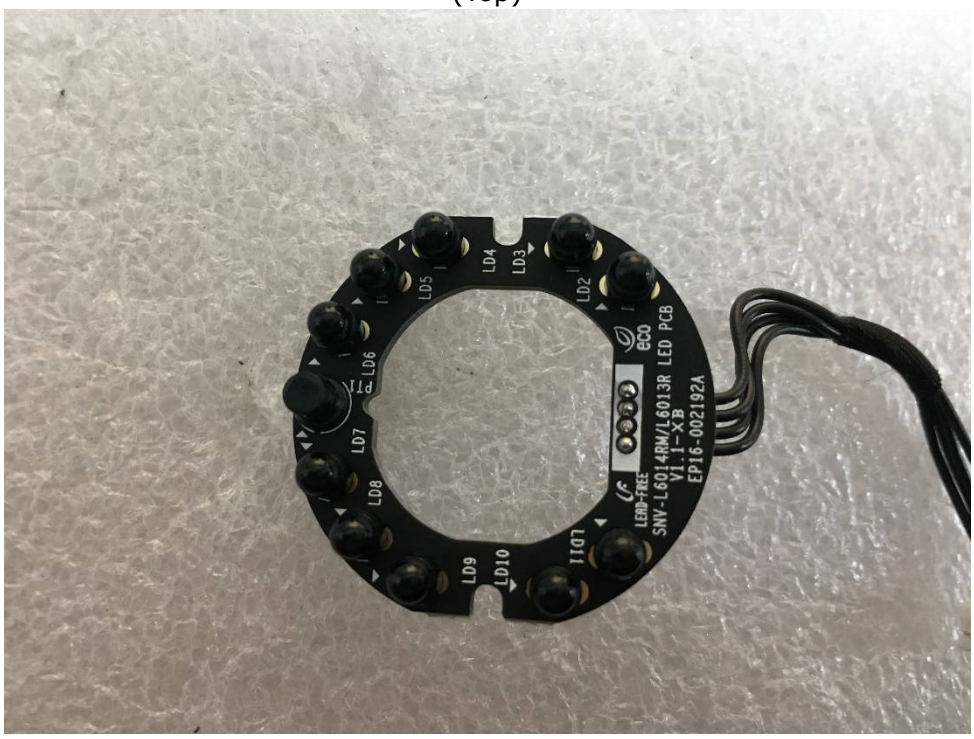
(Bottom)



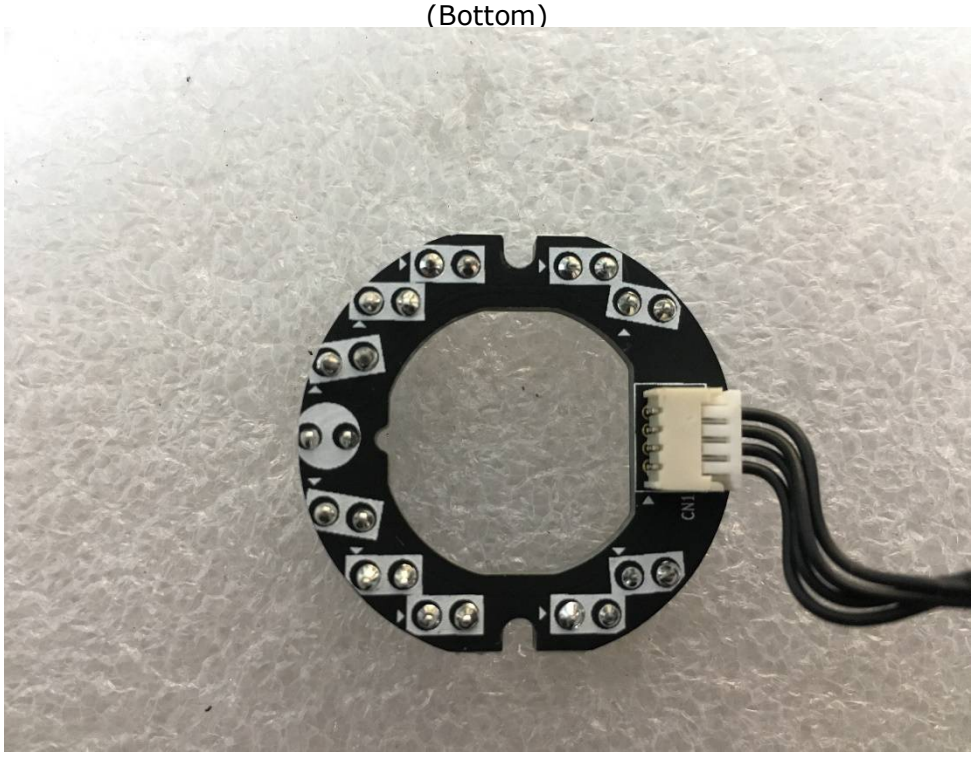
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EUT Internal View – LED board

(Top)



(Bottom)



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EUT Internal View – Lens

(Top)



(Bottom)



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Label Photographs



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

CAN ICES-3(A) / NMB-3(A)

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