



## EMC TEST REPORT

Test Report No. : KES-EM-22T0326-R1  
Date of Issue : Feb. 24, 2023  
Product name : CCTV CAMERA  
Model/Type No. : ANO-L7082R  
Variant Model : -  
Applicant : Hanwha Vision Co., Ltd  
Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,  
Gyeonggi-do, Republic of Korea  
Manufacturer : 1. HANWHA VISION VIETNAM COMPANY LIMITED  
2. D-TECH CO.,LTD.  
Manufacturer Address : 1. Lot O-2, Que Vo Industrial Zone extended area,  
Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam  
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do,  
Korea (Suwon Industrial Complex)  
Equipment authorization : **Supplier's Declaration of Conformity**  
Date of Receipt : Mar. 15, 2022  
Test date : Mar. 23, 2022 ~ Mar. 24, 2022  
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Dae Soo, Kim  
EMC Test Engineer

Reviewed by

Dong-Hun, Jang  
EMC Technical Manager

This test report is not related to KS Q ISO/IEC 17025 and KOLAS.

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**REPORT REVISION HISTORY**

Date	Test Report No.	Revision History
Apr. 06, 2022	KES-EM-22T0326	Issued
Feb. 24, 2023	KES-EM-22T0326-R1	Change the Applicant and manufacturer at the request of the customer

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## 1.0 General Product Description

### Main Specifications of EUT are:

	ANO-L7082R		
<b>Video</b>		Wide Dynamic Range	120dB
Imaging Device	1/2.8" CMOS	Digital Noise Reduction	SSNR
Resolution	2560 x 1440, 1920 x 1080, 1280 x 960, 1280 x 720, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240	Digital Image Stabilization	None
Max. Framerate	H.265/H.264 : Max. 30fps at 4M all resolutions MJPEG : Max. 15fps	Defog	None
NETD	None	Motion Detection	4ea, polygonal zones
Pixel Size	None	Privacy Masking	6ea, rectangular zones
Min. Illumination	Color : 0.1Lux (F1.6, 1/30sec) B/W : 0Lux (IR LED On)	Gain Control	Low / Middle / High
Video Out	None	White Balance	ATW / AWC / Manual / Indoor / Outdoor
Video Transmission Distance	None	LDC	Support
<b>Lens</b>		Electronic Shutter Speed	Minimum/Maximum/Anti flicker (1/5~1/12,000sec)
Focal Length (Zoom Ratio)	3.3~10.3mm(3.1x) motorized varifocal	Digital PTZ	None
Max. Aperture Ratio	F1.6(Wide) ~ F3.3(Tele)	Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Angular Field of View	H: 94.8°(Wide) ~ 28.1°(Tele) V: 50.2°(Wide) ~ 15.8°(Tele) D: 112.9°(Wide) ~ 32.2°(Tele)	Analytics	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line
Min. Object Distance	0.5m(1.64ft)	Business Intelligence	None
Focus Control	Simple focus	Serial Interface	None
Lens Type	DC auto iris	Alarm I/O	None
Mount Type	None	Alarm Triggers	Analytics, Network disconnect
Optional Lens	None	Alarm Events	File upload via FTP and e-mail, Notification via e-mail, SD/SDHC/SDXC or NAS recording at event triggers, Handover
<b>Pan / Tilt / Rotate</b>		Audio Streaming	None
Pan / Tilt / Rotate Range	None	Audio In	None
Pan Range	None	Audio Out	None
Pan Speed	None	IR Viewable Length	30m(98.43ft)
Tilt Range	None	IR Illuminator (Optional)	None
Tilt Speed	None	Water Removal	None
Rotate Range	None	Auto Tracking	None
Sequence	None	Coaxial Protocol	None
Preset Accuracy	None	Color Palettes	None
<b>Operational</b>		<b>Radiometry</b>	
Camera Title	Displayed up to 85 characters	Temperature Detect Range	None
Direction Indicator	None	Temperature Accuracy	None
Day & Night	Auto(ICR)	Temperature Detection	None
Backlight Compensation	BLC, WDR, SDR	Additional	None



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<b>Network</b>		<b>Power Module</b>	None
Ethernet	RJ-45 (10/100BASE-T)	<b>Backbox</b>	None
Video Compression	H.265/H.264 : Main/High, MJPEG	<b>DORI (EN62676-4 standard)</b>	
Audio Compression	None	Detect (25PPM/ 8PPF)	Wide: 47.1m(154.46ft) / Tele: 204.6m(671.23ft)
Smart Codec	Manual (Sea area), WiseStreamII	Observe (63PPM/ 19PPF)	Wide: 18.8m(61.79ft) / Tele: 81.8m(268.37ft)
Video Quality Adjustment	H.265/H.264 : Target bitrate level control, MJPEG : Quality level control	Recognize (125PPM/ 38PPF)	Wide: 9.4m(30.89ft) / Tele: 40.9m(134.25ft)
Bitrate Control	H.264/H.265 : CBR or VBR MJPEG : VBR	Identify (250PPM/ 76PPF)	Wide: 4.7m(15.45ft) / Tele: 20.5m(67.12ft)
Streaming	Unicast (6 users) / Multicast Multiple streaming (Up to 3 profiles)	<b>LPR/ANPR/MMCR</b>	
Protocol	IPv4, IPv6, 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, LLDP	Speed Description	None
SIP support (VoIP, Peer-to-peer, SIP/P	None	Speed limit	None
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP)	Min. Forward Distance	None
Application Programming Interface	ONVIF Profile S/G/T, SUNAPI (HTTP API)	Max. Forward Distance	None
<b>General</b>		Max. Horizontal Angle	None
Webpage Language	English	Max. Vertical Angle	None
Web Viewer	None	Horizontal Offset	None
Edge Storage	Micro SD/SDHC/SDXC 1slot 128GB	Camera Height	None
Memory	512MB RAM, 256MB Flash	Lane Coverage	None
<b>Environmental &amp; Electrical</b>		Vehicle Recognition	None
Operating Temperature / Humidity	-30°C ~ +55°C(-22°F ~ +131°F) / Less than 95% RH * Start up should be done at above -20°C(-4°F)	Available Countries	None
Storage Temperature / Humidity	-30°C ~ +55°C (-22°F ~ +131°F) / Less than 95% RH	<b>Wisenet Road AI LPR/ANPR/MMCR</b>	
Certification	IP66	Solution	None
Input Voltage	PoE(IEEE802.3af, Class3)	Speed Description	None
Power Consumption	Max 8.0W, typical 6.0W	Lane Coverage	None
<b>Mechanical</b>		Speed limit	None
Color / Material	White / Plastic	Min. Forward Distance	None
RAL Code	RAL9003	Max. Forward Distance	None
Product Dimensions / Weight	Ø78.0x262.0mm(Ø3.07x10.31"), 390g(0.86lb)	Max. Horizontal Angle	None
Compatible Conduit hole / Gangbox	None	Max. Vertical Angle	None
Hanging Mount (Dome)	None	Horizontal Offset	None
Skin Cover	None	Camera Height	None
Skin Cover (Dome)	None	Vehicle Recognition	None
Weather Cap (Dome)	None	Available Countries	None

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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.

☒ AC 120 V, 60 Hz (PoE Adapter Input Power)

## 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
CCTV CAMERA	ANO-L7082R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

## 1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Notebook	LG15N54	410NZGK015231	LG	-
Notebook Adapter	ADP-90WH B	84ZW19F1663	DELTA ELECTRONICS(JIANGSU ) LTD.	-
PoE Adapter	PT-PSE109GBRO-AH	-	Dongguan PROCET Network Technology Co.,Ltd	-
Micro SD Card	-	-	-	-



## 1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
CCTV CAMERA (EUT)	RJ-45	PoE Adapter	RJ-45	3.0	U
	Micro SD	Micro SD Card	Micro SD	-	-
PoE Adapter	RJ-45	Notebook	RJ-45	1.0	U
Notebook	DC Jack	Notebook Adapter	DC Jack	1.4	U

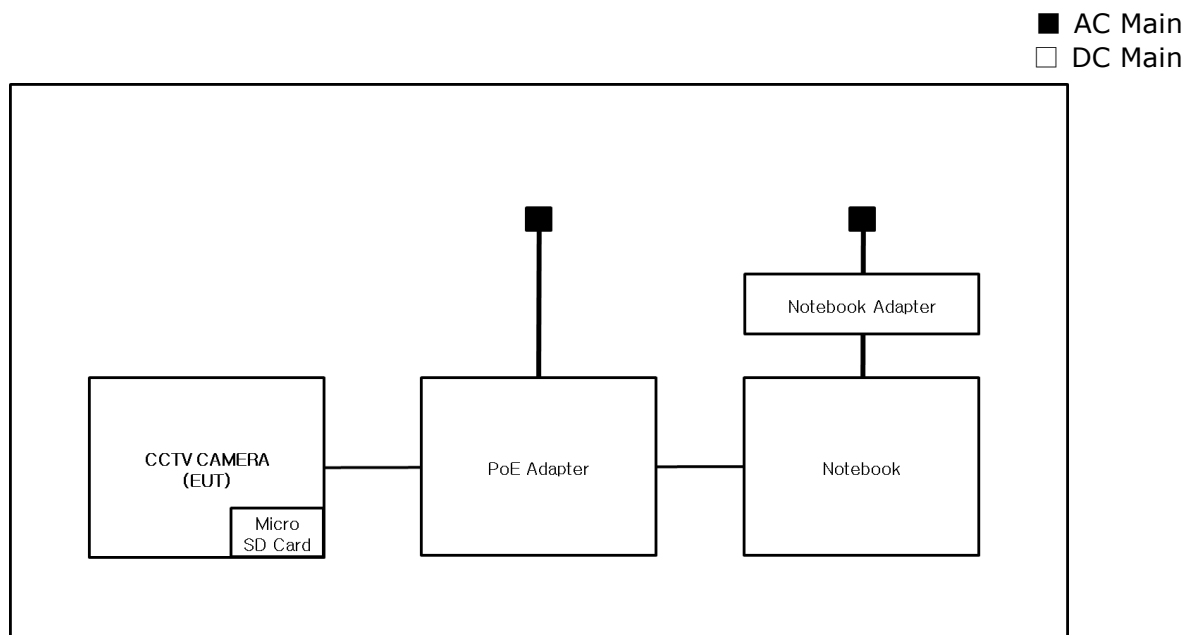
\* Unshielded=U, Shielded=S

## 1.7 EUT Operating Mode(s)

Test Mode	operating
Operating Mode	Monitoring EUT micro sd card : after testing, check if the recording is normally done on the micro sd card

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	Hanwha Vision Co., Ltd

## 1.8 Configuration





## 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, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

## 1.12 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)	 C-20136, T-20137, R-20181, G-20176
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0004



## 2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **47 CFR Part 15, Subpart B**

☐ CISPR 22:2009 +A1:2010

☐ Class A

☐ Class B

☒ ANSI C63.4a-2017

☒ Class A

☐ Class B

☒ **IC Regulation ICES-003 Issue 7**

☐ CAN/CSA-CISPR 32:17

☐ Class A

☐ Class B

☒ ANSI C63.4a-2017

☒ Class A

☐ Class B



## 2.1 Conducted Emissions at Mains Power Ports

### Test Date

Mar. 23, 2022

### Test Location

Electro wave Shieldroom #6

### Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EMC32	R & S	9.12.00	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	12, 27, 2022
<input checked="" type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022

### Test Conditions

Temperature: (24,3 ± 0,0) °C

Relative Humidity: (44,8 ± 0,0) % R.H.

### Frequency Range of Measurement

150 kHz to 30 MHz

### Instrument Settings

IF Band Width: 9 kHz

### Test Results

The requirements are:

- ☒ PASS  
☐ NOT PASS  
☐ NOT APPLICABLE

### Remarks

See Appendix A for test data.

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## 2.2 Radiated Electric Field Emissions(Below 1 GHz)

**Test Date**

Mar. 23, 2022

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

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	R & S	100551	04, 01, 2022
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 08, 2023

**Test Conditions**

Temperature: (24,5 ± 0,2) °C

Relative Humidity: (44,9 ± 0,0) % R.H.

**Frequency Range of Measurement**

30 MHz to 1 GHz

**Instrument Settings**

IF Band Width: 120 kHz

**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 GHz)

**Test Date**

Mar. 24, 2022

**Test Location**

SEMI ANECHOIC CHAMBER #5

**Test Equipment**

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.120	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	04, 01, 2022
<input checked="" type="checkbox"/>	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	HP	3008A00538	06, 21, 2022

**Test Conditions**

Temperature: (24,7 ± 0,2) °C

Relative Humidity: (46,4 ± 0,0) % R.H.

**Frequency Range of Measurement**

1 GHz to 5 GHz

**Instrument Settings**

IF Band Width: 1 MHz

**Test Results**

The requirements are:

☒ PASS☐ NOT PASS☐ NOT APPLICABLE**Remarks**See Appendix A for test data.

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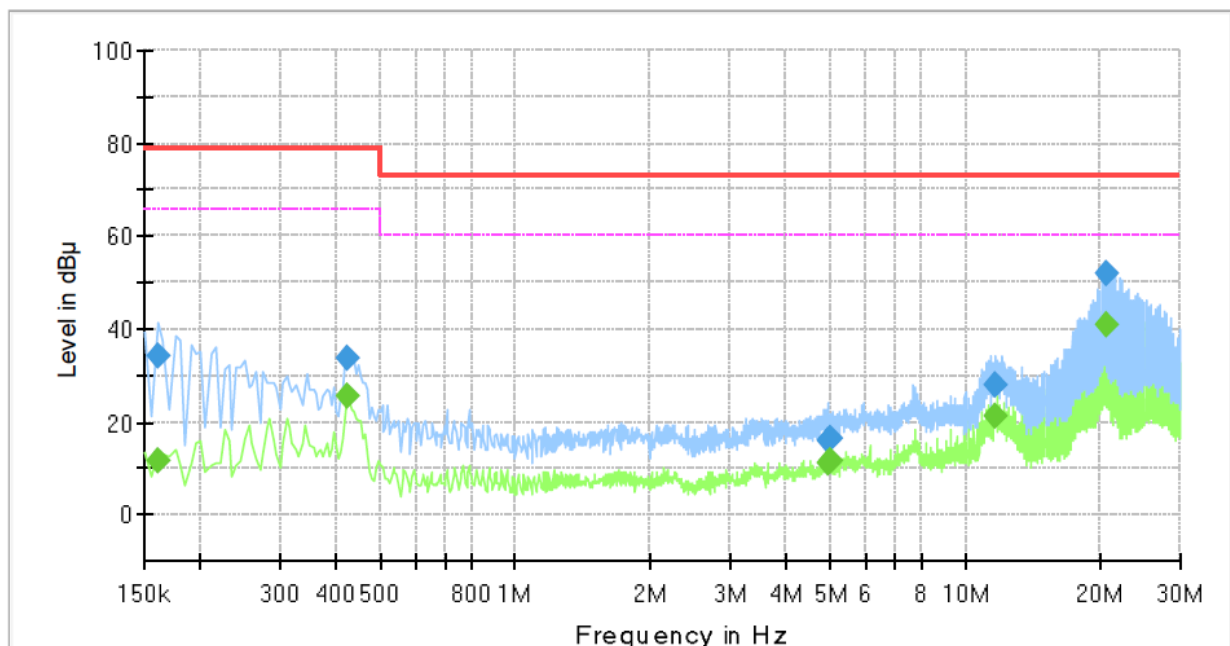
## APPENDIX A – TEST DATA

### Conducted Emissions at Mains Power Ports

HOT LINE

#### Common Information

Test Description:	Conducted Emission
Model No.:	ANO-L7082R
Phase:	H
Mode:	
Operator Name:	KES



#### Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	33.97	---	79.00	45.03	1000.0	9.000	L1	19.4
0.160000	---	11.66	66.00	54.34	1000.0	9.000	L1	19.4
0.425000	33.72	---	79.00	45.28	1000.0	9.000	L1	19.6
0.425000	---	25.53	66.00	40.47	1000.0	9.000	L1	19.6
4.950000	15.71	---	73.00	57.29	1000.0	9.000	L1	19.6
4.950000	---	10.95	60.00	49.05	1000.0	9.000	L1	19.6
5.000000	16.39	---	73.00	56.61	1000.0	9.000	L1	19.6
5.000000	---	11.54	60.00	48.46	1000.0	9.000	L1	19.6
11.705000	27.77	---	73.00	45.23	1000.0	9.000	L1	20.0
11.705000	---	21.10	60.00	38.90	1000.0	9.000	L1	20.0
20.645000	---	40.93	60.00	19.07	1000.0	9.000	L1	20.1
20.645000	51.73	---	73.00	21.27	1000.0	9.000	L1	20.1

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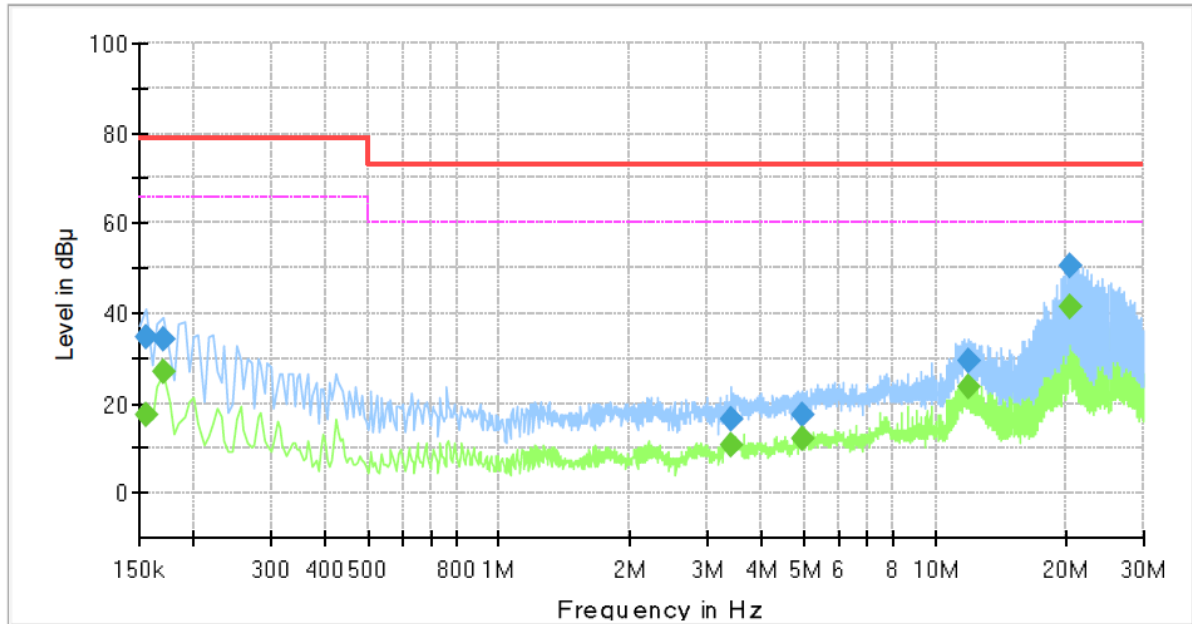
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## NEUTRAL LINE

## Common Information

Test Description:	Conducted Emission
Model No.:	ANO-L7082R
Phase:	N
Mode:	
Operator Name:	KES



## Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	34.72	---	79.00	44.28	1000.0	9.000	N	19.4
0.155000	---	17.46	66.00	48.54	1000.0	9.000	N	19.4
0.170000	34.24	---	79.00	44.76	1000.0	9.000	N	19.4
0.170000	---	26.86	66.00	39.14	1000.0	9.000	N	19.4
3.395000	16.25	---	73.00	56.75	1000.0	9.000	N	20.1
3.395000	---	10.86	60.00	49.14	1000.0	9.000	N	20.1
4.930000	17.28	---	73.00	55.72	1000.0	9.000	N	19.6
4.930000	---	12.00	60.00	48.00	1000.0	9.000	N	19.6
11.895000	29.38	---	73.00	43.62	1000.0	9.000	N	20.0
11.895000	---	23.57	60.00	36.43	1000.0	9.000	N	20.0
20.440000	---	41.31	60.00	18.69	1000.0	9.000	N	20.2
20.440000	50.39	---	73.00	22.61	1000.0	9.000	N	20.2

### ◆ Calculation

$$\text{QuasiPeak [dBuV]} / \text{CAverage [dBuV]} = \text{Reading Value [dBuV]} + \text{Corr. [dB]}$$

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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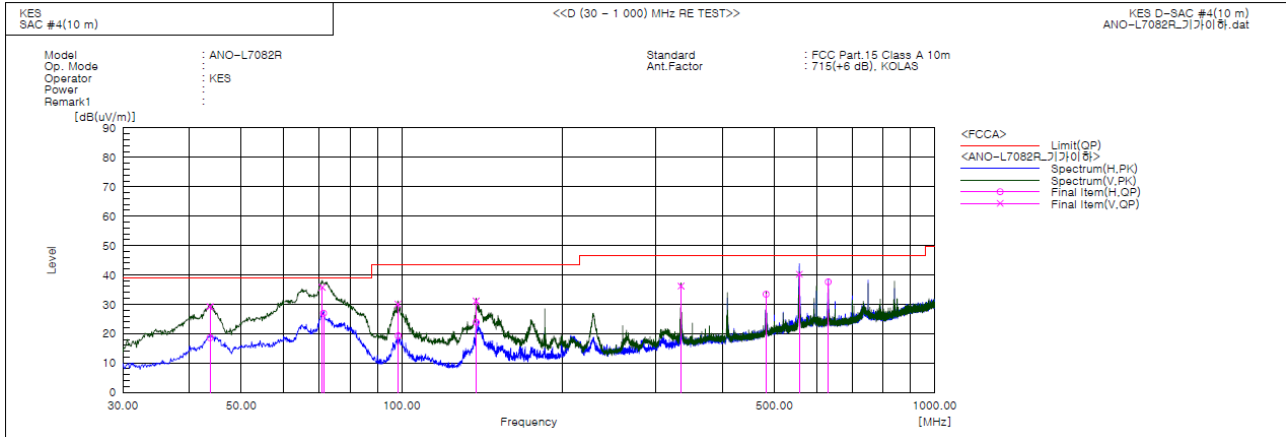
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## Radiated Electric Field Emissions(Below 1 GHz)

- 47 CFR Part 15, Subpart B



### 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	43.701	V	50.8	-21.6	29.2	39.0	9.8	111.0	284.0	
2	43.701	H	40.2	-21.6	18.6	39.0	20.4	393.0	174.0	
3	70.983	V	61.1	-25.3	35.8	39.0	3.2	124.0	253.0	
4	71.346	H	52.3	-25.4	26.9	39.0	12.1	347.0	164.0	
5	98.385	V	52.8	-22.7	30.1	43.5	13.4	102.0	261.0	
6	98.506	H	42.0	-22.7	19.3	43.5	24.2	367.0	238.0	
7	137.913	V	56.6	-25.5	31.1	43.5	12.4	106.0	257.0	
8	138.034	H	49.4	-25.5	23.9	43.5	19.6	365.0	39.0	
9	334.095	V	52.1	-15.9	36.2	46.5	10.3	114.0	318.0	
10	482.626	H	45.4	-12.0	33.4	46.5	13.1	328.0	144.0	
11	556.831	V	50.2	-10.0	40.2	46.5	6.3	122.0	170.0	
12	631.158	H	45.9	-8.3	37.6	46.5	8.9	355.0	54.0	

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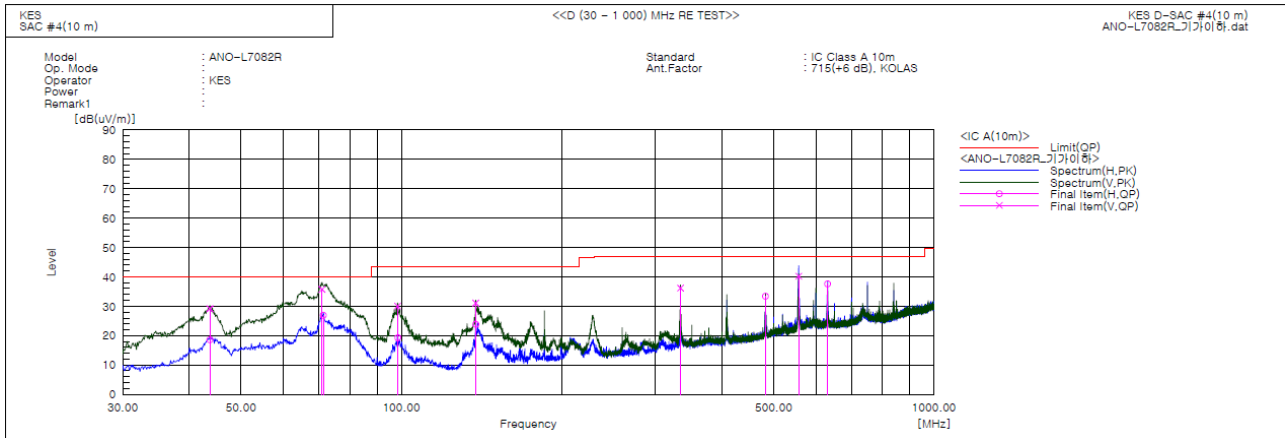
3701, 40, Simin-daero 365beon-gil,  
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea  
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Report No.:

KES-EM-22T0326-R1

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## - IC Regulation ICES-003 Issue 7



## 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	43.701	V	50.8	-21.6	29.2	40.0	10.8	111.0	284.0	
2	43.701	H	40.2	-21.6	18.6	40.0	21.4	393.0	174.0	
3	70.983	V	61.1	-25.3	35.8	40.0	4.2	124.0	253.0	
4	71.346	H	52.3	-25.4	26.9	40.0	13.1	347.0	164.0	
5	98.385	V	52.8	-22.7	30.1	43.5	13.4	102.0	261.0	
6	98.506	H	42.0	-22.7	19.3	43.5	24.2	367.0	238.0	
7	137.913	V	56.6	-25.5	31.1	43.5	12.4	106.0	257.0	
8	138.034	H	49.4	-25.5	23.9	43.5	19.6	365.0	39.0	
9	334.095	V	52.1	-15.9	36.2	47.0	10.8	114.0	318.0	
10	482.626	H	45.4	-12.0	33.4	47.0	13.6	328.0	144.0	
11	556.831	V	50.2	-10.0	40.2	47.0	6.8	122.0	170.0	
12	631.158	H	45.9	-8.3	37.6	47.0	9.4	355.0	54.0	

## ◆ Calculation - SAC #4(10 m)

Result(QP) [dB(uV/m)] = (Reading(QP)[dB(uV)] + c.f[dB(1/m)])

Margin(QP)[dB] = Limit[dB(uV/m)] - Result(QP) [dB(uV/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

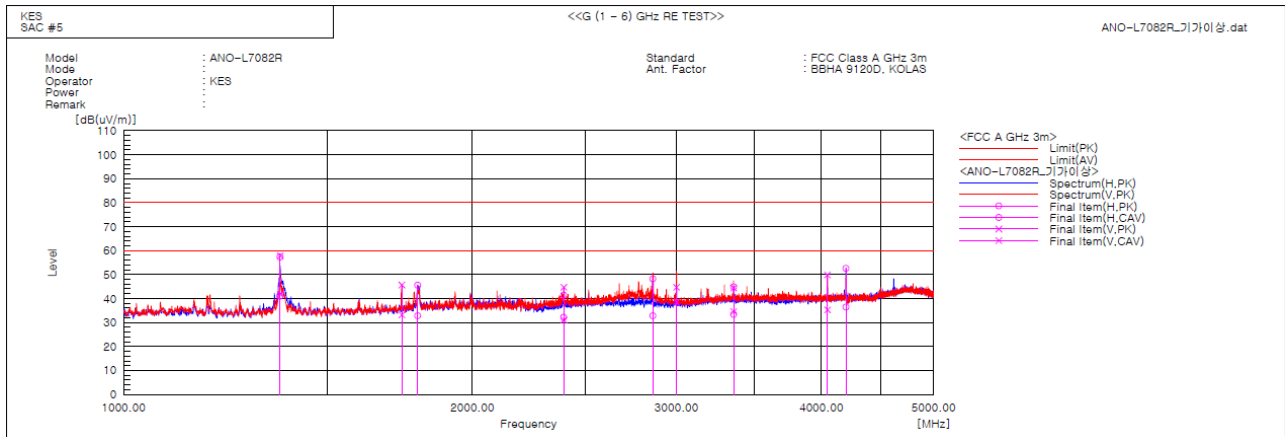
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## Radiated Electric Field Emissions(Above 1 GHz)



### 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	1364.375	H	62.8	46.5	-5.5	57.3	41.0	80.0	60.0	22.7	19.0	342.0	169.7	
2	1365.000	V	63.4	47.3	-5.5	57.9	41.8	80.0	60.0	22.1	18.2	108.0	343.9	
3	1738.125	V	49.7	37.2	-4.0	45.7	33.2	80.0	60.0	34.3	26.8	122.0	163.8	
4	1793.750	H	49.3	36.5	-3.7	45.6	32.8	80.0	60.0	34.4	27.2	295.0	58.1	
5	2397.500	H	43.0	33.7	-1.5	41.5	32.2	80.0	60.0	38.5	27.8	104.0	172.1	
6	2398.125	V	46.2	32.6	-1.5	44.7	31.1	80.0	60.0	35.3	28.9	182.0	270.1	
7	2861.875	H	47.6	32.2	0.6	48.2	32.8	80.0	60.0	31.8	27.2	317.0	15.9	
8	3000.000	V	43.8	37.6	0.9	44.7	38.5	80.0	60.0	35.3	21.5	112.0	138.7	
9	3360.000	H	43.2	31.7	1.7	44.9	33.4	80.0	60.0	35.1	26.6	385.0	114.7	
10	3360.000	V	42.7	32.9	1.7	44.4	34.6	80.0	60.0	35.6	25.4	124.0	248.7	
11	4050.000	V	46.6	32.0	3.3	49.9	35.3	80.0	60.0	30.1	24.7	106.0	235.0	
12	4200.000	H	48.8	32.7	3.8	52.6	36.5	80.0	60.0	27.4	23.5	329.0	15.9	

### ◆ Calculation

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

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

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

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

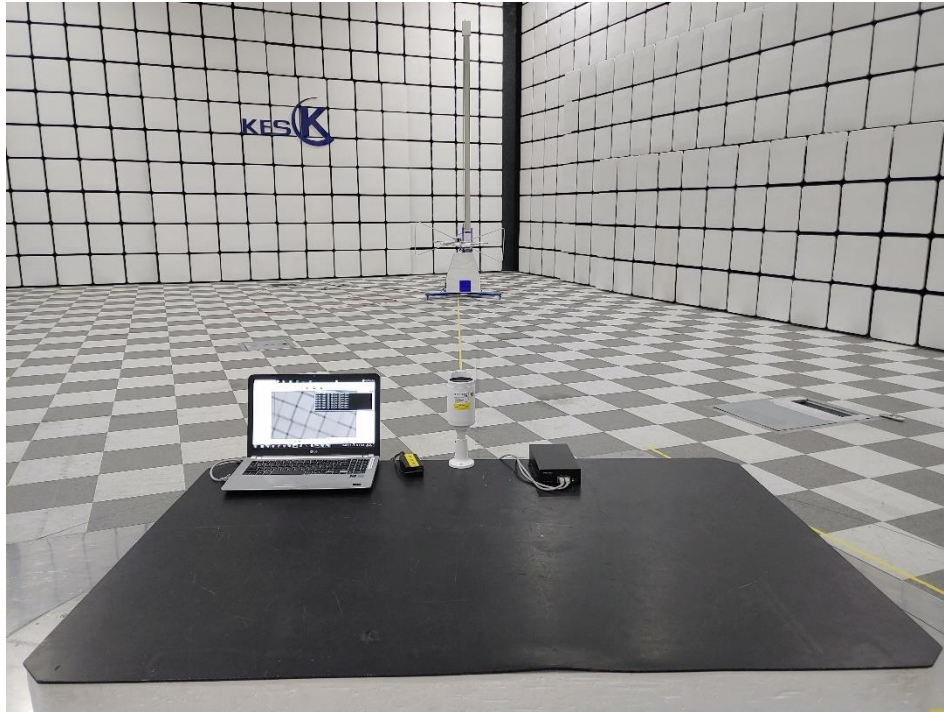
## Test Setup Photos and Configuration

### Conducted Emissions at Mains Power Ports



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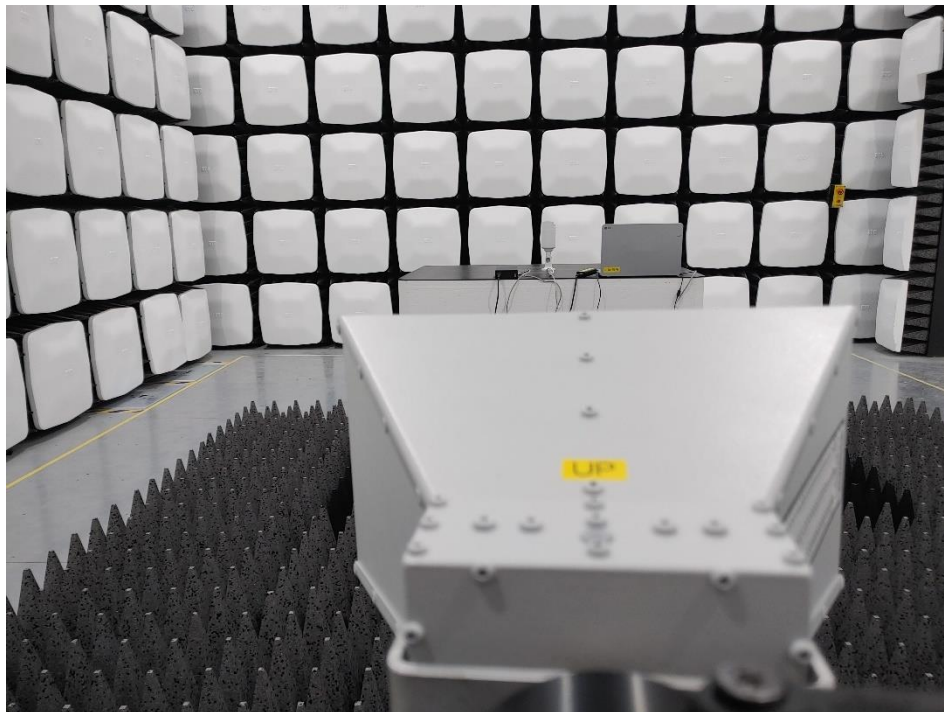
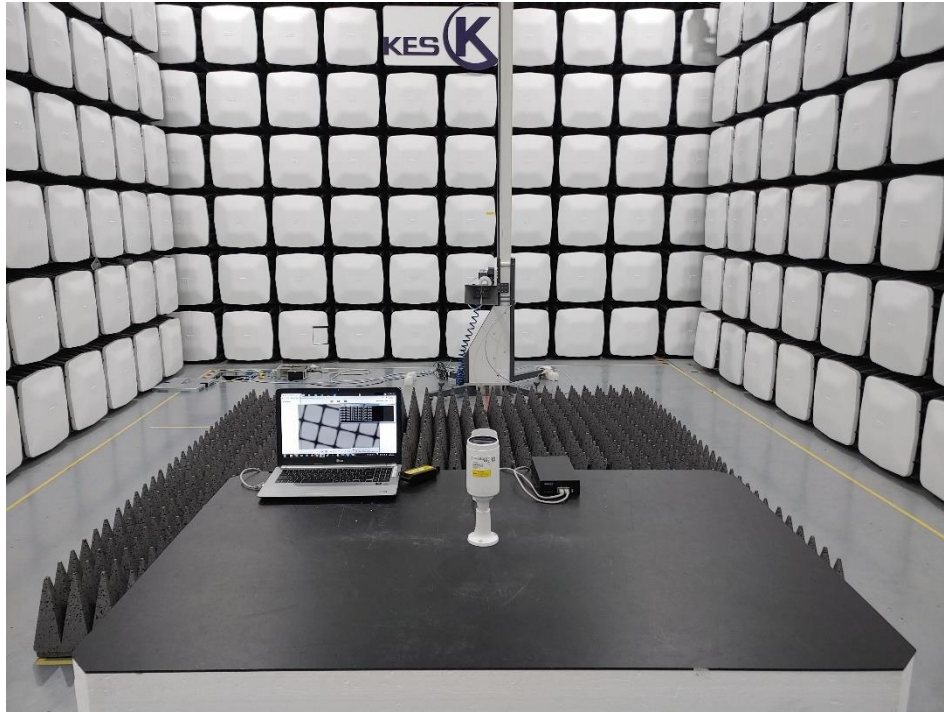
## Radiated Electric Field Emissions(Below 1 GHz)



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## Radiated Electric Field Emissions(Above 1 GHz)



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## EUT External Photographs

(Top)



(Bottom)



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## EUT Internal Photographs

(Internal View)





**EUT Internal View – Board 1**

(Top)



(Bottom)



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## EUT Internal View – Board 2

(Top)



(Bottom)



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## EUT Internal View – Board 3

(Top)



(Bottom)



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## EUT Internal View – Board 4

(Top)



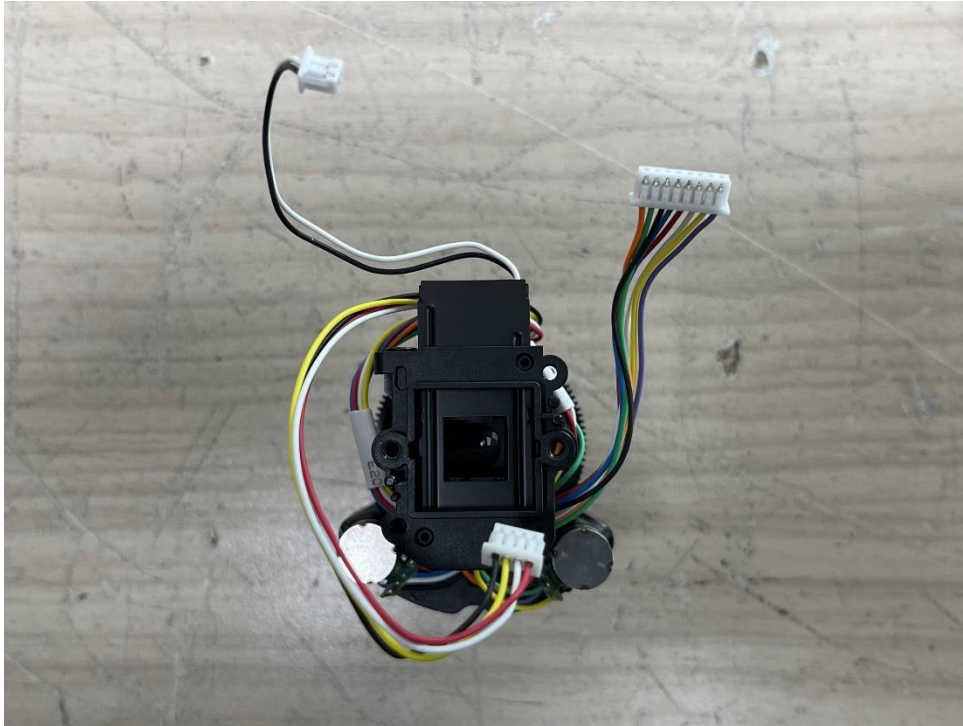
(Bottom)



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## EUT Internal View – Lens

(Top)



(Bottom)



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## Label Photographs



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

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

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.