



EMC TEST REPORT For RCM

Test Report No. : KES-EM-22T0150-R1
Date of Issue : Feb. 24, 2023
Product name : NETWORK CAMERA
Model/Type No. : XNP-9250R
Variant Model : XNP-8250R
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)
Date of Receipt : Jan. 11, 2022
Test date : Jan. 12, 2022
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Jae Won, Lee
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
Jan. 27, 2022	KES-EM-22T0150	Issued
Feb. 24, 2023	KES-EM-22T0150-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:

Video	
Imaging Device	1/2.8" CMOS
Resolution	3840x2160, 2592x1944, 2592x1464, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Min. Illumination	Color: 0.1Lux(F1.6, 1/30sec) BW: 0Lux(IR LED On)
Lens	
Focal Length (Zoom Ratio)	5~125mm(25x) zoom (digital 32x total 800x zoom)
Max. Aperture Ratio	F1.6(Wide)~F3.73(Tele)
Angular Field of View	H: 57.42°(Wide)~2.71°(Tele) / V: 33.54°(Wide)~1.55°(Tele)
Min. Object Distance	3m(9.84ft)
Focus Control	Oneshot AF, Focus save
Lens Type	DC auto iris
Pan / Tilt / Rotate	
Pan Range	360° Endless
Pan Speed	Max. 700°/sec, Manual: 0.024°/sec~250°/sec
Tilt Range	110°(-20°~90°)
Tilt Speed	Max. 500°/sec, Manual: 0.024°/sec~250°/sec
Sequence	Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Preset Accuracy	Up to ±0.1°, Pan/Tilt correction
Operational	
Camera Title	Displayed up to 85 characters
Direction Indicator	Support
Day & Night	Auto(ICR)/Color/BW/Schedule
Backlight Compensation	BLC, HLC, WDR, SDR
Wide Dynamic Range	Extreme WDR(120dB)
Digital Noise Reduction	SSNR V
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, polygonal Support - Color: Grey/Green/Red/Blue/Black/White - Mosaic
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror

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Analytics	Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Shock detection * Audio detection, Sound classification(with NW I/O Box)
Alarm Triggers	Analytics, Network disconnect * Alarm input(with NW I/O Box)
Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers PTZ Preset Handover * Alarm output(with NW I/O Box)
Water Removal	Support(Spinning dry)
Auto Tracking	Object auto tracking(Person/Vehicle), Target lock tracking
Network	
Ethernet	Metal shielded RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Smart Codec	Manual(5ea area), WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast (128 user) Multiple streaming(Up to 10 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTCP
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device certificate(Hanwha Techwin Root CA)
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
General	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 2slot 1TB
Memory	4GB RAM, 512MB Flash
Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+60°C(-40°F~+140°F) / Less than 95% RH(Non-condensing) Maximum Temperature based on NEMA-TS 2(2.2.7) : +74°C(+165°F)
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / Less than 95% RH(Non-condensing)
Certification	IP66 IK10 NEMA4X, NEMA-TS 2(2.2.8, 2.2.9)
Input Voltage	HPoE(IEEE802.3bt, Class4, Type3, Injector included)
Power Consumption	Typical 20W, Max 40W
Mechanical	
Color / Material	Body : White / Aluminum Head : Black / Polycarbonate Hard-coated dome
RAL Code	White: RAL9003 / Black: RAL9005
Product Dimensions / Weight	Ø158x293.3mm(6.22x11.55") / 3.2Kg(7.05lb)
DOH (EN62675-4 standard)	
Detect (25PPM/8PPF)	Wide: 140.2m(460.0ft) / Tele: 324.69m(10652.4ft)
Observe (68PPM/19PPF)	Wide: 56.1m(184.0ft) / Tele: 1298.7m(4261.0ft)
Recognize (125PPM/38PPF)	Wide: 28.0m(92.0ft) / Tele: 649.4m(2130.5ft)
Identify (250PPM/76PPF)	Wide: 14.0m(46.0ft) / Tele: 324.7m(1065.2ft)

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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 240 V, 50 Hz

1.2 Variant Model Differences

Addition of derivative models for place of sale management

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	XNP-9250R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
PoE Adapter	PT-PSE106GBR-AH-S	-	Dongguan PROCET Network Technology Co.,Ltd	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Notebook1	Latitude 5300	8C47BE45C060	DELL INC.	-
Notebook1 Adapter	HA65NM130	-	Chicony Power Technology(Suzhou)Co., Ltd.	-
Notebook2	LG15N54	503NZWY038929	LG Electronics	-
Notebook2 Adapter	PA-1900-14	OF2R263348701 7764	LITE-ON TECHNOLOGY COPORATION	-
Optical Converter	SFC2000-SFP	-	Soltech	-
Optical Converter Adapter	SAW06D-050- 1000KD	-	SHENZHEN SHI YINGYUAN ELECTRONICS CO.,LTD	-
Micro SD Card	-	-	SanDisk	8 GB



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)	PoE Adapter (EUT)	RJ-45 (PoE)	2.0	U
	Slot	Micro SD Card	Slot	-	-
Notebook1	RJ-45 (LAN)	PoE Adapter (EUT)	RJ-45 (LAN)	3.5	U
	DC Jack	Notebook1 Adapter	DC Jack	1.3	U
PoE Adapter (EUT)	Optical	Optical Converter	Optical	2.0	U
	Enclosure Grounding	Grounding	Enclosure Grounding	-	-
Optical Converter	RJ-45	Notebook2	RJ-45	2.0	U
Notebook2	DC Jack	Notebook2 Adapter	DC Jack	1.3	U
Optical Converter	DC Jack	Optical Converter Adapter	DC Jack	1.6	U

* Unshielded=U, Shielded=S

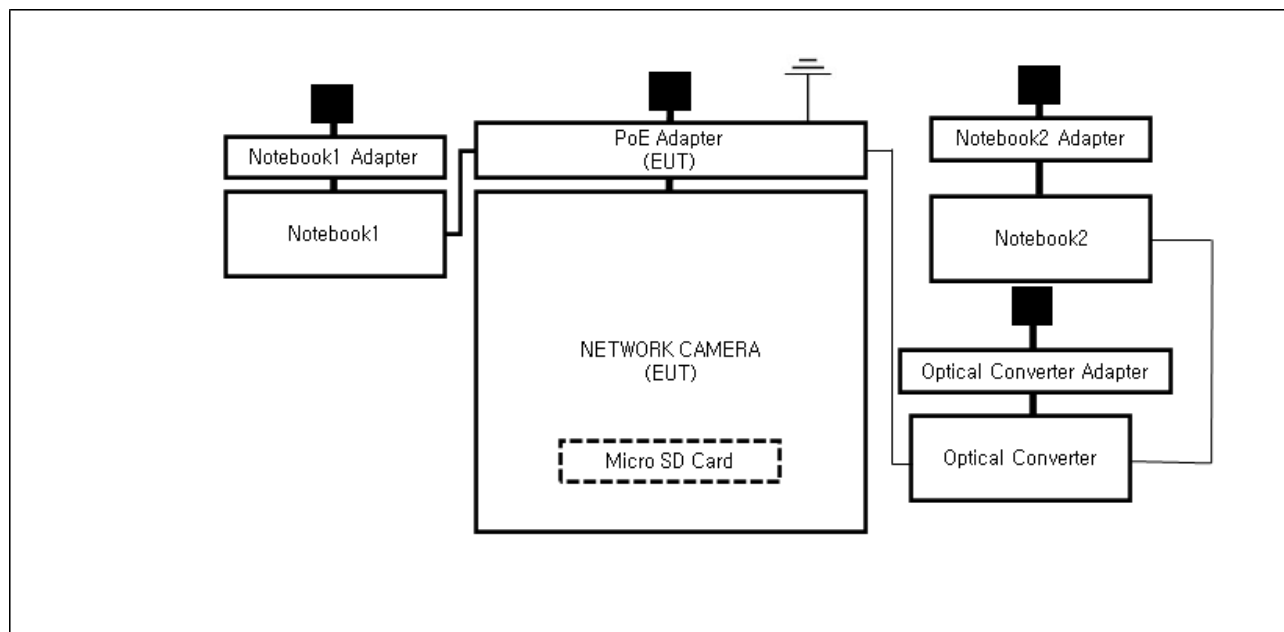
1.7 EUT Operating Mode(s)

Test Mode	operating
Operation mode	After placing the test equipment and peripherals as shown in the layout below, run the web viewer on the laptop 1, check the camera screen, and check the ping test on the laptop 1 and 2 to check the normal network operation. After the test, check the Micro SD Card. Checked whether the recording was normal.

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

1.8 Configuration

■ AC Main
 □ DC Main



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



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2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **AS/NZS CISPR32:2015**

☒ Class A

☐ Class B

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2.1 Conducted Emissions at Mains Power Ports

Test Date

Jan. 12, 2022

Test Location

Electro wave Shieldroom #6

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	101783	12, 28, 2022
☒	LISN	ENV216	R & S	101787	12, 27, 2022
☒	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022

Test Conditions

Temperature: (23,0 ± 0,1) °C

Relative Humidity: (43,2 ± 0,1) % 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.

2.2 Conducted Emissions at Telecommunication Ports

Test Date

Jan. 12, 2022

Test Location

Electro wave Shieldroom #6

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	101783	12, 28, 2022
☒	LISN	ENV216	R & S	101787	12, 27, 2022
☒	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022
☒	8-WIRE ISN CAT3,5	ENY81	R & S	100174	12, 28, 2022
☐	ISN	ISN S8	SCHWARZBECK	ISN-S8-0019	03, 10, 2022

Test Conditions

Temperature: (23,0 ± 0,1) °C
Relative Humidity: (43,2 ± 0,1) % 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.
- For Ethernet interfaces, measurements are required at the highest data rate supported by the interface.



2.3 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jan. 12, 2022

Test Location

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

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, 01, 2022
☒	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
☒	ATTENUATOR	8491A	HP	32173	03, 10, 2022

Test Conditions

Temperature: (22,8 ± 0,1) °C

Relative Humidity: (44,1 ± 0,1) % 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.

2.4 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jan. 12, 2022

Test Location

SEMI ANECHOIC CHAMBER #3

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	ESR7	R & S	101190	08, 03, 2022
☒	PREAMPLIFIER	8449B	AGILENT	3008A01967	04, 07, 2022
☐	ATTENUATOR	8491A	HP	35496	03, 10, 2022
☒	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	03, 11, 2022

Test Conditions

Temperature: (23,0 ± 0,1) °C

Relative Humidity: (43,9 ± 0,1) % R.H.

Frequency Range of Measurement

1 GHz to 6 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- ☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

RemarksSee Appendix A for test data.

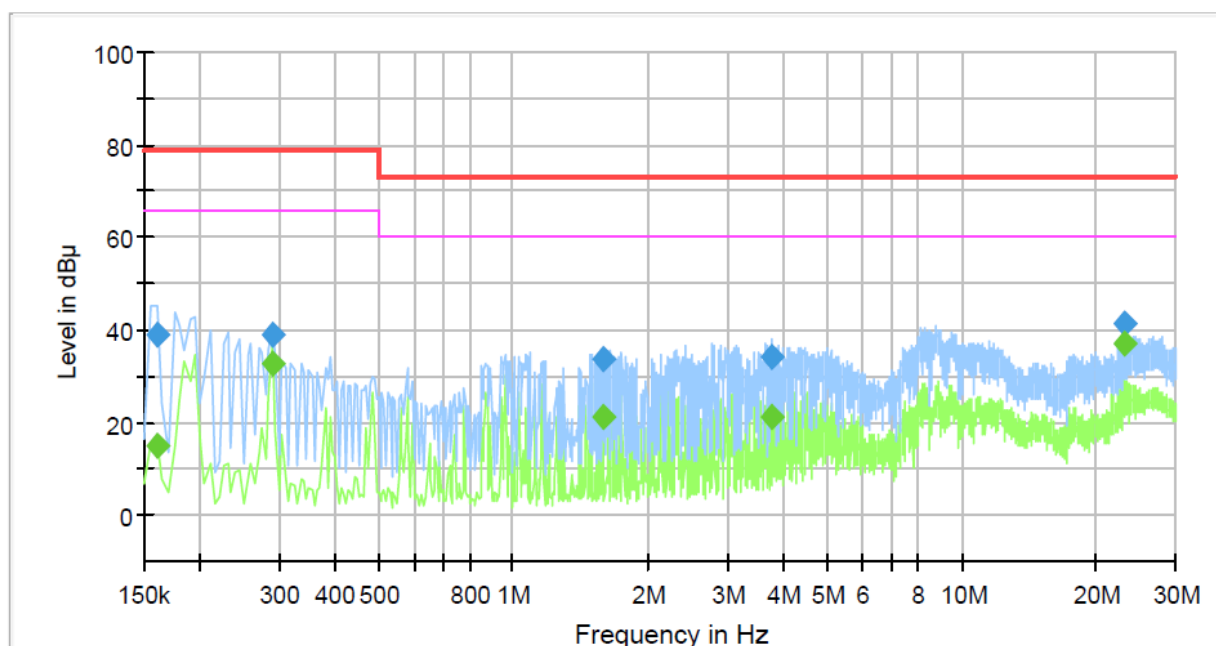
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description: Conducted Emission
 Model No.: XNP-9250R
 Phase: L1
 Mode:
 Operator Name: KES



Final Result

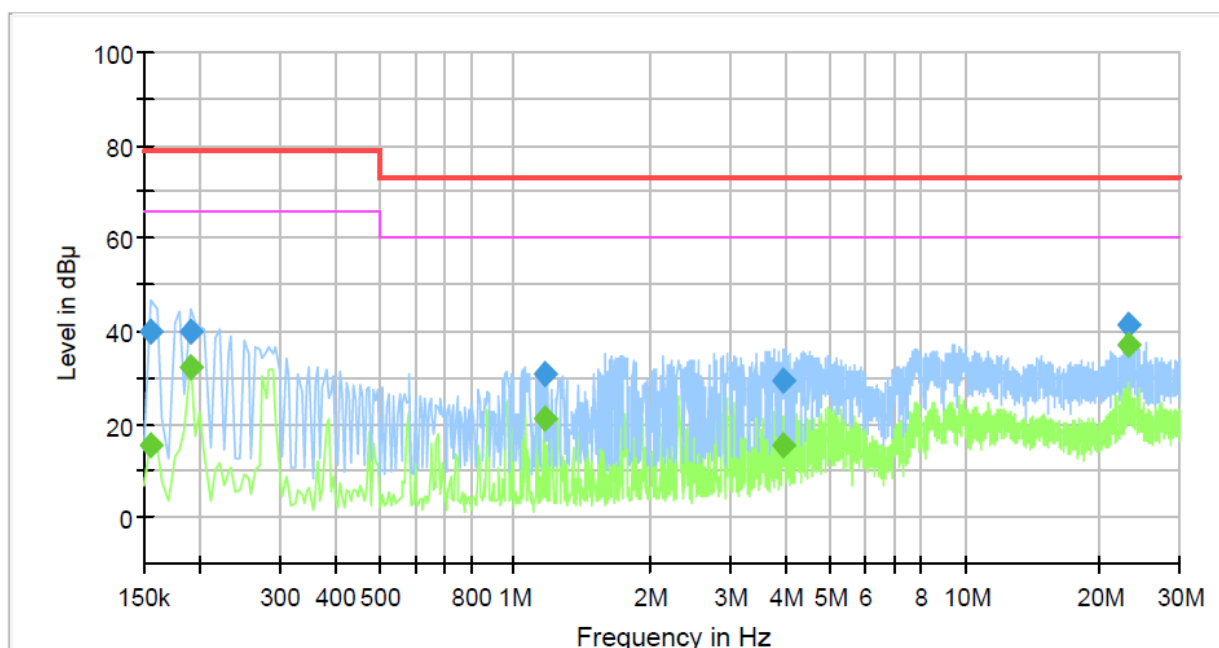
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	14.75	66.00	51.25	1000.0	9.000	L1	19.5
0.160000	39.21	---	79.00	39.79	1000.0	9.000	L1	19.5
0.290000	---	32.63	66.00	33.37	1000.0	9.000	L1	19.5
0.290000	39.14	---	79.00	39.86	1000.0	9.000	L1	19.5
1.585000	---	21.06	60.00	38.94	1000.0	9.000	L1	20.3
1.585000	33.52	---	73.00	39.48	1000.0	9.000	L1	20.3
3.755000	---	21.16	60.00	38.84	1000.0	9.000	L1	20.0
3.755000	34.08	---	73.00	38.92	1000.0	9.000	L1	20.0
23.130000	---	37.10	60.00	22.90	1000.0	9.000	L1	20.2
23.130000	41.50	---	73.00	31.50	1000.0	9.000	L1	20.2

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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	XNP-9250R
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	---	15.27	66.00	50.73	1000.0	9.000	N	19.4
0.155000	40.08	---	79.00	38.92	1000.0	9.000	N	19.4
0.190000	---	32.51	66.00	33.49	1000.0	9.000	N	19.5
0.190000	40.16	---	79.00	38.84	1000.0	9.000	N	19.5
1.160000	---	21.04	60.00	38.96	1000.0	9.000	N	20.1
1.160000	30.96	---	73.00	42.04	1000.0	9.000	N	20.1
3.930000	---	15.53	60.00	44.47	1000.0	9.000	N	19.9
3.930000	29.56	---	73.00	43.44	1000.0	9.000	N	19.9
23.130000	---	36.97	60.00	23.03	1000.0	9.000	N	20.2
23.130000	41.30	---	73.00	31.70	1000.0	9.000	N	20.2

◆ 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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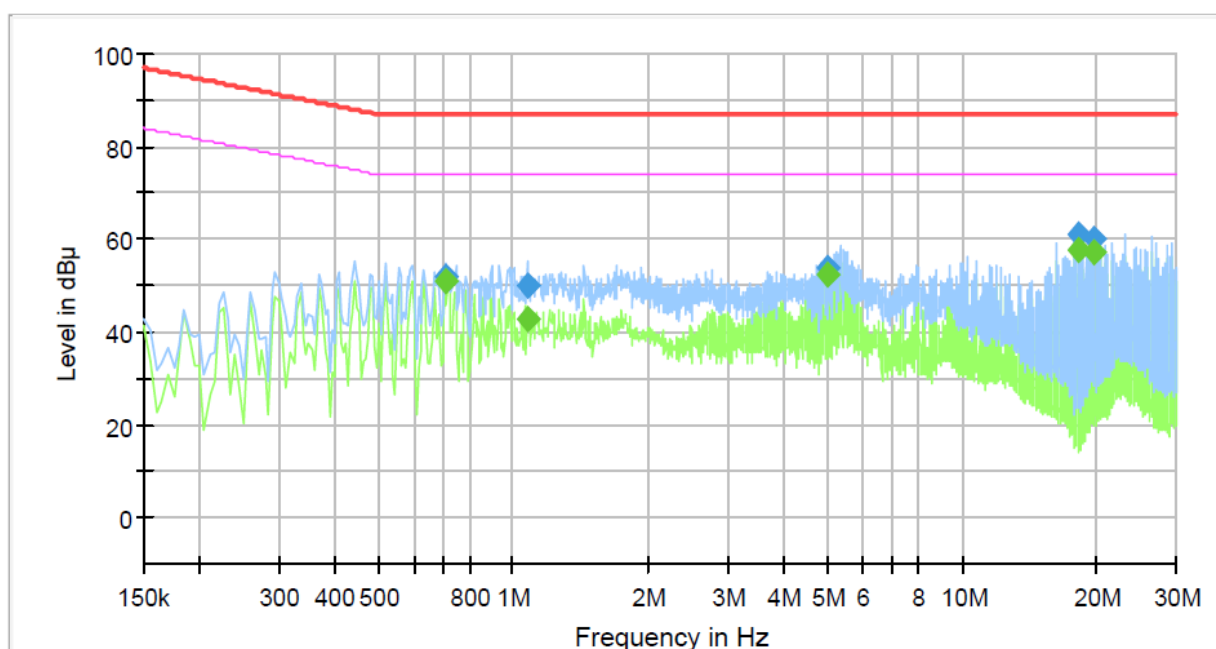
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Conducted Emissions at Telecommunication Ports [100 Mbps]

Common Information

Test Description:	Telecommunication Emission
Model No.:	XNP-9250R
Mode :	LAN_TEL 100 Mbps
Speed :	
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.705000	---	50.77	74.00	23.23	1000.0	9.000	Single Line	19.9
0.705000	52.06	---	87.00	34.94	1000.0	9.000	Single Line	19.9
1.075000	---	42.68	74.00	31.32	1000.0	9.000	Single Line	20.0
1.075000	50.02	---	87.00	36.98	1000.0	9.000	Single Line	20.0
5.010000	---	52.57	74.00	21.43	1000.0	9.000	Single Line	19.5
5.010000	53.82	---	87.00	33.18	1000.0	9.000	Single Line	19.5
18.245000	---	57.54	74.00	16.46	1000.0	9.000	Single Line	19.9
18.245000	60.97	---	87.00	26.03	1000.0	9.000	Single Line	19.9
19.710000	---	57.10	74.00	16.90	1000.0	9.000	Single Line	20.0
19.710000	60.34	---	87.00	26.66	1000.0	9.000	Single Line	20.0

◆ 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 (ISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

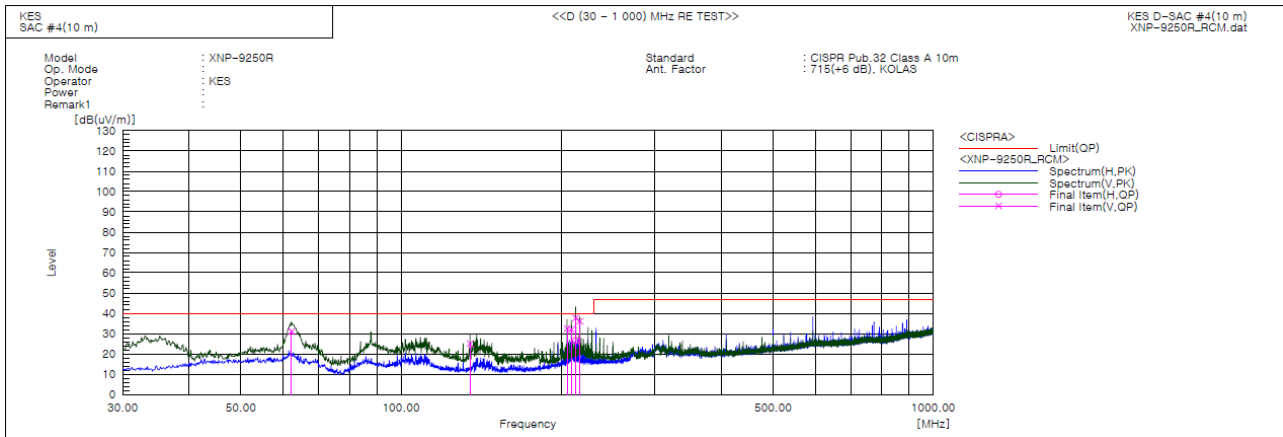
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Radiated Electric Field Emissions(Below 1 GHz)



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	62.253	V	53.4	-22.3	31.1	40.0	8.9	142.0	279.0	
2	134.760	V	50.4	-25.3	25.1	40.0	14.9	115.0	205.0	
3	205.085	V	53.2	-20.7	32.5	40.0	7.5	108.0	135.0	
4	208.965	V	52.7	-20.6	32.1	40.0	7.9	107.0	260.0	
5	212.845	V	58.2	-20.5	37.7	40.0	2.3	145.0	183.0	
6	212.966	H	47.1	-20.5	26.6	40.0	13.4	394.0	222.0	
7	216.725	V	56.5	-20.4	36.1	40.0	3.9	114.0	90.0	

◆ Calculation

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

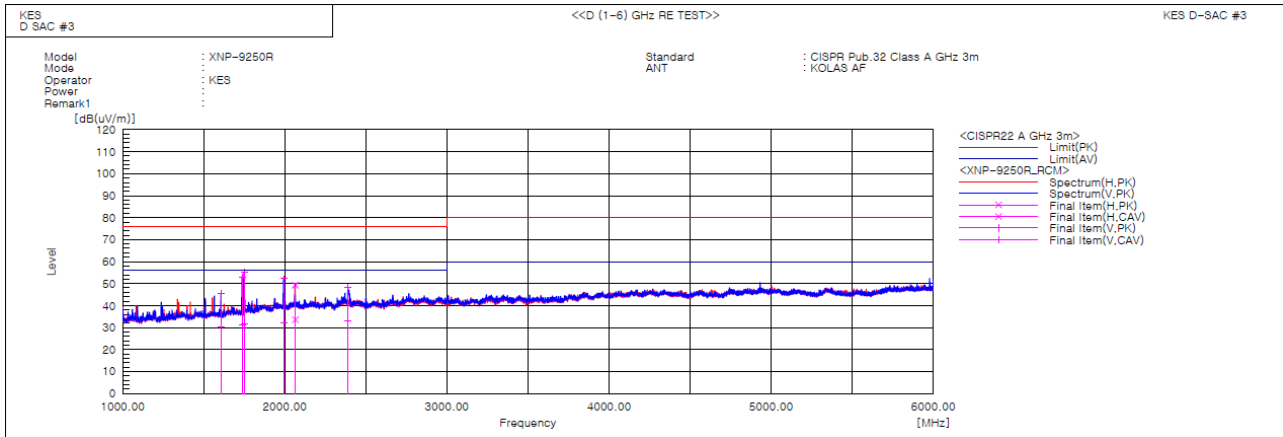
Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/m)]

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



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	1606.142	V	50.8	35.5	-5.3	45.5	30.2	76.0	56.0	30.5	25.8	100.0	135.6	
2	1737.647	V	56.7	34.9	-3.8	52.9	31.1	76.0	56.0	23.1	24.9	100.0	309.0	
3	1748.867	V	58.9	35.4	-3.7	55.2	31.7	76.0	56.0	20.8	24.3	100.0	355.7	
4	1993.978	V	53.3	33.0	-1.1	52.2	31.9	76.0	56.0	23.8	24.1	100.0	213.2	
5	2063.978	H	50.1	34.4	-0.8	49.3	33.6	76.0	56.0	26.7	22.4	100.0	117.6	
6	2390.089	V	48.3	32.7	0.2	48.5	32.9	76.0	56.0	27.5	23.1	100.0	119.6	

◆ Calculation

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

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

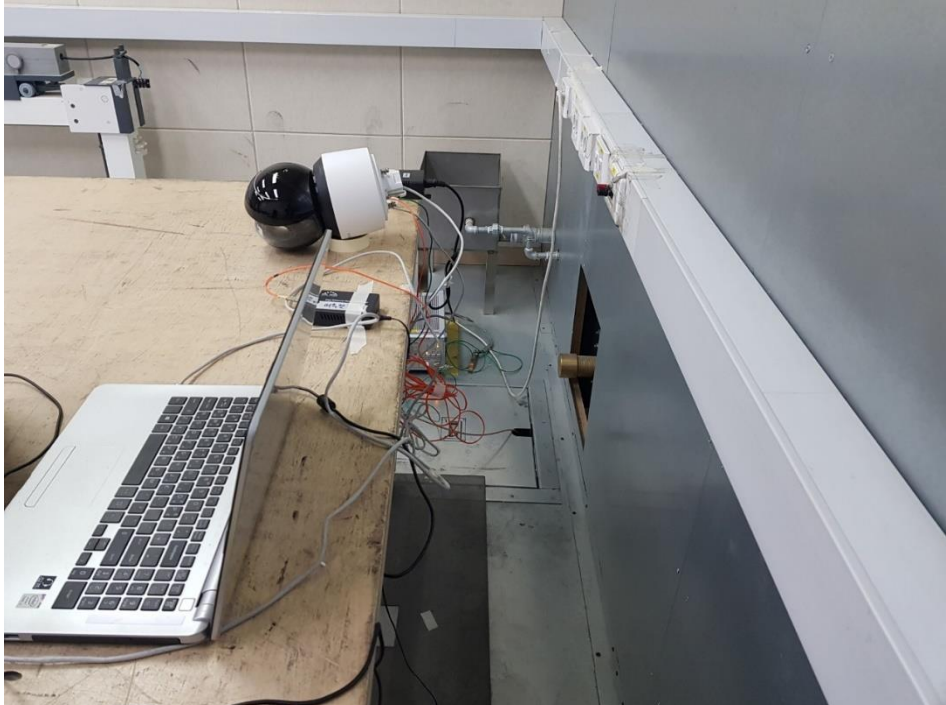
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



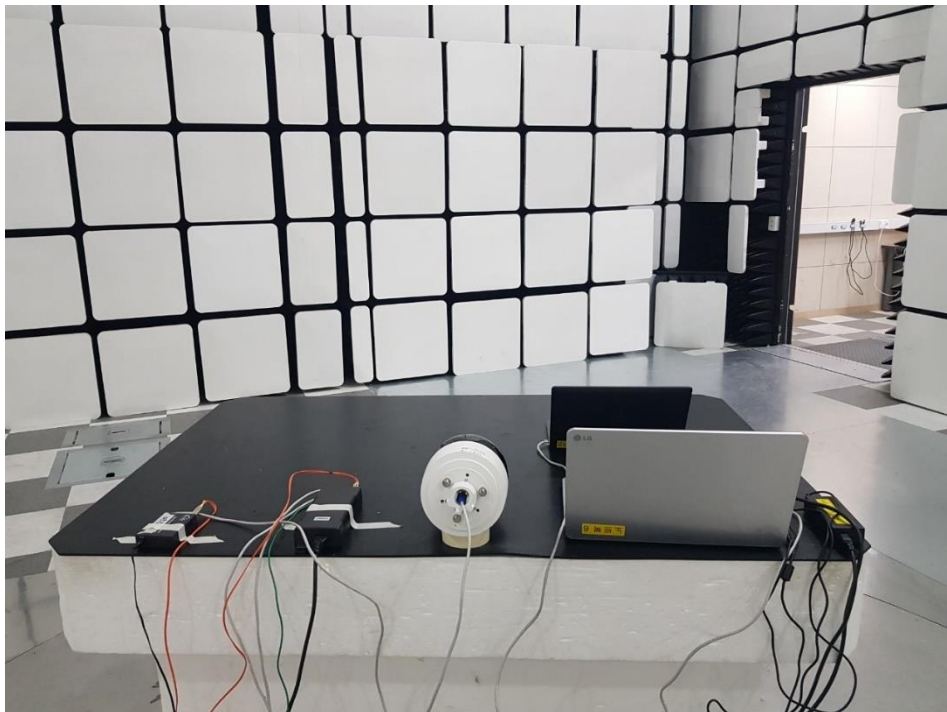
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Conducted Emissions at Telecommunication Ports



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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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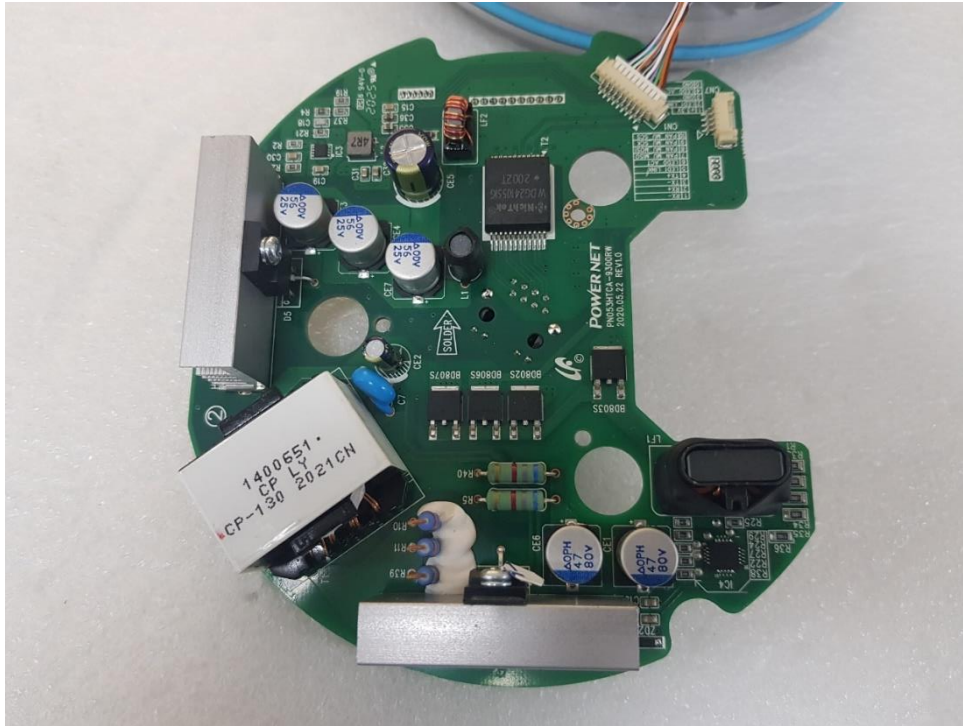
EUT Internal Photographs

(Internal View)

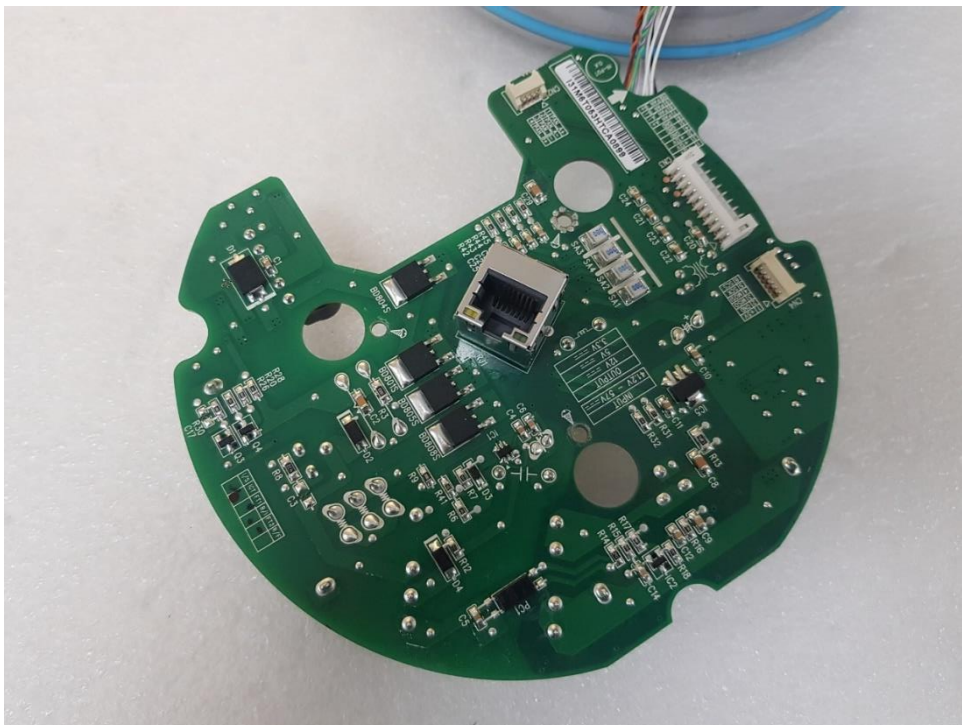


EUT Internal View – Main Board 1

(Top)



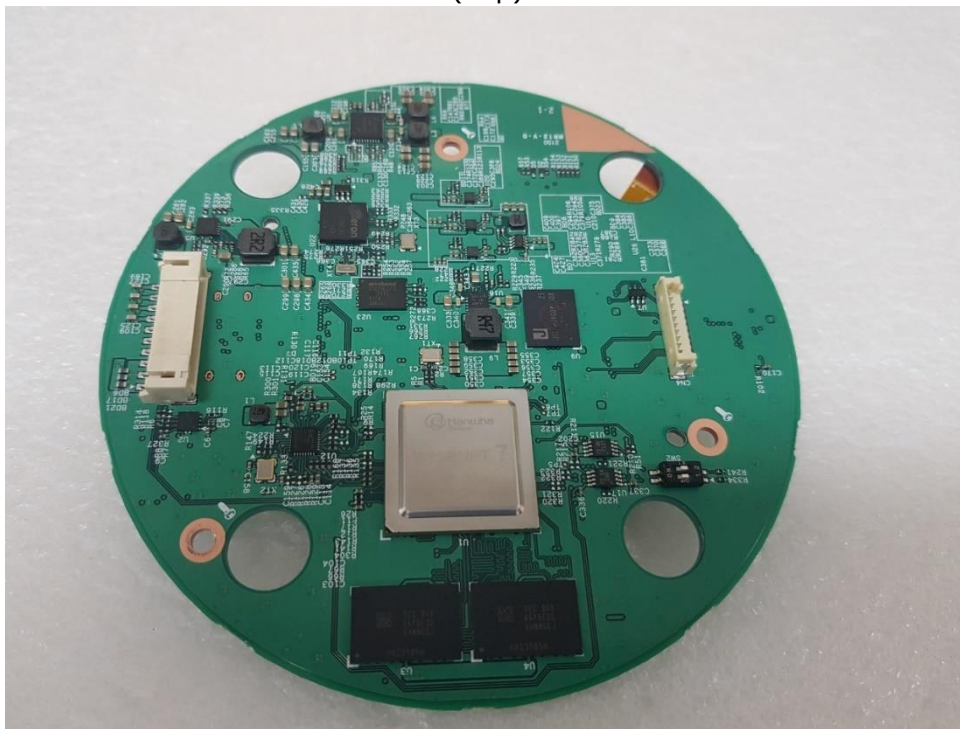
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EUT Internal View – Main Board 2

(Top)



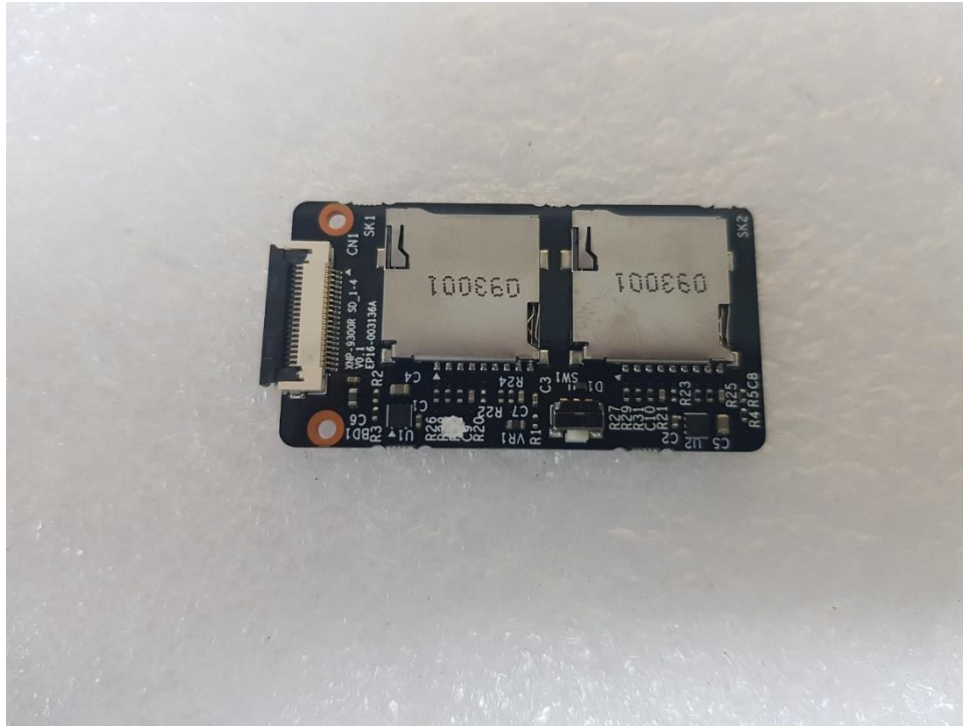
(Bottom)



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EUT Internal View – Sub Board 1

(Top)



(Bottom)



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EUT Internal View – Sub Board 2

(Top)



(Bottom)



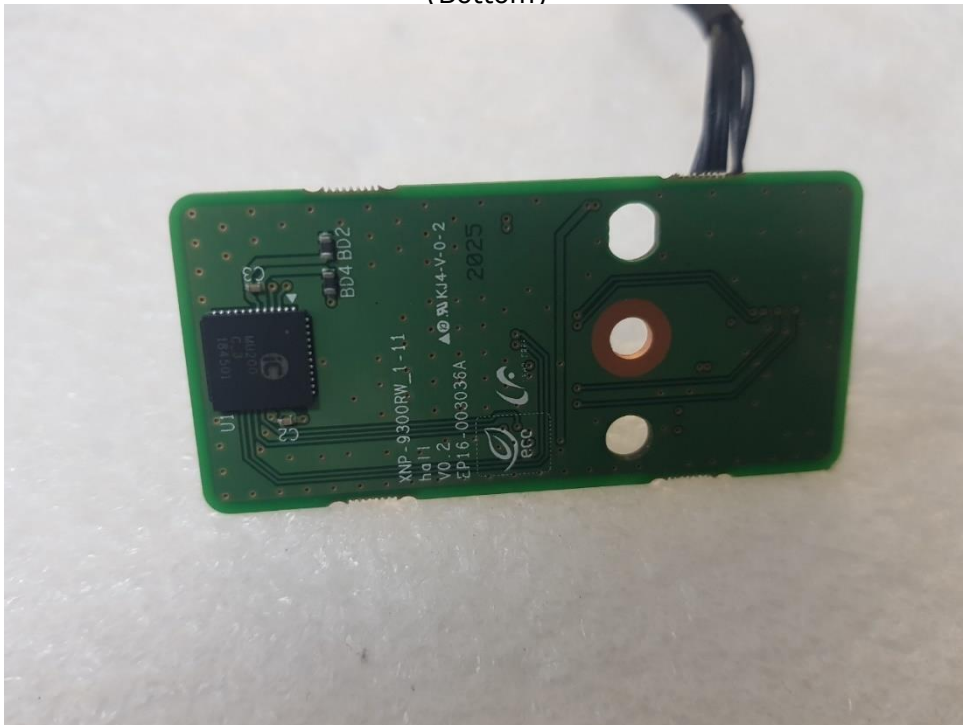
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EUT Internal View – Sub Board 3

(Top)



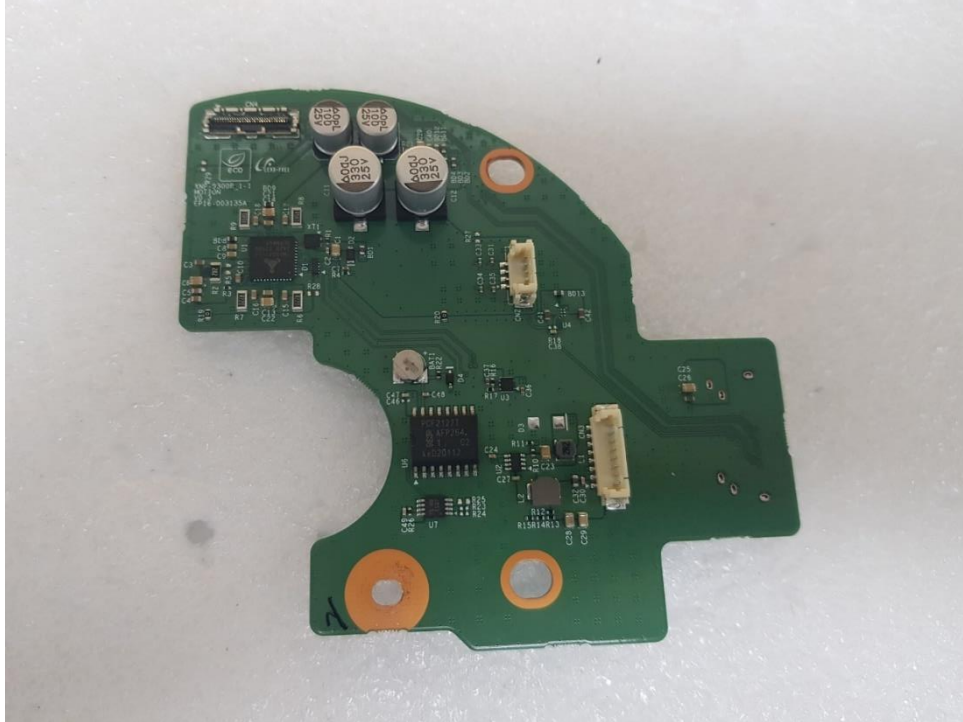
(Bottom)



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EUT Internal View – Sub Board 4

(Top)



(Bottom)



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EUT Internal View – Sub Board 5

(Top)



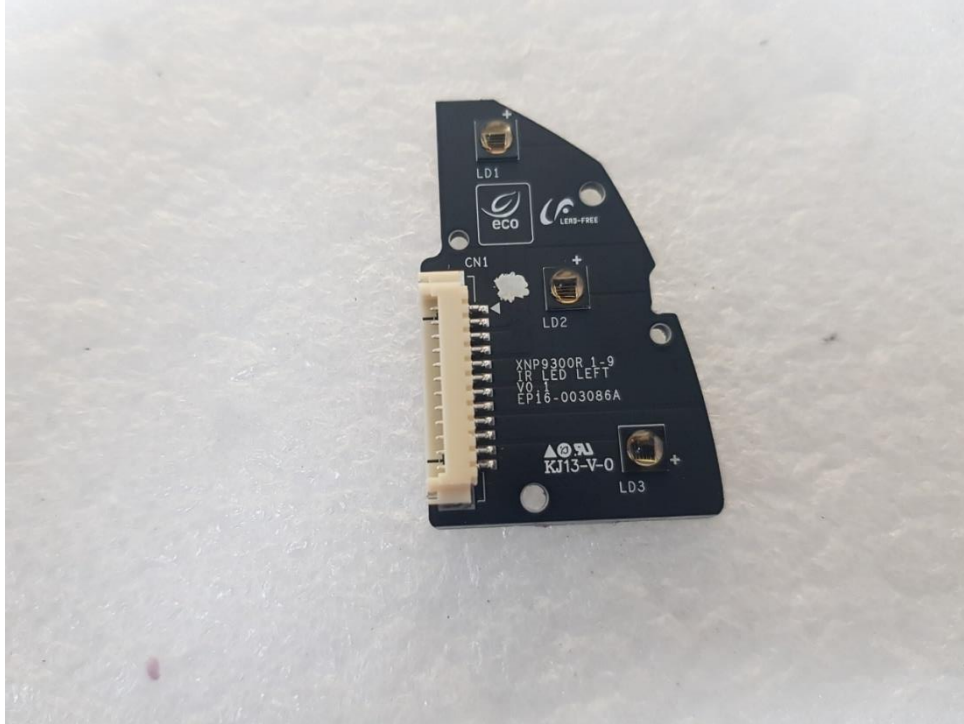
(Bottom)



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EUT Internal View – Sub Board 6

(Top)



(Bottom)



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EUT Internal View – Sub Board 7

(Top)



(Bottom)



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EUT Internal View – Camera lens Board 1

(Top)



(Bottom)



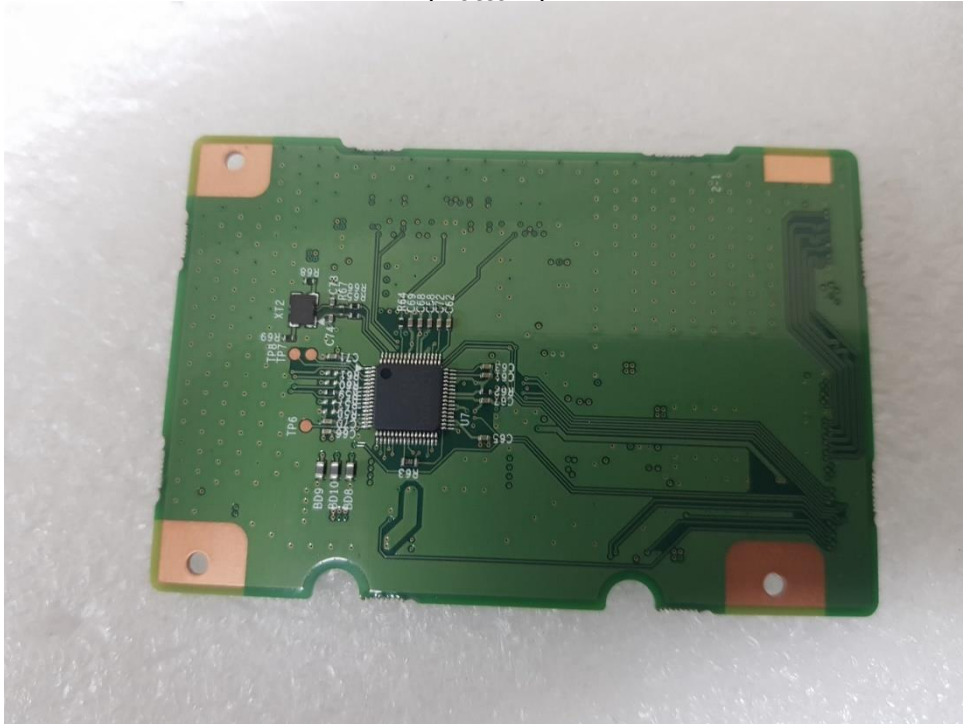
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EUT Internal View – Camera lens Board 2

(Top)



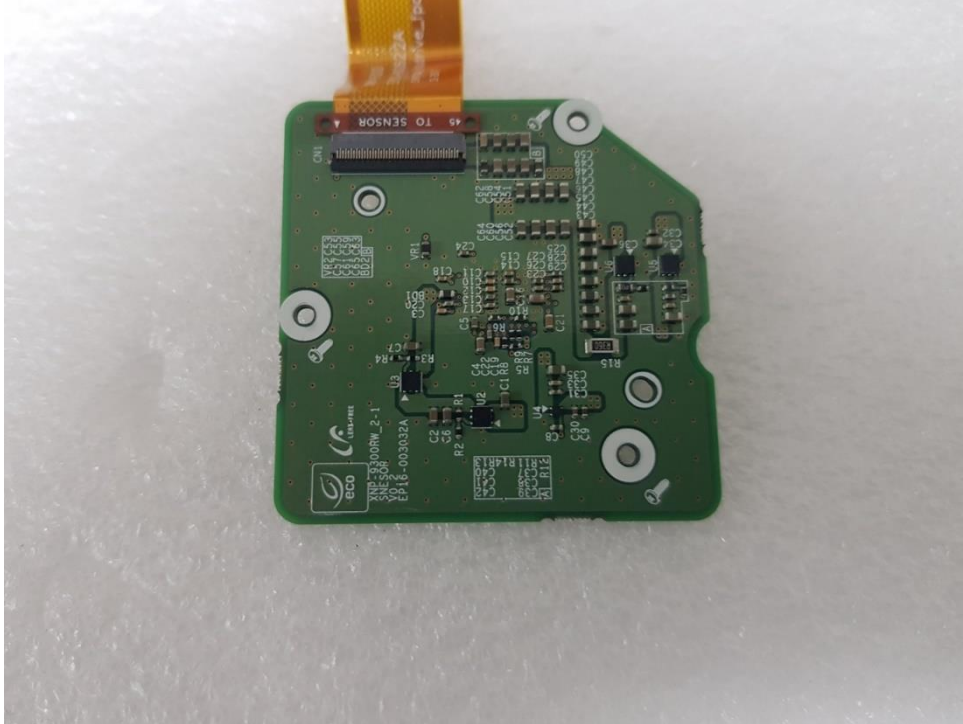
(Bottom)



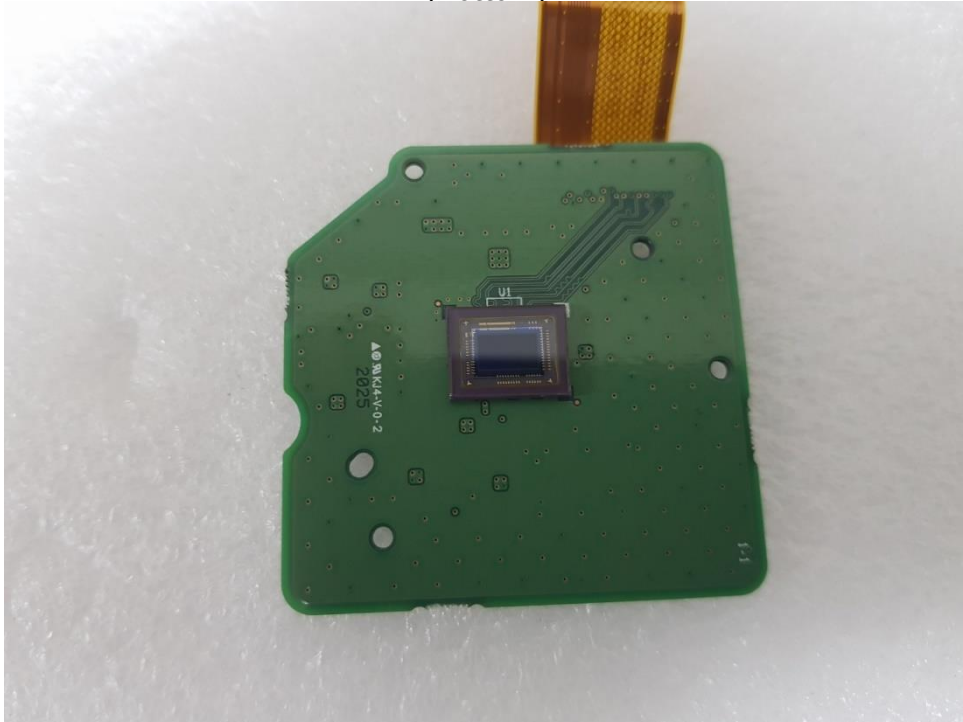
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EUT Internal View – Camera lens Board 3

(Top)



(Bottom)



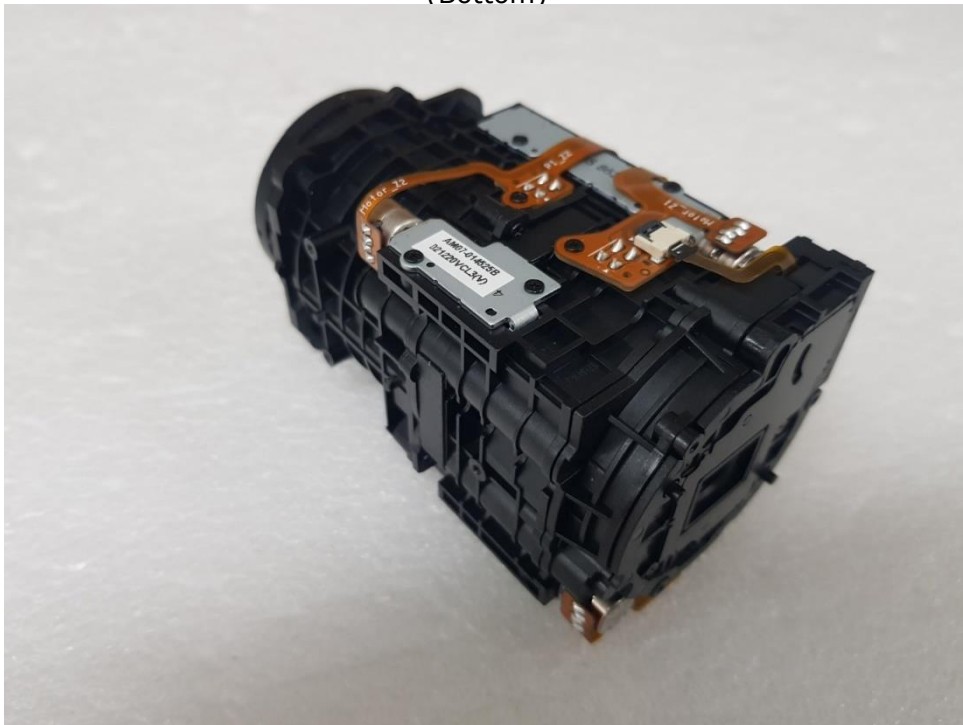
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EUT Internal View – Camera lens

(Top)



(Bottom)



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EUT Internal View – PoE Adapter

(Top)



(Bottom)



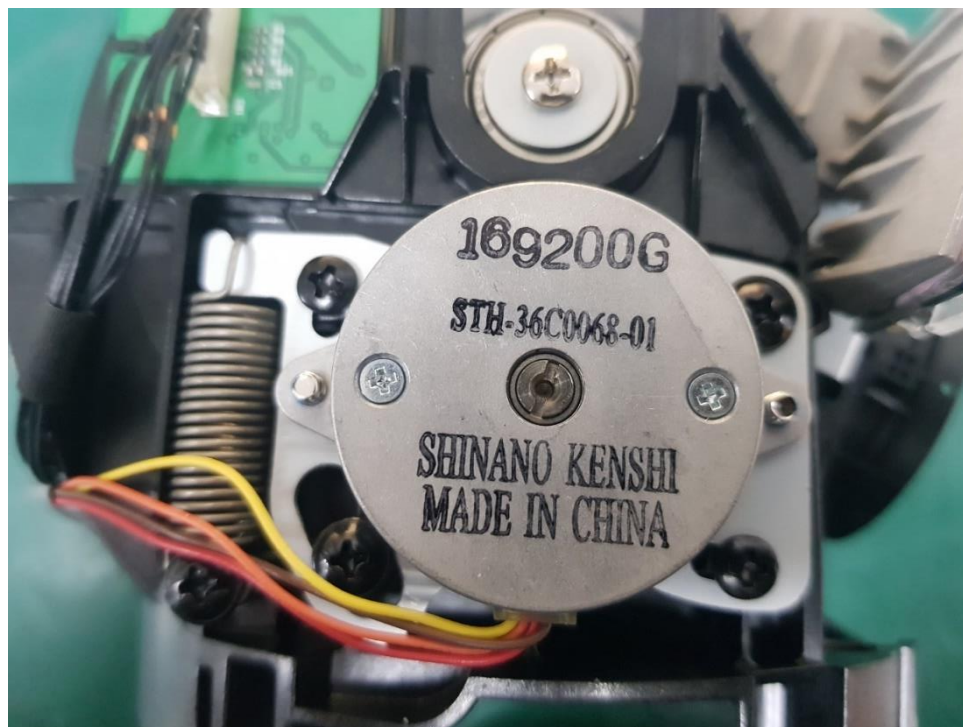
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EUT Internal View – Motor

(1)



(2)



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EUT Internal View – Cooler

