



KES Co., Ltd.

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www.kes.co.kr

Report No.:
KES-EM-20T0687
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EMC TEST REPORT

Test Report No. : KES-EM-20T0687
Date of Issue : Oct. 16, 2020
Product name : NETWORK CAMERA
Model/Type No. : PNM-9322VQP
Variant Mode : -
Applicant : Hanwha Techwin Co., Ltd.
Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
Manufacturer : 1. HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.
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 : Aug. 19, 2020
Test date : Aug. 27, 2020
Test Results : In Compliance Not in Compliance

Tested by

Dong Hyun, Won
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
Oct. 16, 2020	KES-EM-20T0687	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Video	
Imaging Device	1~4CH: Optional lens / 5CH: 1/2.8" CMOS
Resolution	[5MP] 2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 320x240 [2MP] 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: 2MP Max. 60fps/50fps(60Hz/50Hz), 5MP Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation
Lens	
Focal Length (Zoom Ratio)	1~4CH: Optional lens / 5CH: 4.44~142.6mm(32x) zoom
Optional Lens	SLA-2M2400P(2MP 2.4mm) SLA-2M2800P(2MP 2.8mm) SLA-2M3600P(2MP 3.6mm) SLA-2M6000P(2MP 6.0mm) SLA-2M1200P(2MP 12mm) SLA-5M3700P(5MP 3.7mm) SLA-5M4600P(5MP 4.6mm) SLA-5M7000P(5MP 7.0mm)
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(Electrical)
Backlight Compensation	BLC, HLC, WDR, SSSDR
Wide Dynamic Range	2MP 150dB, 5MP 120dB
Digital Noise Reduction	SSNRV
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, polygonal zones - Color: Grey/Green/Red/Blue/Black/White - Mosaic
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Analytics	Defocus detection, Directional detection, Face detection, Fog detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line
Alarm Triggers	Analytics, Network disconnect, Alarm input
Alarm I/O	Input 1ea / Output 2ea

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Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC recording at event triggers
Audio In	Selectable(mic in/line in) - PTZ(CH5) only Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
Audio Out	Line out, Max.output level: 1Vrms - PTZ(CH5) only
Network	
Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Smart Codec	Manual(Sea area), WiseStreamII
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast 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
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP)
Edge Storage	Micro SD/SDHC/SDXC 4slot 256GB(Each CH)
Application Programming Interface	ONVIF Profile S SUNAPI(HTTP API)
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
Memory	5GB RAM, 1280MB Flash
Environmental	
Operating Temperature / Humidity	-35°C ~ +55°C (-31°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH
Certification	IP66, IK10
Electrical	
Input Voltage	HPoE(IEEE802.3bt)
Power Consumption	HPoE: Max 65W
Mechanical	
Color / Material	White / Aluminum
Product dimensions / weight	Ø367.8x335.7mm (Ø14.48"x13.22"), 7.05kg (16.1 lb)

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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

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	PNM-9322VQP	-	HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.	EUT
PoE Adapter 1	PT-PSE109GBRO-AH-S	-	Dongguan PROCET Network Technology Co.,Ltd	EUT

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1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Adapter 2	GS728TPP V1H1	-	-	-
Notebook	P95G001	8KM8HT2	Wistron Infocom (Chengdu) Company Limited	-
Notebook Adapter	LA65NS2-01	-	LITE-ON TECHNOLOGY (CHANGZHOU)CO.,LTD.	-
Speaker	BR1000A Cuve Black 2	-	DONGGUAN EDIFIER TECHNOLOGY Co., Ltd	-
MIC	CMK-303	-	CAMAC	-
Controller	SPC-1010	C50E67WG10100F	SamSung Techwin Co.,Ltd.	-
Controller Adapter	RS-AB1000	-	Dongguan Jinhua sheng Power Technology Co.,Ltd.	-
Alarm	SIP-1201DD D0	-	SAMSUNG TECHWIN CO., LTD.	-
Button Alarm	SLE-0001 DO	C64167JDB601268 F	-	-
Smart Phone	SM-J500N0	-	Samsung Electronics Co.,Ltd.	-
Micro SD Card	-	-	-	16 GB

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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 Adapter 1 (EUT)	RJ-45	3.0	U
	3.5mm	Speaker	3.5mm	1.4	U
	3.5mm	MIC	3.5mm	1.7	U
	RS-485	Controller	RS-485	10.0	U
	Alarm OUT	Alarm	Alarm IN	10.0	U
	Alarm IN	Button Alarm	Alarm OUT	10.0	U
	Slot	Micro SD Card	Slot	-	-
PoE Adapter 1 (EUT)	Optical	PoE Adapter 2	Optical	1.8	U
	RJ-45	Notebook	RJ-45	4.0	U
Notebook	3.5mm	Smart Phone	3.5mm	1.2	U

* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

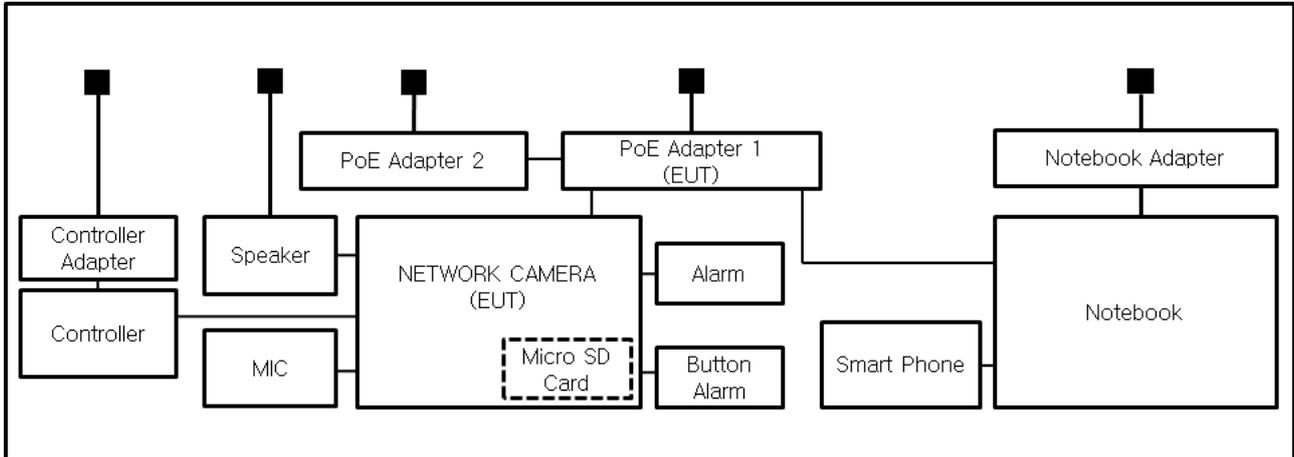
Test mode	operating
Operation mode	EUT Monitoring, Ping Test

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	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, Yeosu-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4:2014 and CISPR 16-1-4:2012

1.12 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Anechoic Chamber , 10 m Open Area 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, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	 23298-1
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-20056, C-20036, T-20040, G-20057
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Anechoic Chamber , 10 m Open Area 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:

- 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 Group 2
 Class A 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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-
- | | | |
|---|---|----------------------------------|
| <input type="checkbox"/> VCCI -CISPR 32:2016 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input type="checkbox"/> AS/NZS CISPR32:2015 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> 47 CFR Part 15, Subpart B | | |
| <input type="checkbox"/> CISPR 22:2009 +A1:2010 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> ANSI C63.4-2014 | <input checked="" type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> IC Regulation ICES-003 : 2016 | | |
| <input type="checkbox"/> CAN/CSA CISPR 22-10 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> ANSI C63.4-2014 | <input checked="" type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input type="checkbox"/> RE- Directive 2014/53/EU | | |
| <input type="checkbox"/> EN 301 489-1 V1.9.2 | | |
| <input type="checkbox"/> Equipment for fixed use | | |
| <input type="checkbox"/> Equipment for vehicular use | | |
| <input type="checkbox"/> Equipment for portable use | | |
| <input type="checkbox"/> EN 301 489-3 V1.6.1 | | |
| <input type="checkbox"/> EN 301 489-17 V2.2.1 | | |
| <input type="checkbox"/> EN 60945:2002 | | |

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2.1 Conducted Emissions at Mains Power Ports

Test Date
Aug. 27, 2020

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	01, 20, 2021
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	01, 02, 2021
<input checked="" type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	01, 02, 2021
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	01, 02, 2021

Test Conditions

Temperature: 23,8 °C
Relative Humidity: 51,7 % 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
Aug. 27, 2020

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

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, 2021
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 25, 2020
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 29, 2020
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 10, 2021

Test Conditions
Temperature: 23,5 °C
Relative Humidity: 51,9 % 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
Aug. 27, 2020

Test Location
SEMI ANECHOIC CHAMBER #4(10 m)

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, 2021
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	3008A01742	01, 02, 2021
<input type="checkbox"/>	ATTENUATOR	8491A	HP	35496	03, 10, 2021
<input checked="" type="checkbox"/>	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 13, 2020

Test Conditions
Temperature: 23,5 °C
Relative Humidity: 51,9 % 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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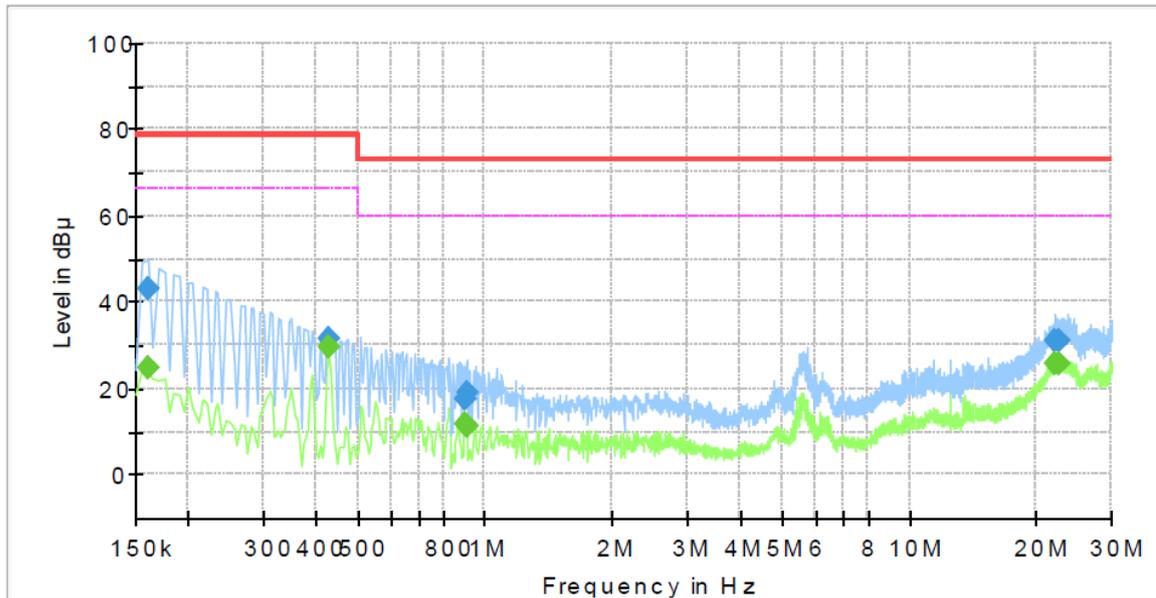
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	PNM-9322VQP
Phase:	
Mode:	H
Operator Name:	KES



Final Result

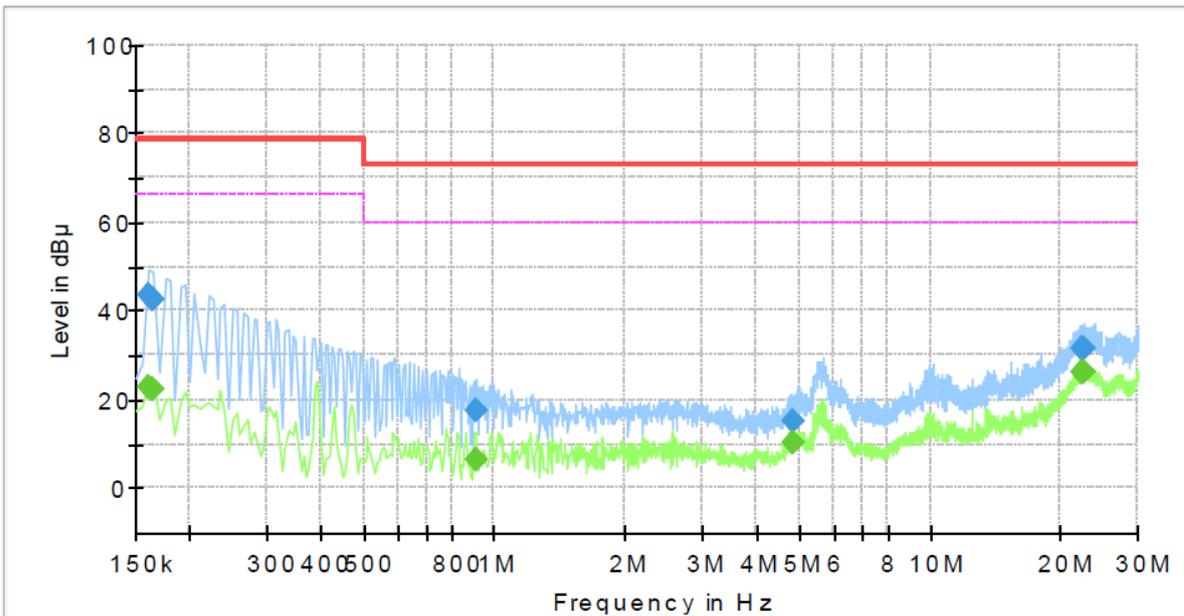
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	24.68	66.00	41.32	1000.0	9.000	L1	19.5
0.160000	43.21	---	79.00	35.79	1000.0	9.000	L1	19.5
0.430000	---	29.54	66.00	36.46	1000.0	9.000	L1	19.7
0.430000	31.52	---	79.00	47.48	1000.0	9.000	L1	19.7
0.900000	---	11.71	60.00	48.29	1000.0	9.000	L1	20.1
0.900000	17.57	---	73.00	55.43	1000.0	9.000	L1	20.1
0.905000	---	11.07	60.00	48.93	1000.0	9.000	L1	20.1
0.905000	18.82	---	73.00	54.18	1000.0	9.000	L1	20.1
22.130000	---	25.63	60.00	34.37	1000.0	9.000	L1	20.2
22.130000	31.07	---	73.00	41.93	1000.0	9.000	L1	20.2
22.485000	---	25.74	60.00	34.26	1000.0	9.000	L1	20.2
22.485000	31.22	---	73.00	41.78	1000.0	9.000	L1	20.2

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NEUTRAL LINE

Common Information

Test Description: Conducted Emission
 Model No.: PNM-9322VQP
 Phase:
 Mode: N
 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	---	22.98	66.00	43.02	1000.0	9.000	N	19.4
0.160000	43.37	---	79.00	35.63	1000.0	9.000	N	19.4
0.165000	---	22.20	66.00	43.80	1000.0	9.000	N	19.4
0.165000	42.71	---	79.00	36.29	1000.0	9.000	N	19.4
0.910000	---	6.43	60.00	53.57	1000.0	9.000	N	20.1
0.910000	17.38	---	73.00	55.62	1000.0	9.000	N	20.1
4.850000	---	10.35	60.00	49.65	1000.0	9.000	N	19.6
4.850000	15.09	---	73.00	57.91	1000.0	9.000	N	19.6
22.340000	---	25.95	60.00	34.05	1000.0	9.000	N	20.3
22.340000	31.42	---	73.00	41.58	1000.0	9.000	N	20.3
22.610000	---	26.04	60.00	33.96	1000.0	9.000	N	20.3
22.610000	31.49	---	73.00	41.51	1000.0	9.000	N	20.3

◆ 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))

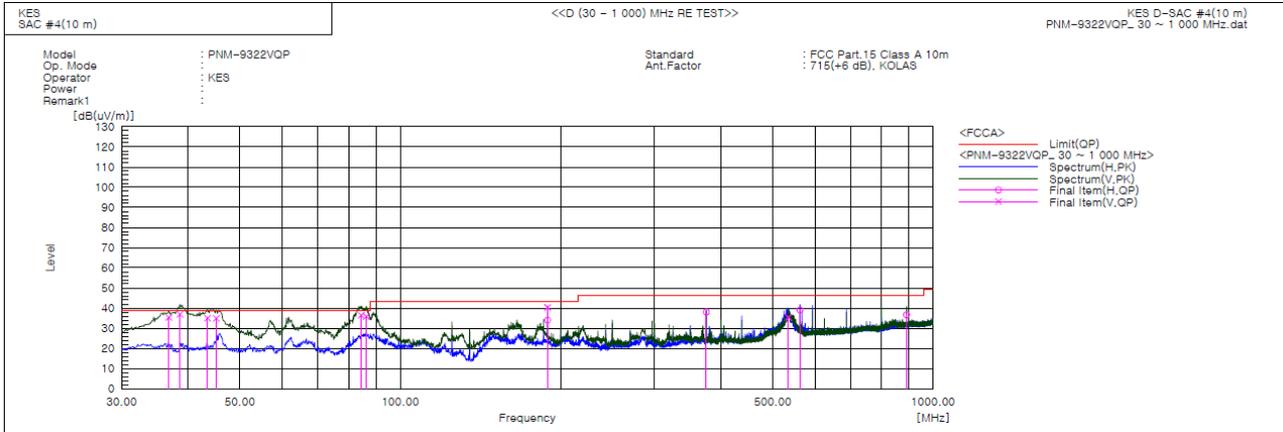
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Radiated Electric Field Emissions(Below 1 GHz)



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	36.790	V	59.8	-24.4	35.4	39.0	3.6	150.0	260.0	
2	38.609	V	60.5	-23.5	37.0	39.0	2.0	148.0	267.0	
3	43.459	V	57.1	-22.1	35.0	39.0	4.0	139.0	188.0	
4	45.156	V	56.8	-21.9	34.9	39.0	4.1	110.0	134.0	
5	84.441	V	63.0	-26.5	36.5	39.0	2.5	146.0	110.0	
6	86.381	V	61.8	-25.9	35.9	39.0	3.1	152.0	110.0	
7	189.000	H	56.9	-22.9	34.0	43.5	9.5	341.0	172.0	
8	189.002	V	63.3	-22.9	40.4	43.5	3.1	105.0	212.0	
9	375.078	H	53.9	-15.8	38.1	46.5	8.4	376.0	68.0	
10	534.764	V	47.6	-12.2	35.4	46.5	11.1	121.0	196.0	
11	562.530	H	50.4	-11.3	39.1	46.5	7.4	220.0	322.0	
12	891.118	H	42.4	-5.7	36.7	46.5	9.8	389.0	107.0	

◆ Calculation – SAC #4(10 m)

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

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

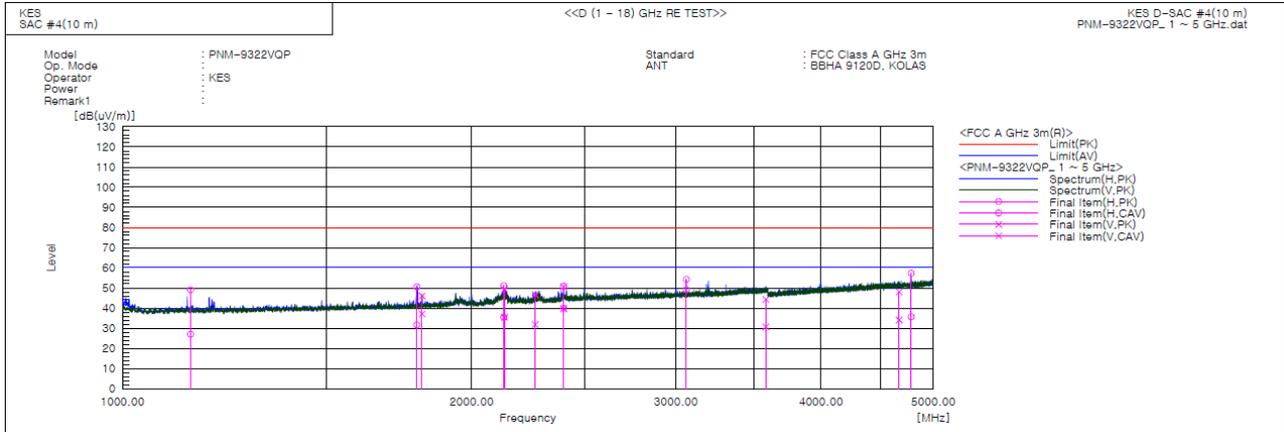
Reading(OP) : Reading value, Result(OP) : Reading value + Factor value

Limit(OP) : 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(μV)]	Reading CAV [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Result CAV [dB(μV/m)]	Limit PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1144.430	H	53.6	31.6	-4.5	49.1	27.1	80.0	60.0	30.9	32.9	394.0	358.0	
2	1793.800	H	51.8	33.0	-1.3	50.5	31.7	80.0	60.0	29.5	28.3	190.0	285.0	
3	1812.500	V	47.3	38.3	-1.2	46.1	37.1	80.0	60.0	33.9	22.9	125.0	206.0	
4	2131.000	H	50.9	35.3	0.2	51.1	35.5	80.0	60.0	28.9	24.5	110.0	355.0	
5	2134.500	V	49.2	35.2	0.2	49.4	35.4	80.0	60.0	30.6	24.6	124.0	271.0	
6	2268.500	V	45.9	31.1	0.8	46.7	31.9	80.0	60.0	33.3	28.1	152.0	275.0	
7	2399.500	H	49.3	38.4	1.5	50.8	39.9	80.0	60.0	29.2	20.1	365.0	212.0	
8	2400.000	V	49.0	38.2	1.5	50.5	39.7	80.0	60.0	29.5	20.3	149.0	310.0	
9	3062.500	H	49.6	44.6	4.6	54.2	49.2	80.0	60.0	25.8	10.8	298.0	301.0	
10	3585.000	V	38.4	24.8	5.9	44.3	30.7	80.0	60.0	35.7	29.3	210.0	64.0	
11	4670.500	V	36.9	23.0	11.1	48.0	34.1	80.0	60.0	32.0	25.9	164.0	242.0	
12	4784.500	H	46.0	24.4	11.3	57.3	35.7	80.0	60.0	22.7	24.3	252.0	270.0	

◆ Calculation

$$\text{Result(PK/CAV)} \text{ [dB(}\mu\text{V/m)}] = (\text{Reading(PK/CAV)} \text{ [dB(}\mu\text{V)}] + \text{c.f [dB(1/m)}])$$

$$\text{Margin(PK/CAV)} \text{ [dB]} = \text{Limit [dB(}\mu\text{V/m)}] - \text{Result(PK/CAV) [dB(}\mu\text{V/m)}]$$

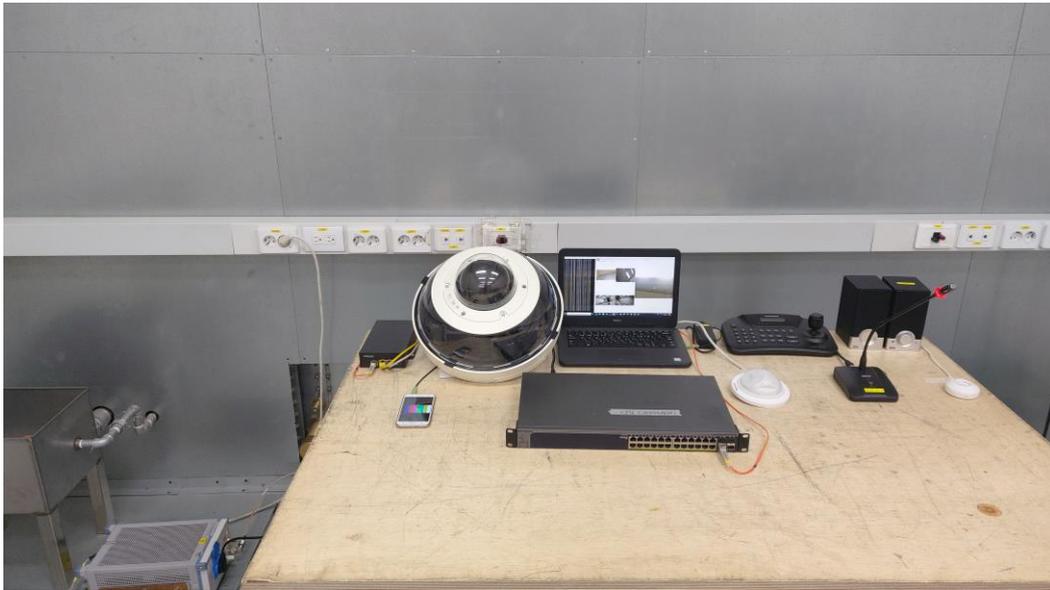
Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

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

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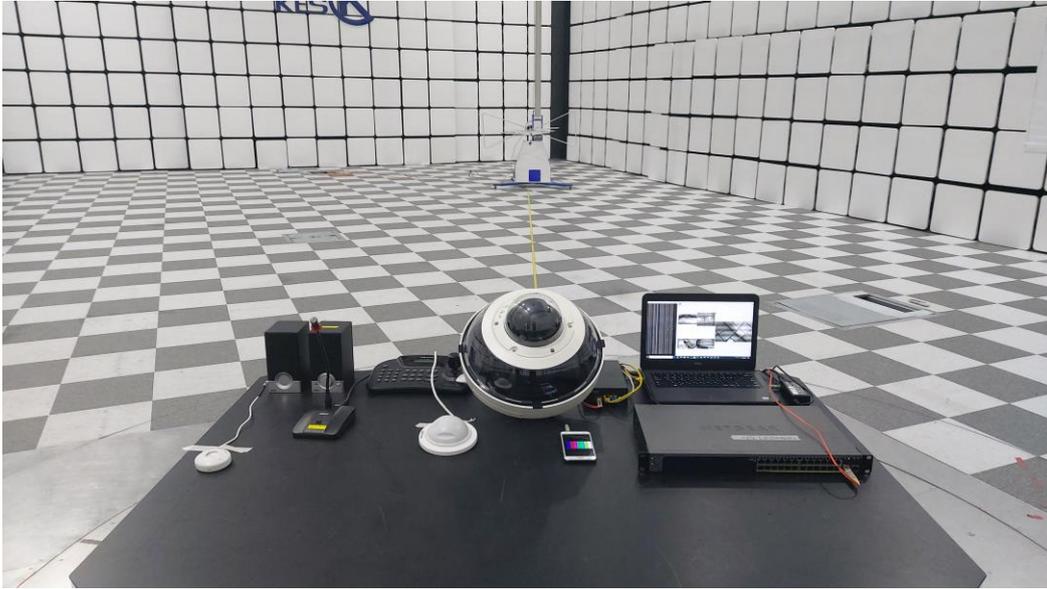
Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



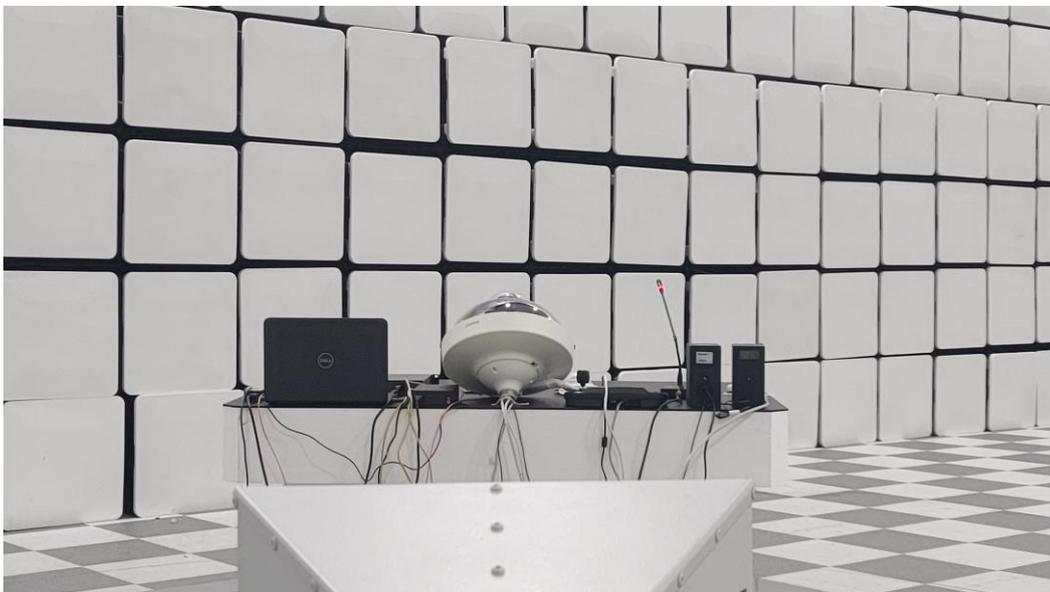
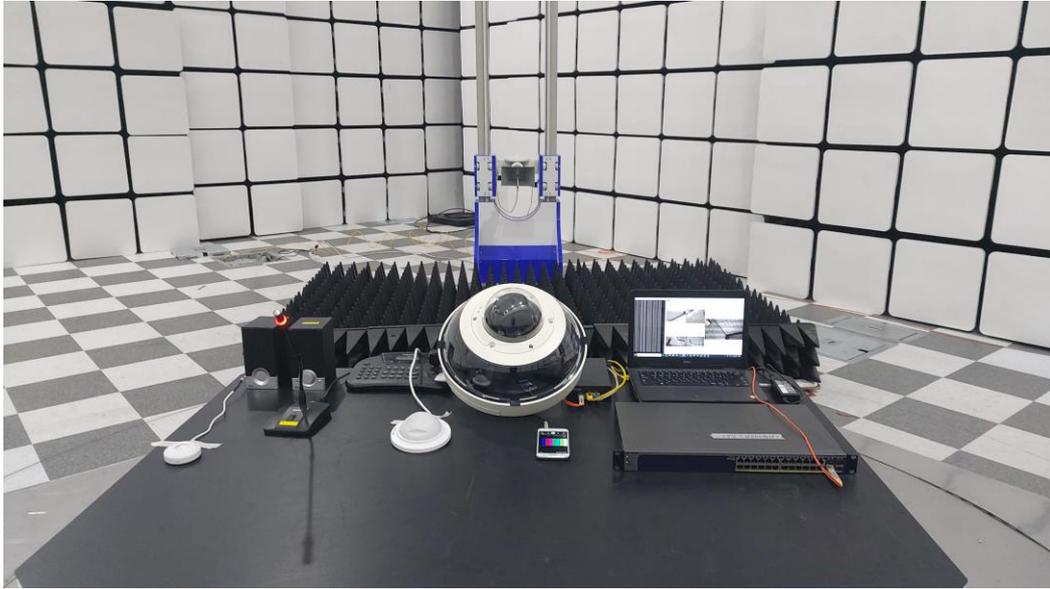
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Radiated Electric Field Emissions(Below 1 GHz)



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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

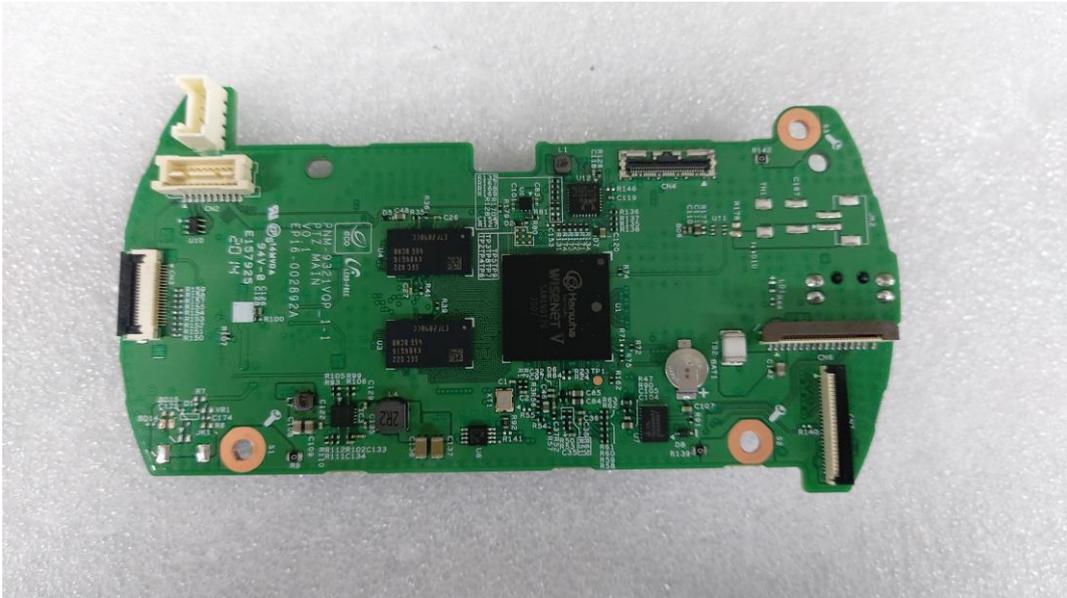
(Internal View)



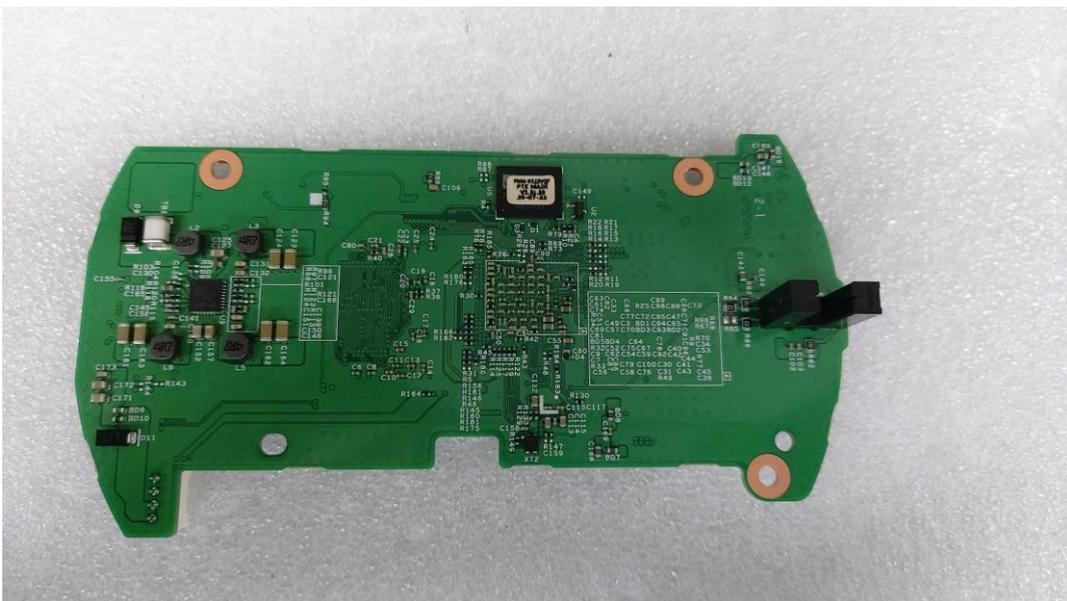
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EUT Internal View – Main Board

(Top)



(Bottom)



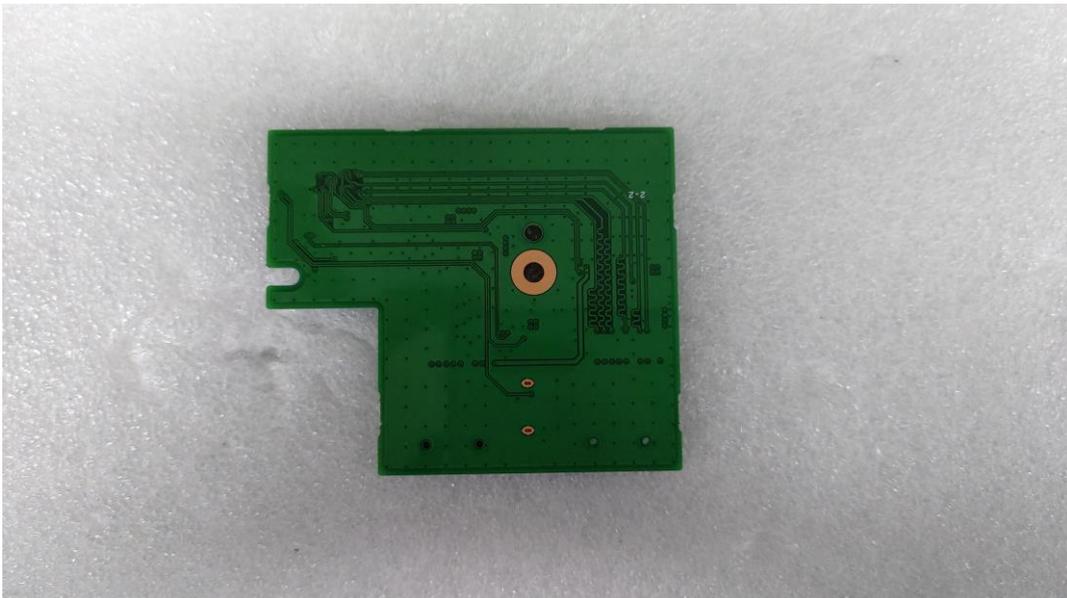
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EUT Internal View – SD Card Board

(Top)



(Bottom)



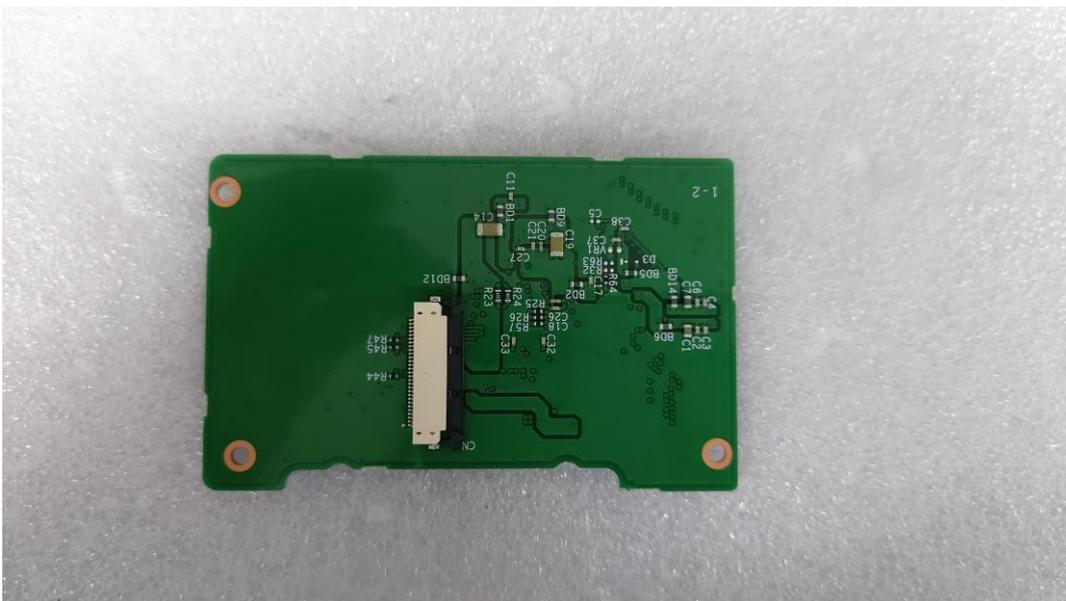
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EUT Internal View – Drive Board

(Top)



(Bottom)



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EUT Internal View – Lens

(Top)



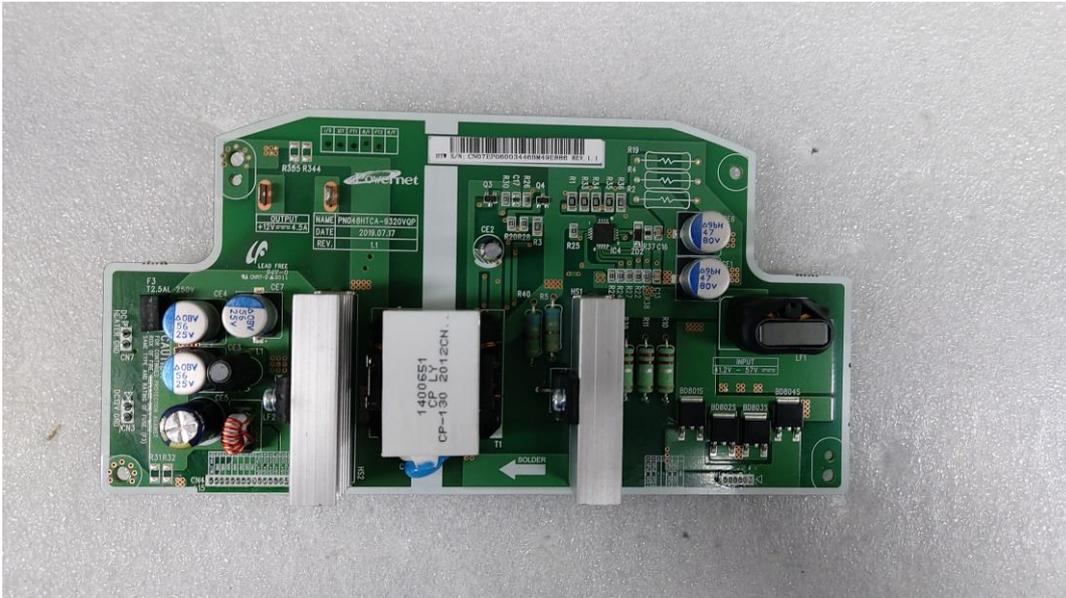
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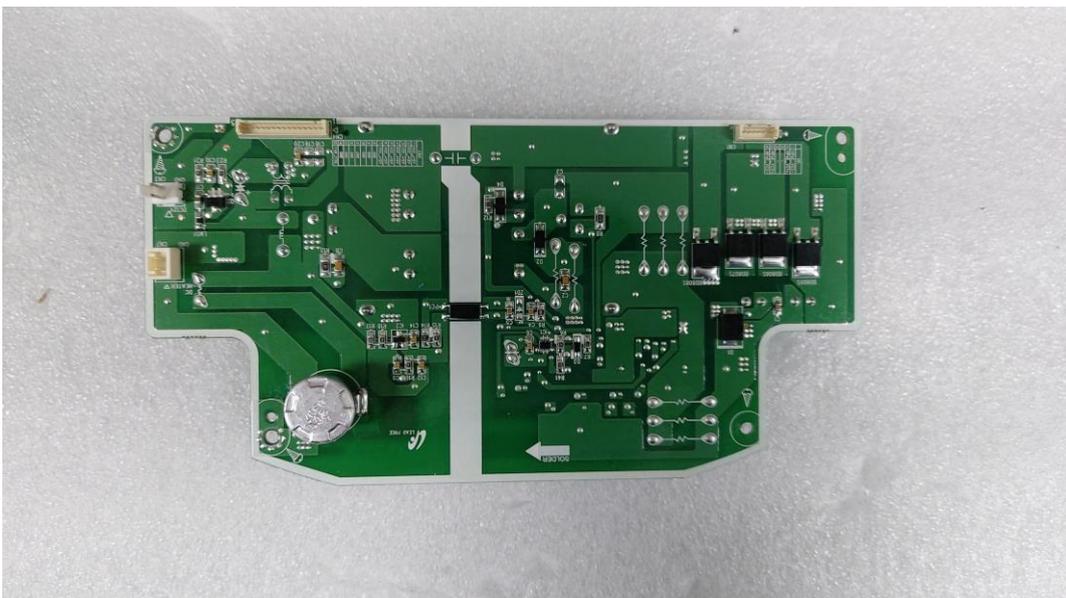
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EUT Internal View – Board 1

(Top)



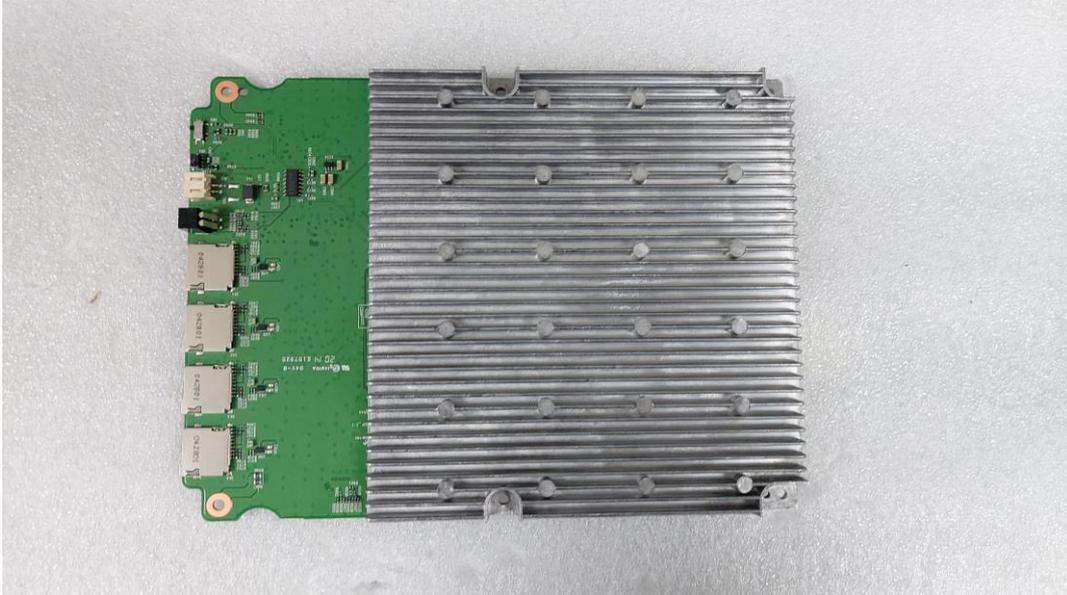
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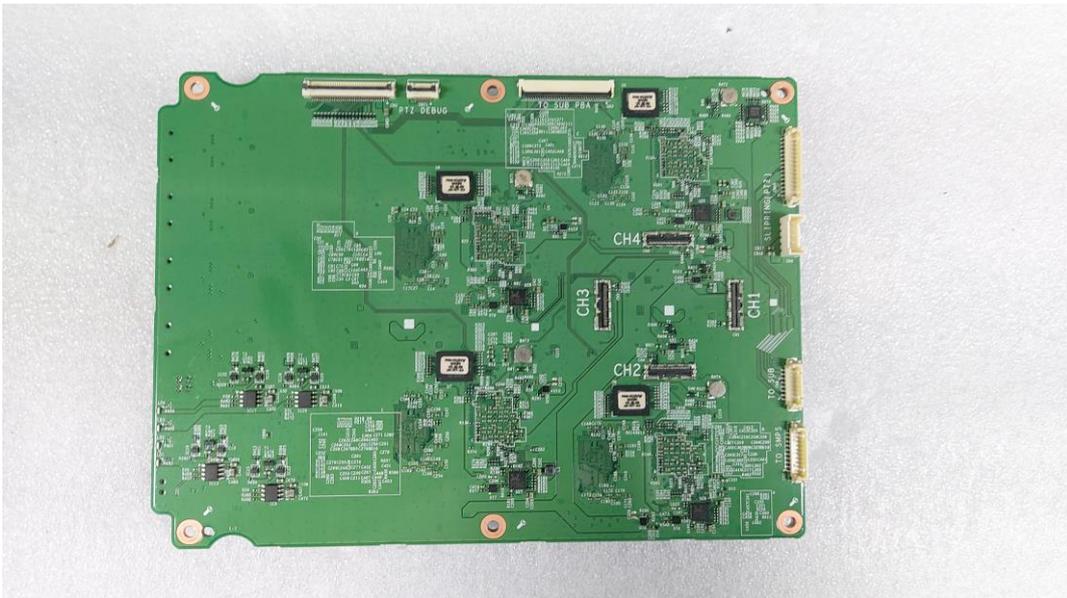
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EUT Internal View – Board 2

(Top)



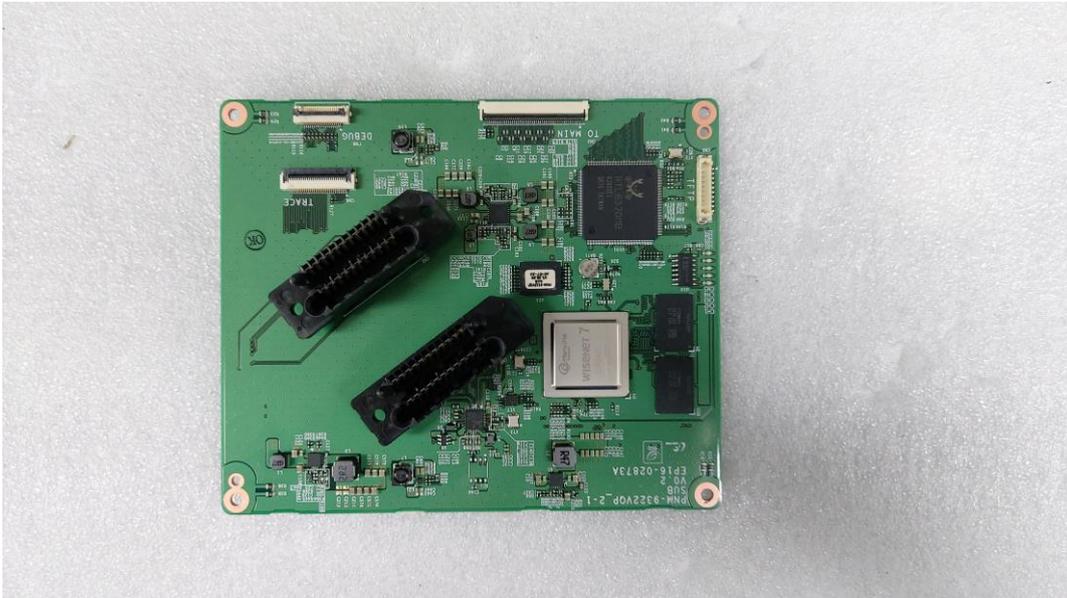
(Bottom)



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EUT Internal View – Board 3

(Top)



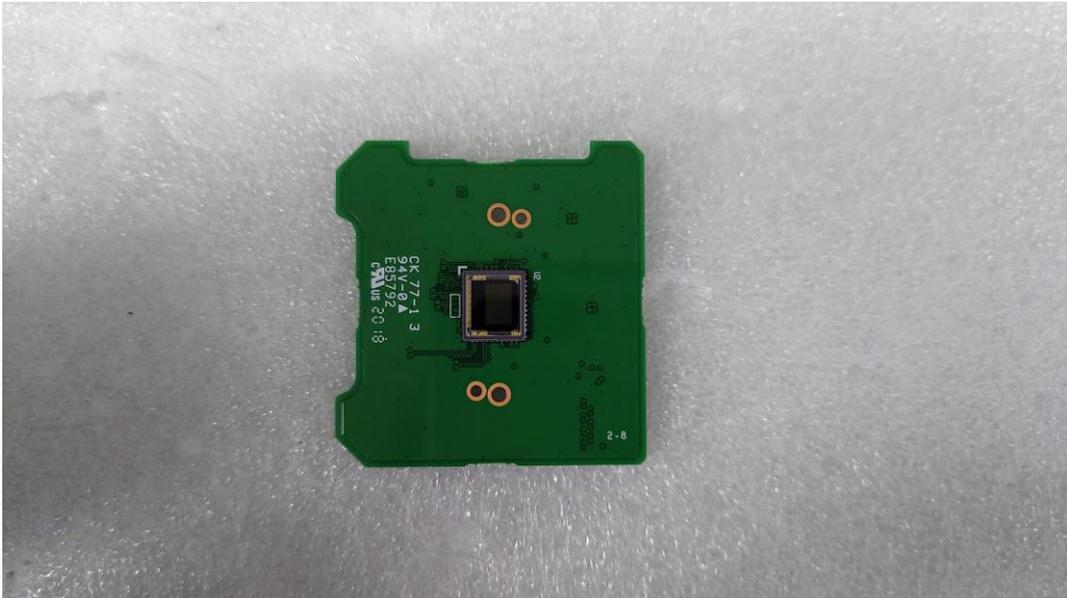
(Bottom)



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EUT Internal View – Camera Board

(Top)



(Bottom)



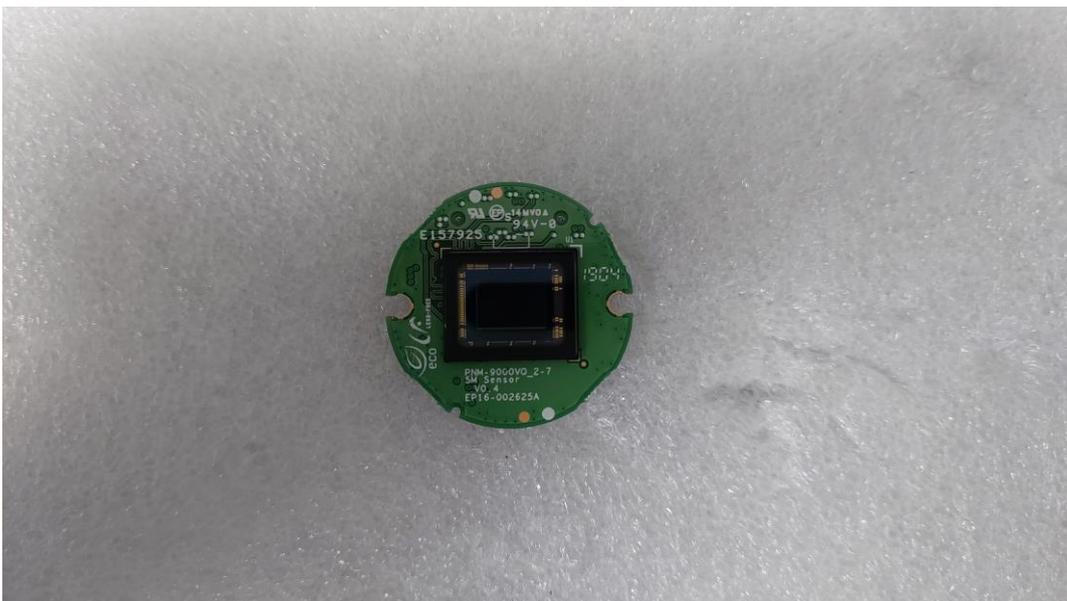
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EUT Internal View – Camera 1 ~ 4

(Top)



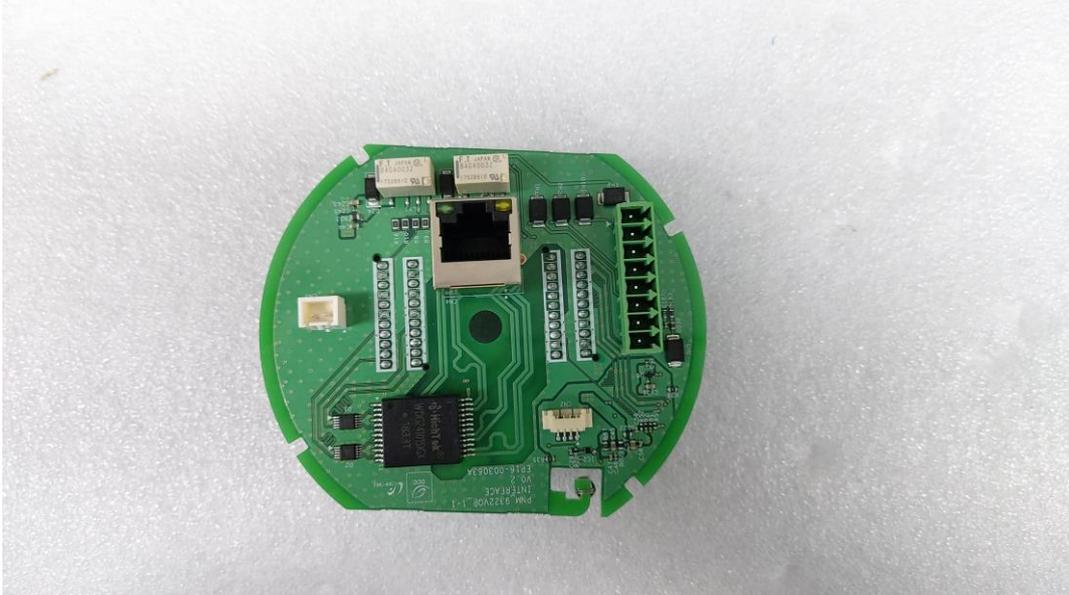
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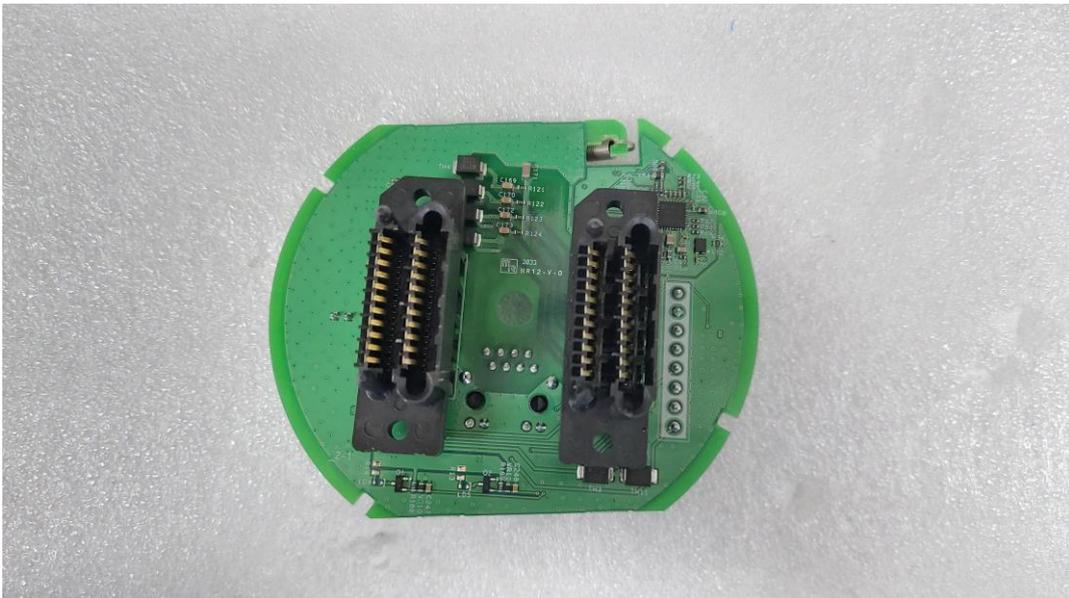
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EUT Internal View – Power Board

(Top)



(Bottom)



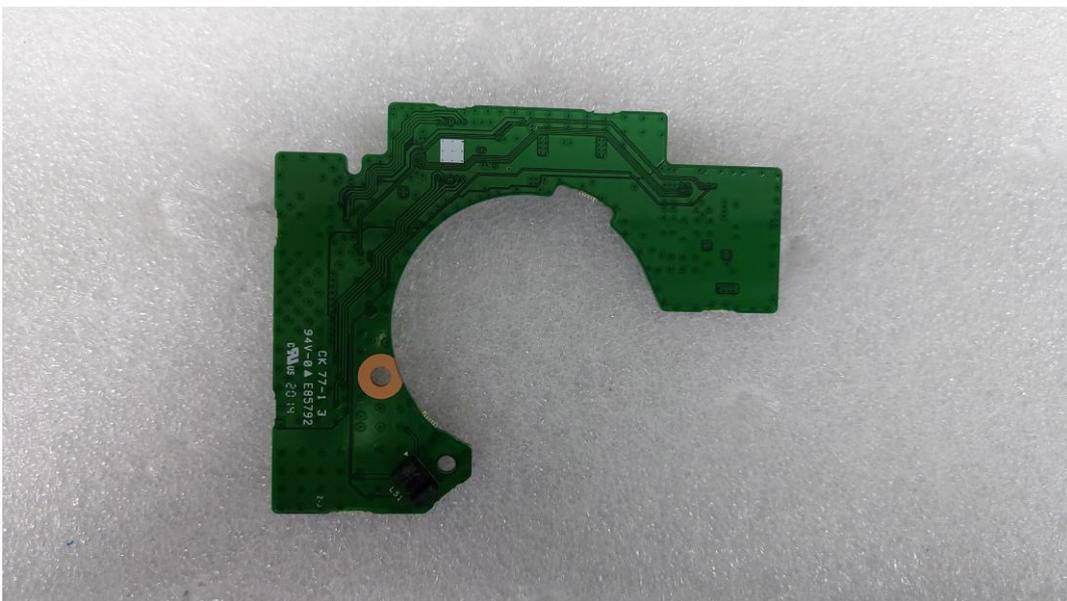
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EUT Internal View – Fan Board

(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.