



EMC TEST REPORT

Test Report No. : KES-E1-18T0419

Date of Issue : Jul. 30, 2018

Product name : NETWORK CAMERA

Model/Type No. : PNM-9320VQP

Variant Mode : -

Applicant : Hanwha Techwin Co., Ltd.

Applicant Address : 6, Pangyo-ro 319 Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13488, KOREA

Manufacturer : 1. Hanwha Techwin (Tianjin) Co.,Ltd.
2. HANWHA TECHWIN SECURITY VIETNAM CO.,LTD.
3. D-TECH CO.,LTD.

Manufacturer Address : 1. No.11 Weiliu Rd, Micro-Electronic Industrial Park, TEDA, Tianjin,
300385, People's Republic of China
2. Lot O-2, Que Vo Industrial Zone extended area,
Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam
3. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do,
Korea (Suwon Industrial Complex)

Equipment authorization : ☐ Declaration of Conformity
☒ Verification
☐ Certification

Date of Receipt : Jul. 04, 2018

Test date : Jul. 05, 2018 ~ Jul. 07, 2018

Test Results : ☒ In Compliance ☐ Not in Compliance

Tested by

Dae Jung, Choi
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
Jul. 30, 2018	KES-E1-18T0419	Issued

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1.0 General Product Description

Main Specifications of EUT are:

	Multi-directional (CH 1 ~ 4)	PTZ (CH 5)
Video		
Imaging Device	(See the optional lens)	1/2.8" 2.4M CMOS
Total/Effective Pixels	(See the optional lens)	1,981(H)x1,288(V), 2.55M / 1,944(H)x1,212(V), 2.35M
Scanning System	(See the optional lens)	Progressive scan
Min. Illumination	(See the optional lens)	Color : 0.05Lux(1/30sec, F1.6, 30IRE), BW : 0.005Lux(1/30sec, F1.6, 30IRE)
S / N Ratio	(See the optional lens)	50dB
Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation	-
LENS		
Focal length(Zoom ratio)	(See the optional lens)	4.44~142.6mm(Optical 32x)
Max. Aperture Ratio	(See the optional lens)	F1.6(Wide)~F4.4(Tele)
Angular Field of View	(See the optional lens)	H:61.8°(Wide)~2.19°(Tele) / V:36.2°(Wide)~1.24°(Tele)
Min. Object Distance	(See the optional lens)	Wide:1.5m, Tele:2m
Focus Control	(See the optional lens)	Auto / Manual / One shot AF
Lens/Mount type	(See the optional lens)	DC Auto Iris/Board-in type
Pan/Tilt/Rotate		
Pan / Tilt / Rotate Range	(See the optional lens)	360° Endless / 210°(-15°~195°)
Pan / Tilt Speed	-	Preset:700°/sec, Manual:0.024°/sec~200°/sec
Sequence	-	Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto run, Schedule
Preset Accuracy	-	±2°
Auto tracking	-	Off/On
Operational		
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	Electrical	Auto(ICR) / Color / B/W / Schedule
Backlight Compensation	Off / BLC / HLC(Masking/Dimming) / WDR	
WDR	150dB (SLA-2M), 120dB (SLA-5M)	150dB
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNR5 (2D+3D noise filter) (Off / On)	
Digital Image Stabilization	Off / On	Off / On (Built-in gyro sensor)
Defog	Off / Auto / Manual	
Motion Detection	Off/ On(8ea, 8point Polygonal zones), Hand over	
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 Zoom	24x	32x
Flip / Mirror	On/Off, Hallway view : 90°/270°	On/Off
Video Analytics	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, Appear/Disappear, Face detection, Motion detection, Defocus detection	Tampering, Loitering, Directional detection, Fog detection, Virtual line, Enter/Exit, Appear/Disappear, Face detection, Motion detection
Alarm I/O	Input 1ea / Output 2ea(Relay type)	
Alarm Triggers	Motion detection, Video analytics, Network disconnect	
Alarm events	File upload via FTP, E-Mail, Notification via E-Mail, Local storage(SD/SDHC/SDXC) recording at event triggers, External output	
Pixel Counter	Support	

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Network	
Ethernet	RJ-45 (10/100/1000 BASE-T)
SFP	SFP slot(100/1000Mbps)
Video Compression Format	H.265/H.264 (MPEG-4 Part 10/AVC) : Main/Baseline/High, Motion JPEG
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 : 2M Max. 60fps, 5M 30fps at all resolutions Motion JPEG : Max. 30fps
Smart Codec	Manual Mode (area-based : 5EA)
WiseStreamII	Support
Video Quality Adjustment	H.264 /H.265 / 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)
IP	IPv4, IPv6
Protocol	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)
Streaming Method	Unicast / Multicast
Max. User Access	20 users at Unicast mode
Edge Storage	SD/SDHC/SDXC 5slot (Each CH) - Motion Images recorded in the SD/SDHC/SDXC memory card can be downloaded. - Local PC for Instant Recording
Application Programming Interface	ONVIF Profile S, SUNAPI(HTTP API)
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 Supported Browser : Google Chrome 67, MS Edge 41, Mozilla Firefox 61 (Windows 64bit only), Apple Safari 11 (Mac OS X only), MS Explorer 11
Central Management Software	Smartviewer, SSM
Environmental	
Operating Temperature / Humidity	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10
Electrical	
Input Voltage / Current	HPoE
Power Consumption	Max. 65W
Mechanical	
Optional Lens	SLA-2M2400P / SLA-2M2800P / SLA-2M3600P / SLA-2M6000P SLA-5M3700P / 5M4600P / 5M7000P
Color / Material	Ivory / Metal
Dimension (WxHxD)	Ø 367.8 x 381.5mm (Ø 14.49" x 15.02")
Weight	7.05 kg (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-9320VQP	-	Hanwha Techwin (Tianjin) Co., Ltd.	EUT
PoE Injector	PT-PSE109GBRO-AH	PT1824010157	Dongguan PROCET Network Technology Co.,Ltd	



1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Notebook	NT730U3E	JJRE91CF200065A	Samsung Electronics Co., Ltd.	-
AC/DC Adaptor	PA-1600-66	AD-6019P	LITEON	-
2M LENS Module	SLA-2M6000P	-	Hanwha Techwin (Tianjin) Co., Ltd.	1 EA
5M LENS Module	SLA-5M3700P	-	Hanwha Techwin (Tianjin) Co., Ltd.	1EA
5M LENS Module	SLA-5M3700P	-	Hanwha Techwin (Tianjin) Co., Ltd.	1EA
5M LENS Module	SLA-5M3700P	-	Hanwha Techwin (Tianjin) Co., Ltd.	1EA

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 Injector	RJ-45 (PoE)	3.0	U
	40 PIN	2M LENS Module	40 PIN	-	-
	40 PIN	5M LENS Module	40 PIN	-	-
	40 PIN	5M LENS Module	40 PIN	-	-
	40 PIN	5M LENS Module	40 PIN	-	-
PoE Injector	RJ-45 (LAN)	Notebook	RJ-45 (LAN)	3.0	U

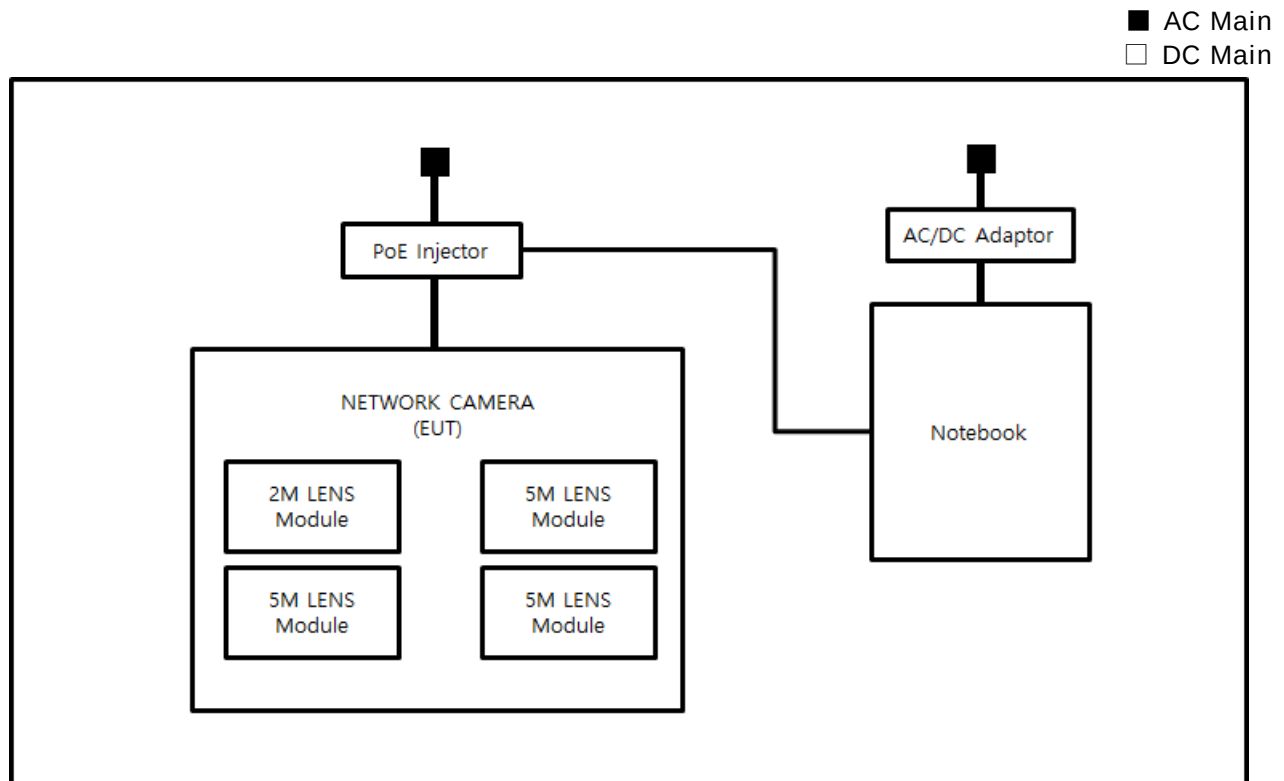
* Unshielded=U, Shielded=S

1.7 EUT Operating Mode(s)

Test mode	operating
PoE	EUT Monitoring, Ping Test

EUT Test operating S/W		
Name	Version	Manufacture Company
Webviewer	-	Hanwha Techwin 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. 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-Aechoic 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-Aechoic Chamber , and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Aechoic Chamber, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Aechoic 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-4308, C-4798, T-2311, G-914
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Aechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 17 07 01633 001

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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



☐ **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

☒ Class A

☐ Class B

☐ **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



2.1 Conducted Emissions at Mains Power Ports

Test Date

Jul. 05, 2018

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	101781	04, 25, 2019
☒	LISN	ENV216	R & S	101787	01, 05, 2019
☒	LISN	ESH2-Z5	R & S	100450	04, 25, 2019
☐	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: 23,1 °C
Relative Humidity: 53,7 % 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.

2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jul. 07, 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, 11, 2019
☒	AMPLIFIER	SCU 01	R & S	100603	11, 27, 2018
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	714	11, 28, 2018

Test ConditionsTemperature: 24,3 °C
Relative Humidity: 52,7 % 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

RemarksSee Appendix A for test data.

2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jul. 07, 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, 11, 2019
☒	PREAMPLIFIER	8449B	AGILENT	3008A01742	01, 11, 2019
☐	ATTENUATOR	8491A	HP	35496	03, 21, 2019
☒	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	09, 04, 2019

Test ConditionsTemperature: 24,3 °C
Relative Humidity: 52,7 % 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.



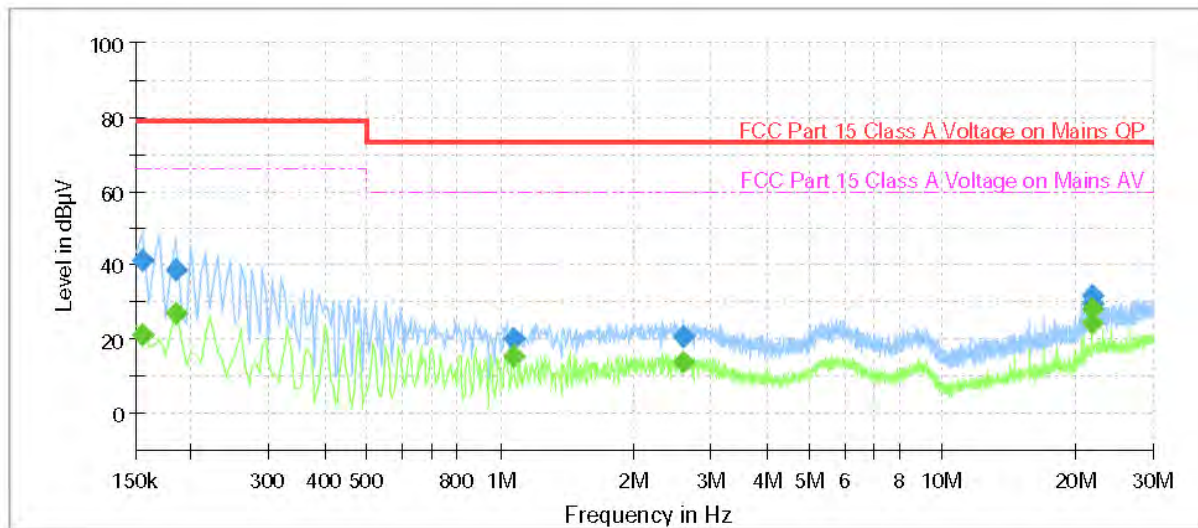
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description: Conducted Emission
Model No.: PNM-9320VQP
Mode: H
Operator Name: KES



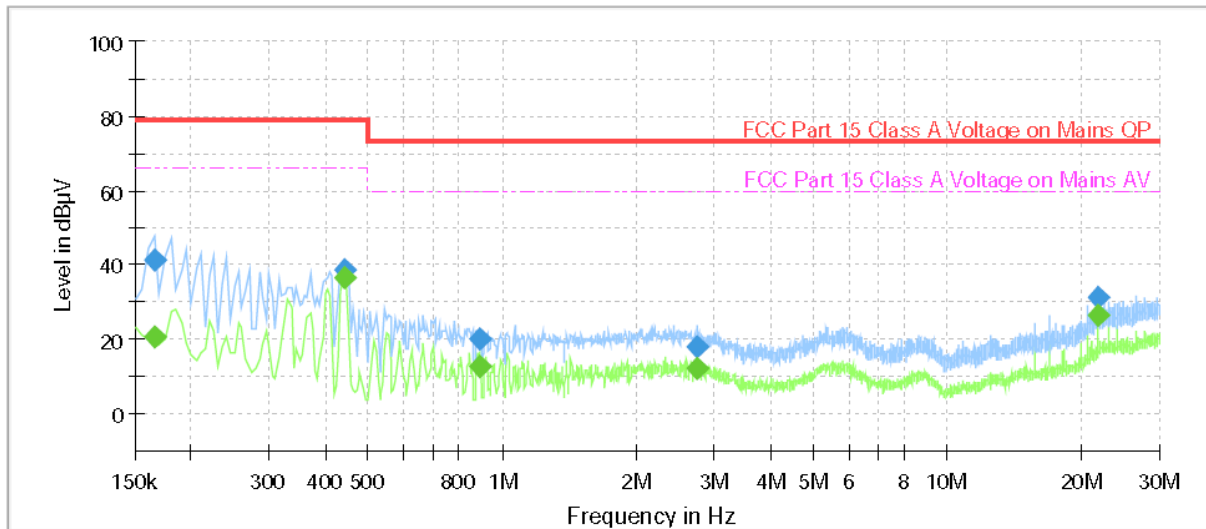
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	---	21.15	66.00	44.85	1000.0	9.000	L1	19.3
0.155000	41.30	---	79.00	37.70	1000.0	9.000	L1	19.3
0.185000	---	26.86	66.00	39.14	1000.0	9.000	L1	19.3
0.185000	38.89	---	79.00	40.11	1000.0	9.000	L1	19.3
1.070000	---	15.53	60.00	44.47	1000.0	9.000	L1	20.0
1.070000	20.35	---	73.00	52.65	1000.0	9.000	L1	20.0
2.605000	---	13.71	60.00	46.29	1000.0	9.000	L1	20.1
2.605000	20.52	---	73.00	52.48	1000.0	9.000	L1	20.1
21.800000	---	24.20	60.00	35.80	1000.0	9.000	L1	20.4
21.800000	29.81	---	73.00	43.19	1000.0	9.000	L1	20.4
21.805000	---	28.00	60.00	32.00	1000.0	9.000	L1	20.4
21.805000	31.96	---	73.00	41.04	1000.0	9.000	L1	20.4

NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	PNM-9320VQP
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)
0.165000	---	20.70	66.00	45.30	1000.0	9.000	N	19.3
0.165000	41.18	---	79.00	37.82	1000.0	9.000	N	19.3
0.440000	---	36.39	66.00	29.61	1000.0	9.000	N	19.5
0.440000	38.54	---	79.00	40.46	1000.0	9.000	N	19.5
0.890000	---	12.72	60.00	47.28	1000.0	9.000	N	19.9
0.890000	19.89	---	73.00	53.11	1000.0	9.000	N	19.9
2.750000	---	12.32	60.00	47.68	1000.0	9.000	N	20.1
2.750000	18.06	---	73.00	54.94	1000.0	9.000	N	20.1
21.805000	---	26.31	60.00	33.69	1000.0	9.000	N	20.4
21.805000	31.37	---	73.00	41.63	1000.0	9.000	N	20.4

◆ Calculation

QuasiPeak [dBμV] / CAverage [dBμV] = Reading Value [dBμV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

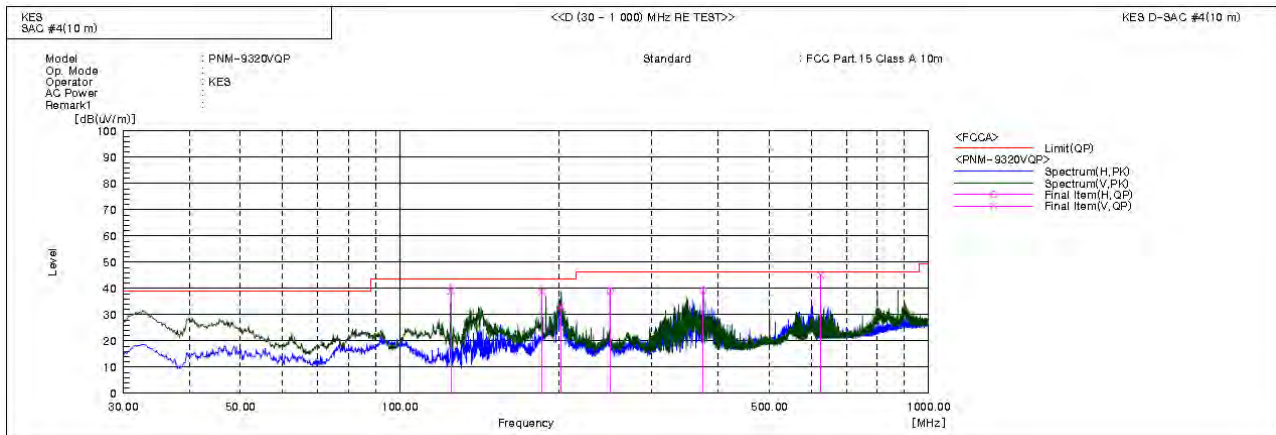


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Radiated Electric Field Emissions(Below 1 GHz)



Final Result

No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		QP	[dB(1/m)]	QP	QP	QP	[cm]	[deg]	
			[dB(μV)]		[dB(μV/m)]	[dB(μV/m)]	[dB]			
1	124.998	V	71.0	-32.1	38.9	43.5	4.6	100.0	42.0	
2	185.632	V	68.2	-29.4	38.8	43.5	4.7	100.0	42.0	
3	201.686	V	60.7	-27.5	33.2	43.5	10.3	100.0	311.0	
4	249.996	H	65.4	-26.4	39.0	46.5	7.5	400.0	16.0	
5	374.985	H	61.6	-22.4	39.2	46.5	7.3	200.0	104.0	
6	624.975	V	60.9	-15.7	45.2	46.5	1.3	400.0	268.0	

◆ Calculation – SAC #4(10 m)

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

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The authenticity of the test report, contact shchoi@kes.co.kr

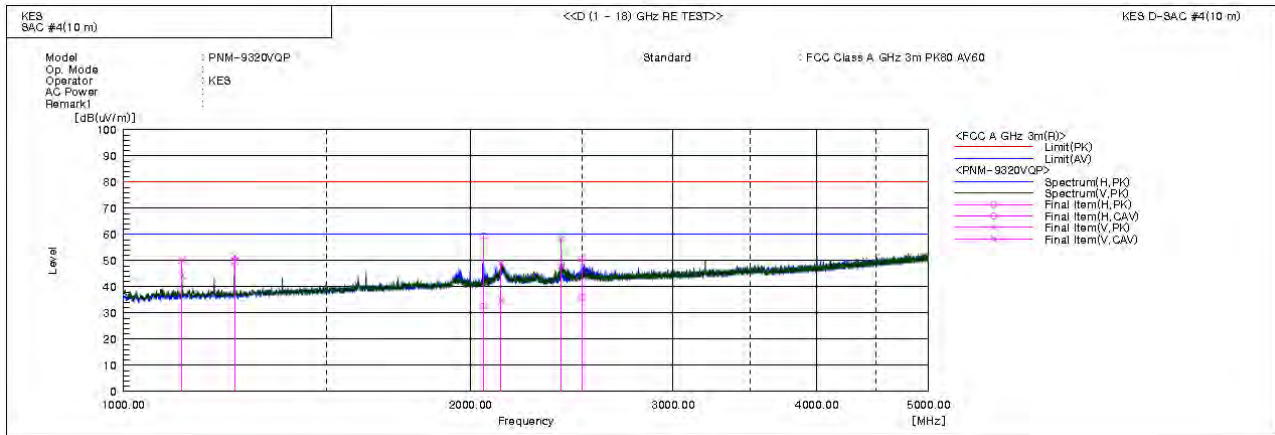


KES Co., Ltd.

3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
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KES-E1-18T0419
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Radiated Electric Field Emissions(Above 1 GHz)



Final Result

No.	Frequency (P) [MHz]	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	1125.050 V	56.4	50.5	-6.3	50.1	44.2	80.0	60.0	29.9	15.8	244.0	93.0	
2	1249.985 V	56.8	54.8	-5.0	51.8	49.8	80.0	60.0	28.2	10.2	100.0	235.0	
3	2056.195 H	59.4	32.6	0.0	59.4	32.6	80.0	60.0	20.6	27.4	235.0	33.0	
4	2127.725 V	48.8	34.5	0.3	49.1	34.8	80.0	60.0	30.9	25.2	101.0	182.0	
5	2400.030 V	57.0	46.5	1.4	58.4	47.9	80.0	60.0	21.6	12.1	107.0	103.0	
6	2499.960 H	48.9	34.0	1.9	50.8	35.9	80.0	60.0	29.2	24.1	109.0	13.0	

◆ 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

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Test Setup Photos and Configuration

Conducted Voltage Emissions



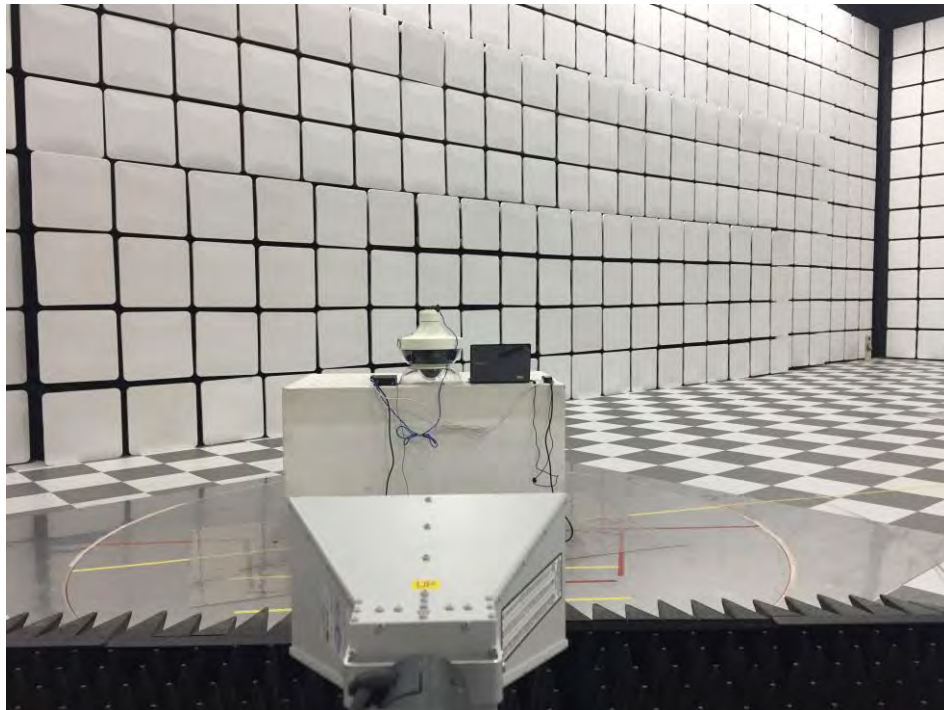
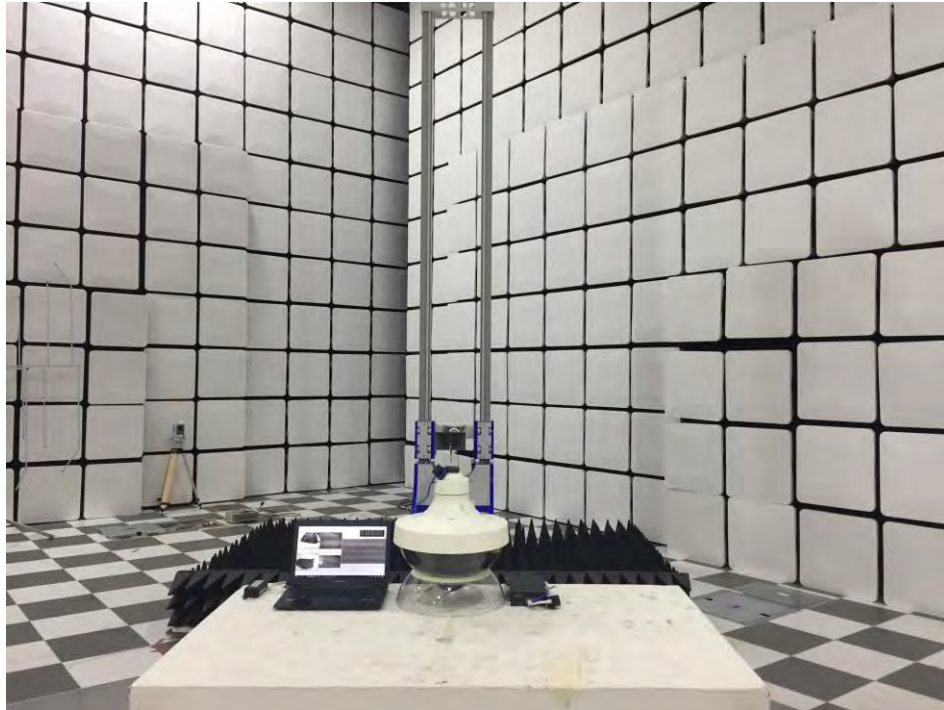
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Radiated Electric Field Emissions(Below 1 GHz)



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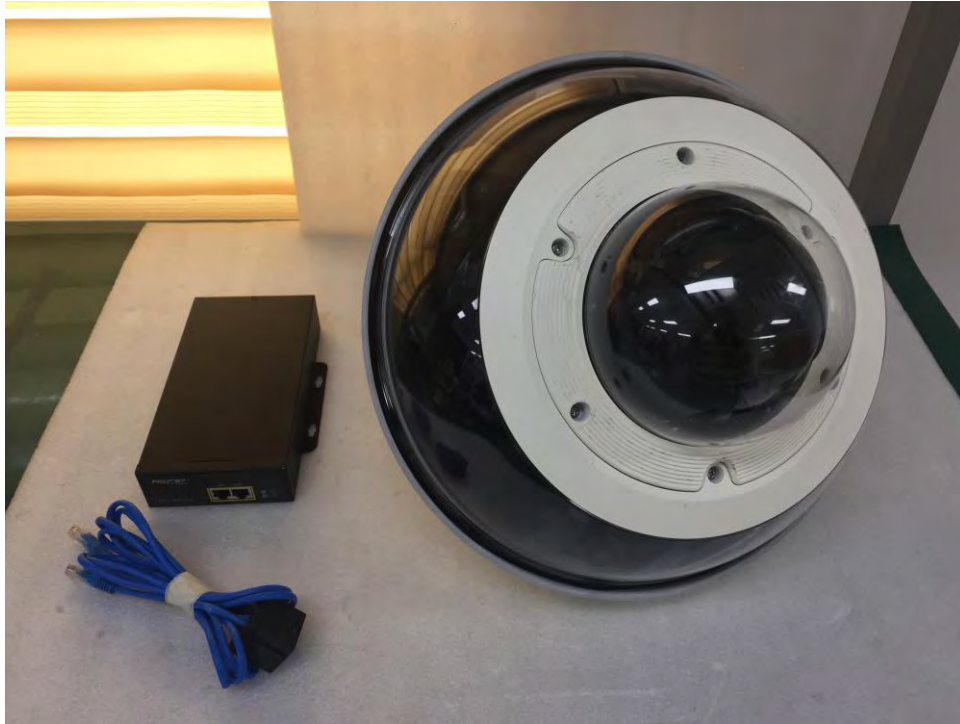
Radiated Electric Field Emissions(Above 1 GHz)



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EUT External Photographs

(Top)



(Bottom)



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EUT Internal Photographs

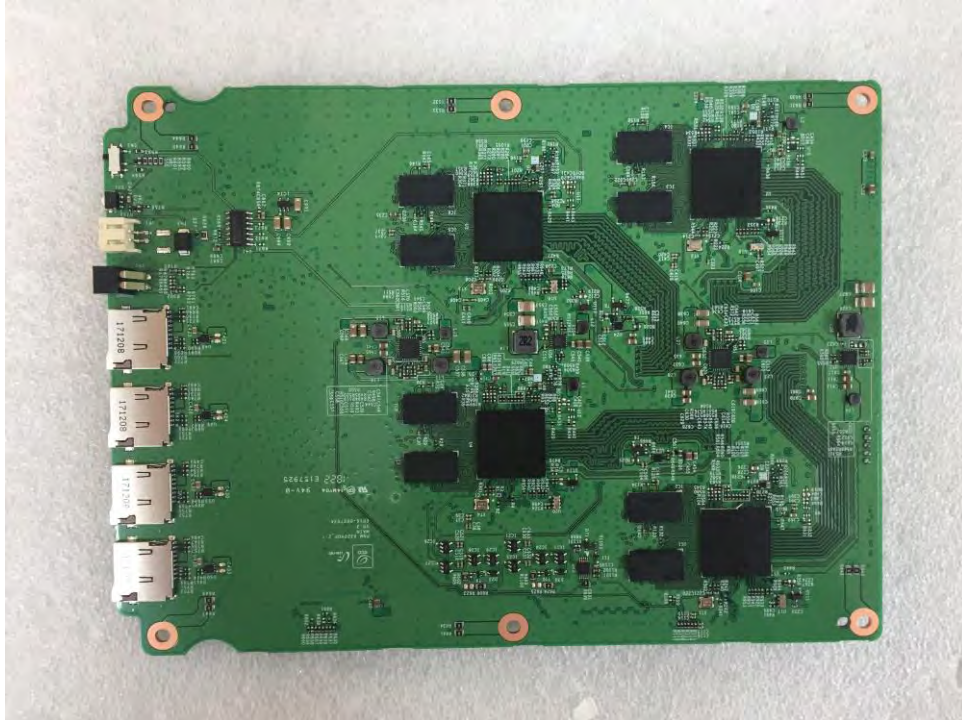
(Internal View)



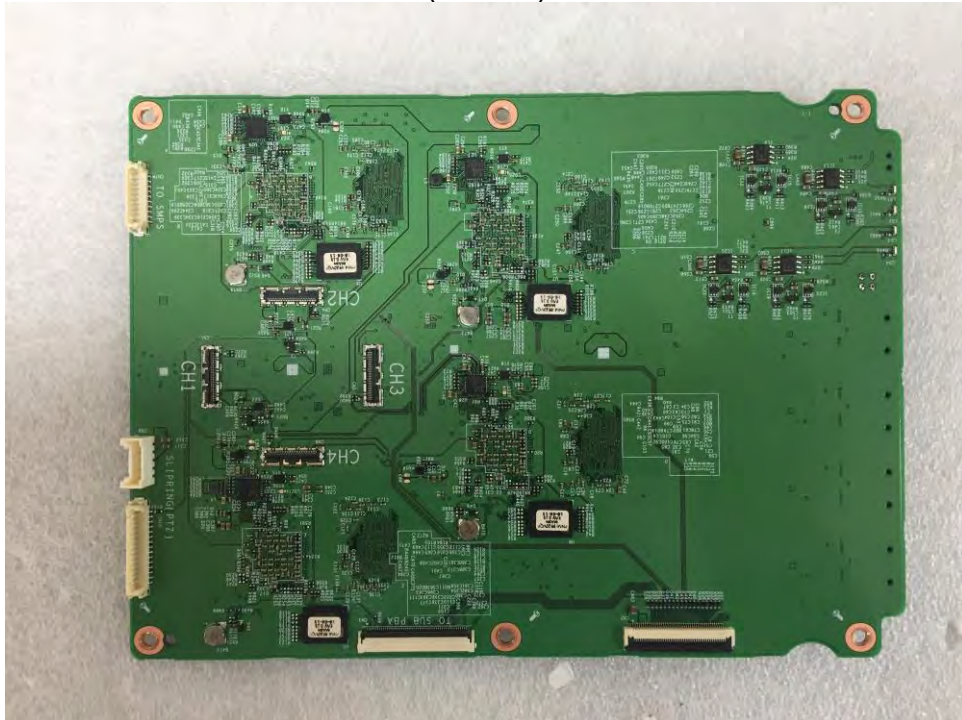
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EUT Internal View – Main Board

(Top)



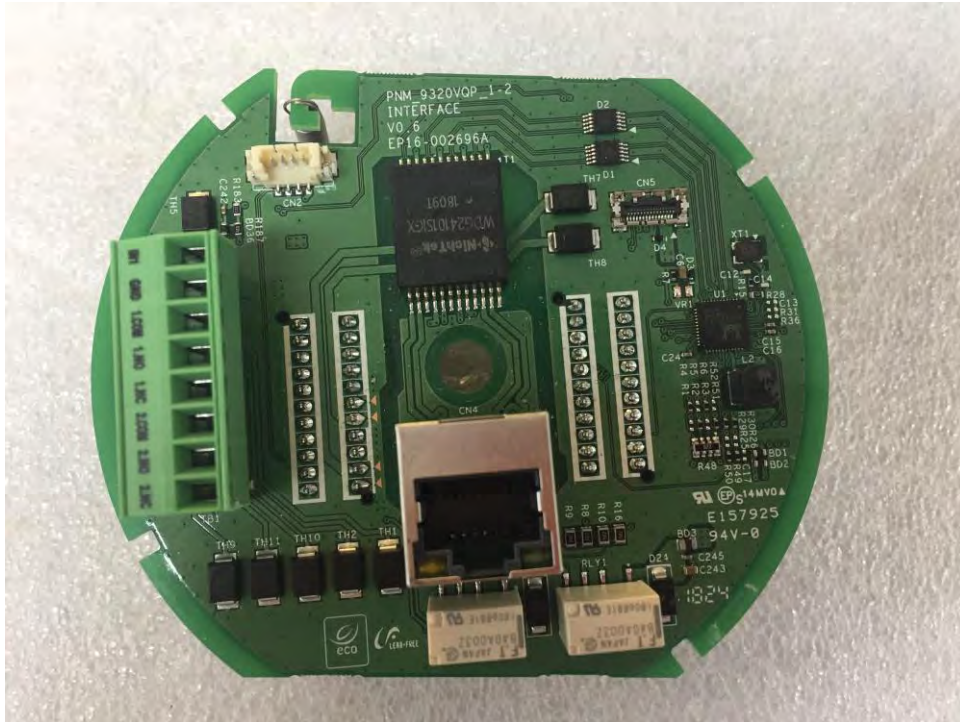
(Bottom)



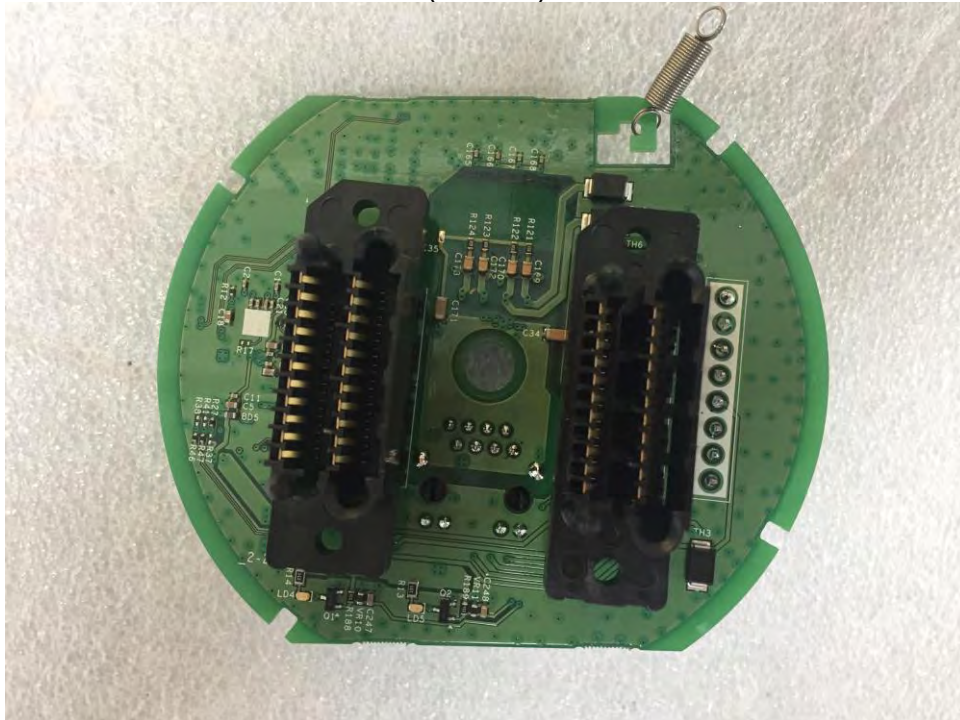
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EUT Internal View – SUB Board 1

(Top)



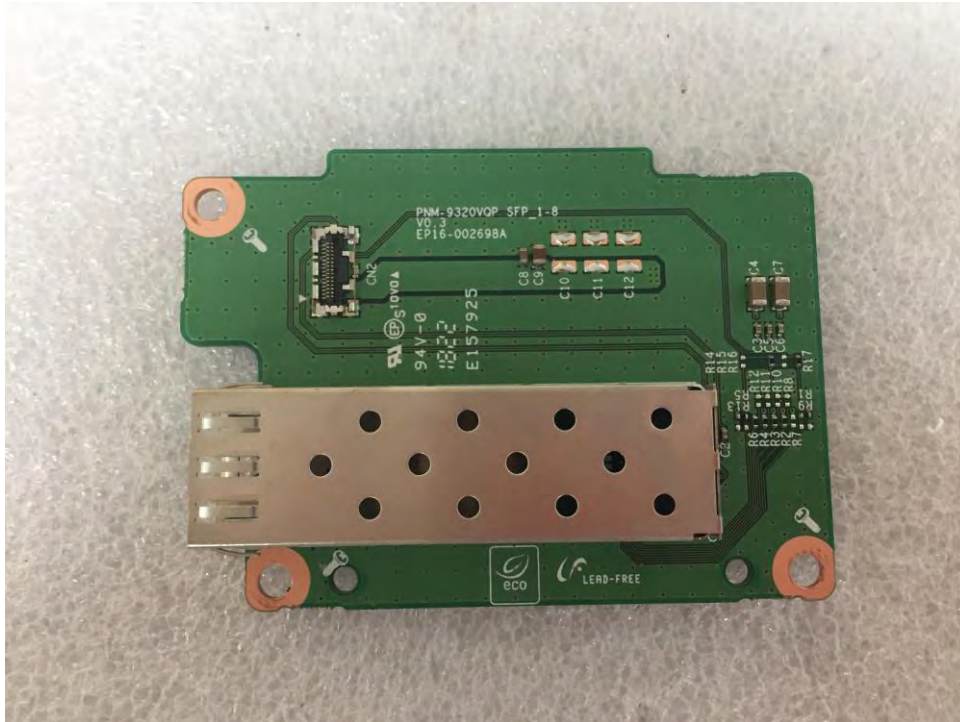
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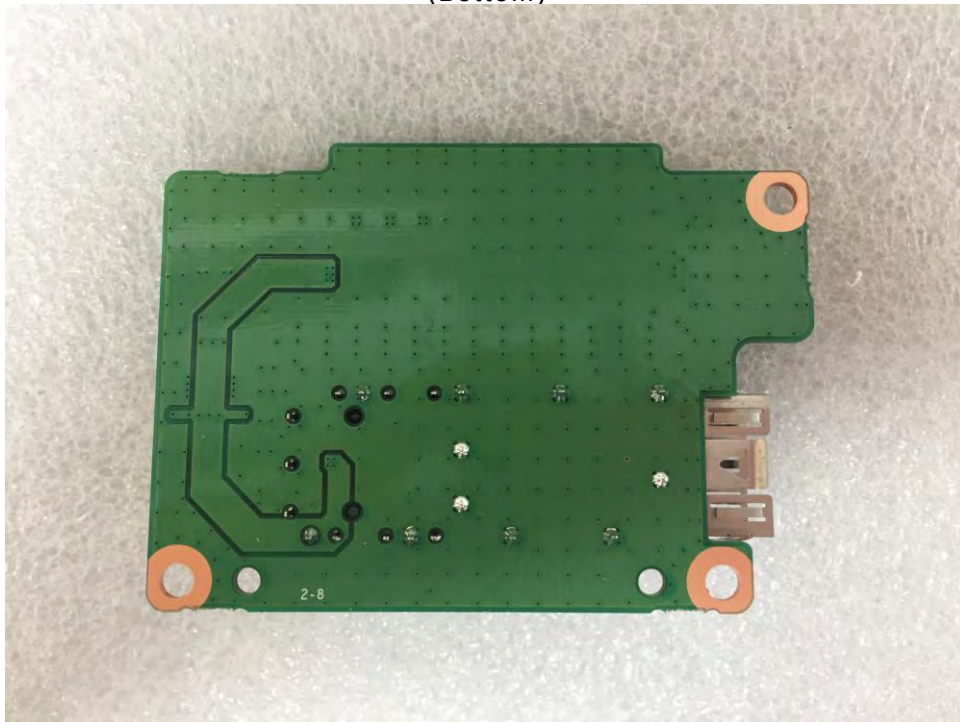
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EUT Internal View – SUB Board 2

(Top)



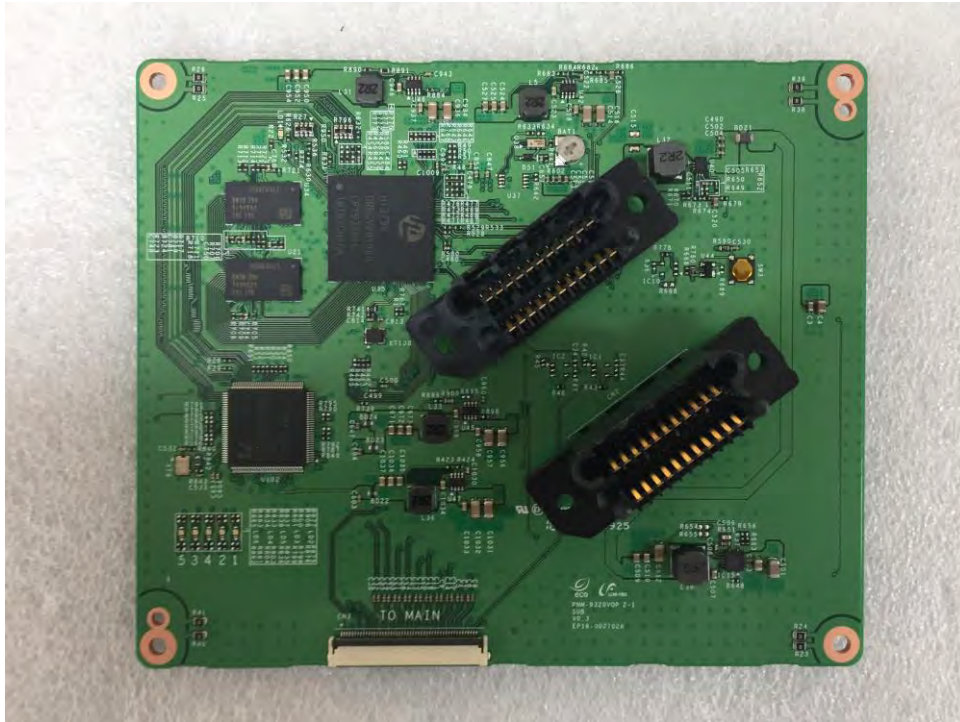
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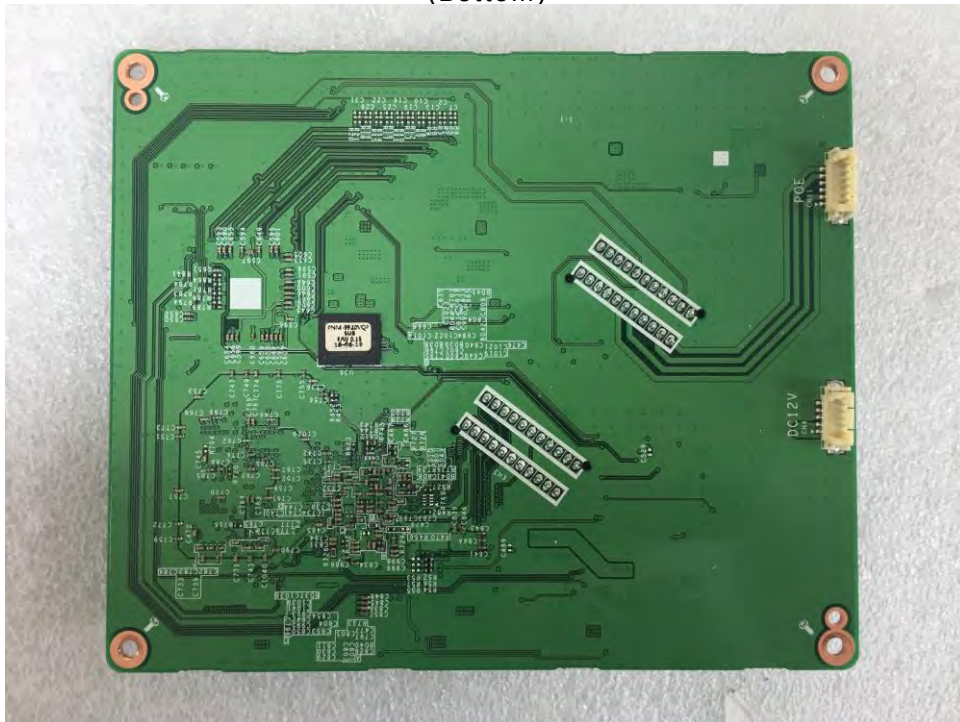
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EUT Internal View – SUB Board 3

(Top)



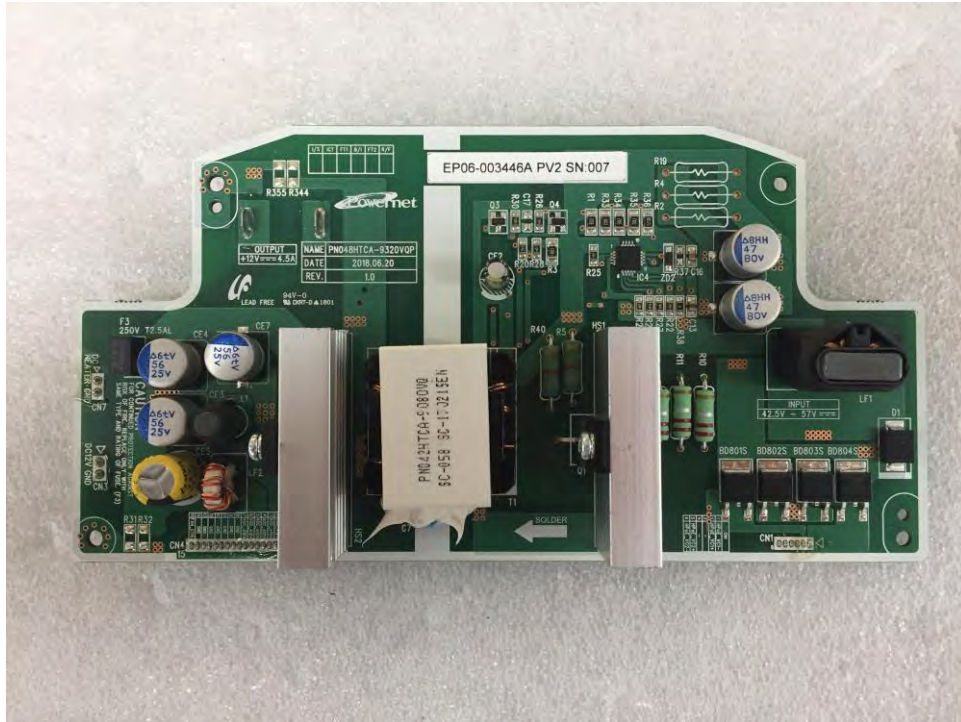
(Bottom)



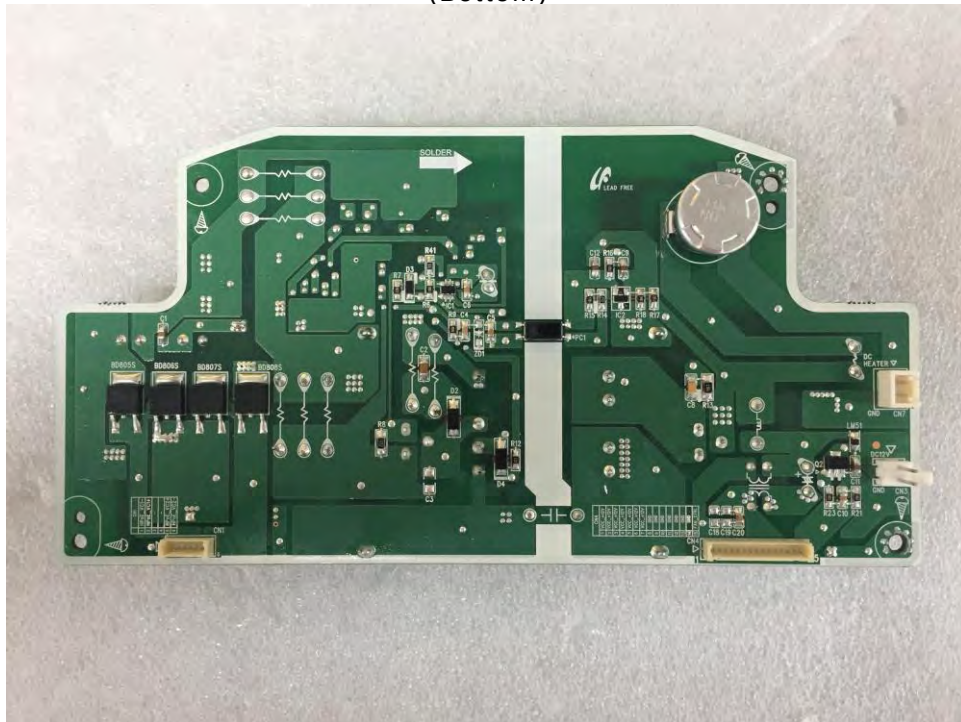
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EUT Internal View – SUB Board 4

(Top)



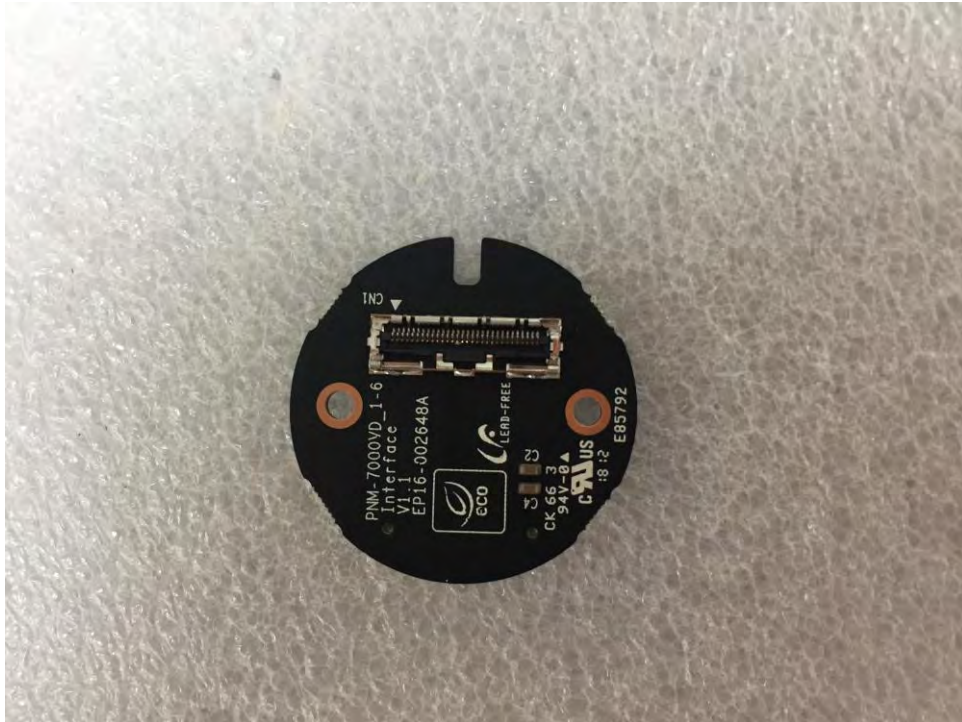
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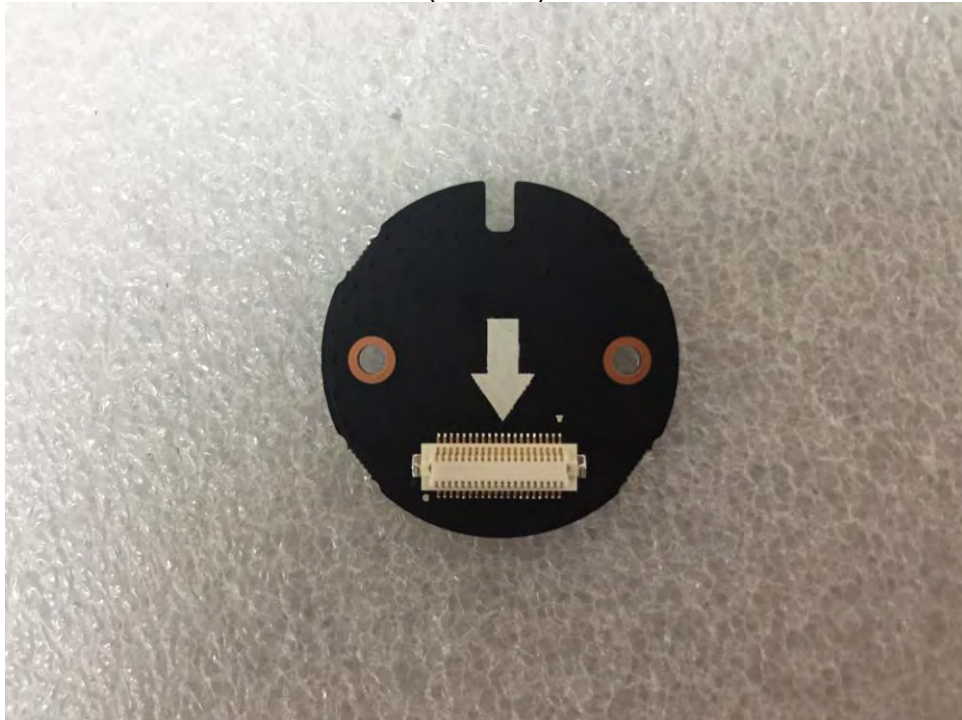
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EUT Internal View – Camera connector Board

(Top)



(Bottom)



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EUT Internal View – Camera LENS

(Top)



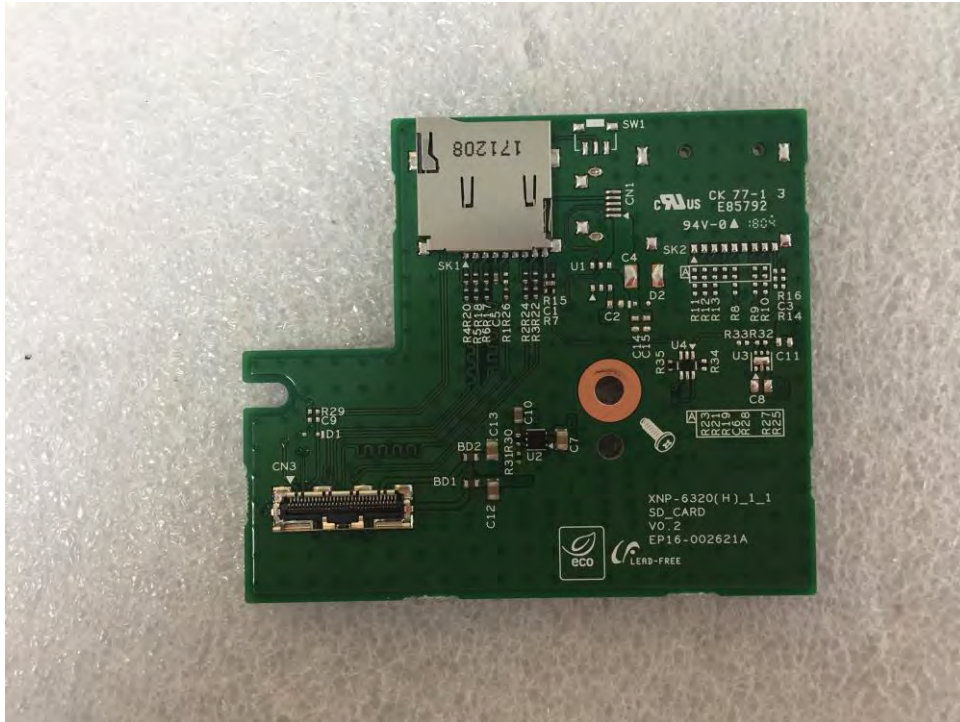
(Bottom)



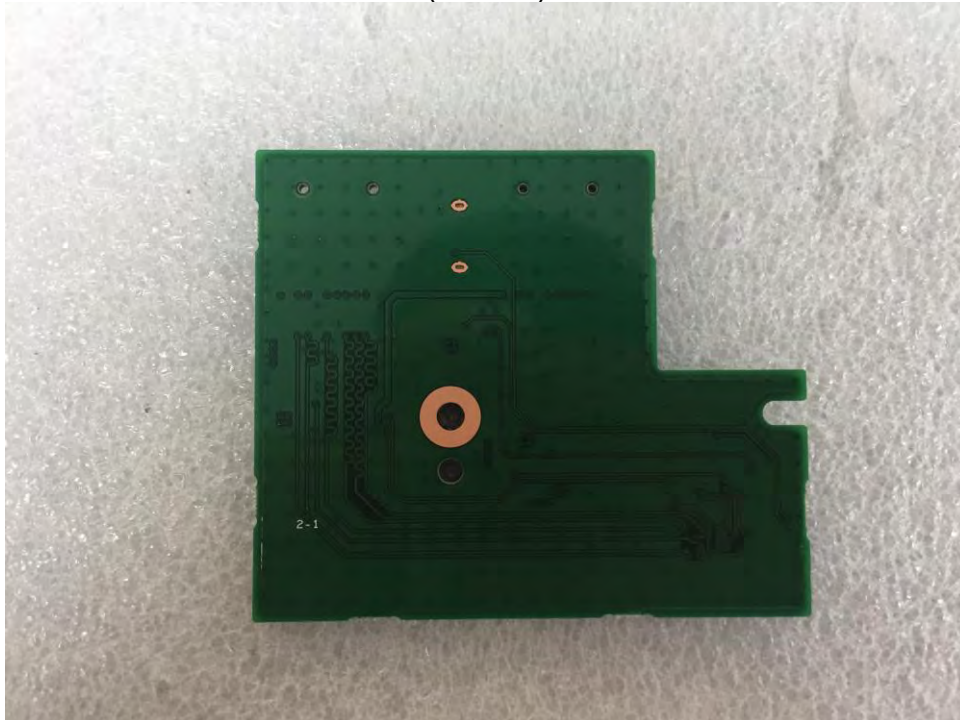
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EUT Internal View – Camera SUB Board 1

(Top)



(Bottom)



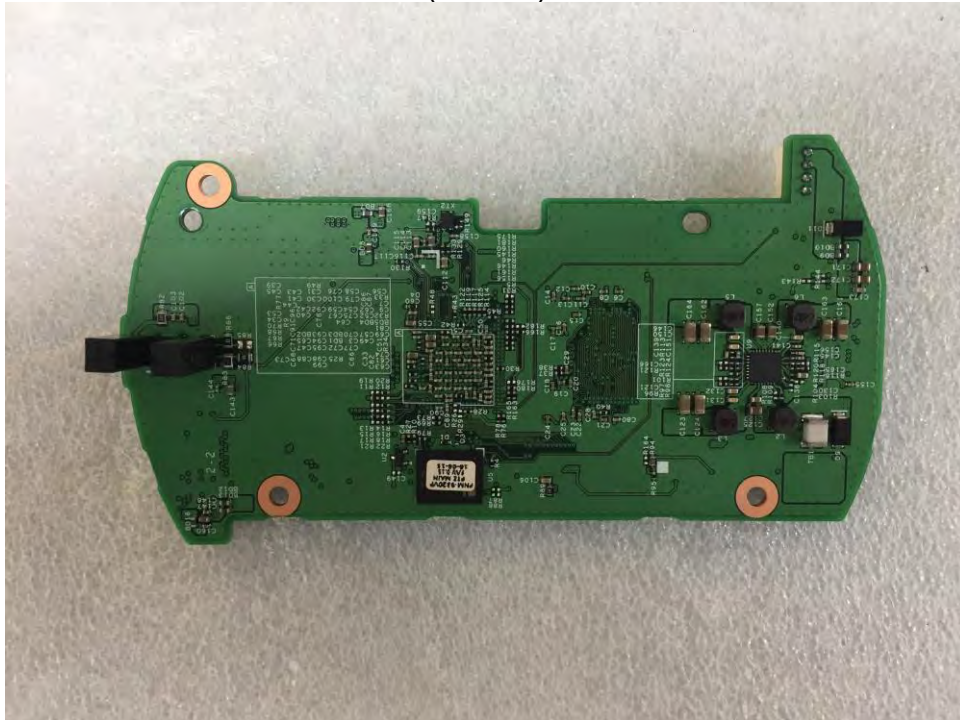
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EUT Internal View – Camera SUB Board 2

(Top)



(Bottom)



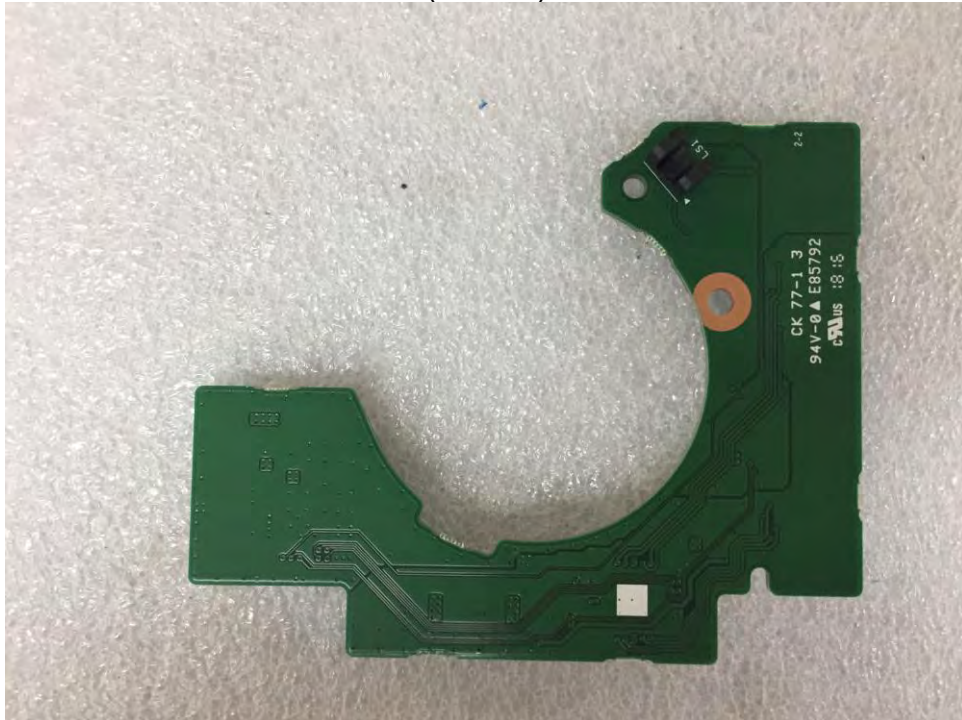
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EUT Internal View – Camera SUB Board 3

(Top)



(Bottom)



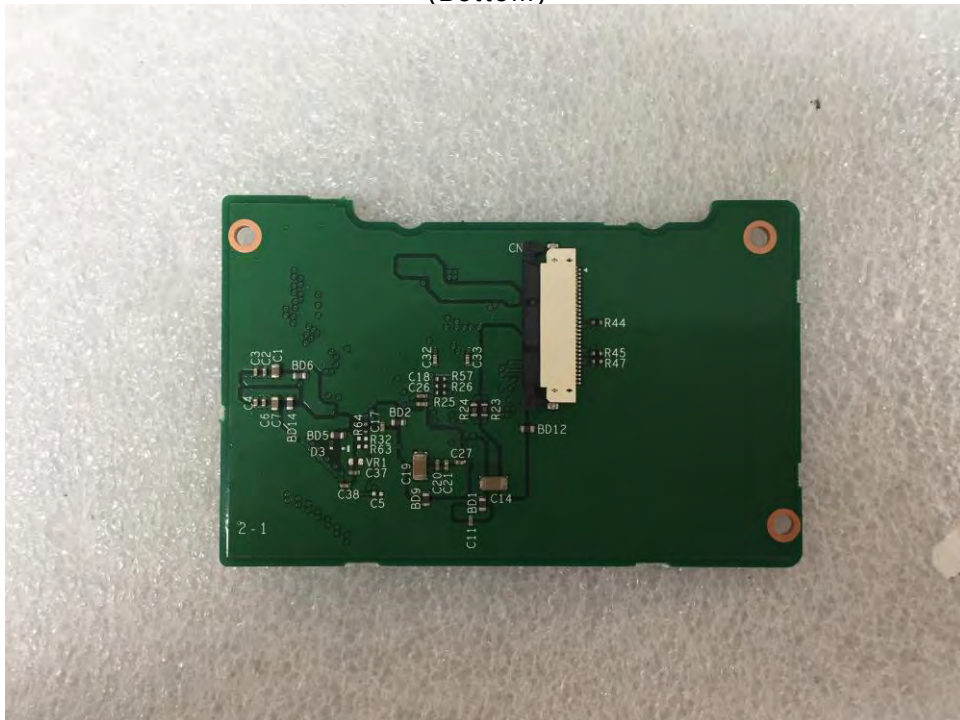
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EUT Internal View – Camera SUB Board 4

(Top)



(Bottom)



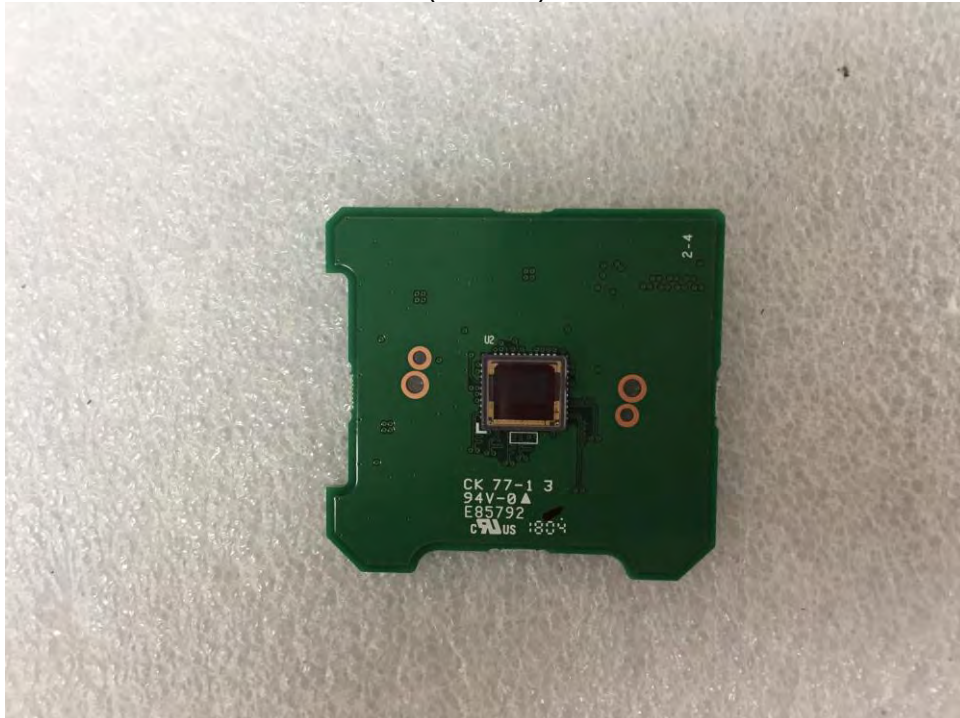
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EUT Internal View – Camera SUB Board 5

(Top)



(Bottom)



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EUT Internal View – PoE Adapter

(Top)

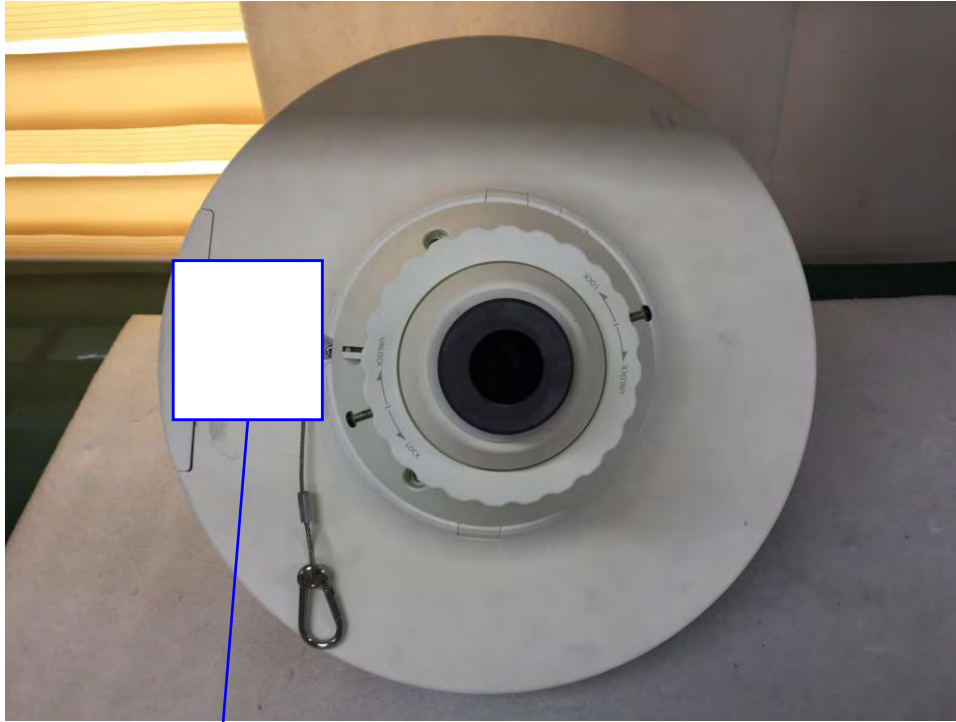


(Bottom)



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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)