CERTIFICATE of EMC Compliance

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Report No	:	**EMC-FCC-1944**
Type of equipment	:	**Network Camera**
Model Name	:	**SNP-6200RHN**
Applicant	:	**Samsung Techwin Co., Ltd.** **#42 Seongju-Dong, Changwon-Shi,** **Kyungsangnam-Do, Korea**
Manufacturer#1	:	**Samsung Techwin Co., Ltd.** **#42 Seongju-Dong, Changwon-Shi,** **Kyungsangnam-Do, Korea**
Manufacturer#2	:	**TIANJIN SAMSUNG TECHWIN** **OPTO-ELECTRONIC CO., LTD** **No.11 Weiliu Road. Micro-Electronic Industrial** **Park Jingang Road Tianjin 300385, China**
Test standards	:	**FCC part 15 subpart B, Class A**
Classification	:	**Verification**

The above equipment was tested by EMC compliance Testing Laboratory for with the requirements of FCC Rules and Regulations. The results of testing in this report apply to the product / system which was tested only.
These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.

Yeom, Han-Seok/ Manager

Laboratory

EMC compliance Ltd.
480-5 Sin-dong, Yeongtong-gu,
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EMI TEST REPORT

Test report No	:	**EMC-FCC-1944**
Type of Equipment	:	**Network Camera**
Model Name	:	**SNP-6200RHN**
Applicant	:	**Samsung Techwin Co., Ltd.** **#42 Seongju-Dong, Changwon-Shi,** **Kyungsangnam-Do, Korea**
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Manufacturer #2	:	**TIANJIN SAMSUNG TECHWIN** **OPTO-ELECTRONIC CO., LTD** **No.11 Weiliu Road. Micro-Electronic Industrial** **Park Jingang Road Tianjin 300385, China**
Test standards	:	**FCC part 15 subpart B, Class A**
Classification	:	**Verification**
Test Procedure and Items		
- AC Power Line Conducted Emissions Measurement: ANSI C63.4-2009		
- Radiated Emissions Measurement : ANSI C63.4-2009		
Testing Laboratory	:	**EMC Compliance Ltd.**
Test result	:	**Complied**

The above equipment was tested by EMC compliance Testing Laboratory for compliance with the requirements of FCC Rules and Regulations. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.
These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.

Date of receipt: 2013. 05. 15

Date of testing: 2013. 05. 27

Issued date: 2013. 05. 30

Tested by: BEAK, JEONG-SOO

Approved by: YEOM, HAN-SEOK

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Contents

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1. Applicant information

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Contact name:	**Kang Jei Soon**

Manufacturer#1:	Samsung Techwin Co., Ltd.
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Manufacturer#2:	TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD
Address:	No.11 Weiliu Road. Micro-Electronic Industrial Park
	Jingang Road Tianjin 300385, China

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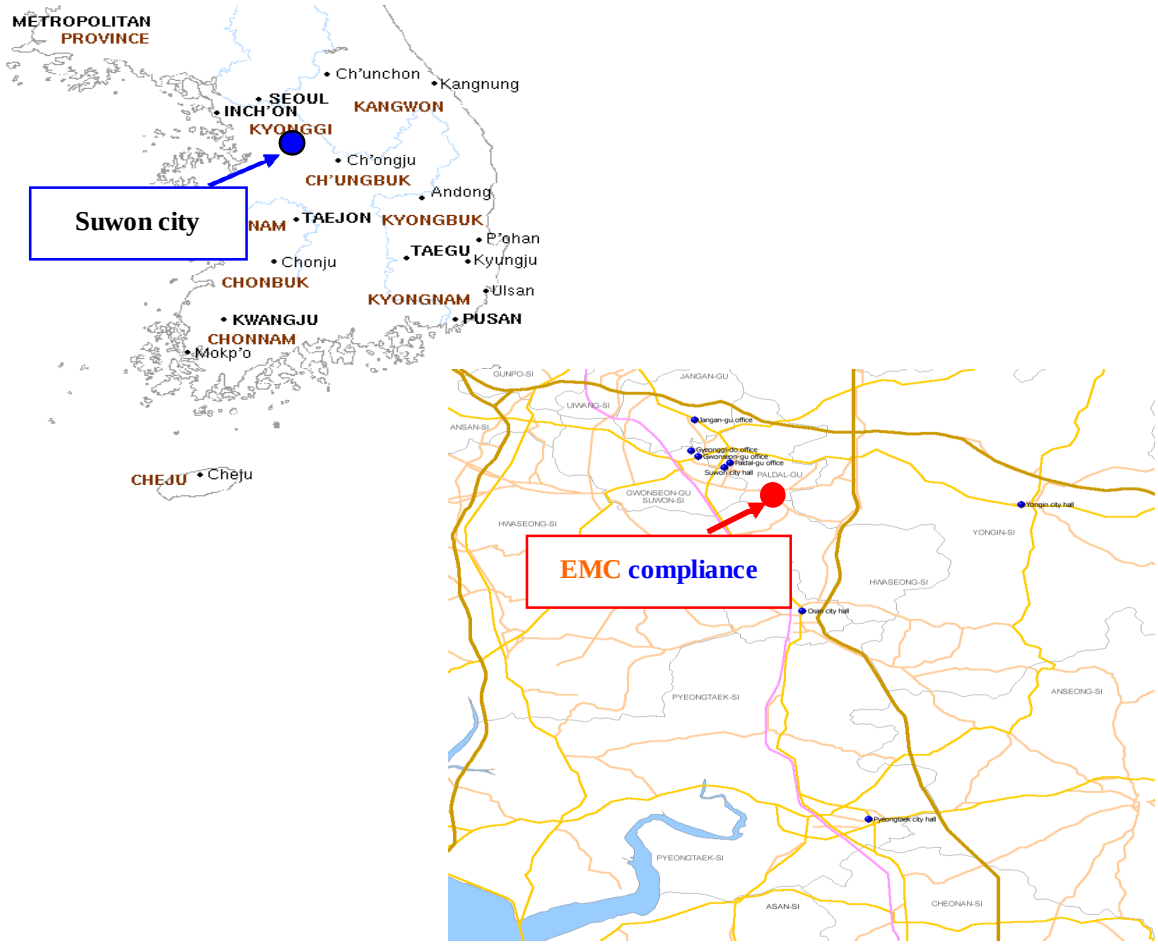
2. Laboratory information

Address

EMC compliance Ltd.
480-5 Sin-dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, 443-390, Korea
Telephone Number: 82 31 336 9919
Facsimile Number: 82 505 299 8311

FCC CAB.: KR0040
VCCI Registration No. : R-3327, G-198, C-3706, T-1849
Industry Canada Registration No.: 8035A
KOLAS NO.: 231

SITE MAP



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3. Test system configuration

3.1 Operation environment

		Temperature	Humidity	Pressure
Chamber(10 m)	:	24 °C	38 % R.H.	-
Shielded room(CE)	:	24 °C	39 % R.H.	-

Test site

These testing items were performed following locations;

Test item	Test site
Conducted Emission	Shielded Room
Radiated Emission	10 m Chamber

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3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC.
The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

Conducted emission measurement (C.L: Approx 95 %, k = 2)		
Shielded Room (CE#1)	9 ㎑ ~ 150 ㎑: ± 3.82 dB 150 ㎑ ~ 30 ㎒: ± 3.43 dB	
Shielded Room (CE#2)	9 ㎑ ~ 150 ㎑: ± 3.82 dB 150 ㎑ ~ 30 ㎒: ± 3.43 dB	
Shielded Room (CE#3)	9 ㎑ ~ 150 ㎑: ± 4.00 dB 150 ㎑ ~ 30 ㎒: ± 3.63 dB	
Radiated Emission measurement (C.L: Approx 95 %, k = 2)		
10 m Chamber (#F4)	30 ㎒ ~ 300 ㎒	3 m: + 4.56 dB, - 4.58 dB 10 m: + 4.56 dB, - 4.56 dB
	300 ㎒ ~ 1 000 ㎒	3 m: + 4.84 dB, - 4.85 dB 10 m: + 4.71 dB, - 4.72 dB
	1 ㎓ ~ 6 ㎓	3 m: + 6.19 dB, - 6.20 dB
	6 ㎓ ~ 18 ㎓	3 m: + 6.41 dB, - 6.53 dB
10 m Chamber (#F2)	30 ㎒ ~ 300 ㎒	3 m: + 4.86 dB, - 4.88 dB 10 m: + 4.86 dB, - 4.86 dB
	300 ㎒ ~ 1 000 ㎒	3 m: + 4.98 dB, - 4.99 dB 10 m: + 4.85 dB, - 4.87 dB
	1 ㎓ ~ 6 ㎓	3 m: + 6.19 dB, - 6.20 dB
	6 ㎓ ~ 18 ㎓	3 m: + 6.41 dB, - 6.53 dB

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4. Description of E.U.T.

4.1 General information

Items		Description	
		SNP-6200RH/N	SNP-6200RH/P
Video	Imaging Device	1/3-type PS CMOS (Panasonic MN34041)	
	Total Pixels	2010(H) x 1108(V)	2010(H) x 1108(V)
	Effective Pixels	1944(H) x 1092(V)	1944(H) x 1092(V)
	Scanning System	Progressive Scan	
	Min. Illumination	1.5 Lux/F1.6(50IRE) : Color 0 Lux (IR LED On)	
	S / N Ratio	50dB	
	Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 704x480(N), 704x576(P), for installation	
	IR Distance	100m (IR LED 2ea)	
Lens	Focal Length (Zoom Ratio)	4.45 ~ 89mm (20X)	
	Max. Aperture Ratio	F1.6(Wide) / F2.9(Tele)	
	Angular Field of View	H : 62.9°(Wide) ~ 3.10°(Tele) / V : 43.32°(Wide) ~ 2.34°(Tele)	
	Min. Object Distance	1m (3.28ft)	
	Focus Cotrol	Auto / One-Shot AF / Manual	
	Lens Type	DC Auto Iris	
	Mount Type	Board-in type	
Pan / Tilt / Rotate	Pan Range	360° Endless	
	Pan Speed	Preset : 250°/sec, Manual : 0.024°/sec ~120°/sec	
	Tilt Range	190° (-5° ~185°)	
	Tilt Speed	Preset : 250°/sec, Manual : 0.024°/sec ~120°/sec	
	Rotate Range	-	
	Preset	255 ea	
	Preset Accuracy	±0.2°	
	Auto Tracking	N/A	

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Items		Description	
		SNP-6200RH/N	SNP-6200RH/P
Operational	Camera Title	Off / On (Displayed up to 15 characters)	
	Day & Night	Auto (ICR) / Color / B/W	
	Backlight Compensation	Off / BLC / WDR / HLC	
	Wide Dynamic Range	128X (60dB)	
	Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)	
	Digital Noise Reduction	SSNRIII (2D+3D Noise Filter) (Off / On)	
	Digital Image Stabilization	Off / On	
	Motion Detection	Yes (1 programmable zones)	
	Privacy Masking	Off / On (12 Rectangle zones)	
	Sens-up (Frame Integration)	Off / Auto (2X ~ 60X)	
	Gain Control	Off / Low / Medium / High / Manual	
	White Balance	AWC, Manual, Indoor, Outdoor, ATW (2,400°K ~ 10,500°K)	
	Electronic Shutter Speed	ESC / FLK / Manual (1/30 ~ 1/33,000)	ESC / FLK / Manual (1/25 ~ 1/33,000)
	Digital Zoom	8X	
	Flip / Mirror	Off / On	
	Intelligent Video Analytics	Tampering (Scene Change), Virtual Line, Enter / Exit, Appear / Disappear, Audio Detection, Face Detection (5ea)	
	Tracking Module	-	
	Schedule	-	
	Alarm I/O	Input 4ea / Output 3ea	
	Remote Control Interface	RS-485/422	
	RS-485 Protocol	SAMSUNG-T/E, PELCO-P/D, Panasonic, Honeywell, AD, Vicon, GE, BOSCH,	

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Items		Description	
		SNP-6200RH/N	SNP-6200RH/P
Operational	Alarm Triggers	Alarm Input, Motion Detection, Intelligent Video Analytics, Network Disconnect	
	Alarm events	• File upload via FTP, E-Mail • Notification via E-Mail, TCP • local storage(SD/SDHC) recording at Network disconnected • External output • PTZ preset	
Network	Ethernet	RJ-45 (10/100BASE-T)	
	Video Compression Format	H.264, (MPEG-4 Part 10/AVC), MJPEG	
	Resolution	1920x1080P(Full HD),SXGA (1280 x 1024), 1280 x 960, HD (16 : 9, 1280 x 720p), 1024 x 768, SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 240)	
	Max. Framerate	30fps * When WDR ON, Max. framerate is Max 15fps.	25fps * When WDR ON, Max. framerate is Max 15fps.
	Video Quality Adjustment	H.264 : Compression Level, Target Bitrate Level Control MJPEG : Quality Level Control	
	Bitrate Control Method	H.264 : CBR or VBR MJPEG : VBR	
	Streaming Capability	Multiple Streaming (Up to 6 Profiles)	
	Audio I/O	Mic(Line)-in Selectable via UI, Line out (Mono, 1Vrms)	
	Audio Compression Format	G.711 μ-law, G.726	
	Audio Communication	Bi-dierctional (2-Way)	
	IP	IPv4, IPv6	
	Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP	

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Items		Description	
		SNP-6200RH/N	SNP-6200RH/P
Network	Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1x Authentication	
	Streaming Method	Unicast / Multicast	
	Max. User Access	10 users at Unicast Mode	
	Memory Slot	SD/SDHC Memory Slot	
	ONVIF Conformance	Yes	
	Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Denish, Portuguese, Czech, Polish, Turkish, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek	
	Web Viewer	Supported OS : Windows XP / VISTA / 7, MAC OS Supported Browser : Internet Explorer 7.0 or Higher, Firefox, Google Chrome, Apple Safari *Apple Safari, Windows Internet Explorer 9.0(32bit)/8.0(32bit)/7.0(32bit) * For Mac OS X, only the Safari browser is supported.	
	Central Management Software	Smart Viewer	
Environmental	Operating Temperature / Humidity	-50°C ~ +55°C (-58°F ~ +131°F) / Less than 100% RH	
	Ingress Protection	IP66	
	Vandal Resistance	IK10	
Electrical	Input Voltage / Current	24V AC Only	
	Power Consumption	Max. 30W (Heater Off) / 35W(Heater Off, IR ON), 90W(Heater On, IR ON)	
Mechanical	Color / Material	Ivory / Aluminum	
	Dimension (Ø x H)	H399.5mm x Ø248 (Ø9.76" x 15.73")	
	Weight	6.6Kg(14.95 lb)	

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4.2 Product description

Type of product	Network Camera
Model name (Basic)	SNP-6200RHN
Model name (Variant)	-
Difference	-
Trade name	-
Serial no	KGJW6V2D500096R
Testing voltage	AC 24 V
Product rating	AC 24 V
Internal clock frequency	Above 108 ㎒
Note	* AC/AC adaptor was not provided by the manufacturer.

4.3 Auxiliary equipments

Type	Model / Part #	Serial number	Manufacturer
Note PC	C1410	473680121639	FUJITSU
USB Mouse	M-UV69a	HCA51201517	LG
Headset	SHS-250V	-	SAMSUNG
JIG	-	-	-
Controller	SC-3000	-	CNB
SD Card (2GB)	-	-	SANDISK
AC/AC Adaptor	DRL-246000AC	-	Samsung Techwin

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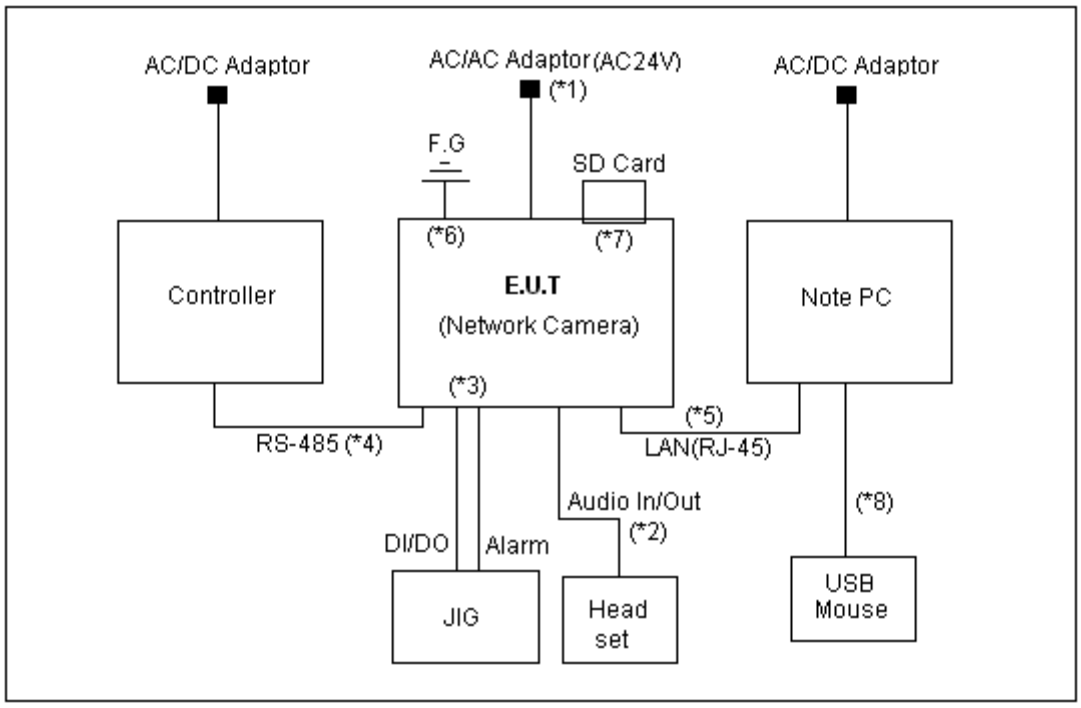
4.4 Test configuration



Note	Start		End		Cable	
*	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	**EUT** (Network Camera)	Power	AC/AC Adaptor	Power	2.5	Non-Shield
2		Audio In/Out	Headset	Audio In/Out	2.0	Non-Shield
3		DI/DO/Alarm	JIG	DI/DO/Alarm	3.0	Non-Shield
4		RS-485	Controller	RS-485	3.0	Non-Shield
5		LAN(RJ-45)	Note PC	LAN(RJ-45)	3.0	Non-Shield
6		F.G	Ground	F.G	2.0	-
7		SD Card	SD Card	SD Card	Direct	-
8	Note PC	USB	USB Mouse	USB	2.0	Shield

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4.5 Operating conditions

The EUT was configured as normal intended use.

Test mode	Normal operating
1	Camera monitoring test. (Web view)
	Controller test.

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5. Summary of test results

In the above configuration tested, The EUT complied with the requirement of the specification

5.1 Summary of EMI emission test results

FCC Part 15 Subpart B (Class A)

ANSI C63.4 – 2009

Applied	Test items	Test method	Result
☒	Conducted Emission	ANSI C63.4 – 2009	Complied
☒	Radiated Emission	ANSI C63.4 – 2009	Complied

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6. Test results

6.1 Conducted Emission

Test specification	FCC Part 15, Section 15.107(b), Class A		
Testing voltage	AC 24 V		
Test facility	Shielded room (CE#1)		
Date	2013. 05. 27		
Temperature (°C)	24 °C	Humidity (% R.H.)	39 % R.H.
Remarks	Complied		

6.1.1 Limits of conducted emission measurement

Frequency [㎒]	Class A (dB(㎶))		Class B (dB(㎶))	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79	66	66 ~ 56 *	56 ~ 46*
0.5 ~ 5	73	60	56	46
5 ~ 30	73	60	60	50

*The limit decreases linearly with the logarithm of frequency.

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6.1.2 Measurement procedure

The measurements were performed in a shielded room. EUT was setup as shown in photograph and placed on a non-metallic table height of 0.8 m above the reference ground plane. The rear of table was located 0.4 m to the vertical conducted plane. EUT was power through the LISN, which was bonded to the ground plane. The LISN power was filtered. Each EUT power lead, except ground (safety) lead was individually connected through a LISN to input power source. EUT signal cables that hung closer than 0.4 m to the Horizontal metal ground 0.3 m ~ 0.4 m long. The power cord was bundles in the center. All peripheral equipment was powered from a sub LISN. The LISN and ISN were positioned 0.8 m from the EUT. Peak and Average detection were used in preliminary testing and Quasi-peak and Average detections were used at final measurement.

6.1.3 Used equipments

Equipment	Model	Serial No.	Makers	Next Cal. Date	Used
Test Receiver	ESHS30	828765/009	R&S	2013.10.22	☐
Test Receiver	ESCI7	100732	R&S	2014.02.18	☐
Test Receiver	ESCI	100001	R&S	2013.07.10	☐
Test Receiver	ESCI	100710	R&S	2013.11.06	☒
LISN	ENV216	101358	R&S	2013.10.22	☒
LISN	ESH3-Z5	100267	R&S	2013.07.05	☒

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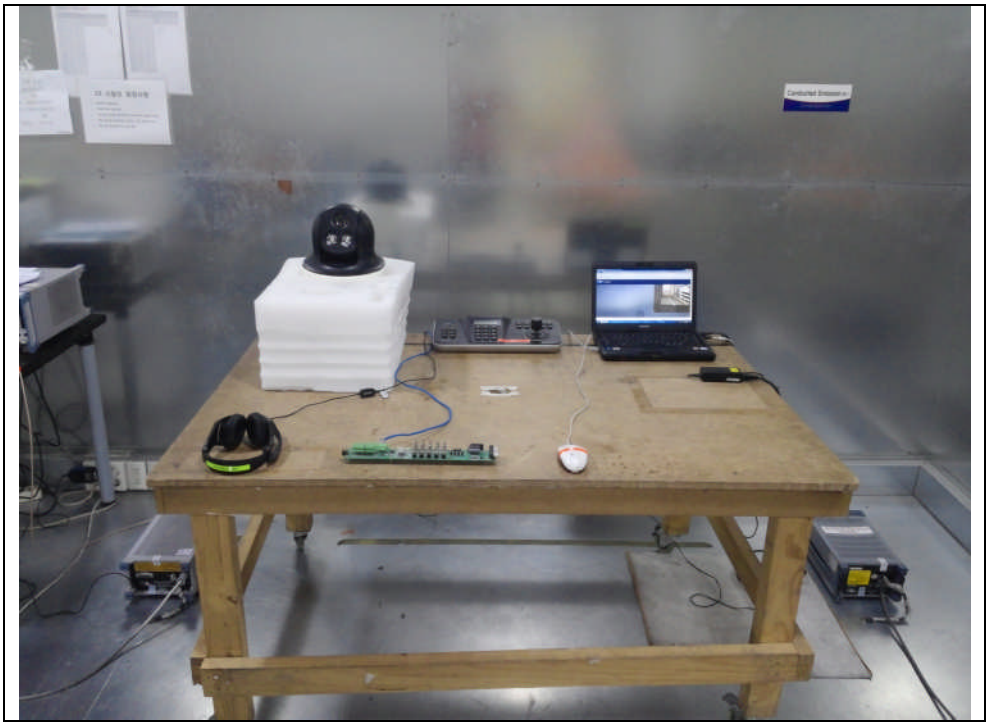
6.1.4 Photographs of test setup

* AC 24 V



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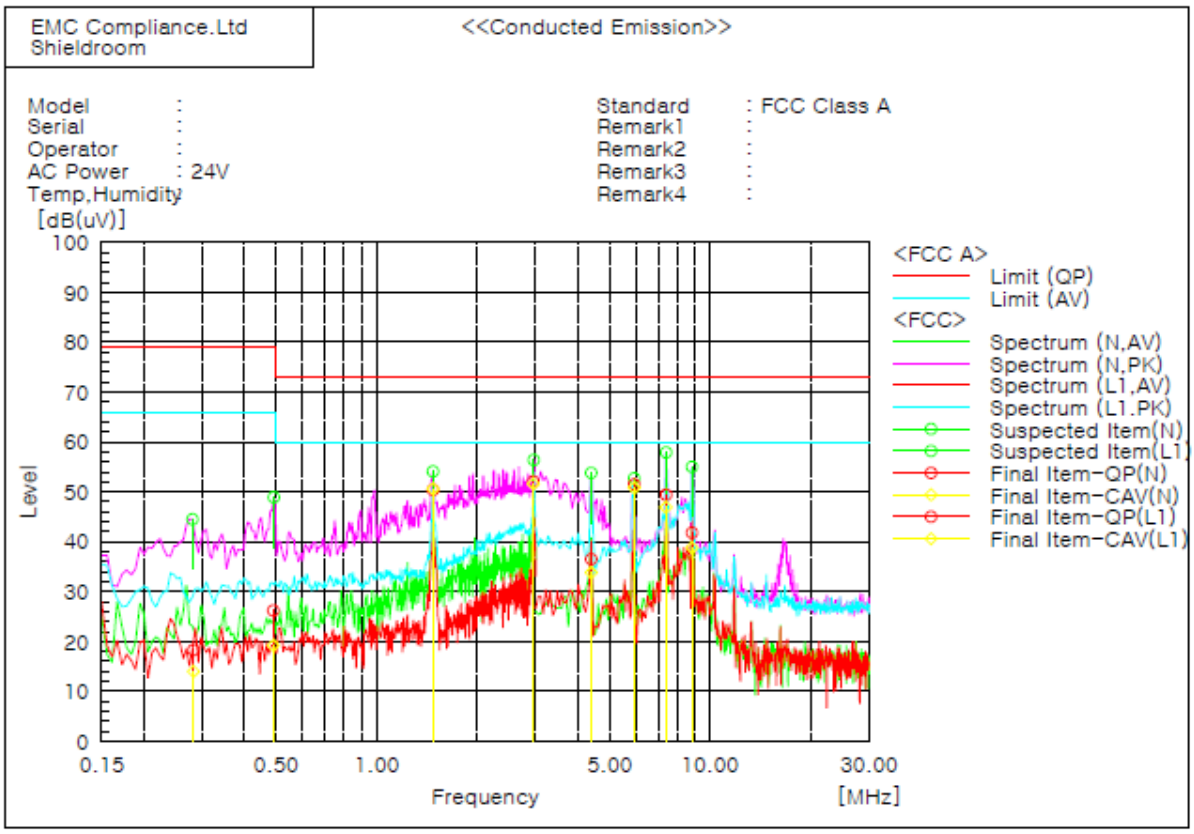
6.1.5 Conducted emission measurement result

* AC 24 V (SNP-6200RHN)



Final Result

N Phase

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	o.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.28276	8.4	4.1	9.9	18.3	14.0	79.0	66.0	60.7	52.0
2	0.4907	16.2	9.2	10.0	26.2	19.2	79.0	66.0	52.8	46.8
3	1.47772	40.7	40.9	9.7	50.4	50.6	73.0	60.0	22.6	9.4
4	2.95652	42.4	41.9	9.7	52.1	51.6	73.0	60.0	20.9	8.4
5	8.8356	32.1	29.1	9.7	41.8	38.8	73.0	60.0	31.2	21.2

L1 Phase

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	o.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	4.4013	26.8	24.1	9.7	36.5	33.8	73.0	60.0	36.5	26.2
2	5.91258	41.8	41.1	9.7	51.5	50.8	73.0	60.0	21.5	9.2
3	7.379	39.7	37.2	9.7	49.4	46.9	73.0	60.0	23.6	13.1

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6.2 Radiated Emission

Test specification	FCC Part 15, Section 15.109(g), Class A		
Testing voltage	AC 24 V		
Test facility	10 m Chamber (#F2)		
Test distance	10 m, 3 m		
Date	2013. 05. 27		
Temperature (°C)	24 °C	Humidity (% R.H.)	38 % R.H.
Remarks	Complied		

6.2.1 Limits of radiated emission measurement

Frequency [㎒]	Class A (dB(㎶/m)) @ 10 m	Class B (dB(㎶/m)) @ 3 m
30-88	39	40
88-216	43.5	43.5
216-960	46.4	46
Above 960	49.5	54

*** Note- Alternative standard: CISPR, Pub. 22 ***

6.2.2 Measurement procedure

The test was done at a 10 m chamber with a quasi-peak detector. EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane. Cables were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane.
Cables connected to EUT were fixed to cause maximum emission. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

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6.2.3 Used equipments

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
Test Receiver	ESCI7	100732	R&S	2014.02.18	☒
Test Receiver	ESCI	100001	R&S	2013.07.10	☐
Test Receiver	ESCI	100710	R&S	2013.11.06	☐
Bi-Log Antenna	VULB 9168	440	SCHWARZBECK	2013.10.04	☒
Amplifier	310N	293004	SONOMA INSTRUMENT	2013.11.06	☒
3 dB Attenuator	8491B	22981	HP	2014.03.19	☒
Antenna Mast	MA4000-EP	303	Innco Systems	-	☒
Turn Table	DT2000S-1t	079	Innco Systems	-	☒
Amplifier	8449B	3008A02343	AGILENT	2013.11.06	☒
Horn ANT	3115	00086706	ETS	2013.11.21	☒
Spectrum Analyzer	FSP7	100289	R&S	2013.12.14	☐

6.2.4 Sample calculation

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follow:

Result = M.R + C.F(A.F + C.L +3 dB Att – A.G)

M.R = Meter Reading

C.F = Correction Factor

A.F = Antenna Factor

C.L = Cable Loss

A.G= Amplifier Gain

3 dB Att = 3 dB Attenuator

If M.R is 30 dB, A.F 12 dB, C.L 5 dB, 3 dB, A.G 35 dB

The result is 30 + 12 + 5 + 3 – 35 = 15 dB(μV/m)

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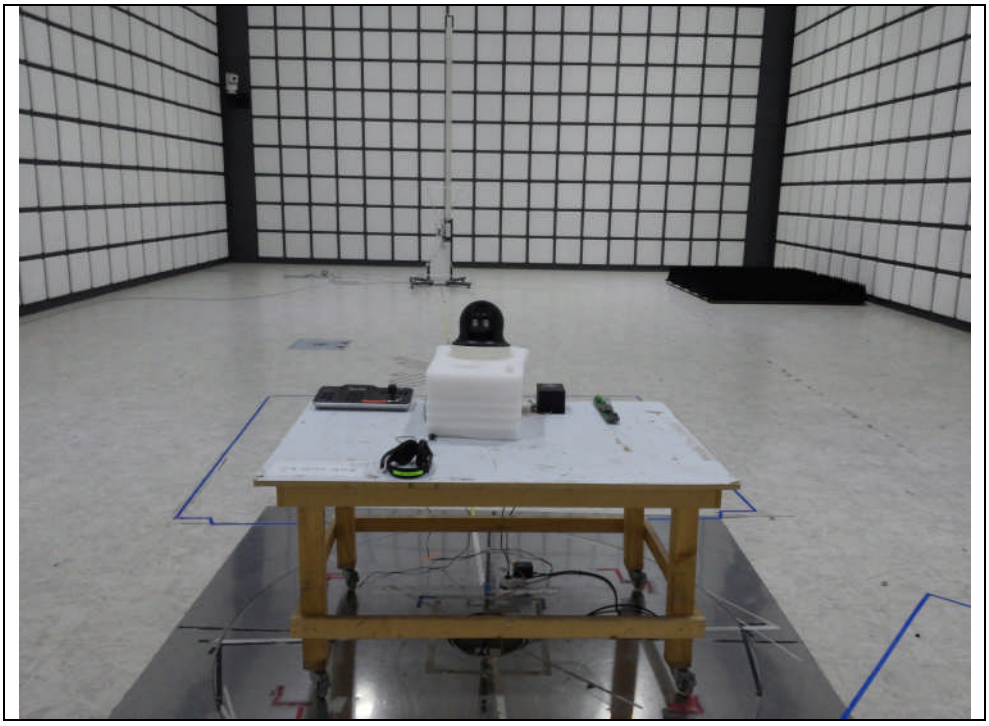
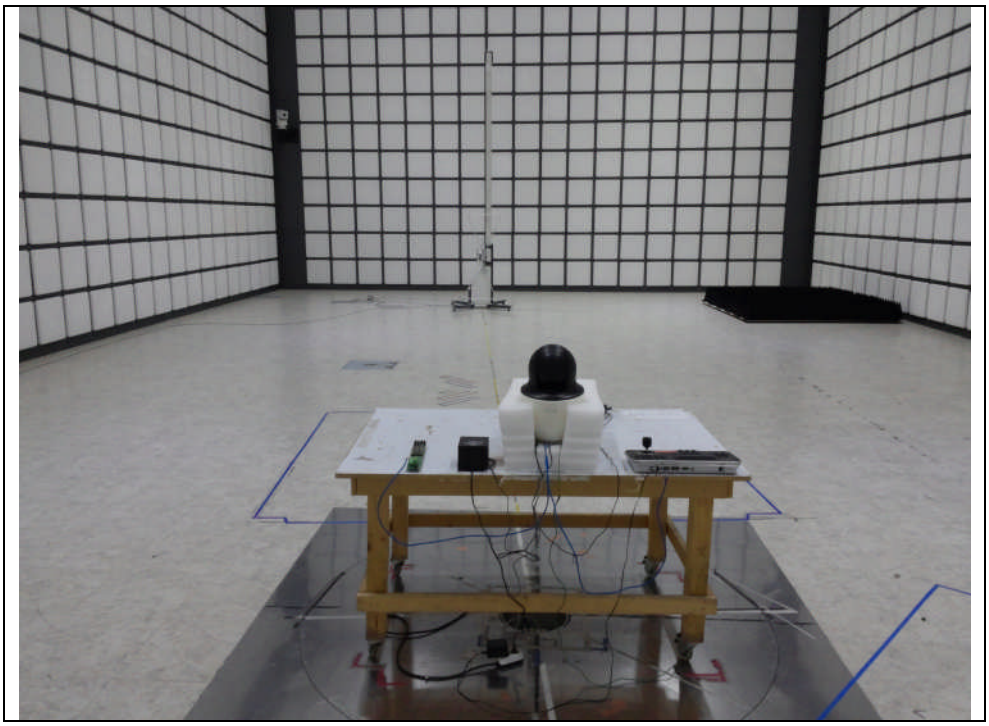
6.2.5 Photographs of test setup

* 30 ㎒ ~ 1 ㎓





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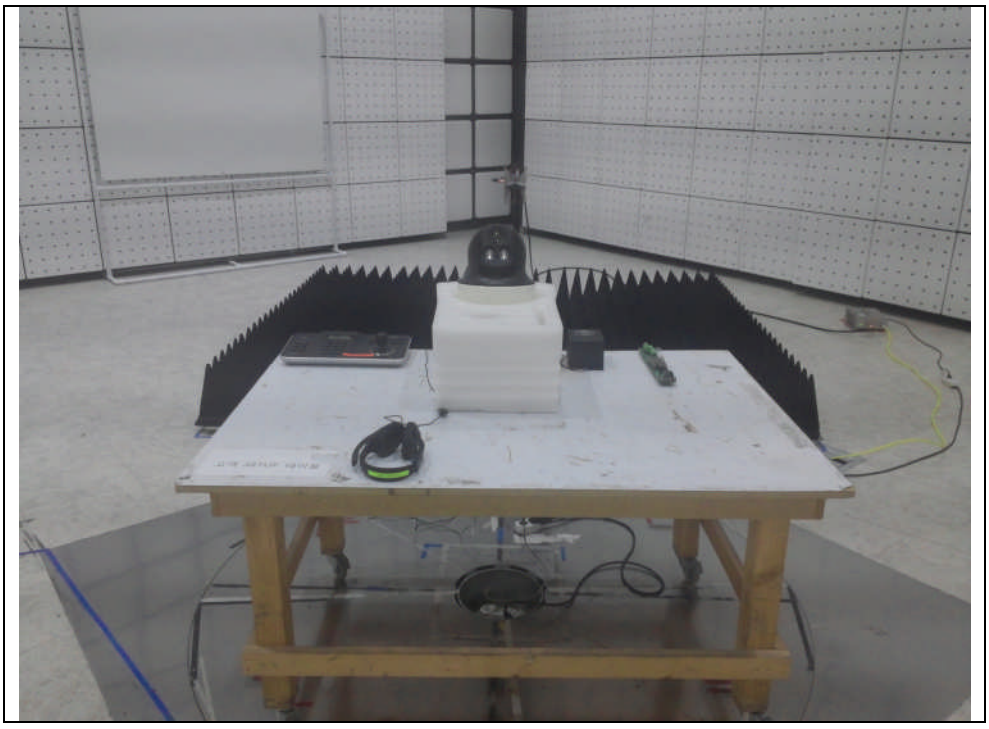
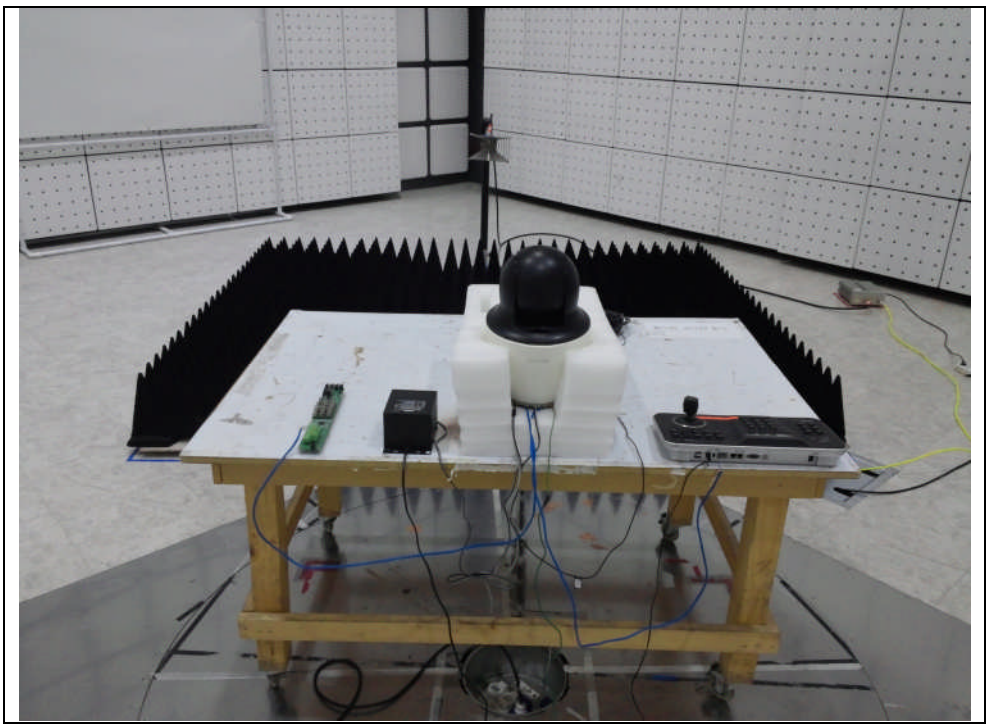
* 1 ㎓ ~ 6 ㎓





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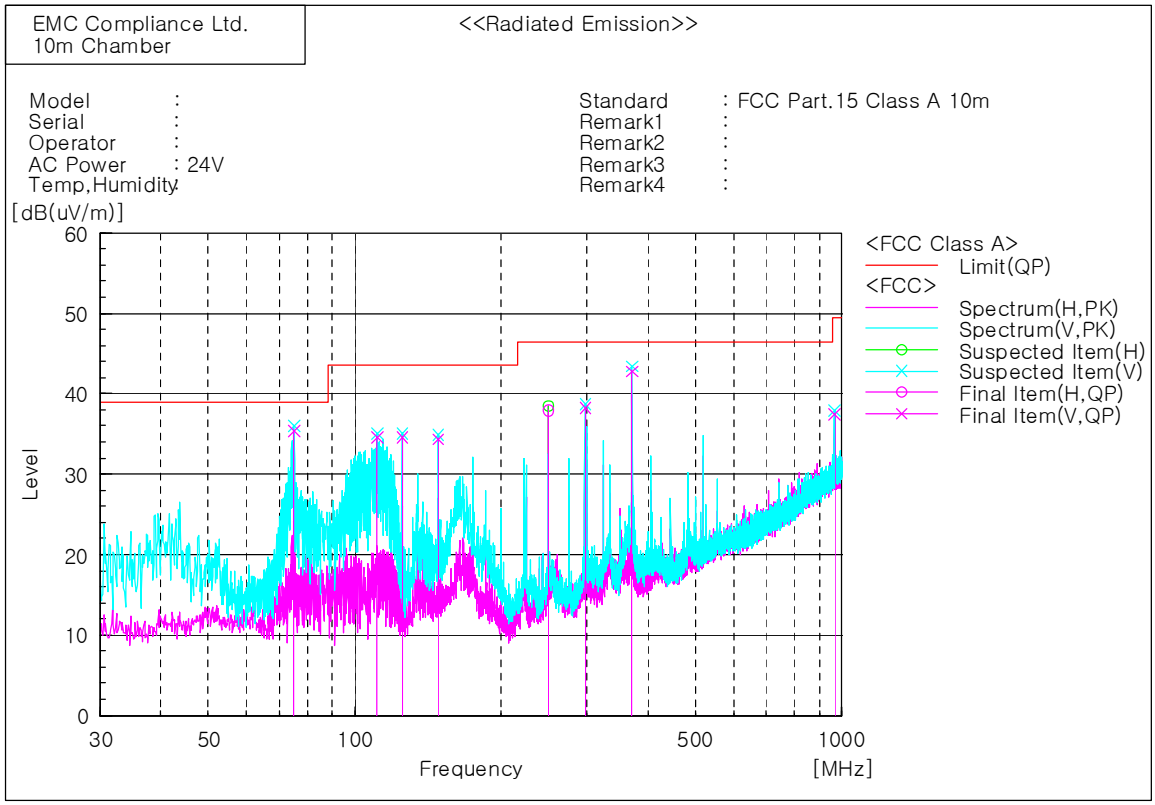
6.2.6 Radiated emission measurement result

*** Graph and Data**

* 30 ㎒ ~ 1 ㎓ (SNP-6200RHN)



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]
1	75.000	V	51.2	-15.8	35.4	39.0	3.6	100.0	193.5
2	111.238	V	50.5	-15.9	34.6	43.5	8.9	100.0	129.1
3	125.000	V	48.8	-14.2	34.6	43.5	8.9	100.0	139.6
4	148.461	V	46.9	-12.5	34.4	43.5	9.1	100.0	115.6
5	250.000	H	50.4	-12.5	37.9	46.5	8.6	400.0	21.3
6	296.993	V	48.7	-10.5	38.2	46.5	8.3	100.0	115.6
7	371.319	V	51.0	-8.2	42.8	46.5	3.7	100.0	79.6
8	965.322	V	32.0	5.5	37.5	49.5	12.0	100.0	341.8

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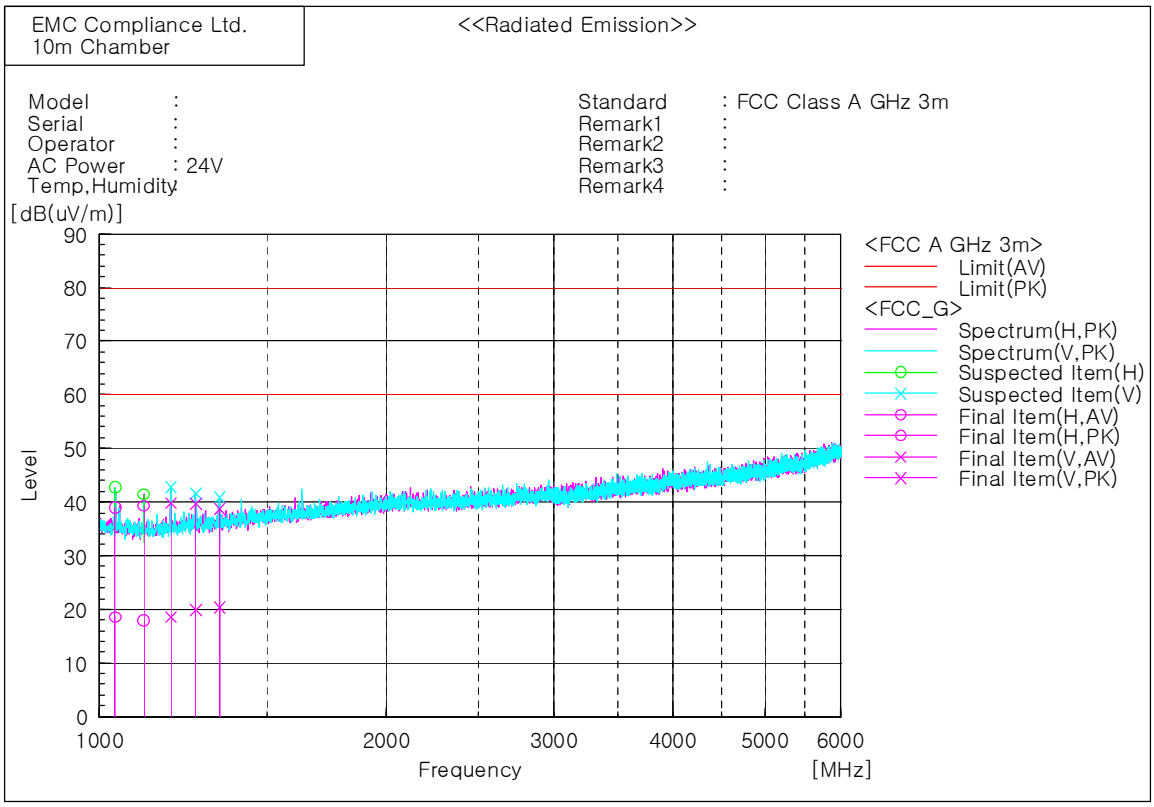
* 1 ㎓ ~ 6 ㎓ (SNP-6200RHN)



Final Result

No.	Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	c.f [dB(1/m)]	Result AV [dB(uV/m)]	Result PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]
1	1039.375	H	26.3	46.8	-7.8	18.5	39.0	60.0	80.0	41.5	41.0	100.0	30.8
2	1113.750	H	25.8	47.2	-7.9	17.9	39.3	60.0	80.0	42.1	40.7	100.0	30.8
3	1188.125	V	25.6	47.0	-7.1	18.5	39.9	60.0	80.0	41.5	40.1	100.0	115.1
4	1262.500	V	26.2	46.0	-6.3	19.9	39.7	60.0	80.0	40.1	40.3	100.0	112.1
5	1336.250	V	26.1	44.5	-5.8	20.3	38.7	60.0	80.0	39.7	41.3	100.0	348.6

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7. E.U.T. photographs

Front View

Rear View

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Left View

Right View

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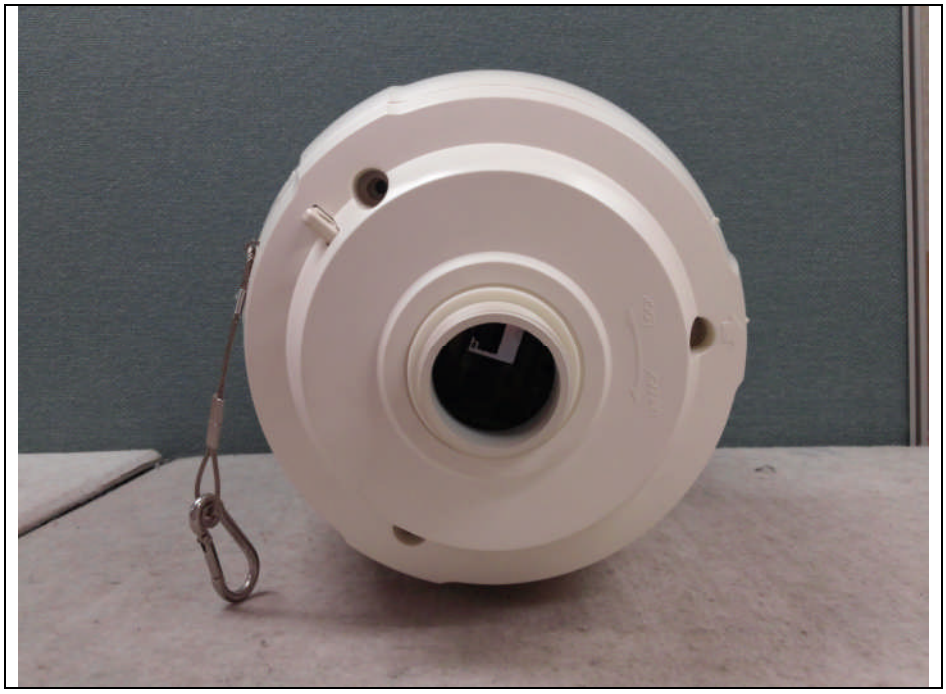
Top View

Bottom View



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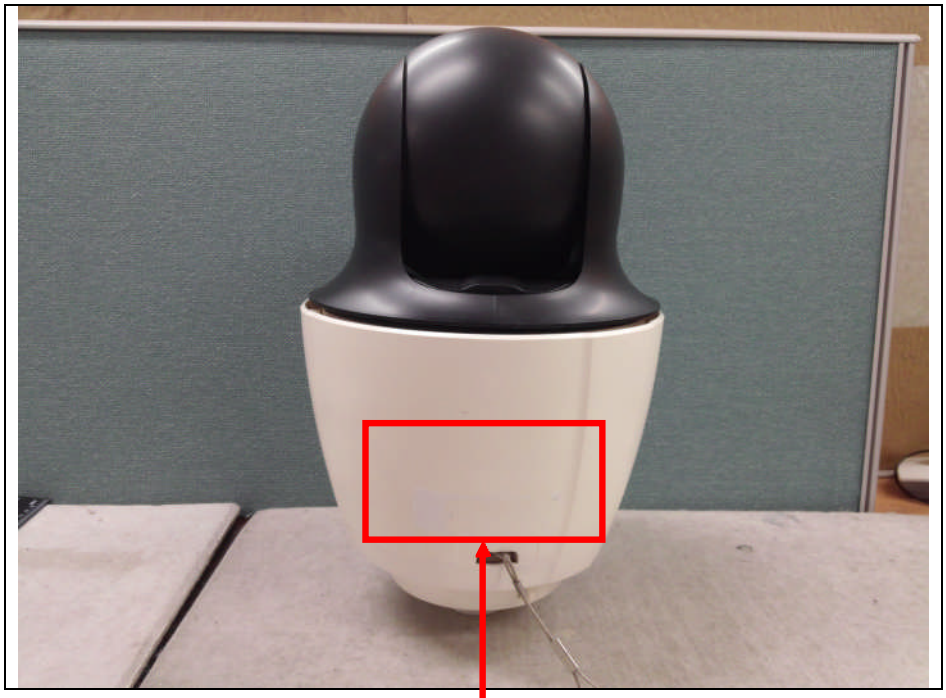
Label



FCC Label Location

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.

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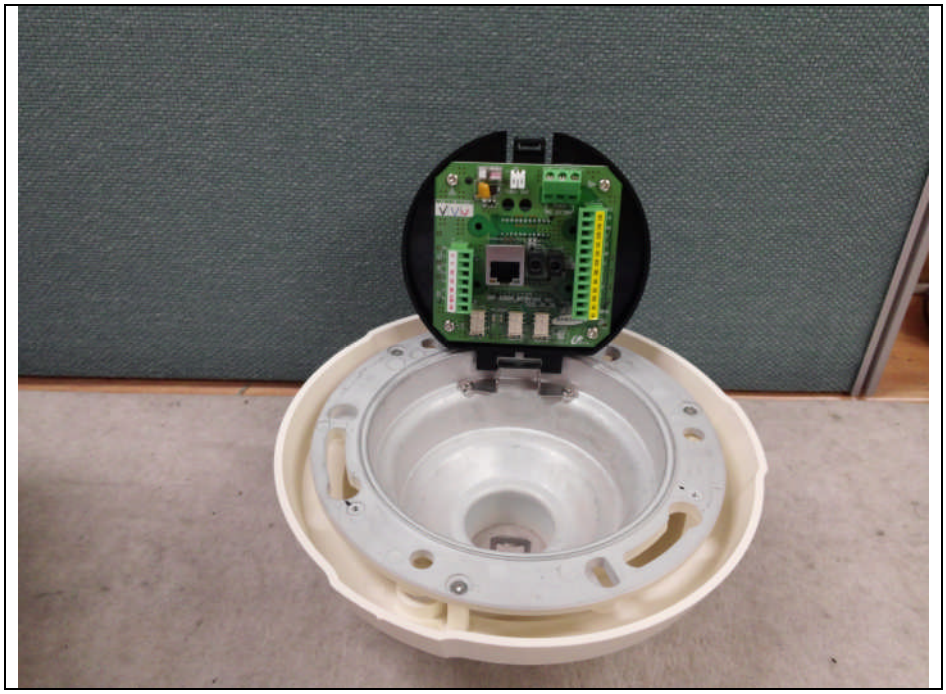
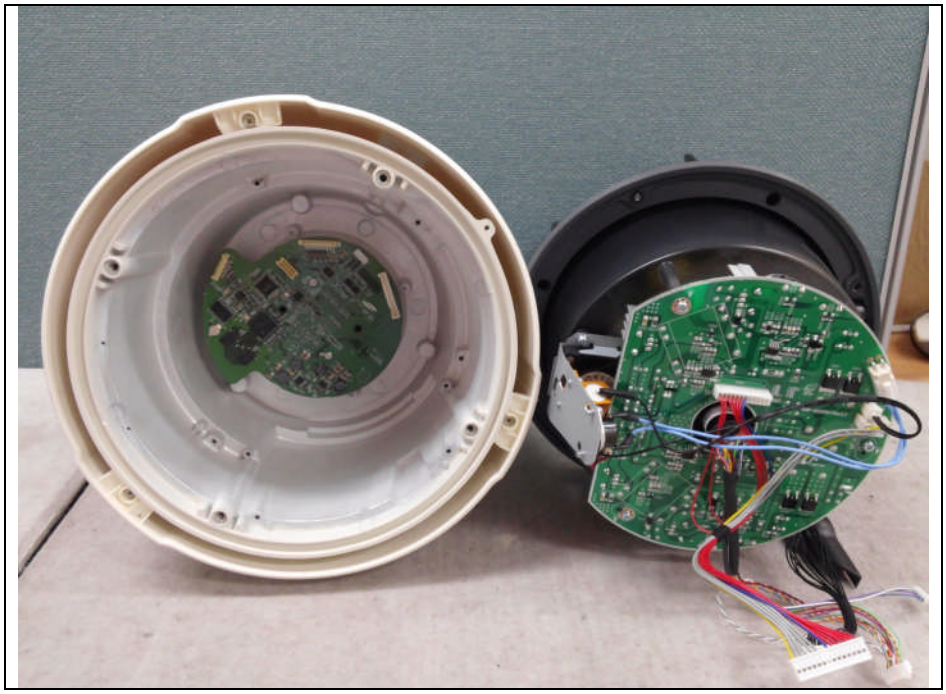
Inside





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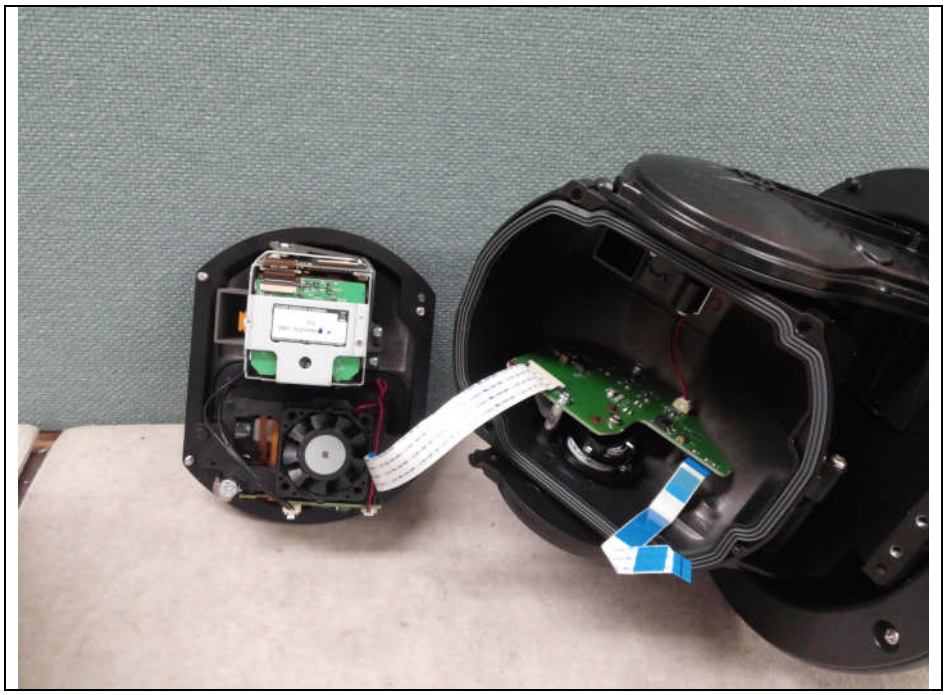

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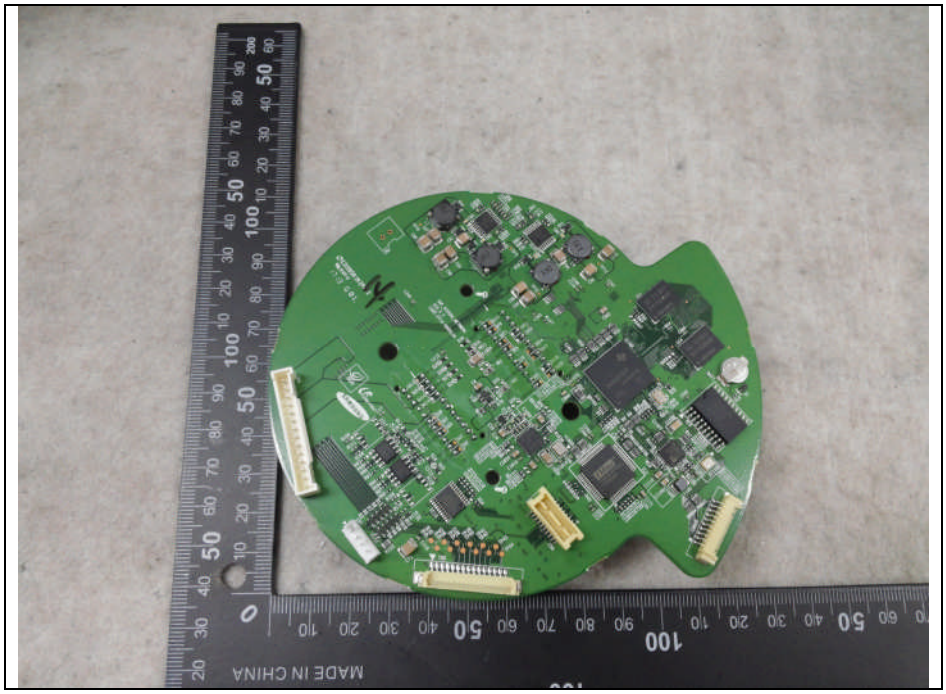
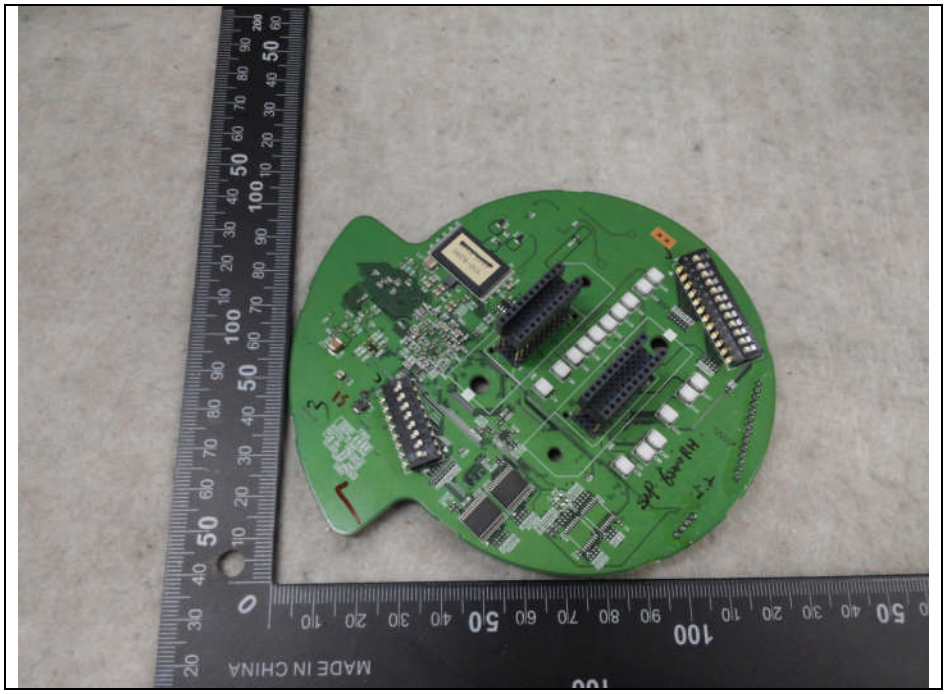
Connector Board





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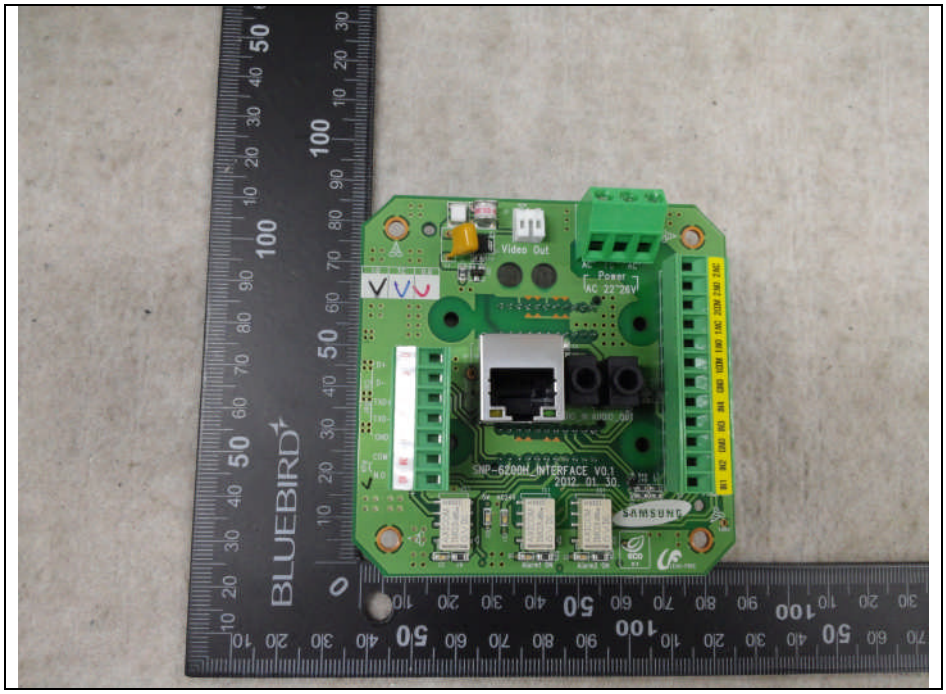
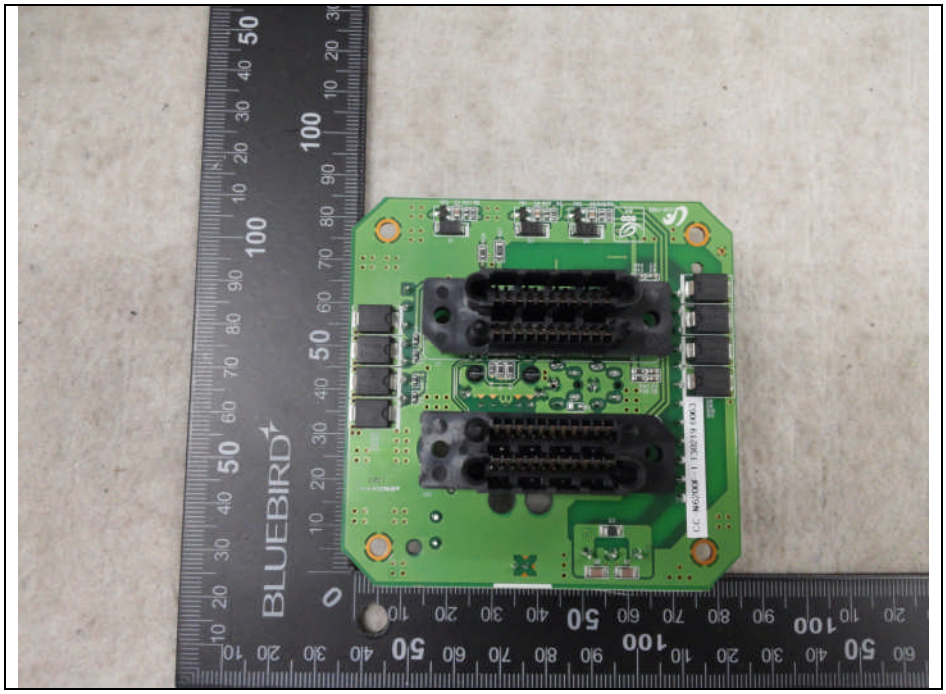
Interface Board





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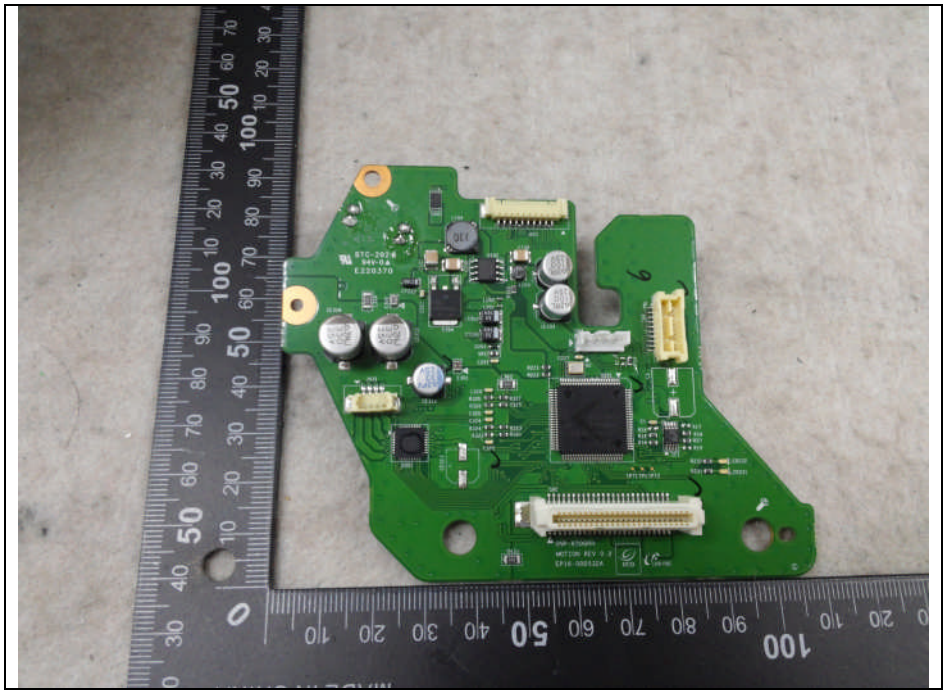
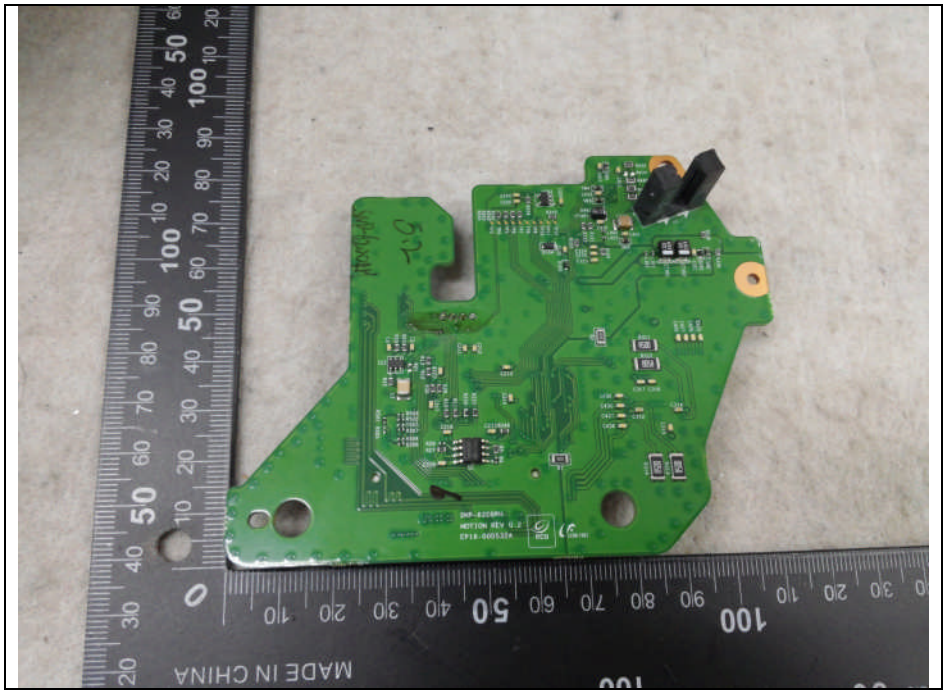
Motion Board





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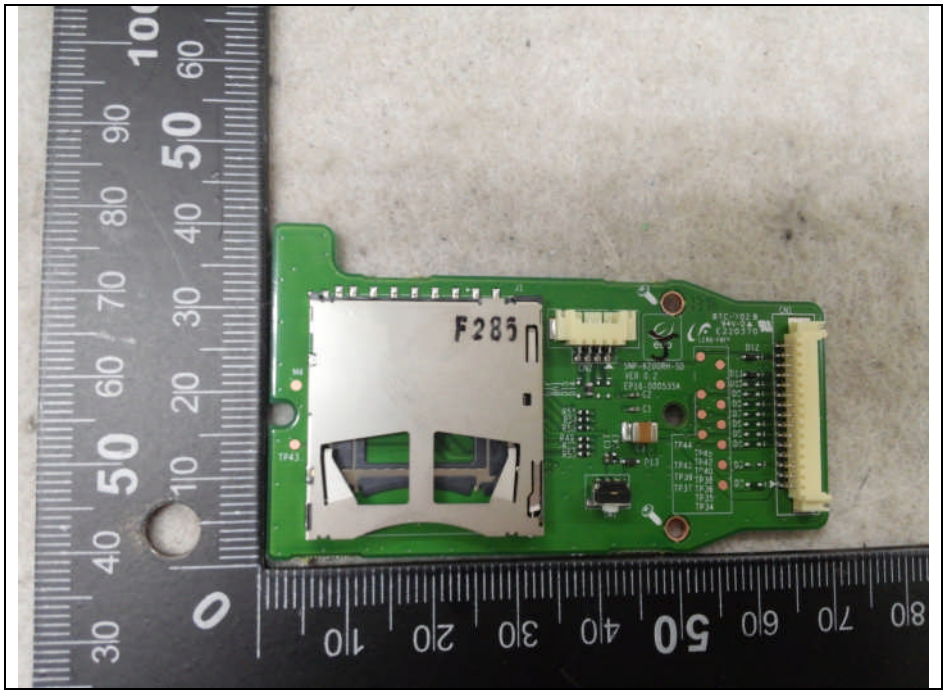
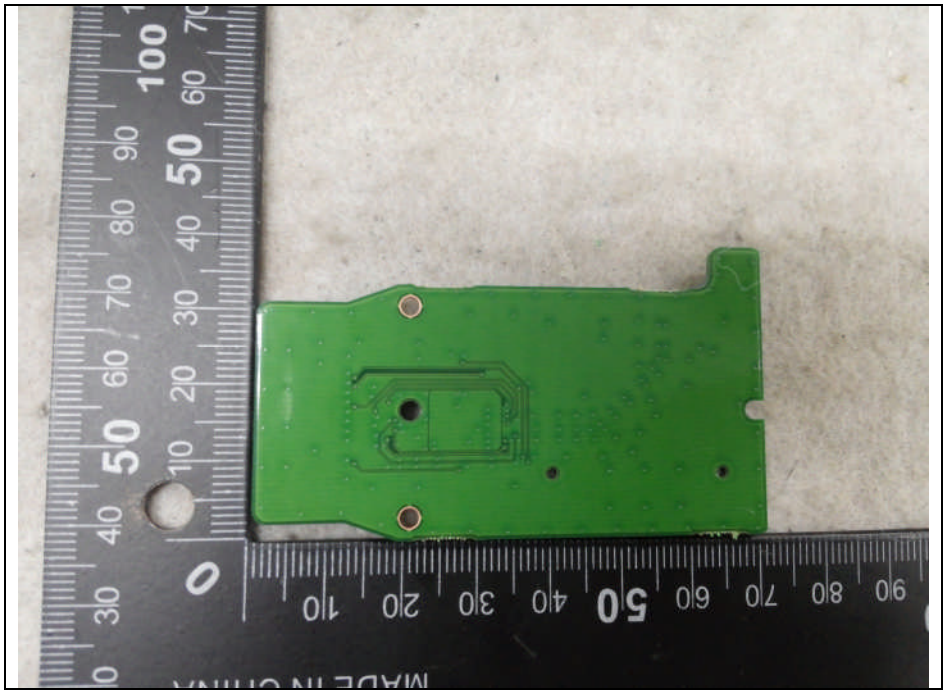
SD Card Board





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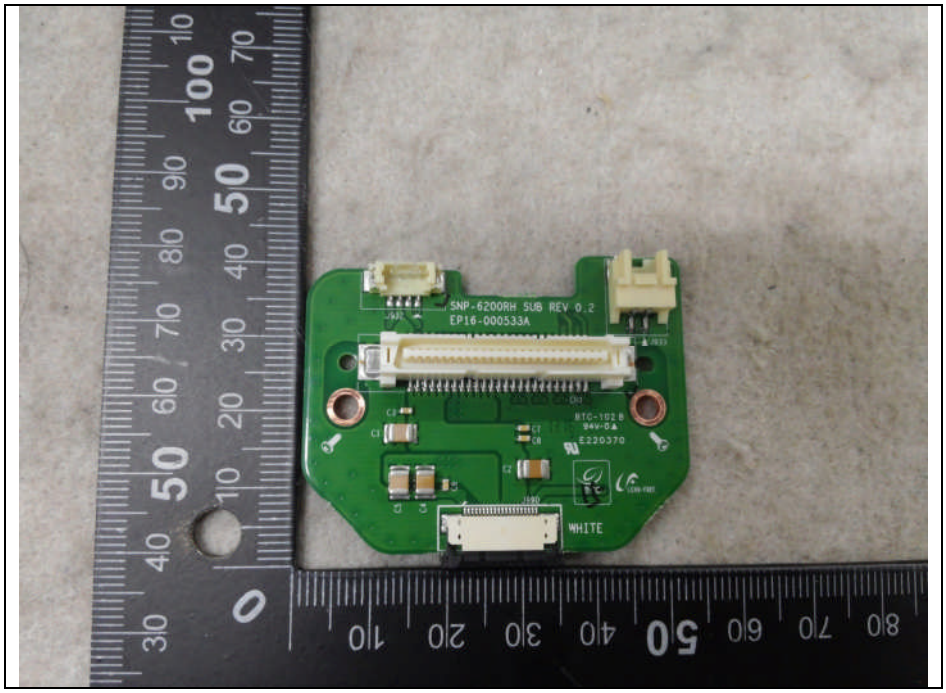
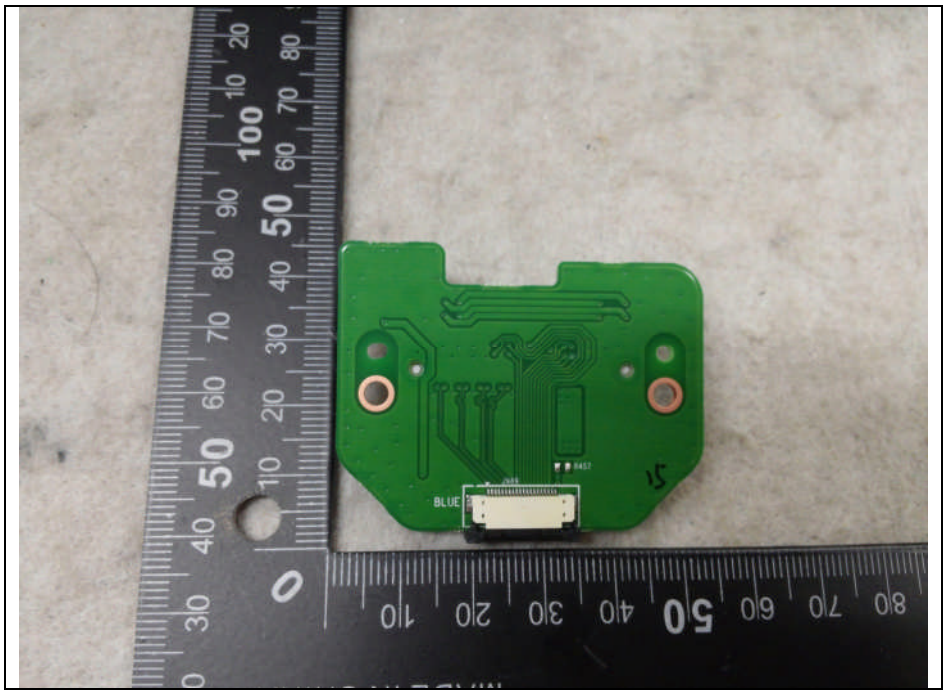
SUB Board





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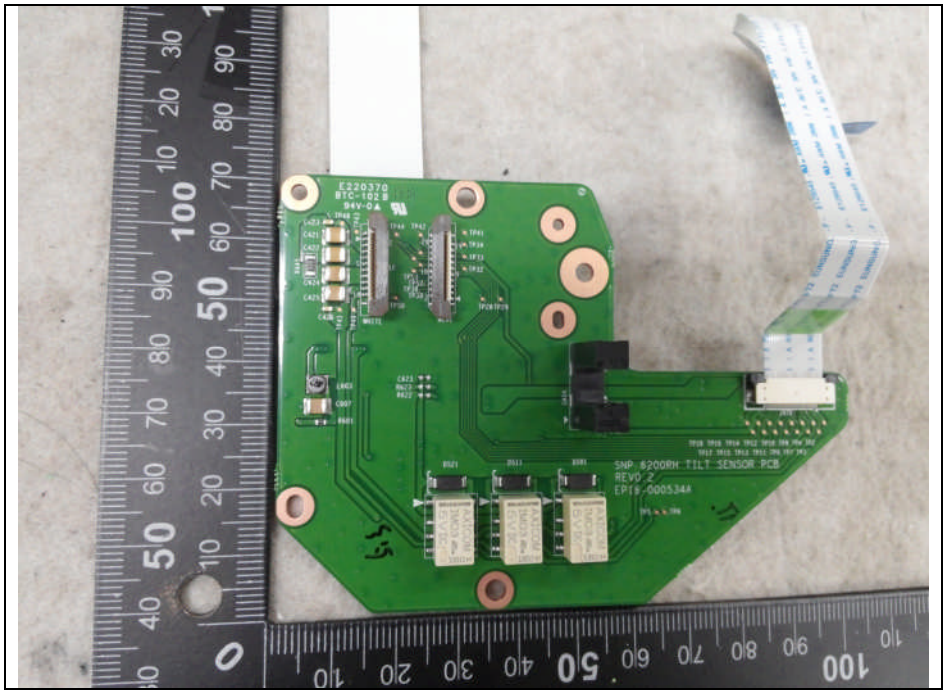
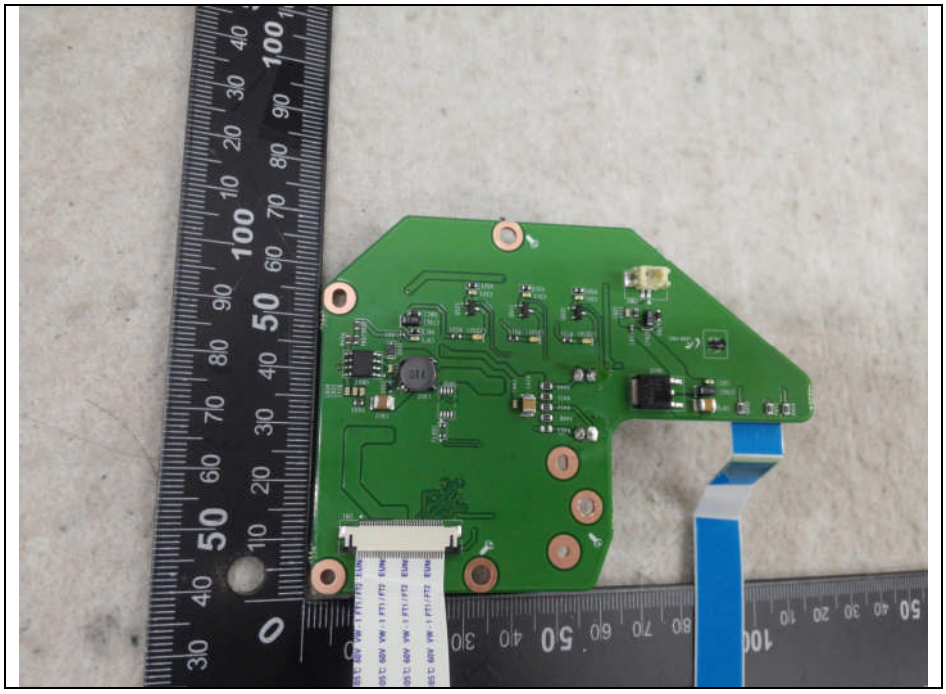
TILT Sensor Board





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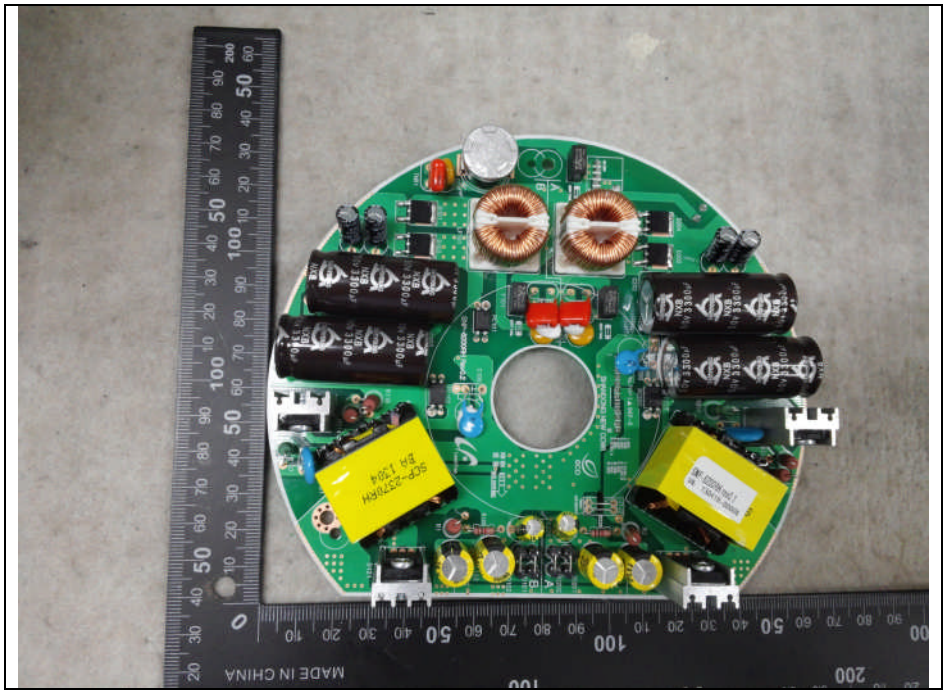
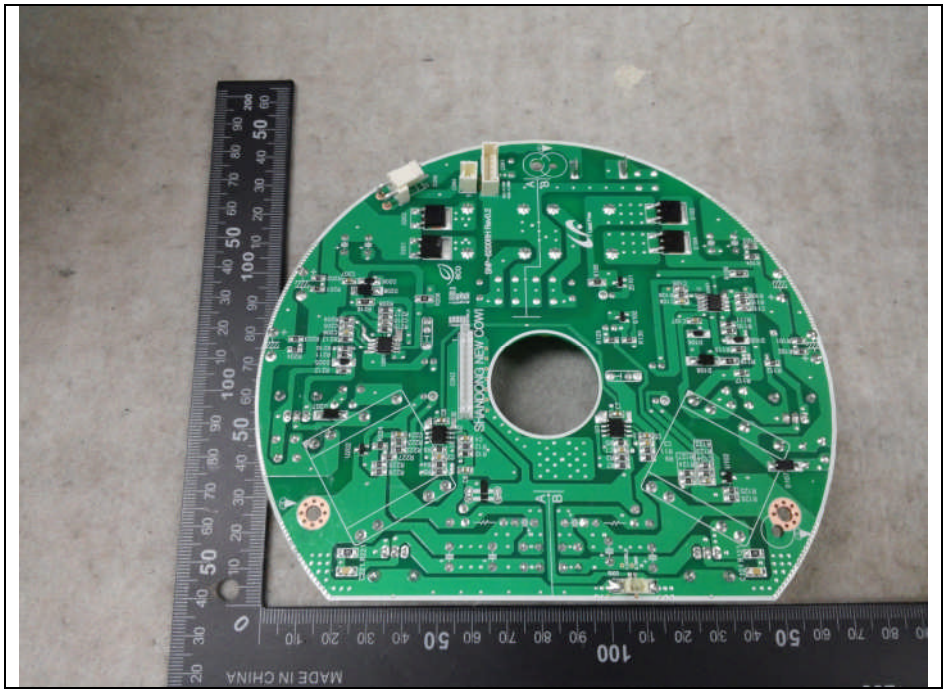
Power Board





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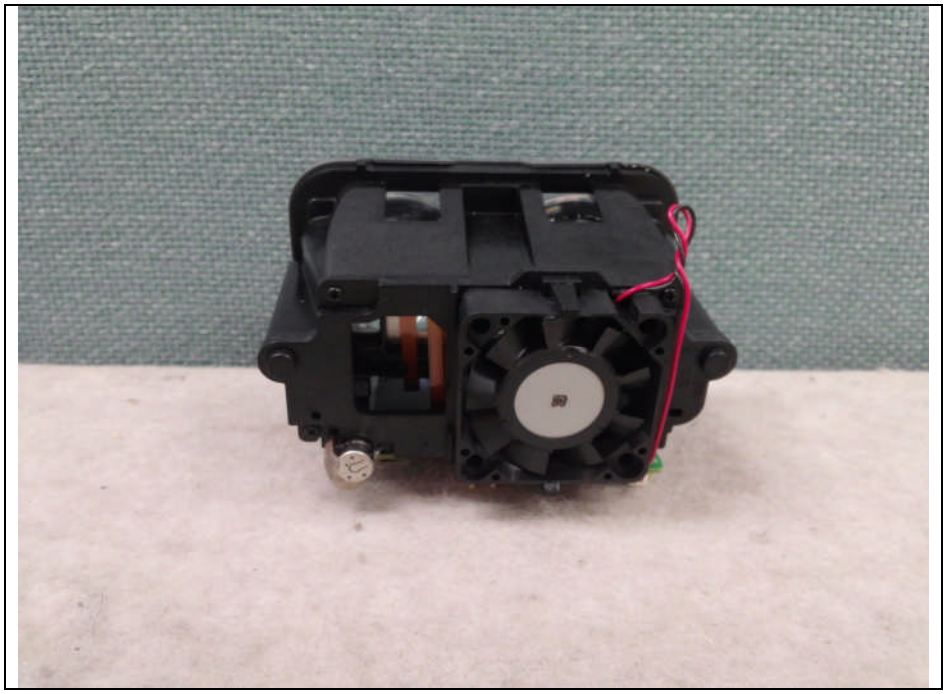
IR Sensor



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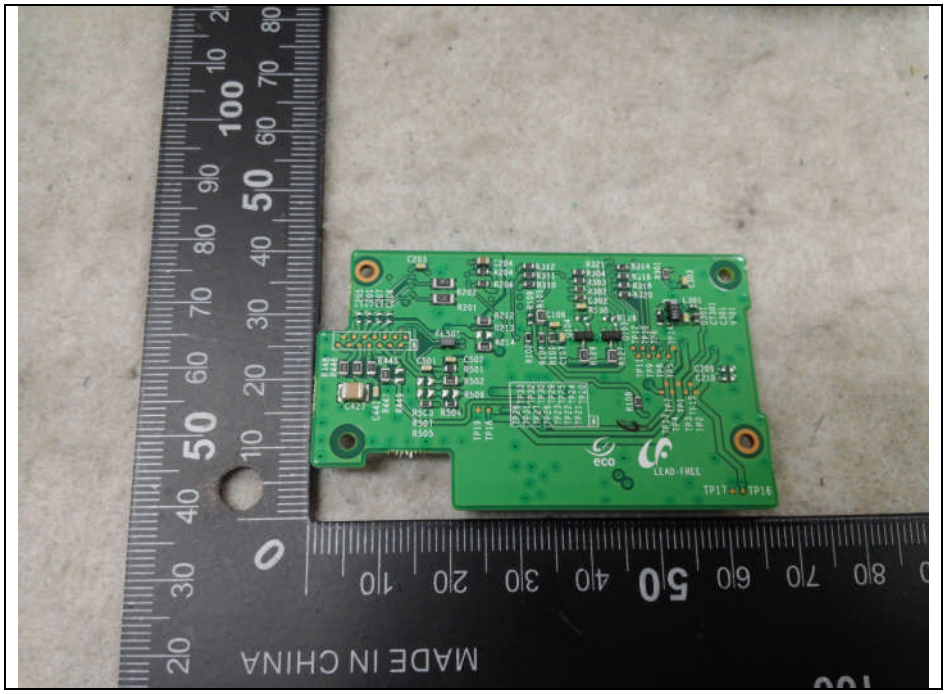
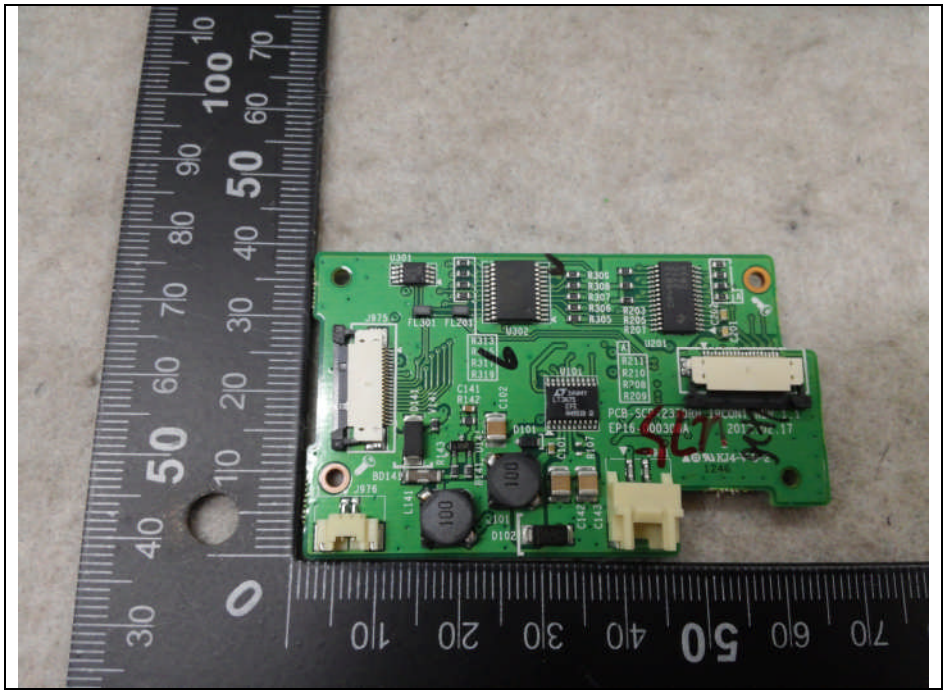
IR Sensor (IR Control Board)





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Lens

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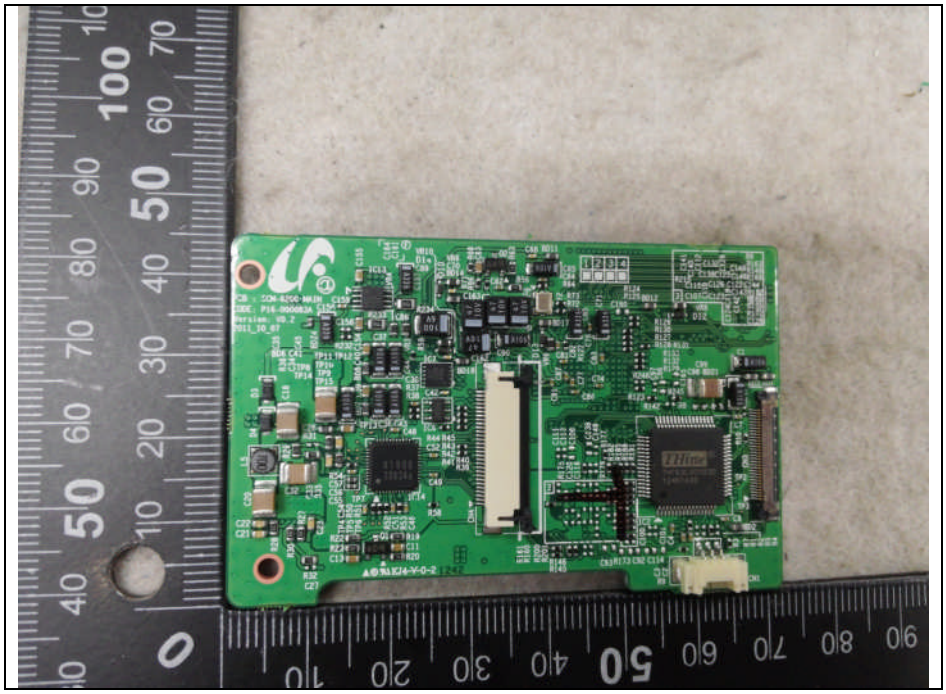
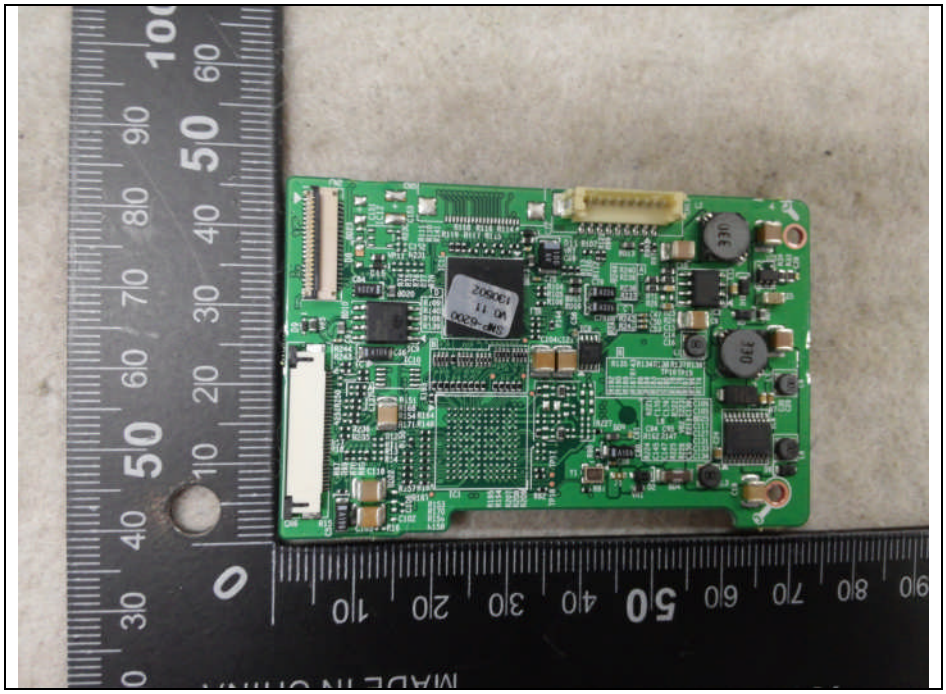
Lens (Main Board)





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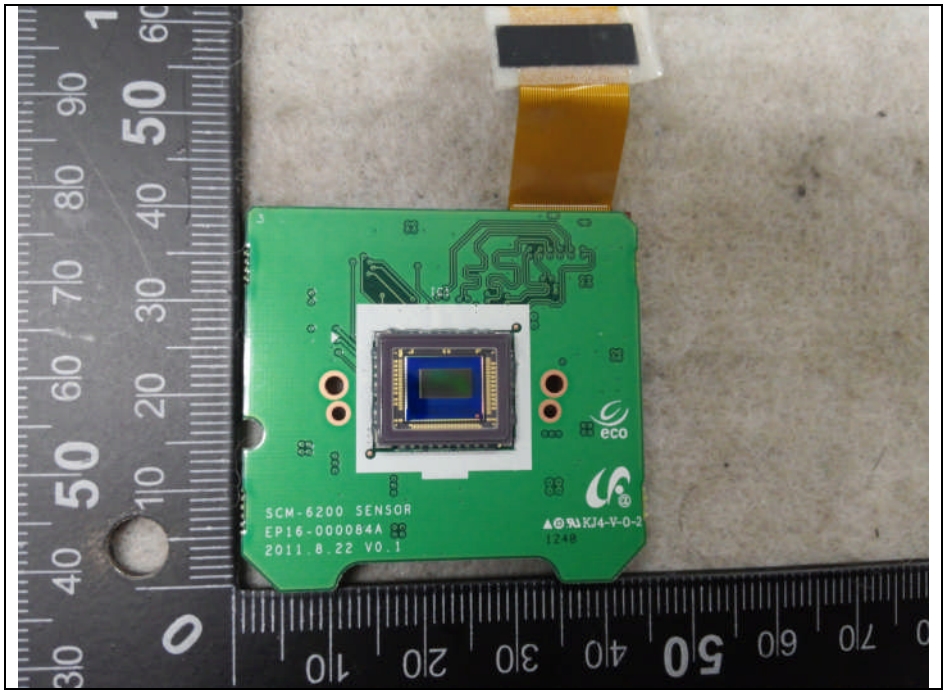
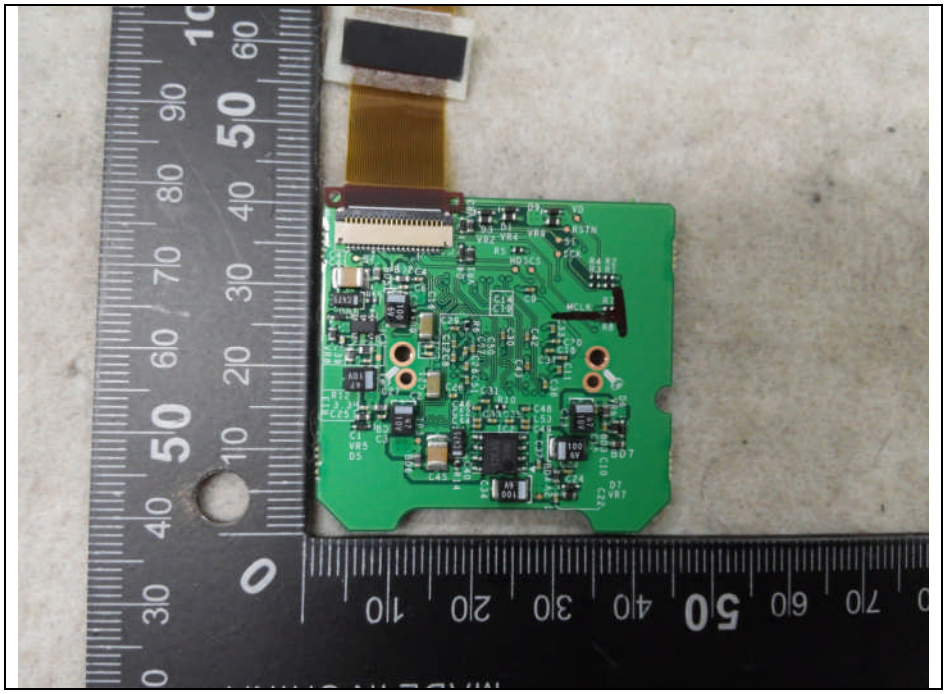
Lens (Lane Board)





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