



TEST REPORT



Report No. : KES-EM240417

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KES Co., Ltd.

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1. Client

Applicant : Hanwha Vision Co., Ltd

Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do,
Republic of Korea

2. Sample Description

Product name : NETWORK CAMERA

Model/Type No. : TNV-C8011RW

Variant Model : -

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 Ward,
Bac Ninh City, Bac Ninh Province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do, Korea
(Suwon Industrial Complex)

3. Date of Receipt : Jan. 31, 2024

4. Test date : Feb. 01, 2024 ~ Feb. 02, 2024

5. Date of Issue : Feb. 15, 2024

6. Test Results : In Compliance

Tested by

Reviewed by

Jae Won, Lee
EMC Test Engineer

Dae Jung, Choi
EMC Technical Manager

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

**REPORT REVISION HISTORY**

Date	Test Report No.	Revision History
Feb. 15, 2024	KES-EM240417	Issued

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1.0 General Product Description

Main Specifications of EUT are:

TNV-C8011RW			
Video		Digital Noise Reduction	SSNR V, WiseNR II (Based on AI engine)
Imaging Device	1/2.8" progressive 5 MP CMOS	Digital Image Stabilization	None
Resolution	2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	Defog	None
Max. Frame rate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps@5MP Max. 5fps	Motion Detection	8ea, 8point Polygonal zones
NETD	None	Privacy Masking	32ea, 4point quadrangle zones
Pixel Size	None	Gain Control	Low / Middle / High
Min. Illumination	Color: 0.038Lux(F1.6, 1/30sec, 30IRE) BW: 0.0038Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)	White Balance	ATW / AWC / Manual / Indoor / Outdoor
Video Out	USB: Micro USB Type B, 1280x720 for installation	LDC	Support
Video Transmission Distance	None	Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1/5~1/12,000sec)
Lens		Digital PTZ	Support
Focal Length (Zoom Ratio)	1.6mm fixed focal	Video Rotation	Flip, Mirror, Hallway view(90°/270°)
Max. Aperture Ratio	F1.6	Analytics	Classified object type: Person/Face/ Vehicle Attributes: VehicleType(car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Shock detection, Virtual area(Appear/Disappear) * Some of the video analytics only works with people and vehicle detection
Angular Field of View	H: 175° / V: 125° / D: 175°		
Min. Object Distance	0.3M		
Focus Control	Fixed		
Lens Type	None		
Mount Type	None		
Optional Lens	None		
Pan / Tilt / Rotate		Business Intelligence	Based on AI engine: People counting, Vehicle counting, Queue management, Heatmap
Pan / Tilt / Rotate Range	- / -25°~+25° / -	Serial Interface	None
Pan Range	None	Alarm I/O	None
Pan Speed	None	Alarm Triggers	Analytics, Network disconnect
Tilt Range	None	Alarm Events	When alarm trigger occurred - File upload(image) : e-mail/FTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP)
Tilt Speed	None		
Rotate Range	None		
Sequence	None	Audio Streaming	None
Preset Accuracy	None	Audio In	Built-in mic only
Operational		Audio Out	None
Camera Title	Displayed up to 85 characters	Light Type	None
Direction Indicator	None	Light Viewable Length	None
Day & Night	Auto(ICR)	Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API)
Backlight Compensation	BLC, WDR, SDR	Security	
Wide Dynamic Range	120dB	OS / Firmware Protect	Secure boot, Signed firmware, Firmware encryption
IR Viewable Length	15m(49.21ft)	User authentication	Digest Authentication, Prevent brute-force attack
IR Illuminator (Optional)	None	Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)
IR Radiation angle	None	Secure Communication	HTTPS, SRTP, WSS(Websocket secure)
IR LED	None	Access Control	Access control based on IP address
IR Wavelength	long-life 850 nm IR LED	Data Protect	Authentication information encryption, ZIP compression encryption
IR Operation	None	Audit	User Access/System/Event log management
Water Removal	None	Device ID	Device Certificate(Hanwha Private Root CA)
Auto Tracking	None	Secure Storage	SDcard partition encrypt
Coaxial Protocol	None	Security Certificate	None
Color Palettes	None	General	
Radiometry		Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Temperature Detect Range	None	Web Viewer	None
Temperature Accuracy	None	Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Temperature Detection	None	Memory	2GB RAM, 1GB Flash
Additional	None	Environmental & Electrical	
Network		Operating Temperature / Humidity	-30°C ~ +55°C/-22°F ~ +131°F / Less than 95% RH
Ethernet	RJ-45(10/100BASE-T)	Storage Temperature / Humidity	-30°C ~ +60°C/-22°F ~ +140°F / Less than 95% RH
Video Compression	H.265/H.264: Main/High, MJPEG	Certification	IP66, IK10
Audio Compression	G.711 u-law / G.726 Selectable	Input Voltage	PoE(IEEE802.3af, Class3)
	G.726(ADPCM) 8KHz, G.711 8KHz	Power Consumption	Max 11.5W / Typ 4.8W
	G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps	Mechanical	
Smart Codec	AAC-LC: 48Kbps at 16KHz	Color / Material	White / Aluminum Hard-coated dome bubble
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Quality Level control	RAL Code	RAL9003
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR	Product Dimensions / Weight	80(W)x167(H)x57(D)mm(31.5x65.6x22.4"), 600g(1.32 lb)
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles)	Compatible Conduit hole / Gang	Conduit hole : None Gangbox : Single
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, UPnP, Bonjour, LLDP, CDP, SRTP (TCP, UDP Unicast), MQTT	Hanging Mount (Dome)	TBD
SIP support (VoIP, Peer-to-peer)	None	Skin Cover	None
Security	None	Skin Cover (Dome)	None
		Weather Cap (Dome)	None



Power Module	None
Backbox	None
Ceiling Mount (Assy)	None
Wall Mount	None
Pole Mount	None
In-ceiling Mount	None
Parapet Mount	None
Corner Mount	None
Tilt Mount	SBV-140TBW
Housing (Box)	None
Cabinet	None
Gang Plate	None
Conduit Adaptor	None
Other Compatible Models	None
Certifications & Standards	
Network	None
EMC	EN 55032:2015/A11:2020 EN 50130-4:2011/A1:2014 FCC 47 CFR Part 15, Subpart B Class A IC Regulation ICES-003 Issue 7 Class A KS C 9832:2023 KS C 9835:2019 AS/NZS CISPR 32 Class A VCCI CISPR 32 Class A
Safety	UL 62368-1, CSA C22.2 NO. 62368-1 KC 62368-1
Environment	IEC EN 60529: 1989+A1:1999+A2:2013 IEC EN 62262:2005 IEC EN 63000:2018
Video	None
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	TBD
Observe (63PPM/ 19PPF)	TBD
Recognize (125PPM/ 38PPF)	TBD
Identify (250PPM/ 76PPF)	TBD
LPR/ANPR/MMCR	
Speed Description	None
Speed limit	None
Min. Forward Distance	None
Max. Forward Distance	None
Max. Horizontal Angle	None
Max. Vertical Angle	None
Horizontal Offset	None
Camera Height	None
Lane Coverage	None
Vehicle Recognition	None
Available Countries	None
Wisenet Road AI LPR/ANPR/MMCR	
Solution	None
Speed Description	None
Lane Coverage	None
Speed limit	None
Min. Forward Distance	None
Max. Forward Distance	None
Max. Horizontal Angle	None
Max. Vertical Angle	None
Horizontal Offset	None
Camera Height	None
Vehicle Recognition	None
Available Countries	None
Ver	202312



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.

☒ PoE

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	TNV-C8011RW	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Laptop	LG15U590	-	LG Electronics Co., Ltd.	-
Laptop Adapter	A13-040N3A	-	CHICONY POWER TECHNOLOGY (Chongqing) CO., LTD.	-
PoE Injector	PT-PSE109GBRO-AH	-	Dongguan PROCET Network Technology Co.,Ltd	-
Micro SD Card	-	-	Sandisk	32 GB

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	Micro SD Slot	Micro SD Card	Micro SD Slot	-	-
	RJ-45(PoE)	PoE Injector	RJ-45(PoE)	3.5	U
PoE Injector	RJ-45(LAN)	Laptop	RJ-45(LAN)	2.0	U
Laptop	DC Jack	Laptop Adapter	DC Jack	1.6	U

* Unshielded=U, Shielded=S

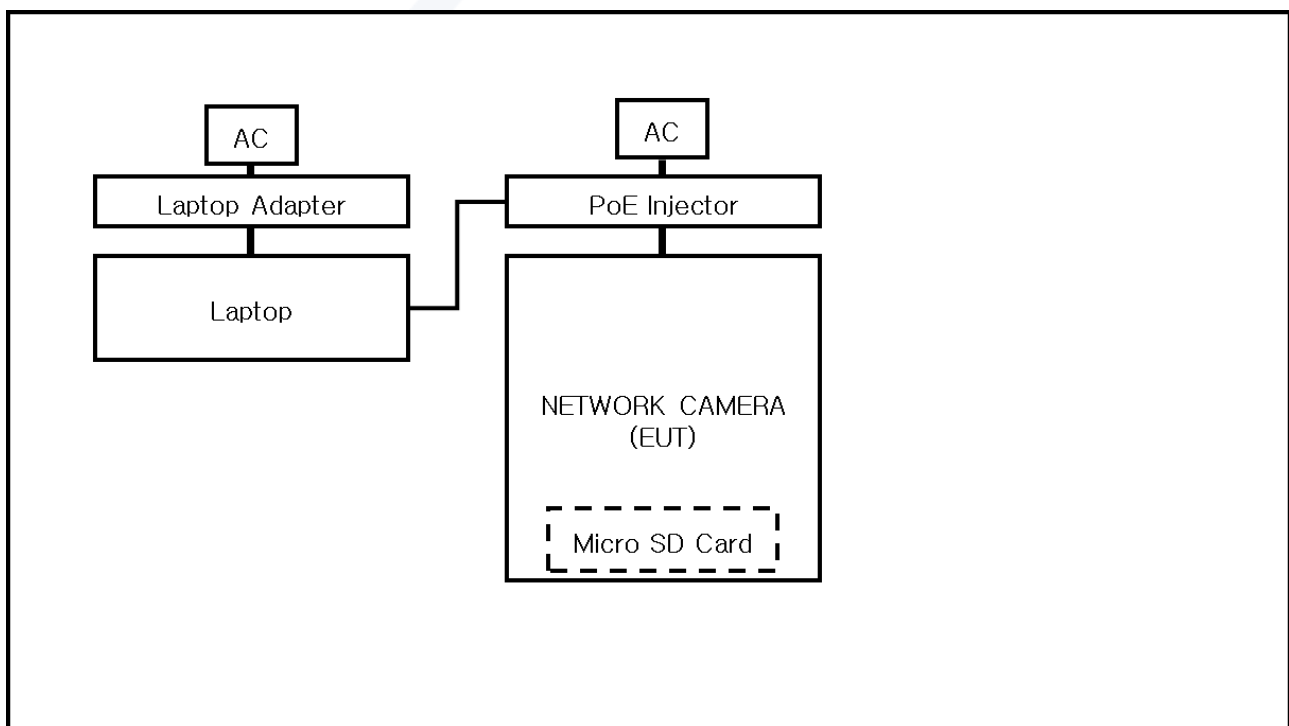


1.7 EUT Operating Mode(s)

Test mode	operating
Operating	1. Monitoring EUT Using Web Viewer, Ping Test 2. After testing, checked the files stored on Micro SD card.

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

1.8 Configuration





1.9 Remarks when standards applied

- It receives PoE power, and the PoE port is considered a wired network port. Test items related to the power port are not applicable.
- The Micro 5 Pin port is for administrator use, so it is not tested.

-Port picture for administrator



1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.



1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.12 Laboratory Accreditations and Listings

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



2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **VCCI-CISPR 32:2016**

☒ Class A

☐ Class B





2.1 Conducted Emissions Mains Power Ports

Test Date

N/A

Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input type="checkbox"/>	EMI Test S/W	EMC32	R & S	9.12.00	-
<input type="checkbox"/>	EMI TEST RECEIVER	ESR3	R & S	101783	11, 08, 2024
<input type="checkbox"/>	LISN	ENV216	R & S	101787	11, 08, 2024
<input type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	11, 08, 2024
<input type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 08, 2024

Test Conditions

Temperature:

°C

Relative Humidity:

% 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

RemarksReferto 'Remarks when standards applied'.



2.2 Conducted Emissions at Telecommunication Ports

Test Date

Feb. 02, 2024

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	11, 08, 2024
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	11, 08, 2024
<input checked="" type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	11, 08, 2024
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 08, 2024
<input checked="" type="checkbox"/>	8-WIRE ISN CAT3,5	ENY81	R & S	100174	11, 09, 2024
<input type="checkbox"/>	8-WIRE ISN CAT6	ENY81-CAT6	R & S	101665	11, 09, 2024

Test Conditions

Temperature: (22,4 ± 0,1) °C

Relative Humidity: (45,3 ± 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

RemarksSee Appendix A for test data.



2.3 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Feb. 02, 2024

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

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	R & S	100551	03, 21, 2024
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 08, 2024
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 17, 2024
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 03, 2024

Test Conditions

Temperature: (22,8 ± 0,1) °C

Relative Humidity: (45,8 ± 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

RemarksSee Appendix A for test data.



2.4 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Feb. 01, 2024

Test Location

SEMI ANECHOIC CHAMBER #3

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	ESR7	R & S	101190	07, 31, 2024
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	3008A01967	03, 06, 2024
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	35496	03, 03, 2024
<input checked="" type="checkbox"/>	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	03, 06, 2024

Test Conditions

Temperature: (22,8 ± 0,1) °C

Relative Humidity: (46,2 ± 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

N/A



NEUTRAL LINE

N/A

◆ Calculation

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

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

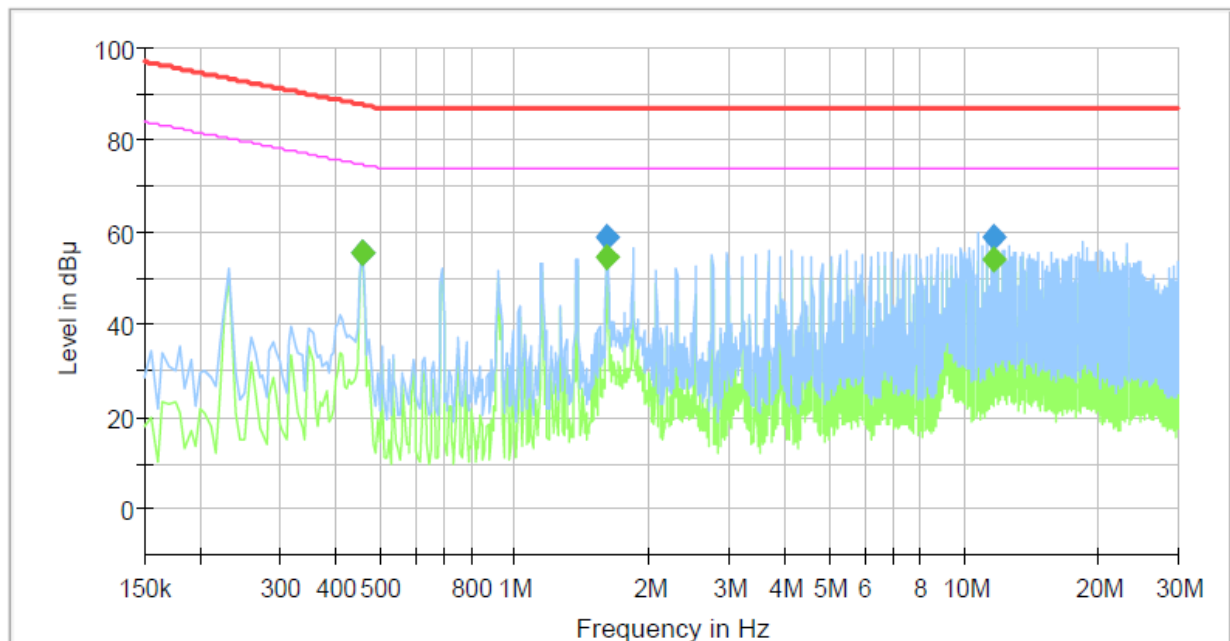
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

**Conducted Emissions at Telecommunication Ports**

[100 Mbps]

Common Information

Test Description: Telecommunication Emission
Model No.: TNV-C8011RW
Mode : PoE_TEL 100 Mbps
Speed :
Operator Name: KES

**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.460000	---	55.42	74.69	19.27	1000.0	9.000	Single Line	19.4
0.460000	55.44	---	87.69	32.25	1000.0	9.000	Single Line	19.4
1.605000	---	54.87	74.00	19.13	1000.0	9.000	Single Line	19.3
1.605000	58.93	---	87.00	28.07	1000.0	9.000	Single Line	19.3
11.710000	---	54.14	74.00	19.86	1000.0	9.000	Single Line	19.7
11.710000	58.91	---	87.00	28.09	1000.0	9.000	Single Line	19.7

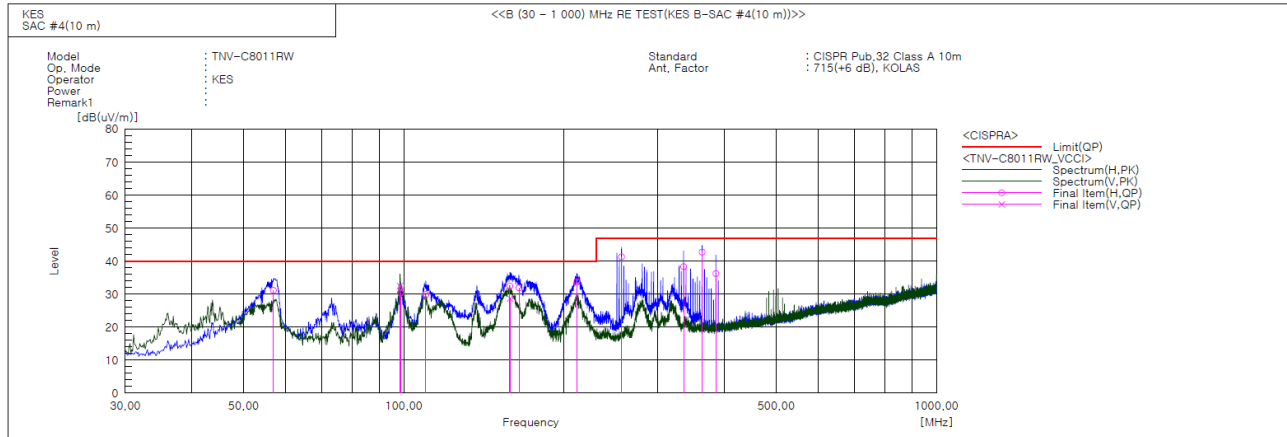
◆ Calculation

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

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

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

**Radiated Electric Field Emissions(Below 1 GHz)****Final Result**

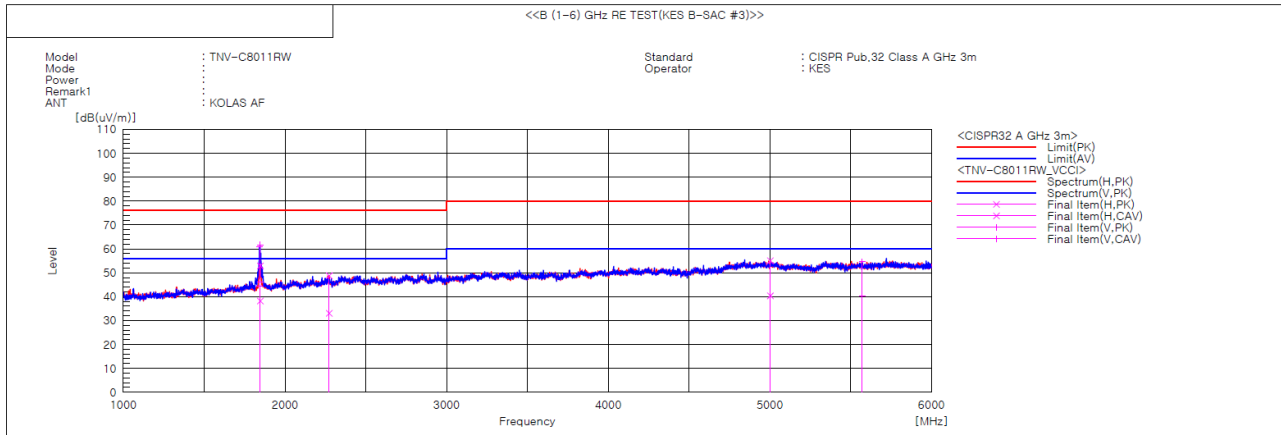
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	56.918	H	52.6	-21.5	31.1	40.0	8.9	112.0	358.0	
2	98.385	V	54.9	-22.4	32.5	40.0	7.5	145.0	337.0	
3	98.506	H	52.7	-22.4	30.3	40.0	9.7	396.0	217.0	
4	109.904	H	52.6	-22.8	29.8	40.0	10.2	196.0	194.0	
5	158.161	H	57.3	-24.9	32.4	40.0	7.6	115.0	314.0	
6	158.189	V	53.6	-24.9	28.7	40.0	11.3	112.0	273.0	
7	164.466	H	56.4	-24.5	31.9	40.0	8.1	396.0	333.0	
8	211.148	H	53.6	-19.9	33.7	40.0	6.3	196.0	35.0	
9	256.253	H	59.9	-18.6	41.3	47.0	5.7	389.0	24.0	
10	335.186	H	53.9	-15.6	38.3	47.0	8.7	191.0	243.0	
11	363.074	H	57.3	-14.6	42.7	47.0	4.3	198.0	310.0	
12	385.384	H	50.3	-14.1	36.2	47.0	10.8	396.0	356.0	

◆ Calculation

Corrected Amplitude [dBuV] = Amplitude[dBuV] + Correction Factor [dB]

Corrected Amplitude : The Final Value, Amplitude : Reading Value,

Correction Factor : ANT FACTOR + Cable loss

**Radiated Electric Field Emissions(Above 1 GHz)**

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	1842.516	V	57.9	41.3	3.1	61.0	44.4	76.0	56.0	15.0	11.6	100.0	195.4	
2	1846.728	H	49.8	35.1	3.1	52.9	38.2	76.0	56.0	23.1	17.8	100.0	197.9	
3	1846.835	V	58.5	43.1	3.1	61.6	46.2	76.0	56.0	14.4	9.8	100.0	257.8	
4	2274.062	H	43.3	27.6	5.5	48.8	33.1	76.0	56.0	27.2	22.9	100.0	353.7	
5	5003.724	H	39.8	25.1	15.3	55.1	40.4	80.0	60.0	24.9	19.6	100.0	345.6	
6	5572.516	V	39.0	24.6	15.6	54.6	40.2	80.0	60.0	25.4	19.8	100.0	236.7	

◆ Calculation

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

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

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

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



Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

N/A

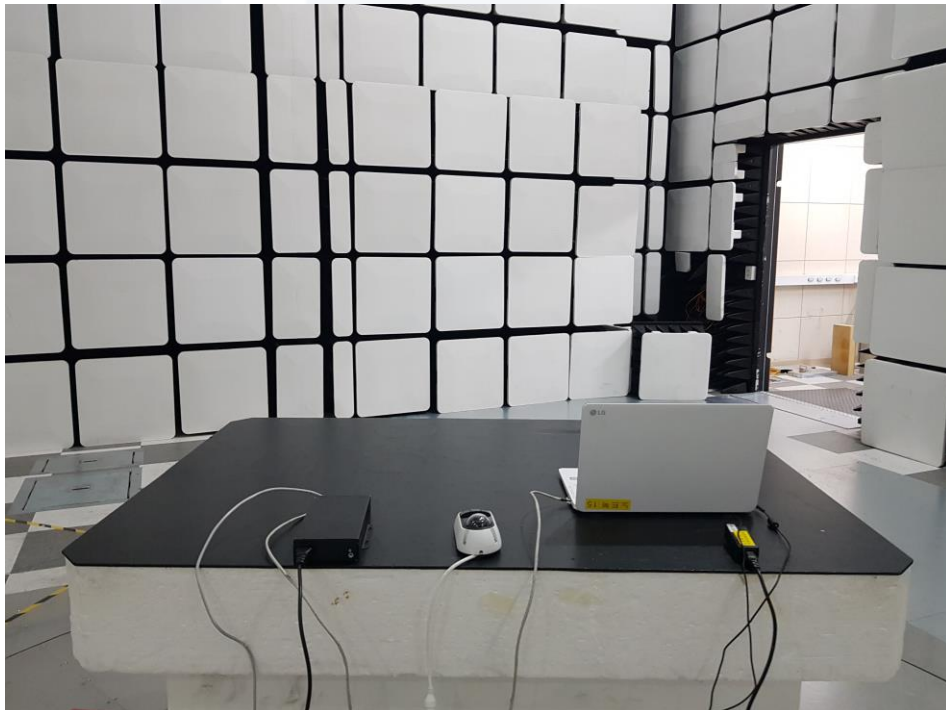
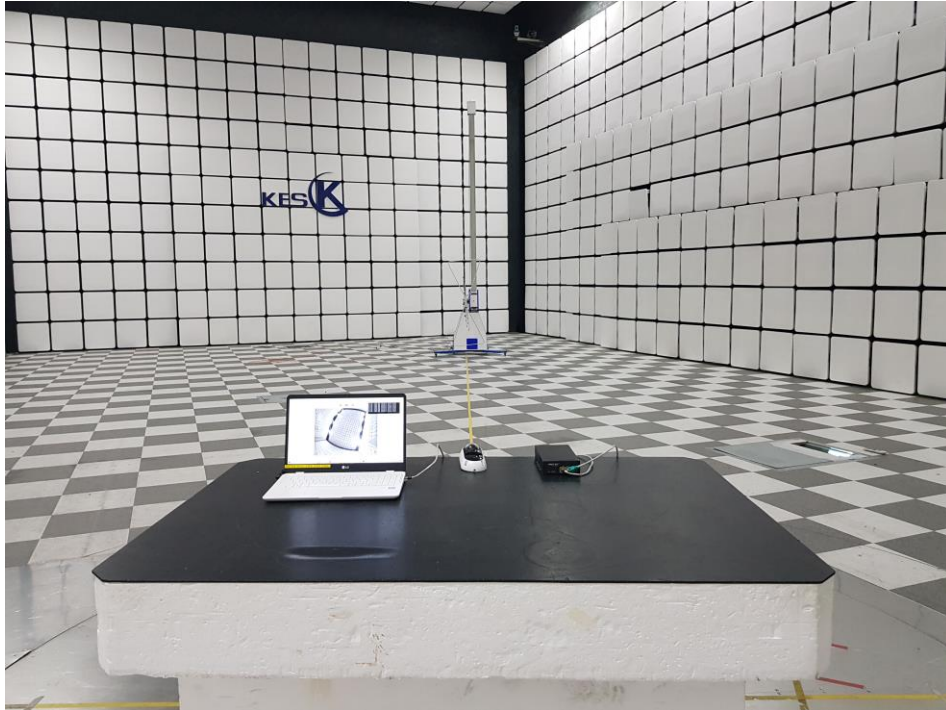


Conducted Emissions at Telecommunication Ports





Radiated Electric Field Emissions(Below 1 GHz)





Radiated Electric Field Emissions(Above 1 GHz)





EUT External Photographs

(Top)



(Bottom)





EUT Internal Photographs

(Internal View)



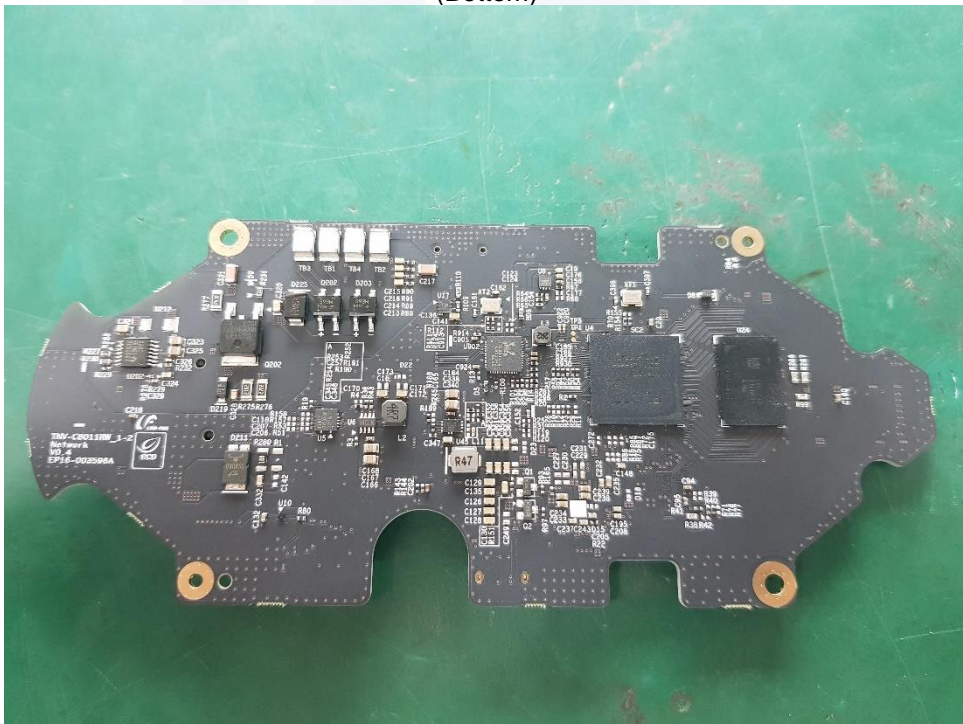


EUT Internal View – Main Board

(Top)



(Bottom)





EUT Internal View – Sub Board 1

(Top)



(Bottom)



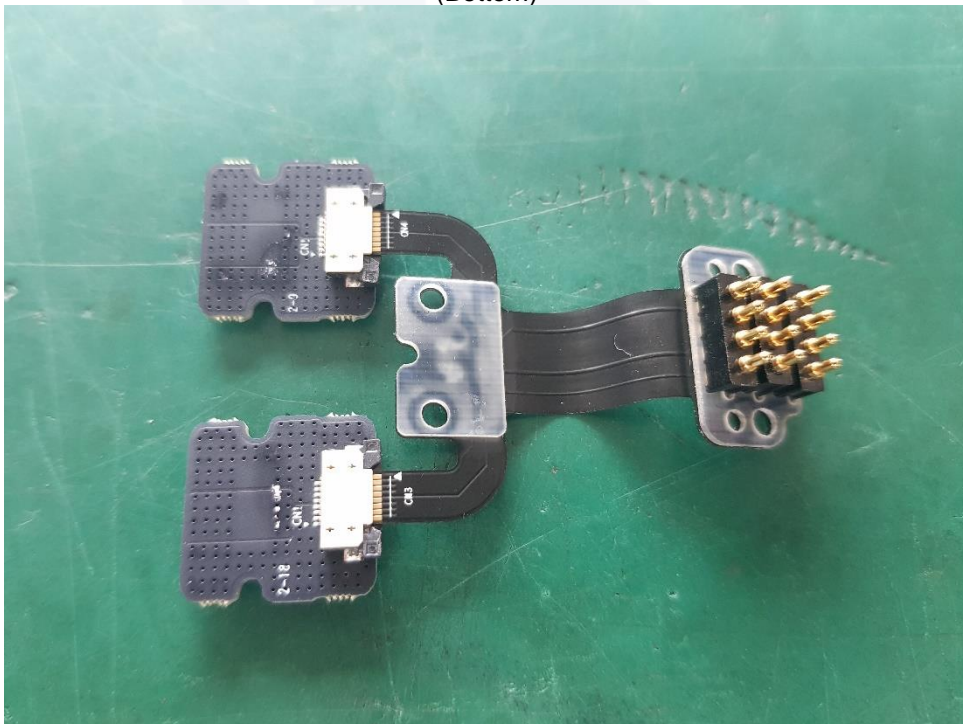


EUT Internal View – Sub Board 2

(Top)



(Bottom)





EUT Internal View – Camera Lens

(Top)



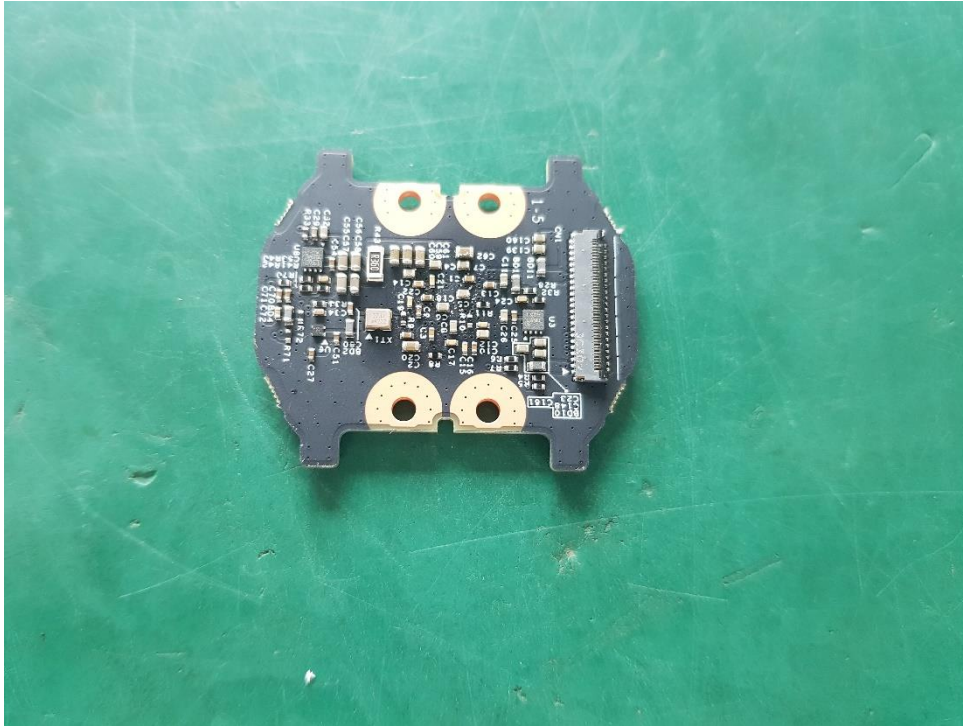
(Bottom)





EUT Internal View – Camera Lens Board

(Top)



(Bottom)





Label Photographs



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