



# TEST REPORT



Report No. : KES-EM252928

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**KES Co., Ltd.**

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## 1. Client

- Name : Hanwha Vision Co., Ltd.
- Address : 6, Pangyo-ro 319beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

## 2. Sample Description

- Product item : NETWORK CAMERA
- Model name : XNO-A6084R
- Variant model : -
- Manufacturer etc. : HANWHA VISION VIETNAM COMPANY LIMITED
- Manufacturer address : Lot O-2, Que Vo Industrial Zone Extended Area, Nam Son Ward, Bac Ninh Province, Vietnam
- Manufacturer etc. : D-TECH CO.,LTD.
- Manufacturer address : 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)

**3. Date of test** : 2025. 08. 26. ~ 2025. 08. 26.

**4. Location of Test** : Permanent Testing Lab  
○ Address : 473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Republic of Korea

**5. Test method used** : AS/NZS CISPR 32:2015/AMD1:2020

**6. Test result** : PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
This test report is not related to KOLAS accreditation.

|             |                   |                      |
|-------------|-------------------|----------------------|
| Affirmation | Tested by         | Technical Manager by |
|             | Name : DaeSoo Kim | Name : DongHun Jang  |

**2025. 09. 22**

**KES Co., Ltd.**

**REPORT REVISION HISTORY**

| Date         | Test Report No. | Revision History |
|--------------|-----------------|------------------|
| 2025. 09. 22 | KES-EM252928    | Issued           |

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**Use of uncertainty of measurement for decisions on conformity (decision rule):**

- ☒ No decision rule is specified by the standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").
- ☐ Other (to be specified, for example when required by the standard or client)



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## 1 Laboratory Information

### 1.1 Test Location

| Category         | Details                                                           |
|------------------|-------------------------------------------------------------------|
| Address          | 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Republic of Korea |
| Telephone Number | 031-883-5092                                                      |
| Facsimile Number | 031-883-5169                                                      |

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

### 1.2 Laboratory Accreditations and Listings

| Country       | Agency  | Scope of Accreditation                                                                                                                  | Logo                                                                                                                           |
|---------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| KOREA         | RRA     | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>KR0100                                 |
| International | KOLAS   | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>KT489                                 |
| USA           | FCC     | 3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.                                            | <br>KR0100                                |
| Canada        | ISED    | 3 m & 10 m Semi-Anechoic Chamber and Conducted test site                                                                                | <br>23298                                 |
| JAPAN         | VCCI    | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)                                                                          | <br>C-20136, T-20137,<br>R-20181, G-20176 |
| Europe        | TÜV SÜD | EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)<br>EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) | <br>CARAT 001633 0008                     |



## 2 Test Summary

### 2.1 Class and Voltage

| Test Class | Test Voltage    |
|------------|-----------------|
| Class A    | AC 240 V, 50 Hz |

### 2.2 Summary of Test Results

| Test Item                                                                                           | Test Standard                  | Test Result | Remark |
|-----------------------------------------------------------------------------------------------------|--------------------------------|-------------|--------|
| Conducted Emissions at Mains Power Ports                                                            | AS/NZS CISPR 32:2015/AMD1:2020 | N/A         | NOTE 1 |
| Conducted Emissions at Telecommunication Ports                                                      |                                | PASS        | -      |
| Radiated Emissions(Below 1 GHz)                                                                     |                                | PASS        | -      |
| Radiated Emissions(Above 1 GHz)                                                                     |                                | PASS        | -      |
| * N/A: Not Applicable                                                                               |                                |             |        |
| (NOTE 1) PoE port is considered to be wired network port, so power-related test items are excluded. |                                |             |        |

### 2.3 Remarks when standards applied

USB C Type port of the EUT was unused or a management port, so the test was not applied.

### 2.4 Variant Model Differences

Not applicable

### 2.5 Device Modifications

Not applicable



### 3 General Product Description

| Classification              |                            | Key points and characteristics                                                                           |
|-----------------------------|----------------------------|----------------------------------------------------------------------------------------------------------|
| maximum operating frequency |                            | 108 MHz over                                                                                             |
| Power                       | Rated power                | PoE+ 50-55 Vdc                                                                                           |
|                             | Test power                 | AC 220 V / 60 Hz                                                                                         |
| I/O Port                    | User port                  | RJ-45 1 EA, SPEAKER 1 EA, MIC 1 EA, Alarm In(2 PIN) 1 EA, Alarm OUT(2 PIN) 1 EA, Micro SD CARD SLOT 1 EA |
|                             | Unused/Administrator Ports | USB-TYPE C 1 EA                                                                                          |
| function                    | Product function           | NETWORK CAMERA                                                                                           |
|                             | Wireless function          | Not applicable                                                                                           |
| Components                  |                            | Main 1 EA, Cable 1 EA                                                                                    |
| Other                       |                            | Not applicable                                                                                           |

|                             | <b>XNO-A6084R</b>                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------|
| <b>Video</b>                |                                                                                      |
| Imaging Device              | 1/2.8" CMOS                                                                          |
| Resolution                  | 1920x1080, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180 |
| Max. Framerate              | H.265/H.264: Max. 60fps/50fps(60Hz/50Hz)<br>MJPEG: Max. 30fps                        |
| NETD                        | None                                                                                 |
| Pixel Size                  | None                                                                                 |
| Video Out                   | USB: Micro USB Type C for installation                                               |
| Video Transmission Distance | None                                                                                 |
| <b>Lens</b>                 |                                                                                      |
| Focal Length (Zoom Ratio)   | 2.8~12mm                                                                             |
| Optical Zoom                | None                                                                                 |
| Max. Aperture Ratio         | F1.4(Wide)~F3.6(Tele)                                                                |
| Angular Field of View       | H: 120°(Wide)~27°(Tele)<br>V: 63°(Wide)~15°(Tele)<br>D: 143°(Wide)~32°(Tele)         |
| Min. Object Distance        | 0.5m                                                                                 |
| Focus Control               | Simple focus, Manual                                                                 |
| Lens Type                   | P-iris(IR corrected)                                                                 |
| Mount Type                  | None                                                                                 |
| Optional Lens               | None                                                                                 |
| <b>Pan / Tilt / Rotate</b>  |                                                                                      |
| Pan / Tilt / Rotate Range   | 0°~360° / 0°~90° / 0°~360°                                                           |
| Pan Range                   | None                                                                                 |



|                             |                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pan Speed                   | None                                                                                                                                                                                                                 |
| Tilt Range                  | None                                                                                                                                                                                                                 |
| Tilt Speed                  | None                                                                                                                                                                                                                 |
| Rotate Range                | None                                                                                                                                                                                                                 |
| Sequence                    | None                                                                                                                                                                                                                 |
| Preset Accuracy             | None                                                                                                                                                                                                                 |
| <b>Operational</b>          |                                                                                                                                                                                                                      |
| Camera Title                | Displayed up to 85 characters                                                                                                                                                                                        |
| Direction Indicator         | None                                                                                                                                                                                                                 |
| Day & Night                 | Auto(ICR)                                                                                                                                                                                                            |
| Backlight Compensation      | BLC, HLC, WDR, SSSR                                                                                                                                                                                                  |
| Wide Dynamic Range          | 150dB                                                                                                                                                                                                                |
| Digital Noise Reduction     | SSNR V, WiseNR II (Based on AI engine/AI-ISP)                                                                                                                                                                        |
| Digital Image Stabilization | Support                                                                                                                                                                                                              |
| Defog                       | Support                                                                                                                                                                                                              |
| Motion Detection            | 8ea, 8point polygonal zones                                                                                                                                                                                          |
| Privacy Masking             | 32ea, 8point polygonal zones<br>- Color: gray/green/red/blue/black/white/purple/yellow<br>- Mosaic<br>Dynamic Privacy Mask(Based on AI engine)<br>- Color: gray/green/red/blue/black/white/purple/yellow<br>- Mosaic |
| Gain Control                | Off / Max Gain / Manual                                                                                                                                                                                              |
| White Balance               | ATW / NarrowATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                                    |
| LDC                         | Support(Fill/Stretch mode)                                                                                                                                                                                           |
| Electronic Shutter Speed    | Minimum / Maximum / Anti flicker(2~1/40,000sec)<br>Prefer shutter control(Based on AI engine)                                                                                                                        |
| Digital PTZ                 | None                                                                                                                                                                                                                 |
| Video Rotation              | Flip, mirror, hallway view(90°/270°)                                                                                                                                                                                 |
| Business Intelligence       | Based on AI engine: People/Vehicle/Crowd/Object counting, Queue management, Heatmap                                                                                                                                  |
| Serial Interface            | None                                                                                                                                                                                                                 |
| Alarm I/O                   | 2 configurable I/O ports<br>*Support extra alarm I/O via optional I/O box                                                                                                                                            |
| Alarm Triggers              | Analytics, Network disconnection, Alarm input, App event, Time schedule, MQTT subscription, Day/Night change, SD/NAS disruption                                                                                      |



|                           |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm Events              | When alarm trigger occurred <ul style="list-style-type: none"><li>- File upload(image): e-mail/FTP/SFTP</li><li>- File upload(video clip): FTP/SFTP</li><li>- Notification: e-mail</li><li>- Recording: SD/SDHC/SDXC or NAS recording at event triggers</li><li>- Alarm output</li><li>- Handover: PTZ preset, send message by HTTP/HTTPS/TCP</li><li>- Audio clip playback(WAV, MP3)</li><li>- MQTT: publication</li></ul> |
| Audio Streaming           | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Audio In                  | Selectable(mic in/line in)                                                                                                                                                                                                                                                                                                                                                                                                  |
| Audio Out                 | Line out                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Light Type                | IR LED                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Light Viewable Length     | WiseIR 40m(131.23ft)                                                                                                                                                                                                                                                                                                                                                                                                        |
| IR Viewable Length        | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IR Illuminator (Optional) | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IR Radiation angle        | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IR LED                    | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IR Wavelength             | 850nm                                                                                                                                                                                                                                                                                                                                                                                                                       |
| IR Operation              | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Water Removal             | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Auto Tracking             | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Coaxial Protocol          | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Color Palettes            | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Radiometry</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Temperature Detect Range  | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Temperature Accuracy      | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Temperature Detection     | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Additional                | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Network</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Ethernet                  | Metal shielded RJ-45(10/100BASE-T)                                                                                                                                                                                                                                                                                                                                                                                          |
| Video Compression         | H.265/H.264: Main/Baseline/High MJPEG                                                                                                                                                                                                                                                                                                                                                                                       |
| Audio Compression         | G.711(PCM): 8kHz(64Kbps)<br>G.726(ADPCM): 8kHz(16/24/32/40Kbps)<br>AAC-LC: 16(48Kbps)<br>OPUS: 48kHz                                                                                                                                                                                                                                                                                                                        |
| Smart Codec               | WiseStream(Based on AI engine)                                                                                                                                                                                                                                                                                                                                                                                              |
| Video Quality Adjustment  | None                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Bitrate Control           | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                                                                                                                                                                                                                                                       |



|                                                       |                                                                                                                                                                                                                                              |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Streaming                                             | Unicast(20 users) / Multicast<br>Multiple streaming(Up to 5 profiles, 3 virtual channel support)                                                                                                                                             |
| Protocol                                              | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog |
| SIP support (VoIP, Peer-to-peer, SIP/PBX integration) | Support(TBD)                                                                                                                                                                                                                                 |
| Security                                              | None                                                                                                                                                                                                                                         |
| <b>Security</b>                                       |                                                                                                                                                                                                                                              |
| OS / Firmware Protect                                 | Encrypted Firmware, Secure boot, Signed Firmware                                                                                                                                                                                             |
| User authentication                                   | Digest Authentication, Prevent brute-force attack                                                                                                                                                                                            |
| Secure Communication                                  | HTTPS, SRTP, WSS(Websocket secure)                                                                                                                                                                                                           |
| Access Control                                        | IP-based access control, MAC-based access control, Auto logout                                                                                                                                                                               |
| Data Protect                                          | Encryption Credentials, Encrypt compress for live recording file export                                                                                                                                                                      |
| Audit                                                 | Access / System / Event Log management                                                                                                                                                                                                       |
| Device ID                                             | Device Certificate(Hanwha vision Root CA)                                                                                                                                                                                                    |
| Secure Storage                                        | Secure element, SDcard partition encrypt                                                                                                                                                                                                     |
| Security Certificate                                  | ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+)                                                                                                                                                                                 |
| <b>General</b>                                        |                                                                                                                                                                                                                                              |
| Webpage Language                                      | English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek                                                                   |
| Web Viewer                                            | None                                                                                                                                                                                                                                         |
| Edge Storage                                          | Micro SD/SDHC/SDXC 1slot 1TB                                                                                                                                                                                                                 |
| Memory                                                | 4GB RAM, 8GB eMMC                                                                                                                                                                                                                            |
| <b>Environmental &amp; Electrical</b>                 |                                                                                                                                                                                                                                              |
| Operating Temperature / Humidity                      | -40°C~+60°C(-40°F~+140°F)<br>+74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7)<br>* Start up should be done at above -30°C<br>0~100%RH(Condensing)<br>Humidity control with AIR vent                                                              |
| Storage Temperature / Humidity                        | -50°C~+60°C(-58°F~+140°F) / 0~90% RH                                                                                                                                                                                                         |
| Wind Load                                             | None                                                                                                                                                                                                                                         |
| Certification                                         | IP66/IP67, NEMA4X, IK10, NEMA-TS 2(2.2.7.2-6, 2.2.8, 2.2.9)                                                                                                                                                                                  |
| Input Voltage                                         | PoE(IEEE802.3af, Class3)                                                                                                                                                                                                                     |
| Power Consumption                                     | PoE: Max. 10.2W, typical 5.0W<br>Support Wisepower<br>- Power monitoring(Max./Current/Avg.)<br>- ECO mode                                                                                                                                    |



| Mechanical                        |                                            |
|-----------------------------------|--------------------------------------------|
| Color / Material                  | White / Aluminum<br>Hard-coated window     |
| RAL Code                          | RAL9003                                    |
| Product Dimensions / Weight       | ø93.4x276.6mm(3.68x10.89"), 1,660g(3.66lb) |
| Compatible Conduit hole / Gangbox | Single, double, 4" octagon, 4" square      |





## 4 EUT Setup and Operation Mode

### 4.1 EUT Configuration

| Equipment Name | Model Name       | Manufacturing Number | Manufacturer                               | Remarks |
|----------------|------------------|----------------------|--------------------------------------------|---------|
| NETWORK CAMERA | XNO-A6084R       | -                    | HANWHA VISION VIETNAM COMPANY LIMITED      | EUT     |
| PoE Injector   | PT-PSE109GBRO-AH | PT1933220259         | Dongguan PROCET Network Technology Co.,Ltd | -       |
| Micro SD CARD  | -                | -                    | Transcend                                  | -       |
| SMART PHONE    | SM-G988          | -                    | SAMSUNG                                    | -       |
| LAPTOP         | NT500R5W         | 0Q2C91KJ700017J      | SAMSUNG                                    | -       |
| LAPTOP ADAPTOR | PA-1400-96       | -                    | LITE-ON TECHNOLOGY CHANGZHOU CO.,LTD       | -       |
| HEADSET        | K550             | -                    | Britz®                                     | -       |
| Button Alarm   | -                | -                    | -                                          | -       |
| LED Alarm      | SIP-1201DD D0    | -                    | SAMSUNG TECHWIN CO., LTD.                  | -       |

### 4.2 System Configuration

| Product Name | Model Number | Serial Number | Manufacturer | Remarks |
|--------------|--------------|---------------|--------------|---------|
| -            | -            | -             | -            | -       |



### 4.3 External I/O Cabling

| Connection start device |                   | Connection end device |               | Cable specification |                  |
|-------------------------|-------------------|-----------------------|---------------|---------------------|------------------|
| Name                    | I/O Port          | Name                  | I/O Port      | Length (m)          | Shielding status |
| NETWORK CAMERA (EUT)    | RJ-45 (PoE)       | PoE Injector          | RJ-45 (PoE)   | 3.1                 | U                |
|                         | Alarm In (2 PIN)  | Button Alarm          | Alarm OUT     | 3.1                 | U                |
|                         | Alarm OUT (2 PIN) | LED Alarm             | Alarm IN      | 3.1                 | U                |
|                         | SPEAKER (3.5 mm)  | HEADSET               | 3.5 mm        | 2.0                 | U                |
|                         | MIC (3.5 mm)      |                       | 3.5 mm        |                     |                  |
|                         | Micro SD SLOT     | Micro SD CARD         | Micro SD SLOT | -                   | -                |
| LAPTOP                  | DC JACK           | LAPTOP ADAPTOR        | DC JACK       | 1.5                 | U                |
|                         | 3.5 mm            | SMART PHONE           | 3.5 mm        | 1.0                 | U                |
|                         | RJ-45             | PoE Injector          | RJ-45 (DATA)  | 2.0                 | U                |

\* Unshielded=U, Shielded=S

### 4.4 EUT Operating Mode(s)

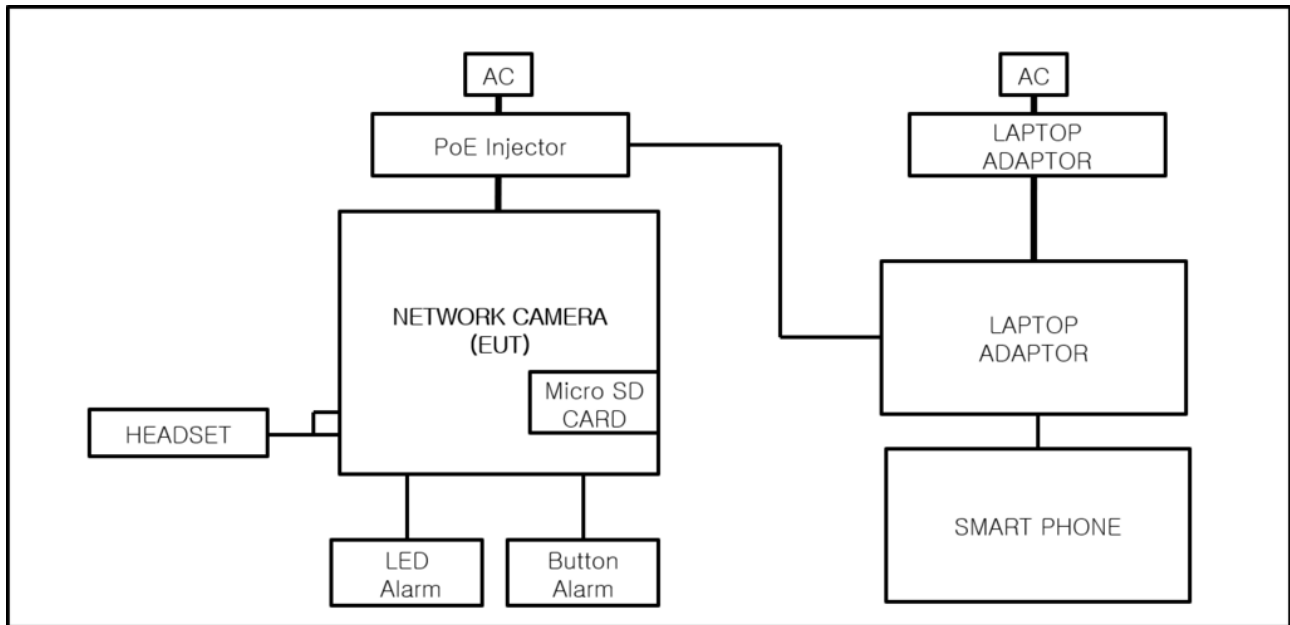
| Category | Mode      | Operating                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 1   | OPERATION | 1. Checked the EUT's image output on the WEB VIEWER.<br>2. After activating the microphone operation of WEB VIEWER, run a 1 KHz Tone voice file on a smartphone connected to a laptop to check whether the headset connected to the EUT outputs sound normally.<br>3. Checked the laptop's ping test to see if the test equipment network is functioning properly.<br>4. After the test, the recorded video stored in the Micro SD CARD was checked. |

### 4.5 Test operating S/W

| Name       | Version | Manufacture Company     |
|------------|---------|-------------------------|
| WEB VIEWER | -       | Hanwha Vision Co., Ltd. |



## 4.6 Configuration



Mode 1



## 5 Measurement Procedure

### - Conducted Emissions

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

### - Radiated Electric Field Emissions

The test was done at a SEMI ANECHOIC CHAMBER with quasi-peak detector. The final test data was measured using a Quasi-Peak detector below 1 GHz at 10 m or 3 m distance and a Peak and Average detector above 1 GHz at 3 m distance. Test was proceeded worst case test mode and cable configuration. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m (Radiated Emissions(Below 1 GHz)) and 1 m (Radiated Emissions(Above 1 GHz)) and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Measurement procedures was In accordance with ANSI C63.4 or CISPR 32.

### ◆ Calculation

#### - Conducted Emissions

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

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

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

#### - Radiated Emissions(Below 1 GHz)

$\text{Result(QP) [dB(μV/m)]} = (\text{Reading(QP)[dB(μV)]} + \text{c.f[dB(1/m)]})$

$\text{Margin(QP)[dB]} = \text{Limit[dB(μV/m)]} - \text{Result(QP) [dB(μV/m)]}$

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

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

#### - Radiated Emissions(Above 1 GHz)

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

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

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

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



## 6 Test Item

### 6.1 Conducted Emissions at Telecommunication Ports

#### 6.1.1 Test Equipment

| Equipment Name             | Model Number | Manufacturer    | Serial No. | Cal. Date  | Next Cal. Date | Used |
|----------------------------|--------------|-----------------|------------|------------|----------------|------|
| SHIELD ROOM #6             | -            | DYMSTEC         | -          | -          | -              | ■    |
| EMC32 Measurement Software | EMC32        | R&S             | 9.12.00    | -          | -              | ■    |
| EMI TEST RECEIVER          | ESR3         | Rohde & Schwarz | 101783     | 2024-11-06 | 2025-11-06     | ■    |
| LISN                       | ENV216       | Rohde & Schwarz | 101786     | 2025-01-09 | 2026-01-09     | ■    |
| ARTIFICIAL MAINS NETWORK   | ESH2-Z5      | Rohde & Schwarz | 100450     | 2024-11-06 | 2025-11-06     | ■    |
| PULSE LIMITER              | ESH3-Z2      | Rohde & Schwarz | 101915     | 2024-11-06 | 2025-11-06     | ■    |
| 8-WIRE ISN CAT3,5          | ENY81        | Rohde & Schwarz | 100174     | 2024-11-12 | 2025-11-12     | ■    |

#### 6.1.2 Test Location : SHIELD ROOM #6

#### 6.1.3 Test Conditions :

| Temperature      | Relative Humidity    |
|------------------|----------------------|
| (27.1 ~ 27.1) °C | (55.9 ~ 55.9) % R.H. |



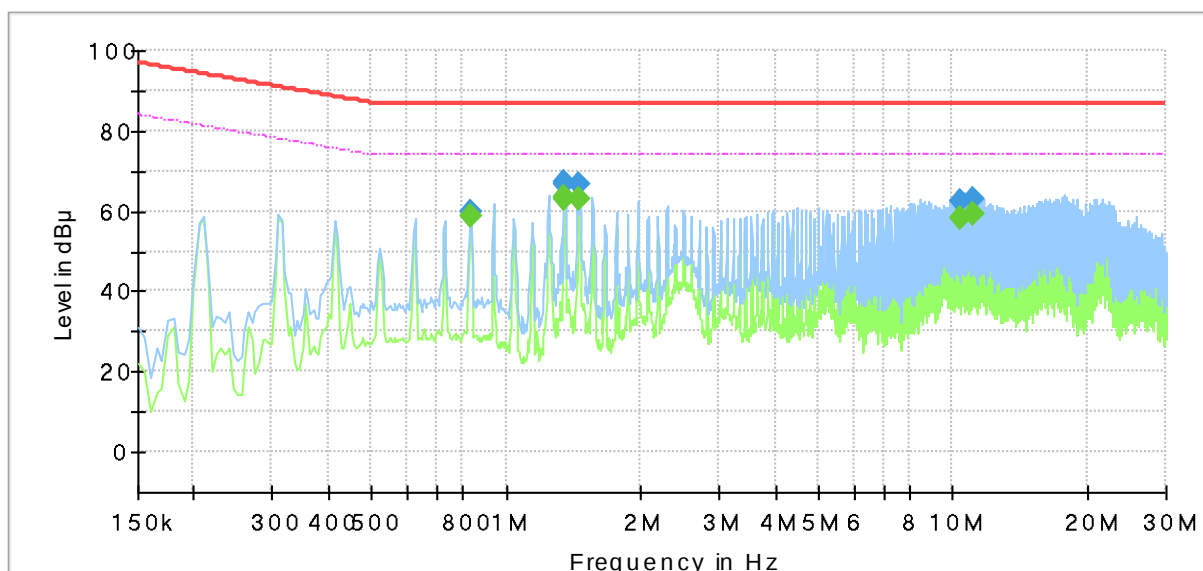
### 6.1.4 Test Result

- Test Date : 2025-08-26
- Test Mode : Mode 1

## Test Report

1 / 1

Test Description: Telecommunication Emission  
Job No.: KES-EM252928  
Mode : Mode 1  
Speed : 100 Mbps  
Operator Name: KES



### Final\_Result

| Frequency (MHz) | QuasiPeak (dB μV) | CAverage (dB μV) | Limit (dB μV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line        | Corr. (dB) |
|-----------------|-------------------|------------------|---------------|-------------|-----------------|-----------------|-------------|------------|
| 0.830000        | 59.84             | —                | 87.00         | 27.16       | 1000.0          | 9.000           | Single Line | 19.4       |
| 0.830000        | —                 | 58.78            | 74.00         | 15.22       | 1000.0          | 9.000           | Single Line | 19.4       |
| 1.350000        | 66.95             | —                | 87.00         | 20.05       | 1000.0          | 9.000           | Single Line | 19.4       |
| 1.350000        | —                 | 63.52            | 74.00         | 10.48       | 1000.0          | 9.000           | Single Line | 19.4       |
| 1.355000        | 66.84             | —                | 87.00         | 20.16       | 1000.0          | 9.000           | Single Line | 19.4       |
| 1.355000        | —                 | 62.92            | 74.00         | 11.08       | 1000.0          | 9.000           | Single Line | 19.4       |
| 1.455000        | 66.73             | —                | 87.00         | 20.27       | 1000.0          | 9.000           | Single Line | 19.4       |
| 1.455000        | —                 | 63.16            | 74.00         | 10.84       | 1000.0          | 9.000           | Single Line | 19.4       |
| 10.405000       | 62.55             | —                | 87.00         | 24.45       | 1000.0          | 9.000           | Single Line | 19.6       |
| 10.405000       | —                 | 58.06            | 74.00         | 15.94       | 1000.0          | 9.000           | Single Line | 19.6       |
| 11.130000       | 63.07             | —                | 87.00         | 23.93       | 1000.0          | 9.000           | Single Line | 19.6       |
| 11.130000       | —                 | 59.11            | 74.00         | 14.89       | 1000.0          | 9.000           | Single Line | 19.6       |

### 6.1.5 Remark

Complies with the test requirements.



## 6.2 Radiated Emissions(Below 1 GHz)

### 6.2.1 Test Equipment

| Equipment Name                 | Model Number | Manufacturer     | Serial No. | Cal. Date  | Next Cal. Date | Used |
|--------------------------------|--------------|------------------|------------|------------|----------------|------|
| SEMI ANECHOIC CHAMBER #4(10 m) | -            | DYMSTEC          | -          | -          | -              | ■    |
| EP5/RE Software                | EP5/RE       | TOYO             | 6.0.0      | -          | -              | ■    |
| EMI TEST RECEIVER              | ESU26        | Rohde & Schwarz  | 100551     | 2025-02-13 | 2026-02-13     | ■    |
| AMPLIFIER                      | SCU 01       | Rohde & Schwarz  | 100603     | 2024-11-06 | 2025-11-06     | ■    |
| BILOG ANTENNA                  | VULB 9168    | SCHWARZBEC<br>K  | 9168-461   | 2024-05-09 | 2026-05-09     | ■    |
| ATTENUATOR                     | 6806.17.A    | HUBER+SUHNE<br>R | -          | 2025-02-13 | 2026-02-13     | ■    |

6.2.2 Test Location : SEMI ANECHOIC CHAMBER #4(10 m) Measurement Distance : □ 3 m, ■ 10 m

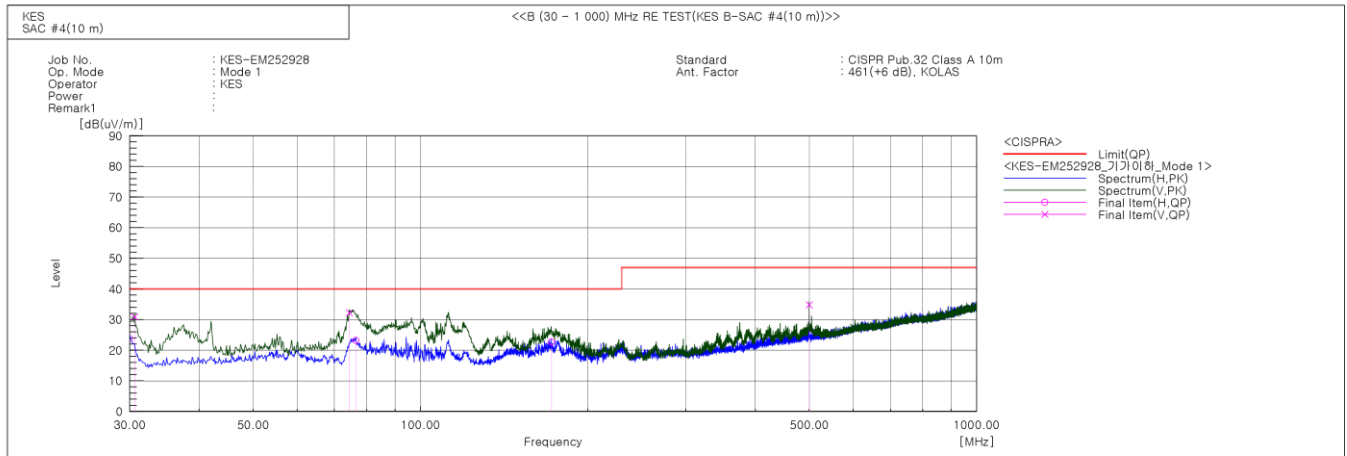
### 6.2.3 Test Conditions :

| Temperature      | Relative Humidity    |
|------------------|----------------------|
| (26.8 ~ 26.8) °C | (58.2 ~ 58.2) % R.H. |



## 6.2.4 Test Result

- Test Date : 2025-08-26
- Test Mode : Mode 1



### 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   | 30.000          | H   | 46.7                | -22.8         | 23.9                 | 40.0                | 16.1           | 359.0       | 284.0       |        |
| 2   | 30.606          | V   | 53.6                | -22.7         | 30.9                 | 40.0                | 9.1            | 144.0       | 353.0       |        |
| 3   | 74.499          | V   | 56.3                | -24.1         | 32.2                 | 40.0                | 7.8            | 123.0       | 102.0       |        |
| 4   | 76.560          | H   | 47.9                | -24.7         | 23.2                 | 40.0                | 16.8           | 377.0       | 24.0        |        |
| 5   | 171.984         | H   | 42.9                | -20.2         | 22.7                 | 40.0                | 17.3           | 312.0       | 181.0       |        |
| 6   | 499.965         | V   | 45.0                | -10.2         | 34.8                 | 47.0                | 12.2           | 100.0       | 210.0       |        |

※ The data is the result measured by the detector in Quasi-Peak mode on the Peak graph.

## 6.2.5 Remark

Complies with the test requirements.



### 6.3 Radiated Emissions(Above 1 GHz)

#### 6.3.1 Test Equipment

| Equipment Name           | Model Number | Manufacturer    | Serial No.  | Cal. Date  | Next Cal. Date | Used |
|--------------------------|--------------|-----------------|-------------|------------|----------------|------|
| SEMI ANECHOIC CHAMBER #5 | -            | SY Corporation  | -           | -          | -              | ■    |
| ES10/RE Software         | ES10/RE      | TOYO            | 2022.01.000 | -          | -              | ■    |
| EMI TEST RECEIVER        | ESU26        | Rohde & Schwarz | 100552      | 2025-02-13 | 2026-02-13     | ■    |
| PREAMPLIFIER             | 8449B        | HP              | 3008A00538  | 2025-04-30 | 2026-04-30     | ■    |
| ATTENUATOR               | 8491B        | HP              | 23094       | 2025-02-13 | 2026-02-13     | ■    |
| HORN ANTENNA             | BBHA 9120D   | SCHWARZBECK     | 9120D-1802  | 2024-11-04 | 2025-11-04     | ■    |

#### 6.3.2 Test Location : SEMI ANECHOIC CHAMBER #5

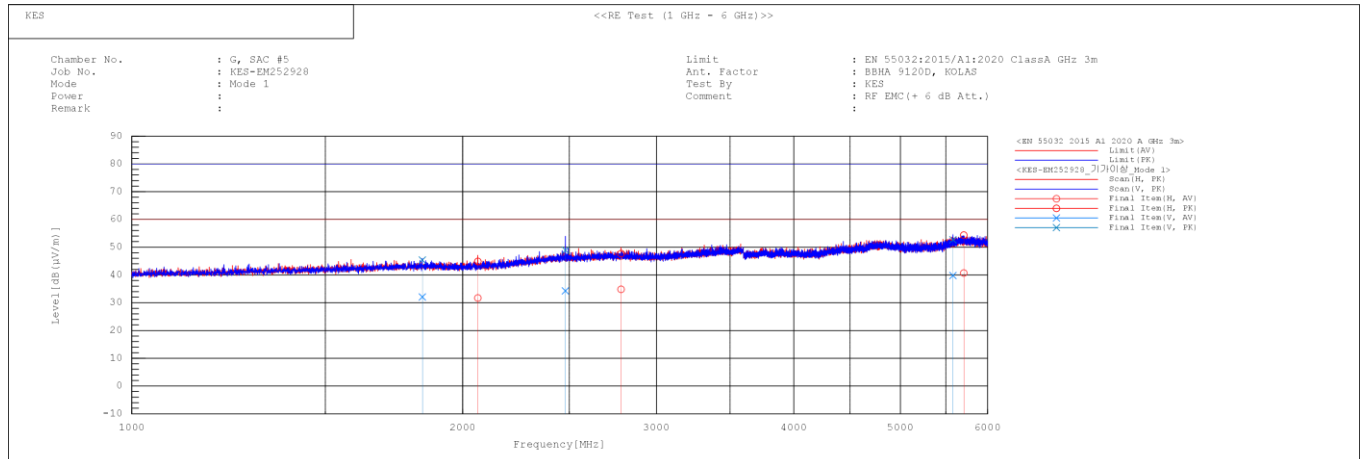
#### 6.3.3 Test Conditions :

| Temperature      | Relative Humidity    |
|------------------|----------------------|
| (24.4 ~ 24.4) °C | (58.2 ~ 58.2) % R.H. |



### 6.3.4 Test Result

- Test Date : 2025-08-26
- Test Mode : Mode 1



#### Final Result

| No. | Frequency [MHz] | Pol | Reading AV [dB (μV)] | Reading PK [dB (μV)] | c.f. [dB (1/m)] | Result AV [dB (μV/m)] | Result PK [dB (μV/m)] | Limit AV [dB (μV/m)] | Limit PK [dB (μV/m)] | Margin AV [dB] | Margin PK [dB] | Height [cm] | Angle [deg] |
|-----|-----------------|-----|----------------------|----------------------|-----------------|-----------------------|-----------------------|----------------------|----------------------|----------------|----------------|-------------|-------------|
| 1   | 1837.462        | V   | 29.6                 | 42.9                 | 2.5             | 32.1                  | 45.4                  | 60.0                 | 80.0                 | 27.9           | 34.6           | 100.0       | 79.4        |
| 2   | 2064.308        | H   | 29.6                 | 41.8                 | 3.1             | 31.7                  | 44.9                  | 60.0                 | 80.0                 | 28.3           | 35.1           | 100.0       | 359.8       |
| 3   | 2479.278        | V   | 29.2                 | 43.8                 | 5.1             | 34.3                  | 48.9                  | 60.0                 | 80.0                 | 25.7           | 31.1           | 100.0       | 120.8       |
| 4   | 2786.459        | H   | 28.7                 | 41.6                 | 6.1             | 34.8                  | 47.7                  | 60.0                 | 80.0                 | 25.2           | 32.3           | 100.0       | 69.0        |
| 5   | 5582.362        | V   | 26.1                 | 39.0                 | 13.7            | 39.8                  | 52.7                  | 60.0                 | 80.0                 | 20.2           | 27.3           | 100.0       | 2.3         |
| 6   | 5709.579        | H   | 26.7                 | 40.4                 | 14.0            | 40.7                  | 54.4                  | 60.0                 | 80.0                 | 19.3           | 25.6           | 100.0       | 359.8       |

- ※ The data is the result of measured by the detector in PK and CISPR Average on the Peak graph.
- ※ The Average of the test data is the cispr average result.

### 6.3.5 Remark

Complies with the test requirements.



## 7 Test Setup Photos and EUT Photographs

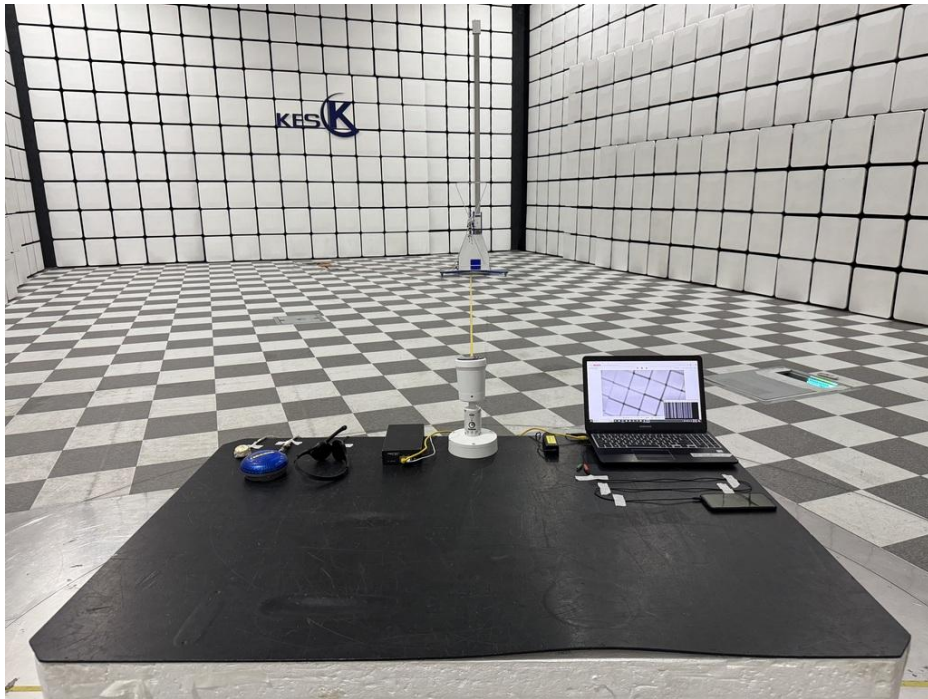
### 7.1 Test Setup Photos



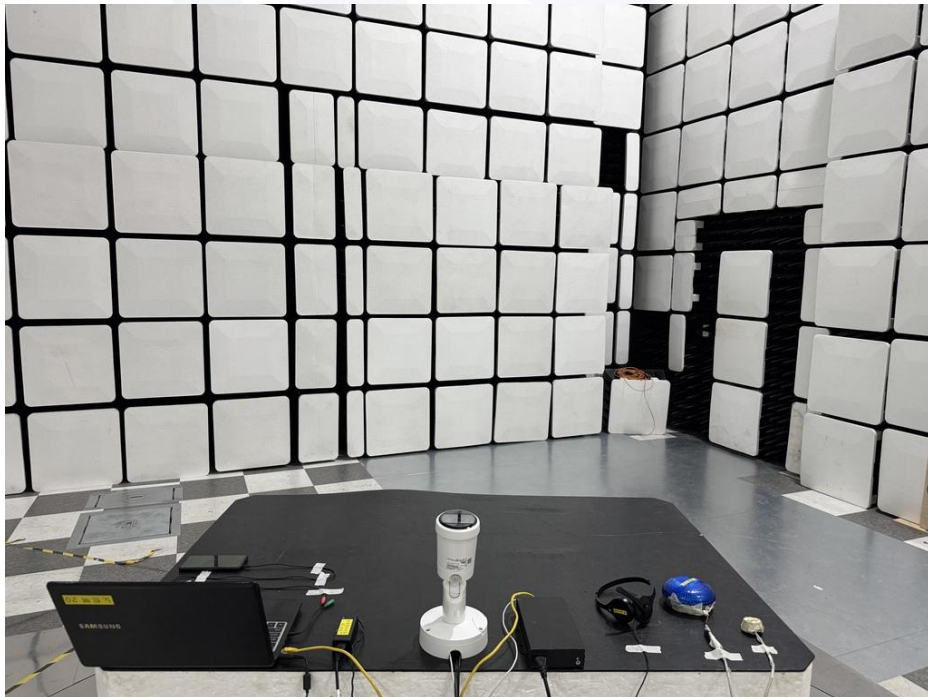
<Conducted Emissions at Telecommunication Ports - Front>



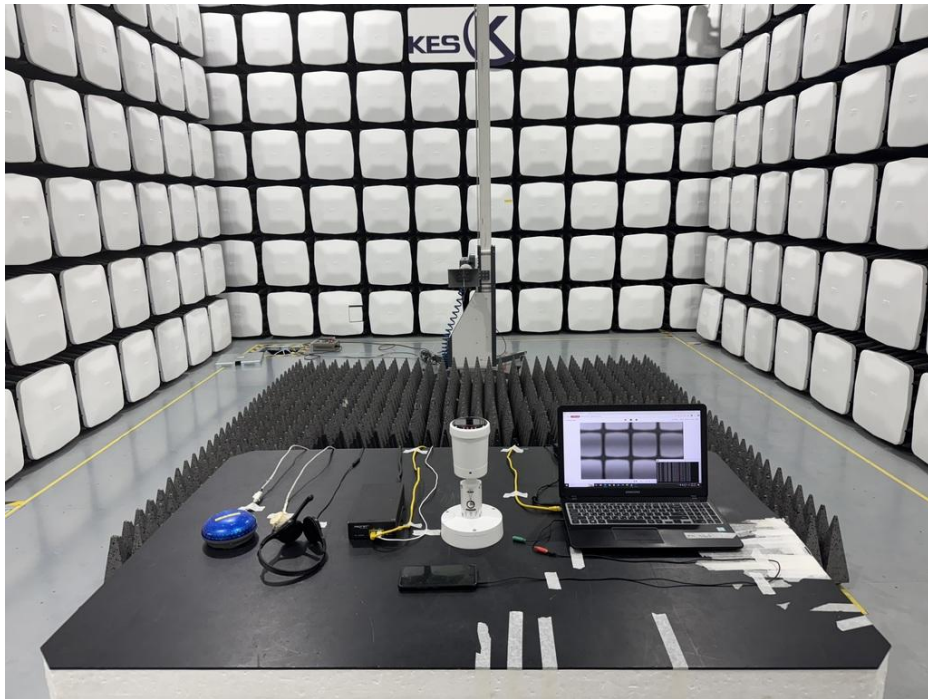
<Conducted Emissions at Telecommunication Ports - Rear>



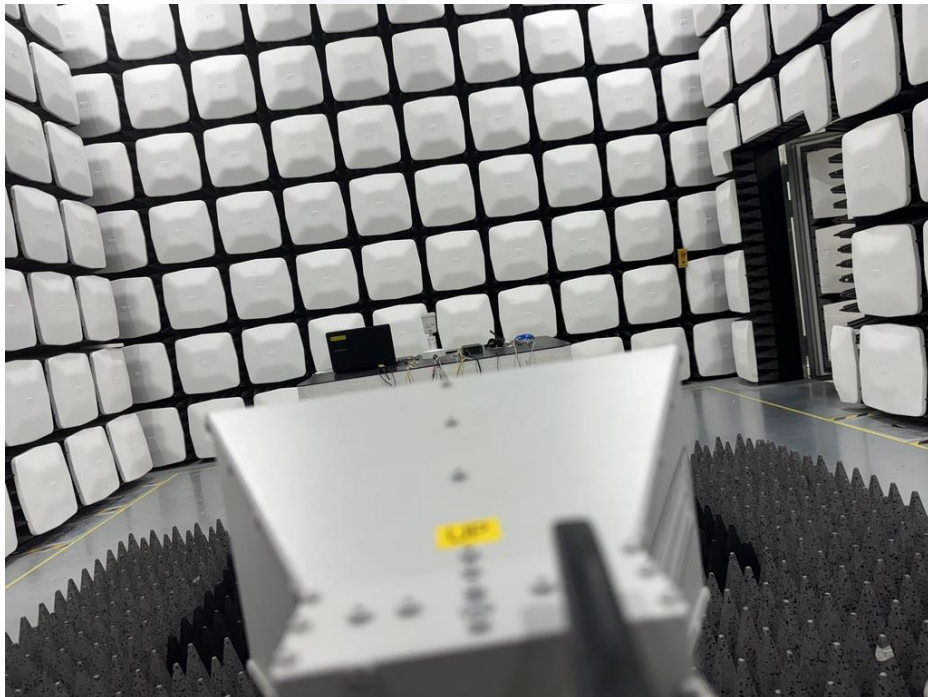
<Radiated Emissions(Below 1 GHz) - Front>



<Radiated Emissions(Below 1 GHz) - Rear>



<Radiated Emissions(Above 1 GHz) - Front>



<Radiated Emissions(Above 1 GHz) - Rear>



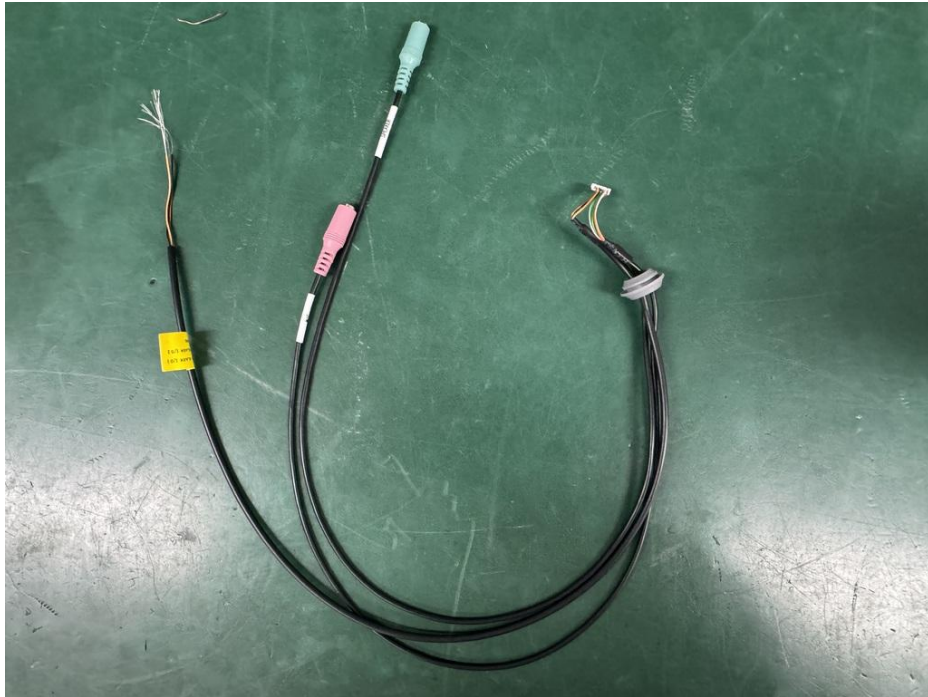
## 7.2 EUT Photographs



<EUT External Photographs - Top>



<EUT External Photographs - Bottom>



<Components>



<EUT Internal Photographs>



### 7.3 Label



Name : Hanwha Vision Co., Ltd.  
Product item : NETWORK CAMERA  
Model name : XNO-A6084R

The End.

