

2026 Hanwha Vision S-Cert Team

April 2026

Camera Vulnerability Report (CVE-2024-54011~54013)

■ OVERVIEW

- Penetration Testing engineers at Amazon discovered vulnerabilities in the camera and reported them to Hanwha Vision S-CERT on March 31, 2025.
- The list of vulnerabilities is below.

| CVE | Description |
|----------------|---|
| CVE-2024-54011 | Missing Error/Exception Handling: HTTP 5XX Internal Server Errors |
| CVE-2024-54012 | Unauthenticated Remote Code Execution under Root |
| CVE-2024-54013 | Authentication Bypass through Misconfiguration |

■ RISK ANALYSIS

| CVE | Review Opinion | Score (CVSS v4.0) |
|----------------|---|----------------------|
| CVE-2024-54011 | An issue exists where the system fails to properly handle data supplied in certain requests, causing a service disruption. The issue has been resolved by implementing stricter validation of user-supplied input data. | 5.1 |
| CVE-2024-54012 | There was an issue where specially crafted requests containing malicious commands could be executed on the device. The issue has been resolved by implementing stricter input validation. | 8.5 |
| CVE-2024-54013 | A web server misconfiguration allows certain request types to bypass authentication controls under specific conditions. The issue has been remediated by enforcing authentication on all requests without exception. | 8.7 |

■ Solution and Required Action

- Please update the affected models with the latest firmware as soon as possible. It is recommended to use the Wisenet Device Manager tool to download & update device firmware. Firmware can also be downloaded from Hanwha Vision websites.
- If you have any questions, please feel free to reach out the Hanwha S-CERT team at secure.cctv@hanwha.com or your local Technical Support Team.

■ AFFECTED PRODUCTS AND FIRMWARE

- Refer to the below table for the affected model, affected firmware version, and corrected firmware version.

| Model | Affected Firmware Version | Corrected Firmware Version |
|-------------|---------------------------|----------------------------|
| XNO-8082R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-8082R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-8082RF | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-8082RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNB-8002 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-9082Rz | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-9082R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-9082RF | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-9082RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNB-9002 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNF-9010RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNF-9010RS | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNF-9010RVM | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-C7083RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-C7083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-C7083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-C6083RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-C6083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-C6083 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-C6083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-C9083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-C9083RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-C9083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-C8083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-C8083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-C8083RV | Prior to version 2.23.11 | Version 2.24.00 and later |

| | | |
|-------------|--------------------------|---------------------------|
| XNB-6003 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-6083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-6083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-6083RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-8083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-8093R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-8083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-8083RVX | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-8093RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-8083RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-8083RVX | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNB-8003 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-8083RX | Prior to version 2.23.11 | Version 2.24.00 and later |
| XND-9083RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-9083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-9083R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNB-9003 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-6123R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNO-6123R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNF-9013RV | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-6083Z | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-6083RZ | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-8083RZ | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-8083Z | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNV-9083RZ | Prior to version 2.23.11 | Version 2.24.00 and later |
| TNV-C7013RC | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNB-6002 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C6403 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C6403R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C6403RW | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C8253 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C8253R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C8303RW | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C9253 | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C9253R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C9303RW | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C7310R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-C9310R | Prior to version 2.23.11 | Version 2.24.00 and later |
| XNP-6400 | Prior to version 2.23.07 | Version 2.24.00 and later |

| | | |
|--------------|--------------------------|---------------------------|
| XNP-6400R | Prior to version 2.23.07 | Version 2.24.00 and later |
| XNP-8250 | Prior to version 2.23.07 | Version 2.24.00 and later |
| XNP-8250R | Prior to version 2.23.07 | Version 2.24.00 and later |
| XNP-9250 | Prior to version 2.23.07 | Version 2.24.00 and later |
| XNP-9250R | Prior to version 2.23.07 | Version 2.24.00 and later |
| XNP-9300RW | Prior to version 2.23.08 | Version 2.24.00 and later |
| XNP-8300RW | Prior to version 2.23.08 | Version 2.24.00 and later |
| XNP-6400RW | Prior to version 2.23.08 | Version 2.24.00 and later |
| PNM-9080VQ | Prior to version 2.22.00 | Version 2.23.00 and later |
| PNM-9081VQ | Prior to version 2.22.00 | Version 2.23.00 and later |
| PNM-7000VD | Prior to version 2.22.00 | Version 2.23.00 and later |
| PNM-9000VQ | Prior to version 2.22.00 | Version 2.23.00 and later |
| PNM-9320VQP | Prior to version 2.22.00 | Version 2.23.00 and later |
| PNM-9000VD | Prior to version 2.22.00 | Version 2.23.00 and later |
| PNM-9321VQP | Prior to version 2.22.00 | Version 2.23.00 and later |
| PNM-7002VD | Prior to version 2.22.02 | Version 2.23.00 and later |
| PNM-9002VQ | Prior to version 2.22.02 | Version 2.23.00 and later |
| PNM-9085RQZ | Prior to version 2.22.03 | Version 2.23.00 and later |
| PNM-9084QZ | Prior to version 2.22.03 | Version 2.23.00 and later |
| PNM-9084RQZ | Prior to version 2.22.03 | Version 2.23.00 and later |
| PNM-9084QZ1 | Prior to version 2.22.03 | Version 2.23.00 and later |
| PNM-9084RQZ1 | Prior to version 2.22.03 | Version 2.23.00 and later |
| PNM-9085RQZ1 | Prior to version 2.22.03 | Version 2.23.00 and later |
| PNM-9322VQP | Prior to version 2.22.02 | Version 2.23.00 and later |
| QNV-C9083R | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNO-C9083R | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNV-C8083R | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNO-C8083R | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNV-C9011R | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNV-C8011R | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNV-C8012 | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNE-C9013RL | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNE-C8013RL | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNV-C6083R | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNO-C6083R | Prior to version 2.22.05 | Version 2.22.10 and later |
| TNV-C8011RW | Prior to version 2.22.05 | Version 2.22.10 and later |
| QNV-C8013R | Prior to version 2.21.13 | Version 2.22.10 and later |
| QNO-C8013R | Prior to version 2.21.13 | Version 2.22.10 and later |
| QND-C8013R | Prior to version 2.21.13 | Version 2.22.10 and later |

| | | |
|---------------|--------------------------|---------------------------|
| QNV-C8023R | Prior to version 2.21.13 | Version 2.22.10 and later |
| QNO-C8023R | Prior to version 2.21.13 | Version 2.22.10 and later |
| QND-C8023R | Prior to version 2.21.13 | Version 2.22.10 and later |
| TNV-C8014RM | Prior to version 2.21.13 | Version 2.22.10 and later |
| TNV-C8034RM | Prior to version 2.21.13 | Version 2.22.10 and later |
| QNF-C9010 | Prior to version 2.21.13 | Version 2.22.10 and later |
| QNF-C9010V | Prior to version 2.21.13 | Version 2.22.10 and later |
| XNB-6001 | Prior to version 2.10.05 | Version 2.10.06 and later |
| XNF-8010R | Prior to version 2.10.06 | Version 2.10.07 and later |
| XNF-8010RV | Prior to version 2.10.06 | Version 2.10.07 and later |
| XNF-8010RVM | Prior to version 2.10.06 | Version 2.10.07 and later |
| XNF-8010RVMNB | Prior to version 2.10.06 | Version 2.10.07 and later |
| XNF-8010RVW | Prior to version 2.10.06 | Version 2.10.07 and later |
| XNF-8010RW | Prior to version 2.10.06 | Version 2.10.07 and later |
| QNF-8010 | Prior to version 2.10.02 | Version 2.10.03 and later |
| TNV-7010RC | Prior to version 2.10.02 | Version 2.10.03 and later |
| QNP-6320R | Prior to version 2.21.06 | Version 2.21.07 and later |
| QNP-6250R | Prior to version 2.21.06 | Version 2.21.07 and later |
| XNZ-L6320 | Prior to version 2.10.02 | Version 2.10.03 and later |
| XNZ-6320 | Prior to version 2.10.02 | Version 2.10.03 and later |
| XNO-6120 | Prior to version 2.10.03 | Version 2.10.04 and later |
| XND-6081REV | Prior to version 2.10.03 | Version 2.10.04 and later |
| XNV-6081RE | Prior to version 2.10.03 | Version 2.10.04 and later |
| XND-8081REV | Prior to version 2.10.03 | Version 2.10.04 and later |
| XNV-8081RE | Prior to version 2.10.03 | Version 2.10.04 and later |
| XNV-6012 | Prior to version 2.10.02 | Version 2.10.03 and later |
| XNV-6012M | Prior to version 2.10.02 | Version 2.10.03 and later |
| XNV-6013M | Prior to version 2.10.02 | Version 2.10.03 and later |
| XNV-6022R | Prior to version 2.10.02 | Version 2.10.03 and later |
| XNV-6022RM | Prior to version 2.10.02 | Version 2.10.03 and later |
| TNB-6030 | Prior to version 2.10.02 | Version 2.10.03 and later |
| KNB-2000 | Prior to version 2.10.09 | Version 2.23.01 and later |
| KNO-2080RN | Prior to version 2.10.09 | Version 2.23.01 and later |
| XNB-6000 | Prior to version 2.10.09 | Version 2.23.01 and later |
| XNO-6080R | Prior to version 2.10.09 | Version 2.23.01 and later |
| XNO-6080RS | Prior to version 2.10.09 | Version 2.23.01 and later |
| KNO-2120RN | Prior to version 2.10.05 | Version 2.23.01 and later |
| XNO-6120R | Prior to version 2.10.05 | Version 2.23.01 and later |
| XNO-6120RS | Prior to version 2.10.05 | Version 2.23.01 and later |

| | | |
|-------------|--------------------------|---------------------------|
| XNV-6120 | Prior to version 2.10.05 | Version 2.23.01 and later |
| XNV-6120R | Prior to version 2.10.05 | Version 2.23.01 and later |
| XNV-6120RS | Prior to version 2.10.05 | Version 2.23.01 and later |
| XNP-6371RH | Prior to version 2.10.04 | Version 2.23.01 and later |
| KND-2080RN | Prior to version 2.22.02 | Version 2.23.01 and later |
| XND-6080 | Prior to version 2.22.02 | Version 2.23.01 and later |
| XND-6080R | Prior to version 2.22.02 | Version 2.23.01 and later |
| XND-6080RV | Prior to version 2.22.02 | Version 2.23.01 and later |
| XND-6080RW | Prior to version 2.22.02 | Version 2.23.01 and later |
| XND-6080V | Prior to version 2.22.02 | Version 2.23.01 and later |
| XND-K6080N | Prior to version 2.22.02 | Version 2.23.01 and later |
| XNV-6080 | Prior to version 2.22.02 | Version 2.23.01 and later |
| XNV-6080R | Prior to version 2.22.02 | Version 2.23.01 and later |
| XNV-6080RS | Prior to version 2.22.02 | Version 2.23.01 and later |
| XNV-6080RSA | Prior to version 2.22.02 | Version 2.23.01 and later |
| XNV-6080RW | Prior to version 2.22.02 | Version 2.23.01 and later |
| XND-6085 | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-6085V | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-6085 | Prior to version 2.10.02 | Version 2.23.01 and later |
| KND-2020RN | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-6020R | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-6020R | Prior to version 2.10.02 | Version 2.23.01 and later |
| KND-5020RN | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-8020R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-8020RW | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-8030R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-8040R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-8020R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-8020RMN | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-8020RMP | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-8030R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-8040R | Prior to version 2.10.03 | Version 2.23.01 and later |
| KND-5080RN | Prior to version 2.10.04 | Version 2.23.01 and later |
| XND-8080R | Prior to version 2.10.04 | Version 2.23.01 and later |
| XND-8080RV | Prior to version 2.10.04 | Version 2.23.01 and later |
| XND-8080RW | Prior to version 2.10.04 | Version 2.23.01 and later |
| XNV-8080R | Prior to version 2.10.04 | Version 2.23.01 and later |
| XNV-8080RS | Prior to version 2.10.04 | Version 2.23.01 and later |
| XNV-8080RSA | Prior to version 2.10.04 | Version 2.23.01 and later |

| | | |
|-------------|--------------------------|---------------------------|
| XNV-8080RW | Prior to version 2.10.04 | Version 2.23.01 and later |
| KNO-5020RN | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNO-8020R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNO-8030R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNO-8040R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-6081F | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-6081RF | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-6081RV | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-6081 | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-6081R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-6081V | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-8081RF | Prior to version 2.10.03 | Version 2.23.01 and later |
| XND-8081RV | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-8081R | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNV-6011 | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-6011W | Prior to version 2.10.02 | Version 2.23.01 and later |
| KNO-2010RN | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNO-6010R | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNO-6020R | Prior to version 2.10.02 | Version 2.23.01 and later |
| QNP-6230 | Prior to version 2.10.02 | Version 2.23.01 and later |
| QNP-6230H | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNP-6320 | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNP-6320H | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNP-6320HS | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNP-6321 | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNP-6321H | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNP-6040H | Prior to version 2.10.03 | Version 2.23.01 and later |
| KNP-2120HN | Prior to version 2.10.03 | Version 2.23.01 and later |
| XNP-6120H | Prior to version 2.10.03 | Version 2.23.01 and later |
| KNP-2320RH | Prior to version 2.10.02 | Version 2.23.01 and later |
| KNP-2320RHA | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNP-6250RH | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNP-6320RH | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-6010 | Prior to version 2.10.02 | Version 2.23.01 and later |
| KND-2010 | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-6010 | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNB-6005 | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNO-6085R | Prior to version 2.10.02 | Version 2.23.01 and later |
| KNB-5000N | Prior to version 2.10.06 | Version 2.23.01 and later |

| | | |
|--------------|--------------------------|---------------------------|
| KNO-5080RN | Prior to version 2.10.06 | Version 2.23.01 and later |
| XNB-8000 | Prior to version 2.10.06 | Version 2.23.01 and later |
| XNO-8080R | Prior to version 2.10.06 | Version 2.23.01 and later |
| XNO-8080RW | Prior to version 2.10.06 | Version 2.23.01 and later |
| XND-6011F | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-8020F | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNZ-6320A | Prior to version 2.11.02 | Version 2.23.01 and later |
| XNZ-L6320A | Prior to version 2.11.02 | Version 2.23.01 and later |
| KNP-2550RHA | Prior to version 2.10.04 | Version 2.23.01 and later |
| XNP-6550RH | Prior to version 2.10.04 | Version 2.23.01 and later |
| XNO-L6120R | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-6081FZ | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-6081VZ | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-6081Z | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-8081FZ | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-8081VZ | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-8081Z | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-L6020R | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNO-L6020R | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-L6080R | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-L6080RV | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-L6080V | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNO-L6080R | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-L6080 | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-L6080R | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-L6080RVA | Prior to version 2.10.02 | Version 2.23.01 and later |
| XND-L6080VA | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNO-L6080RA | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-L6080A | Prior to version 2.10.02 | Version 2.23.01 and later |
| XNV-L6080RA | Prior to version 2.10.02 | Version 2.23.01 and later |
| QNP-6320H | Prior to version 2.21.06 | Version 2.23.01 and later |
| QNP-6320 | Prior to version 2.21.06 | Version 2.23.01 and later |
| QNP-6250H | Prior to version 2.21.06 | Version 2.23.01 and later |
| QNP-6250 | Prior to version 2.21.06 | Version 2.23.01 and later |
| XNP-6341RH | Prior to version 2.10.03 | Version 2.23.01 and later |
| PND-A6081RV | Prior to version 2.21.09 | Version 2.23.01 and later |
| PNV-A6081R | Prior to version 2.21.09 | Version 2.23.01 and later |
| PND-A9081RV | Prior to version 2.21.16 | Version 2.23.01 and later |
| PNV-A9081R | Prior to version 2.21.16 | Version 2.23.01 and later |