CYBERSECURITY ASSURANCE PROGRAM CERTIFICATE

Certificate Number:	ULCAP_164
Date of Issue:	2023-04-12
Date of Expiration:	2024-04-12
Certificate Holder:	Hanwha Vision Co Ltd 6, Pangyo-ro 319beon-gil, Bundang-gu Seongnam-si, Gyeonggi-do, 13488 KR
Certified Product:	WN7 4K/6MP Camera Series
Model:	XNB-9002, XND-9082RV, XND-9082RF, XNV-9082R, XNO-9082R, XNB-8002, XND-8082RV, XND-8082RF, XNV-8082R, XNO-8082R
Software Version:	2.22.00
Standard:	UL 2900-2-3 First Edition, Dated January 31, 2020
Security Level:	Level 2
NIST Vulnerability Database Date:	2023-03-29
Test Report Number:	4790720209-003

This is to certify that representative sample(s) of the Product described herein have been investigated and as of the date of testing, found in compliance with the Standard(s) indicated on this Certificate. UL does not provide any representation or guarantee that all security vulnerabilities or weaknesses will be found or that the product will not be vulnerable, susceptible to exploitation, or eventually breached. The designated Certificate Holder is entitled to market the Product in accordance with the UL Global Services Agreement and Cybersecurity Assurance Program Service Terms. This Certificate shall remain valid until the indicated Expiration Date unless terminated earlier in accordance with the Service Agreement or if the referenced Standard is amended or withdrawn. This Certificate in and of itself does not authorize the Certificate Holder to use any UL trademarks on the Certified Product. UL trademarks may only be used if the Certified Product is also covered under the applicable UL mark program(s).

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Conditions of Certificate

The following conditions must be met for the product to continue to be in compliance with this certificate:

1. This certificate covers the following firmware versions:
   - 2.22.00

2. This certificate covers the following devices:
   - Hanwha Vision WN7 4K IP Camera:
     XNB-9002, XND-9082RV, XND-9082RF, XNV-9082R, XNO-9082R
   - Hanwha Vision WN7 6MP IP Camera:
     XNB-8002, XND-8082RV, XND-8082RF, XNV-8082R, XNO-8082R

3. The IP cameras must be configured to the guidelines and specifications of the following documents:
   - 01_ULCAP_HTW_User Manuals_WN7 4K_6MP_2023_EN.pdf
   - 02_ULCAP_HTW_Online Help_XNB-9002,XNB-8002_2023_EN.pdf
   - 02_ULCAP_HTW_Online Help_XND-9082RV,XND-9082RF,XNV-9082R,XNO-9082R,XND-8082RV,XND-8082RF,XNV-8082R,XNO-8082R_2023_EN.pdf
   - 14_(IPCamera)Network_Hardening_Guide_En_20230306.docx – Protective Level
   - 16_ULCAP_HTW_SW security verification process_00_BB31-0015K_EN.docx
   - 19_ULCAP_HTW_SW Update & Patch Policy_V1.1_EN.docx

4. The following list contains protocols and/or services that have been assessed for this evaluation:
   - HTTP/HTTPS/TLS
   - RTP/RTCP/RTSP
   - SUNAPI/ONVIF
   - SNMPv3
   - Bonjour
   - UPnP
   - ARP
   - LLDP
   - ICMP
   - IGMP
   - MQTT

5. Source Code Analysis was conducted on the following software revisions:
   - XNV-9082R_2.22.00_20230216_R418.img

6. It is the responsibility of the end product owner to terminate authenticated web sessions by closing their browser.

7. All implementations of the protocols and/or services which are out-of-scope will have to be evaluated by the end product owner.