

TEST REPORT

**CTK Co., Ltd.**

5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:

CTK-2025-02258

Page (1) / (30) pages

1. Applicant

- Name : Hanwha Vision Co., Ltd
- Address : 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13488 KOREA
- Date of Receipt : Jan. 20, 2025

2. Manufacturer

- Name : HANWHA VISION VIETNAM COMPANY LIMITED
- Address : Lot O-2, Que Vo Industrial Zone extended area, Nam Son ward,
Bac Ninh city, Bac Ninh province, Vietnam

3. Use of Report :

Quality control

4. Test sample / Model :

NETWORK CAMERA / XNV-A9084R

5. Date(s) of test :

Feb. 18, 2025~ Feb. 25, 2025

6. Test Standard (Method) used :

NEMA 250-2014

Enclosures for Electrical Equipment (1000 Volts Maximum)

7. Testing Environment :

Temperature: (25 ±10) °C, Humidity: (50 ±25) % R.H.

Pressure: (96 ±10) kPa

8. Test Results :

Refer to the test results

9. Location of Test :☒ Permanent Testing Lab ☐ On Site Testing

(5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Affirmation	Tested by	Technical Manager
	HyungUk Jeon (Signature)	HoHyun Lee (Signature)

Remark. This report is not related to KOLAS accreditation and relevant regulation.

Sep. 21, 2025

CTK Co., Ltd.

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REPORT No.:
CTK-2025-02258
Page (2) / (23) pages

Table of Contents

1. Testing laboratory	3
1.1 Testing laboratory information	3
1.2 Testing laboratory accreditation status	3
2. Product description and equipment information	3
2.1 Product description	3
2.2 Manufacturer information	4
2.3 Equipment information	6
2.4 Pre-test product images	7
2.5 Testing equipment images	8
3. Test Information	9
3.1 Test item particulars and Possible test case verdicts	9
3.2 General remarks and factory information	9
3.3 Type 4X Test information	11
3.4 NEMA 250-2014 Test list	13
3.5 Attachment 1 – Construction Diagram and installation method	16
3.6 Attachment 2 – Parts List	18
4. Hose Down Test (Clause 5.7)	20
4.1 Test date and environmental conditions	20
4.2 Test Conditions and methods	20
4.3 Attachment 3 – Photographs	21
5. Test result	22
5.1 Test result table	22
5.2 Post-test product images	23

	CTK Co., Ltd. 5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501	REPORT No. : CTK-2025-02258 Page (3) / (23) pages	
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1. Testing laboratory

1.1 Testing laboratory information

Lab. Name	CTK Co., Ltd.
Address	5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Tel.	031-339-9970
Fax.	031-624-9501
E-Mail	all.yongin@element.com
Website	www.elementkorea.kr

1.2 Testing laboratory accreditation status

Country	Classification	Accreditation Number	Logo
International	KOLAS	TESTING NO. KT119	

2. Product description and equipment information

2.1 Product description

Product Name	Model Name	Quantity	Comment
NETWORK CAMERA	XNV-A9084R	1 EA	—



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REPORT No.:

CTK-2025-02258

Page (4) / (23) pages

2.2 Manufacturer information

Test item description : NETWORK CAMERA

Trade Mark :



Manufacturer : Lot O-2, Que Vo Industrial Zone extended area, Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam

Model/Type reference : XNV-A9084R

Ratings :
Electrical
XNV-A9084R PoE 48 V ≡ 11.2 W , PoE 48 V ≡ 0.23 A
XNV-A8084R PoE 48 V ≡ 9.4 W , PoE 48 V ≡ 0.2 A
XNV-A6084R PoE 48 V ≡ 10.2 W , PoE 48 V ≡ 0.21 A

Dimension:

Ø8.5*4 by 106.76 mm, Ø90.1 by 282.91 mm, Ø18 by 56.52 mm
Ø25*2 by 157 mm, Ø 140 by 439.6 mm

List of Attachments (including a total number of pages in each attachment):

Attachment 1: 16-17 pages (Construction Diagram including installation method)

Attachment 2: 18-19 pages (Parts List)

Attachment 3: 21-23 pages (photographs)

Summary of testing:

Tests performed (name of test and test clause):
Clause 5.7(Hose Down Test)

Testing location:

CTK Co., Ltd.

5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea

Copy of marking plate: The artwork above may be only a draft.

제품명칭: NETWORK CAMERA

모델명: XNV-A9084R

정격전압: PoE(48V ≡) 11.2W

M/C: XNV-A9084R/KDO Fac. ID: D

DATE S/N: XXXXXXXXXXXXXXXX

MAC ADDRESS: XX-XX-XX-XX-XX-XX

인증번호: R-R-HWVS-XNVA9084R

상호: 한화비전(주)

제조사/제조국가:한화비전(주)/한국



NETWORK CAMERA,XNV-A9084R
PoE (48V ≡) 0.23A

M/C: XNV-A9084R/KEX Fac.ID:D

DATE S/N: XXXXXXXXXXXXXXXX

MAC ADDRESS: XX-XX-XX-XX-XX-XX

CAN ICES-3(A)/NMB-3(A)

HANWHA VISION CO.,LTD.

MADE IN KOREA

Rainproof/ Étanche
IP66 and IP67



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REPORT No.:

CTK-2025-02258

Page (5) / (23) pages

제품명칭: NETWORK CAMERA

모델명: XNV-A8084R

정격전압: PoE(48V ~) 9.4W

M/C: XNV-A8084R/KDO Fac. ID: D

DATE S/N:XXXXXXXXXXXXXX
MAC ADDRESS: XX-XX-XX-XX-XX-XX

인증번호: R-R-HWVS-XNVA8084R

상호: 한화비전(주)

제조사/제조국가:한화비전(주)/한국



NETWORK CAMERA,XNV-A8084R
PoE (48V ~) 0.2A

M/C: XNV-A8084R/KEX Fac.ID:D

DATE S/N:XXXXXXXXXXXXXX
MAC ADDRESS: XX-XX-XX-XX-XX-XX

CAN ICES-3(A)/NMB-3(A)
HANWHA VISION CO.,LTD.
MADE IN KOREA

Rainproof/ Étanche
IP66 and IP67

제품명칭: NETWORK CAMERA

모델명: XNV-A6084R

정격전압: PoE(48V ~) 10.2W

M/C: XNV-A6084R/KDO Fac. ID: D

DATE S/N:XXXXXXXXXXXXXX
MAC ADDRESS: XX-XX-XX-XX-XX-XX

인증번호: R-R-HWVS-XNVA6084R

상호: 한화비전(주)

제조사/제조국가:한화비전(주)/한국



NETWORK CAMERA,XNV-A6084R
PoE (48V ~) 0.21A

M/C: XNV-A6084R/KEX Fac.ID:D

DATE S/N:XXXXXXXXXXXXXX
MAC ADDRESS: XX-XX-XX-XX-XX-XX

CAN ICES-3(A)/NMB-3(A)
HANWHA VISION CO.,LTD.
MADE IN KOREA

Rainproof/ Étanche
IP66 and IP67

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REPORT No. :
CTK-2025-02258
Page (6) / (23) pages

2.3 Equipment information

Testing equipment	Model Name	Manufacturer	Manufacturing Number	Effective Calibration Date
25.4mm Nozzle	S3-IP18	CTK	S3-IP18	-
Temperature & Humidity Chamber	TH-GA-408	JEIO TECH	X110169	Aug.23,2025
Area flow meter	FT220-VM	NURITECH	01	Feb.28,2025
Stop Watch	NONE	Casio	612Q01R-1	Jan.15,2027
Digital Vernier Calipers	100 mm	MITUTOYO	A17179462	-



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REPORT No.:
CTK-2025-02258
Page (7) / (23) pages

2.4 Pre-test product images



Top



Bottom



Front



Rear



Left side



Right side



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REPORT No.:
CTK-2025-02258
Page (8) / (23) pages

2.5 Testing equipment images



25.4mm Nozzle



Temperature & Humidity Chamber



Area flow meter



Stop Watch



Stop Watch



Digital Vernier Calipers

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Fax: +82-31-624-9501

REPORT No. :
CTK-2025-02258
Page (9) / (23) pages

3. Test Information

3.1 Test item particulars and Possible test case verdicts

Test item particulars	Network Camera
Classification of installation and use	Outdoor (Watertight/Corrosion Resistant)
Possible test case verdicts:	
- test case does not apply to the test object.... :	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement.... :	F (Fail)
- test case does not evaluate to the test object:	N/E

3.2 General remarks and factory information

General remarks:
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator. Clause numbers between brackets refer to clauses in NEMA 250-2014

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REPORT No. :
CTK-2025-02258
Page (10) / (23) pages

Name and address of factory (ies):**1. HANWHA VISION VIETNAM COMPANY LIMITED**

Lot O-2, Que Vo Industrial Zone extended area, Nam Son ward, Bac Ninh city, Bac Ninh province, Vietnam

2. D-TECH CO., LTD.

173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)

Basic Model	XNV-A9084R
Series Model	XNV-A8084R, XNV-A6084R
Model differences	The model differences are only for function not related to the quality of enclosure integrity

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REPORT No.:

CTK-2025-02258

Page (11) / (23) pages

3.3 Type 4X Test information

Type 4X

Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (falling dirt and windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water); that provides an increased level of protection against corrosion; and that will be undamaged by the external formation of ice on the enclosure.

Table 2-1
Comparison of Specific Applications of Enclosures for Indoor Nonhazardous
(Unclassified) Locations

Provides a Degree of Protection against the Following Conditions	Type of Enclosure									
	1	2	4	4X	5	6	6P	12	12K	13
Access to hazardous parts	X	X	X	X	X	X	X	X	X	X
Ingress of solid foreign objects (falling dirt)	X	X	X	X	X	X	X	X	X	X
Ingress of water (dripping and light splashing)	...	X	X	X	X	X	X	X	X	X
Ingress of solid foreign objects (circulating dust, lint, fibers, and flyings **)	...	...	X	X	...	X	X	X	X	X
Ingress of solid foreign objects (settling airborne dust, lint, fibers, and flyings **)	...	...	X	X	X	X	X	X	X	X
Ingress of water (hosedown and splashing water)	...	...	X	X	...	X	X	...	...	...
Oil and coolant seepage	...	...	...	...	...	...	...	X	X	X
Oil or coolant spraying and splashing	...	...	...	...	...	...	...	...	...	X
Corrosive agents	...	...	...	X	...	...	X	...	...	...
Ingress of water (occasional temporary submersion)	...	...	...	...	...	X	X	...	...	...
Ingress of water (occasional prolonged submersion)	...	...	...	...	...	...	X	...	...	...

** These fibers and flyings are not considered Class III type ignitable fibers or combustible flyings. For Class III type ignitable fibers or flyings see the *National Electrical Code®*, Article 500.5(D).

Table 2-2
Comparison of Specific Applications of Enclosures for Indoor & Outdoor Nonhazardous
(Unclassified) Locations

Provides a Degree of Protection Against the Following Conditions	Type of Enclosure									
	3	3X	3R	3RX	3S	3SX	4	4X	6	6P
Access to hazardous parts	X	X	X	X	X	X	X	X	X	X
Ingress of solid foreign objects (falling dirt)	X	X	X	X	X	X	X	X	X	X
Ingress of water (dripping and light splashing)	X	X	X	X	X	X	X	X	X	X
Ingress of water (rain, snow, and sleet **)	X	X	X	X	X	X	X	X	X	X
Sleet ***	...	...	...	...	X	X	...	...	...	...
Ingress of solid foreign objects (windblown dust, lint, fibers, and flyings****)	X	X	...	...	X	X	X	X	X	X
Ingress of water (hosedown and splashing water)	...	...	...	...	...	...	X	X	X	X
Corrosive agents	...	X	...	X	...	X	...	X	...	X
Ingress of water (occasional temporary submersion)	...	...	...	...	...	...	...	...	X	X
Ingress of water (occasional prolonged submersion)	...	...	...	...	...	...	...	...	...	X

** External operating mechanisms are not required to be operable when the enclosure is ice covered.

*** External operating mechanisms are operable when the enclosure is ice covered. See subsection 5.6.

**** These fibers and flyings are not considered Class III type ignitable fibers or combustible flyings. For Class III type ignitable fibers or flyings see the *National Electrical Code®*, Article 500.5(D).

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REPORT No. :
CTK-2025-02258
Page (12) / (23) pages

Table 5-1A
Degrees of Protection Against Access to Hazardous Parts

Enclosure Type	Test Conditions	Degree of Protection		Corresponding IP First Characteristic Numeral
		Brief Description	Definition	
4X	5.7	Protected against access to hazardous parts with a wire	An access probe of 1.0 mm shall not penetrate	6

Table 5-1B
Degrees of Protection Against Solid Foreign Objects

Enclosure Type	Test Conditions	Degree of Protection		Corresponding IP First Characteristic Numeral
		Brief Description	Definition	
4X	<u>Non-vented</u> 5.7	Windblown dust protected	No ingress of dust	6
	<u>Vented</u> 5.5.1 Dust Blast Method			

Table 5-1C
Degrees of Protection against Water

Enclosure Type	Test Conditions	Degree of Protection		Corresponding IP Second Characteristic Numeral
		Brief Description	Definition	
4X	5.7	Protected against hose directed water	Water projected against the enclosure in any direction shall not enter	6 No Ingress Allowed*

Table 5-1D
Additional Protection

Enclosure Type	Test Conditions	Additional Protection		Corresponding IP Second Characteristic Numeral
		Brief Description	Definition	
4X	5.6 5.9 5.10	Special corrosion protection and undamaged by the external formation of ice	Enclosure provides increased corrosion protection and is not damaged by ice that forms on the outside	None

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REPORT No. :
CTK-2025-02258
Page (13) / (23) pages

3.4 NEMA 250-2014 Test list

NEMA 250-2014			
Clause	Requirement + Test	Result – Remark	Verdict
3	CONSTRUCTION		
3.1	General		P
3.2	Units of Measurement		P
3.3	Materials-General	Enclosures are made of metal or polymeric materials	P
3.4	Materials-Polymeric	More than 650 mm ² (1 in ²) in area Polymeric Materials used is declared as Min. V-2 Used to UL certified material. (See the attachment 2)	N/E
3.5	Corrosion Protection	Stainless steel and/or aluminium are declared as the materials used (See the attachment 2)	N/E
3.6	Openings	No openings in Product	N/A
3.7	Mounting	Mounting means are external to the equipment cavity (See the attachment 1)	P
3.8	Conduit Connection	No conduit connection (See the attachment 1)	N/A
3.9	Hubs and Fittings	No Hubs and Fittings	N/A
3.10	Knockouts	No Knockouts	N/A
3.11	External Operating Mechanisms	No External Operating Mechanisms	N/A
3.12	Access to Interior	Needs tool to open unit	P
3.13	Closing Hardware	No closing Hardware	N/A

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REPORT No. :
CTK-2025-02258
Page (14) / (23) pages

NEMA 250-2014

Clause	Requirement + Test	Result – Remark	Verdict
3.14	Gaskets	Gaskets made of a silicone Sponge Rubber (no Elastomeric or Thermoplastic used) (See clause 5.14 and the attachment 2)	P
3.15	Observation Windows	No Observation Window	N/A

4	MARKING		
4.1	Type Designations	“Type 4X” Marking is declared to be on the product before on the market	P
4.2	Supplemental Markings	Supplemental Marking (watertight/corrosion resistant) is declared to be used when it is on the market. The required marking shall be added on the product)	P
4.3	Location of Markings	See the Attachment 3	P
4.4	Enclosure Orientation	No Particular Mounting Orientation	N/A
4.5	Conduit Hubs and Closure Plates	No Conduit Hubs and Closure Plates	N/A
4.6	Equipment Openings	No Openings on Unit	N/A
4.7	Drainage Openings	No Drain Openings	N/A

5	DESIGN TESTS		
5.1	General	See Table 5-1A to 5-1D and 5.1.5 in the General product information	P
5.2	Tests For Protection Against Access to Hazardous Parts	Rated 4X	N/A
5.3	Tests for Protection Against Ingress of Water (Dripping and Light Splashing)	Rated 4X	N/A

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REPORT No. :
CTK-2025-02258
Page (15) / (23) pages

NEMA 250-2014

Clause	Requirement + Test	Result – Remark	Verdict
5.4	Tests for Protection Against Ingress of Water (Rain)	Rated 4X	N/A
5.5	Tests for Protection Against Ingress of Solid Foreign Objects (Setting Airborne Dust, Lint, Fibers, And Flings)	Non-vented (See clause 5.7)	N/A
5.6	External Icing Test	No external cavities to trap water when mounted in the normal position.	N/A
5.7	Tests for Protection Against Ingress of Water (Hosedown)	No entry of water See the test information	P
5.8	Indoor Corrosion Protection (Rust-Resistance Test (24-Hour Salt Spray Test))	See clause 3.5	N/E
5.9	Outdoor Corrosion Protection	See clause 3.5	N/E
5.10	Corrosion Protection-Type 3X, 3RX, 3SX, 4X Or 6P Enclosures	See clause 3.5	N/E
5.11	Test for Protection Against Ingress of Water (Temporary Submersion)	Rated 4X	N/A
5.12	Test for Protection Against Ingress of Water (Prolonged Submersion)	Rated 4X	N/A
5.13	Oil Exclusion Test	Rated 4X	N/A
5.14	GASKET MATERIAL TESTS	The product itself(including gaskets) was conditioned at 70 °C for 168 hrs according to 5.14.3(Alternate Evaluation) before performing relevant required tests.	P
5.15	Test for Sharpness of Edges	No sharp edges	P

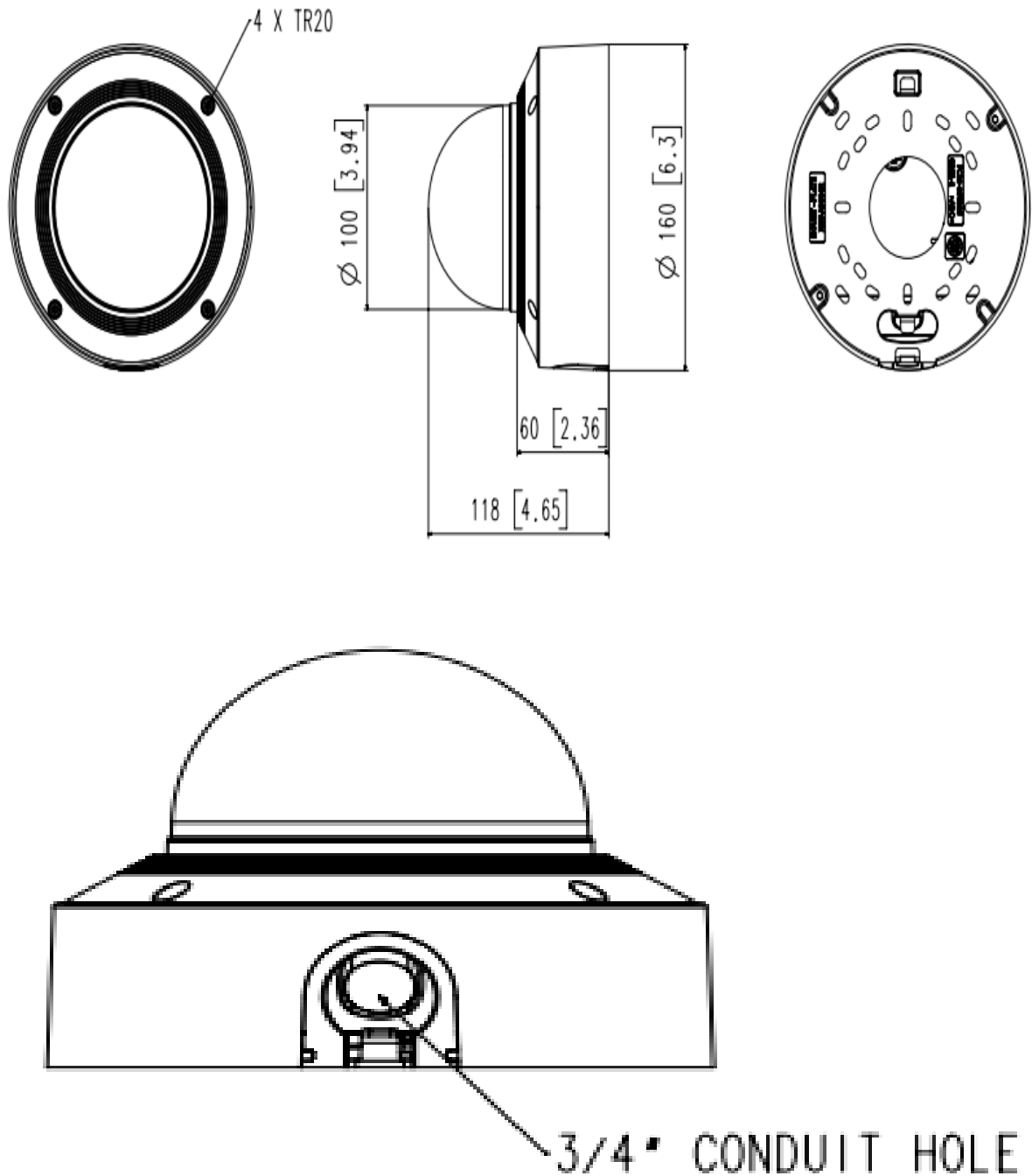


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REPORT No.:
CTK-2025-02258
Page (16) / (23) pages

3.5 Attachment 1 – Construction Diagram and installation method





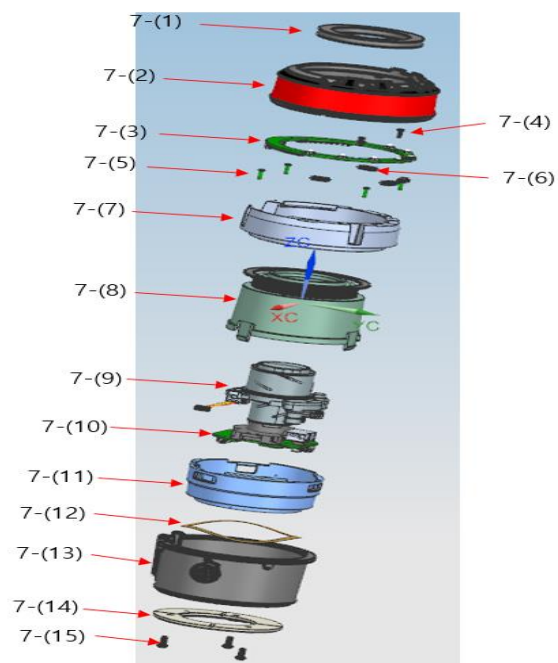
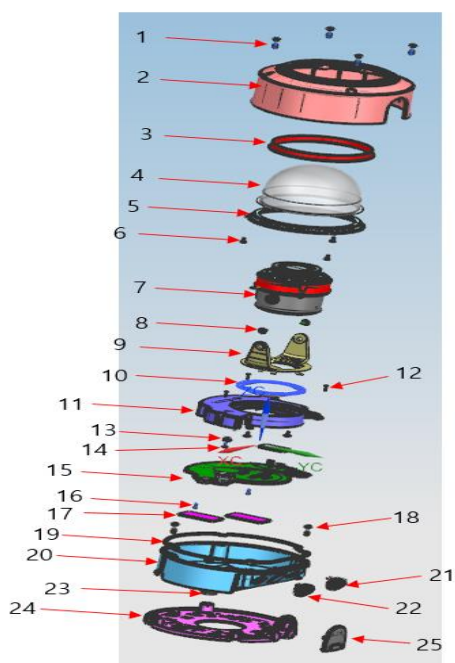
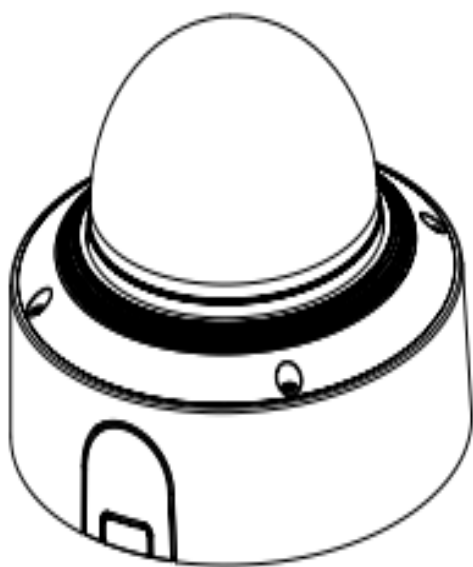
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REPORT No.:

CTK-2025-02258

Page (17) / (23) pages



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REPORT No.:

CTK-2025-02258

Page (18) / (23) pages

3.6 Attachment 2 – Parts List

No	Part Number	Part Name	ea	비고
		XND-A9084RV/A8084RV_XNV-A9084R/A8084R	1	
1	FC18-004000A	SCREW-SPECIAL:PH,TR20,M4,L7+5,SUS,FP	4	
	FC29-013914E	CASE-TOP_X-CORE_VANDAL_HANWHA;;	1	
3	FC10-001168A	RUBBER-DOME-IR_XPLUS;RUBBER,-	1	
4	FC15-006668B	COVER-DOME;HARD-COATING,100,65	1	
5	FC09-012329C	BRACKET-DOME_X-CORE;;	1	
6	FC18-006373A	SCREW,TAPTITE-M3_L6_BLK;1,L6,-,-	3	
7		LENS ASSY	1	
7-(1)	FC29-011588A	HOOD-LENS_XPLUS_2M;PSR	1	
7-(2)	FC29-012952A	HOOD-IR_XNV-9082R;RUBBER	1	
7-(3)	AM06-011673A	ASSY,PCB-XNV-A9084R IR LED	1	
7-(4)	Z6001055201A	SCREW-MACHINE;6001-001708,BH,+,M2,L5,ZP	2	
7-(5)	Z6003019601A	SCREW-TAPTITE:PH,+,M2,L6,BLK,B-TYPE	4	
7-(6)	FC28-002363A	PAD-THERMAL_W8_D4_T1	4	
7-(7)	FC39-006142A	FRAME-IR_XNV-9082R;ALDC	1	
7-(8)	FC15-007206J	COVER-FRONT-XNV-A9084R;PC;RECYCLE	1	
7-(9)	EP14-001325	LENS SET-YT30033DB.IR-8MP+H151+IR0507;P-	1	XNV-A9084R
	EP14-001326	LENS SET-YT0W2Z53DB.IR-PIRIS-JZ-5MP+H82;	1	XNV-A8084R
7-(10)	AM06-011675A	ASSY,PCB-XNV-A9084R SENSOR	1	XNV-A9084R
	AM06-011679A	ASSY,PCB-XNV-A8084R SENSOR	1	XNV-A8084R
7-(11)	FC15-008198A	COVER-REAR-XNV-C9083R;ADC12	1	XNV-A9084R
	FC15-008198C	COVER-REAR-XNV-A8084R;ADC12	1	XNV-A8084R
7-(12)	FC18-005134B	WASHER,WAVE-TILT_XPLUS_REV01;WAVE WASHER	1	
7-(13)	FC39-005613B	FRAME-TILT_XPLUS;PC;RECYCLE	1	
7-(14)	FC30-006426B	PLATE-TILT_XPLUS;PC;RECYCLE	1	

7-(15)	Z9642306007	MACHINE SCREW(M3xL6,Zn-B,넵비머리)	3	
8	FC18-006193A	SCREW-TAPTITE : PWH,+,M3,L8,BLK,B-TYPE	2	
9	FC39-007937A	FRAME-PAN;XNV-A9084R;PC	1	
10	FC18-005953A	WASHER,WAVE-X-CORE;;,70	1	
11	FC39-007936A	FRAME-MAIN;XNV-A9084R;PC	1	
12	Z9642308001	SCREW-MACHINE:PH,+,M3,L8,WHT,FP	3	
13	FC29-017975A	STOPPER-PAN;XNV-A9084R;PC	1	
14	Z6009001301A	TAPPING SCREW(M3xL6,와샤볼이형머리,Zn-B)	1	
15	AM06-011677A	ASSY,PCB-XNV-A9084R NETWORK	1	XNV-A9084R
	AM06-011681A	ASSY,PCB-XNV-A8084R NETWORK	1	XNV-A8084R
16	Z6003013801A	SCREW-TAPTITE:BH,+,M3,L8,BLK,B-TYPE	2	
17	FC28-003323A	PAD-THERMAL-42X20X2T;K=7W/M-K	2	
18	FC18-004000A	SCREW-SPECIAL:PH,TR20,M4,L7+5,SUS,FP	2	
19	HP07-001619A	GASKET-BOTTOM_X-CORE	1	
20	FC29-017974B	CASE-BOTTOM;XND-A9084RV;AL	1	
21	MC06-001201A	BUSHING-DUMMY_16MM;RB	1	
22	MC06-001203A	BUSHING-CABLE-FLEXIBLE;SILICON,TUBE T0.5	1	
23	HP06-001350	VENT-GORE_PMF100319;MEMBRANE,SCREW IN	1	
24	FC39-007935A	MOUNT-PLATE;XNV-A9084R;AL	1	
25	FC15-008194B	COVER-CONDUIT_X-CORE;RECYCLE	1	



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REPORT No.:

CTK-2025-02258

Page (19) / (23) pages

Component - Plastics

Guide Information

View Certificate of Compliance

E115797

LOTTE CHEMICAL CORPORATION

56 Gosan-ro, Ulsang-si Gyeonggi-do 16073 KR

GC-1021F, GC-1022F, GC-1023F, GC-1024F, GC-1025F, GC-1026F, GC-1027F, GC-1028F, GC-1029F(F1)

Polycarbonate (PC), recycled "INFINO", furnished as pellets [contains mechanically recycled content]

Color	Min. Thk (mm)	Flame Class	HVI	HAI	RTI Elec (°C)	RTI Imp (°C)	RTI Str (°C)
ALL	0.75	V-2	4	4	80	80	80
	1.0	V-2	-	-	80	80	80
	1.2	V-1	4	4	80	80	80
	1.5	V-0	3	3	130	130	130
	3.0	V-0	-	-	130	130	130

Comparative Tracking Index (CTI): 3

Dielectric Strength (kV/mm): 24.3

High-Voltage Arc Tracking Rate (HVTR): -

Dimensional Change (%): -

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10¹² ohm-cm): -

Surface Resistivity (10¹² ohms/square): -

High Volt, Low Current Arc Resis (D495): -

(F1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1995-06-24

Last Revised: 2024-07-24

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IEC and ISO Test Methods		Units		Thk (mm)	
Test Name	Test Method	Class (color)			Value
Flammability	IEC 60695-11-10			0.75	V-2 (ALL)
				1.0	V-2 (ALL)
				1.2	V-1 (ALL)
				1.5	V-0 (ALL)
				3.0	V-0 (ALL)
Glow-Wire Flammability (GWF1)	IEC 60695-2-12	°C		1.5	930
				3.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C		1.5	825
				3.0	825
IEC Comparative Tracking Index	IEC 60112	Volts (Max)		-	-
IEC AC Dielectric Strength (AC DS)	IEC 60243-1	kV/mm		-	-
IEC DC Dielectric Strength (DC DS)	IEC 60243-2	kV/mm		-	-
IEC Volume Resistivity (VR)	IEC 62631-3-1	10 ¹² ohm-m		-	-
IEC Surface Resistivity (SR)	IEC 62631-3-2	10 ¹² ohms		-	-
IEC Inclined Plane Tracking (IPT)	IEC 60587	kV		-	-
IEC Salt Pressure	IEC 60695-10-2	°C		-	130
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C		-	-
ISO Tensile Strength	ISO 527-2	MPa		-	-
ISO Flexural Strength	ISO 178	MPa		-	-
ISO Tensile Impact	ISO 8256	kJ/m ²		-	-
ISO Izod Impact	ISO 180	kJ/m ²		-	-
ISO Charpy Impact	ISO 179-1	kJ/m ²		-	-

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REPORT No. :
CTK-2025-02258
Page (20) / (23) pages

4. Hose Down Test (Clause 5.7)

4.1 Test date and environmental conditions

4.1.1 Test date: Feb. 18, 2025~ Feb. 25, 2025

4.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	16.5	40.2	98.1

4.2 Test Conditions and methods

4.2.1 Description of Test

The enclosure and its external mechanisms were subjected to a stream of water from a hose that has a 25.4 mm (1 in) inside diameter nozzle and delivers at least 240 L (65 gal) per minute. The nozzle was held from 3.0 to 3.5 m (10 to 12 feet) from the enclosure, and the spray of water was directed at all points of potential water entry such as seams, joints, external operating mechanisms, and such. The nozzle was moved along each test point one time at a uniform rate of 6 mm/sec (1/4 in/sec).

4.2.2 Sample Dimension

Ø100 mm by 314 mm, Ø160 by 502.4 mm, Ø8*4 by 100.48 mm

Ø25*2 by 157 mm

Test Duration = 178.98 secs

4.2.3 Acceptance conditions

The enclosure shall be considered to have met the requirements if at the conclusion of the test no water has entered the enclosure



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REPORT No.:
CTK-2025-02258
Page (21) / (23) pages

4.3 Attachment 3 – Photographs

4.3.1 Hose down test



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REPORT No. :
CTK-2025-02258
Page (22) / (23) pages

5. Test result

5.1 Test result table

Sample No (Model)	Water Flow	Presence of water inside	Result
XNV-A9084R	240 LPM	No	Nomal

※ Refer to the product photos after the completion of testing in section 5.2.

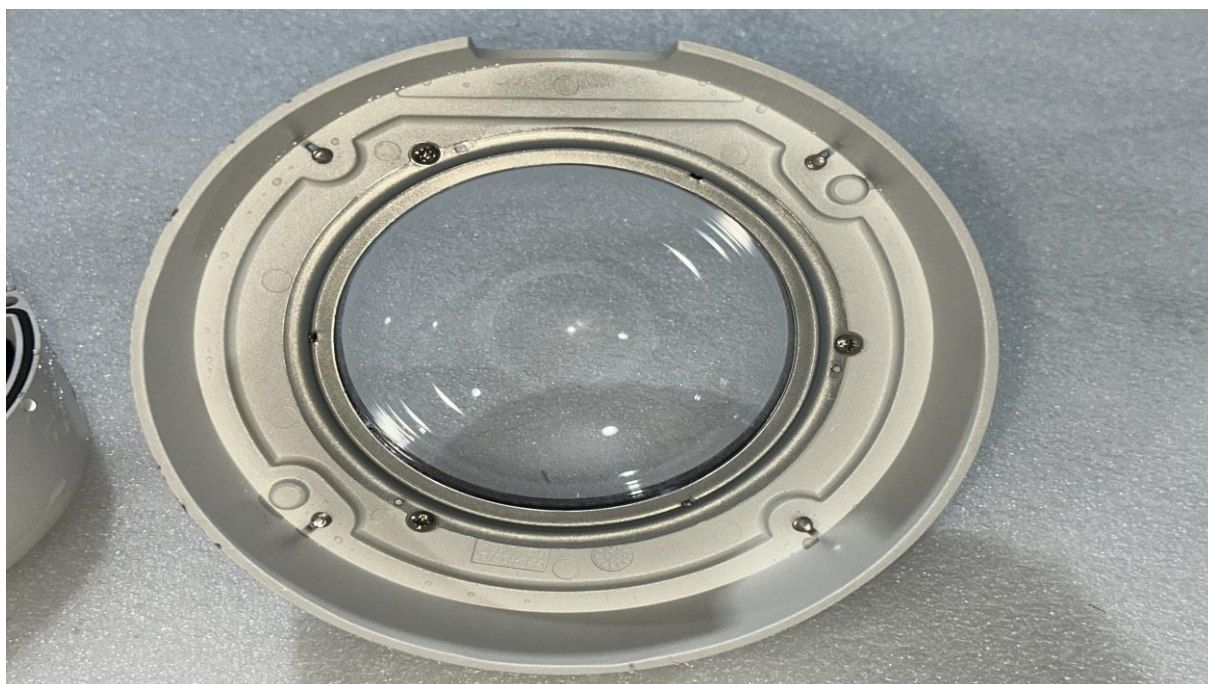


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REPORT No.:
CTK-2025-02258
Page (23) / (23) pages

5.2 Post-test product images



- End -