

TEST REPORT

 CTK Co., Ltd. The Prime Leader of Global Regulatory Certification	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-2022-02139 Page (1) / (28) pages	
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1. Applicant

- Name: Hanwha Techwin Co., Ltd.
- Address: 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488 KOREA
- Date of Receipt: 2022-08-03

2. Manufacturer

- Name: HANWHA TECHWIN SECURITY VIETNAM CO.,LTD
- Address: Lot O-2, Que Vo Industrial Zone extended area, Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam

3. Use of Report : Quality Control

4. Test sample / Model: NETWORK CAMERA / XNV-9083RZ

5. Date(s) of test: 2022-08-04 to 2022-08-11

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

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

7. Test Standard (Method) used: NEMA 250-2014 Enclosures for Electrical Equipment (1000 Volts Maximum)

8. Testing Environment : Temperature: (25.0 ± 5.0) °C, Humidity: (40.0 ± 5.0) %

9. Results: Pass

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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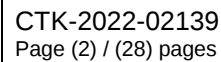
Approval	Tested by:	Technical Manager:
	Min-Gi Mun  (Signature)	WonHyeon Choi  (Signature)

Remark, this report is not related to KOLAS accreditation and relevant regulation

2022-08-16

CTK Co., Ltd.





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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 evaluated to the test object :	N/E

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				
Name and address of factory (ies): 1. HANWHA TECHWIN SECURITY VIETNAM CO., LTD Lot O-2, Que Vo Industrial Zone extended area, Nam Son commune, 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)				
General product information: Applied NEMA Rating: 4X Model XNV-9083RZ is basic model which was tested.				
<table border="1"> <tr> <td>Basic Model</td> <td>XNV-9083RZ</td> </tr> <tr> <td>Series Model</td> <td>XNV-8083RZ, XNV-6083RZ, XNV-8083Z, XNV-6083Z</td> </tr> </table>	Basic Model	XNV-9083RZ	Series Model	XNV-8083RZ, XNV-6083RZ, XNV-8083Z, XNV-6083Z
Basic Model	XNV-9083RZ			
Series Model	XNV-8083RZ, XNV-6083RZ, XNV-8083Z, XNV-6083Z			
Model differences: XNV-9083RZ and XNV-8083RZ, XNV-6083RZ, XNV-8083Z, XNV-6083Z The model differences are only product sensor/lens				



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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).

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			



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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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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
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		
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NEMA 250-2014			
Clause	Requirement + Test	Result - Remark	Verdict
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	
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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
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

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NEMA 250-2014			
Clause	Requirement + Test	Result - Remark	Verdict
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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NEMA 250-2014			
Clause	Requirement + Test	Result - Remark	Verdict

Test Information

	Hose Down Test: Clause 5.7	P
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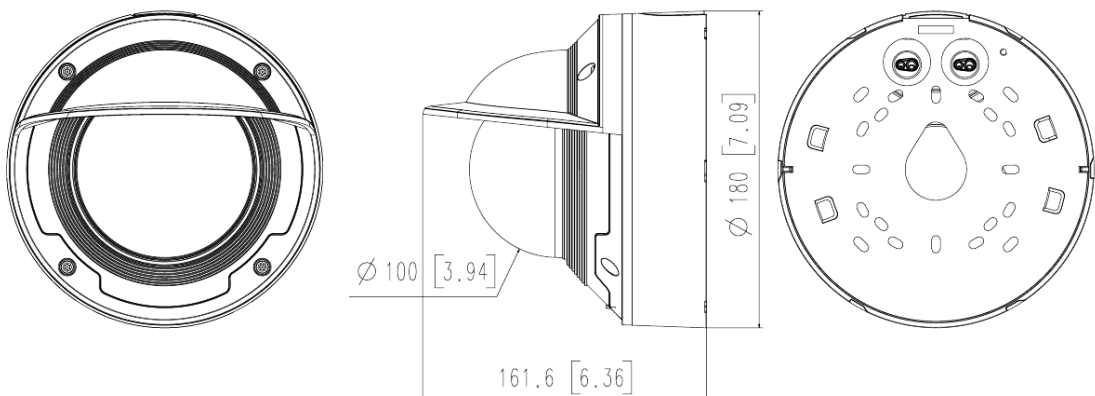
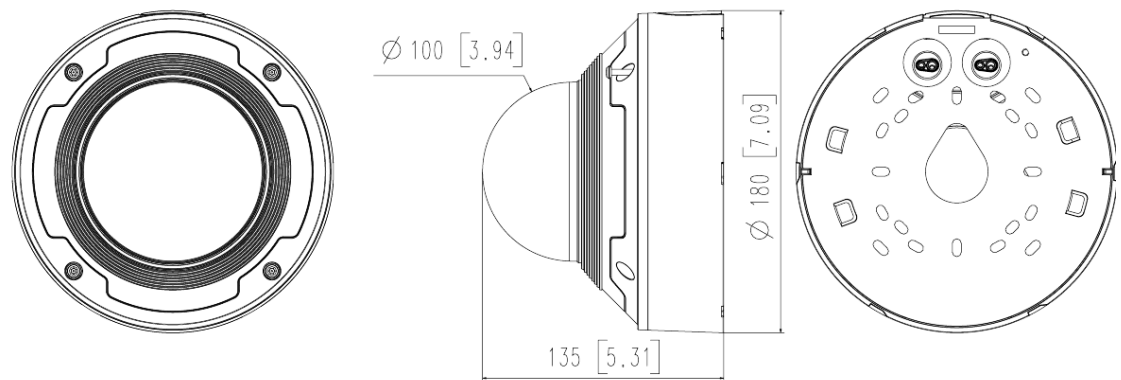
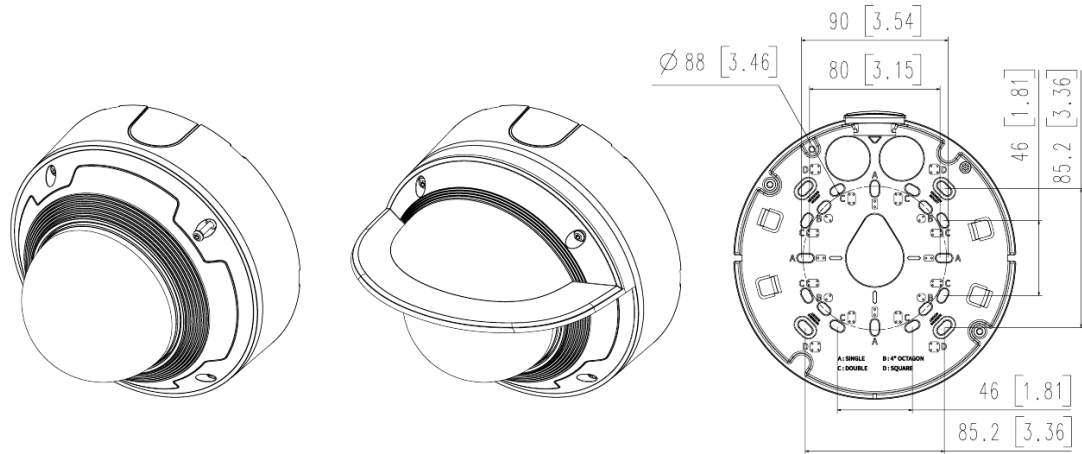
<u>Description of Test</u> The enclosure and its external mechanisms were subjected to a stream of water from a hose that has a 25.4 mm (1 in) inside diameter nozzle and delivers at least 240 L (65 gal) per minute. The nozzle was held from 3.0 to 3.5 m (10 to 12 feet) from the enclosure, and the spray 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). Sample Dimension (Ø 10*4 mm by 125.6 mm, Ø 100 mm by 314 mm, Ø 170 mm by 533.8 mm, Ø 25*2 mm by 157 mm, Ø 15 mm by 47.1 mm) Test Duration = 196.25 secs <u>Acceptance conditions:</u> The enclosure shall be considered to have met the requirements if at the conclusion of the test no water has entered the enclosure <u>Test Results</u> <table border="1" data-bbox="228 1234 1508 1328"> <thead> <tr> <th>Sample No (Model)</th><th>Water Flow</th><th>Presence of water inside</th><th>Result</th></tr> </thead> <tbody> <tr> <td>XNV-9083RZ</td><td>240 LPM</td><td>No</td><td>Pass</td></tr> </tbody> </table>				Sample No (Model)	Water Flow	Presence of water inside	Result	XNV-9083RZ	240 LPM	No	Pass
Sample No (Model)	Water Flow	Presence of water inside	Result								
XNV-9083RZ	240 LPM	No	Pass								

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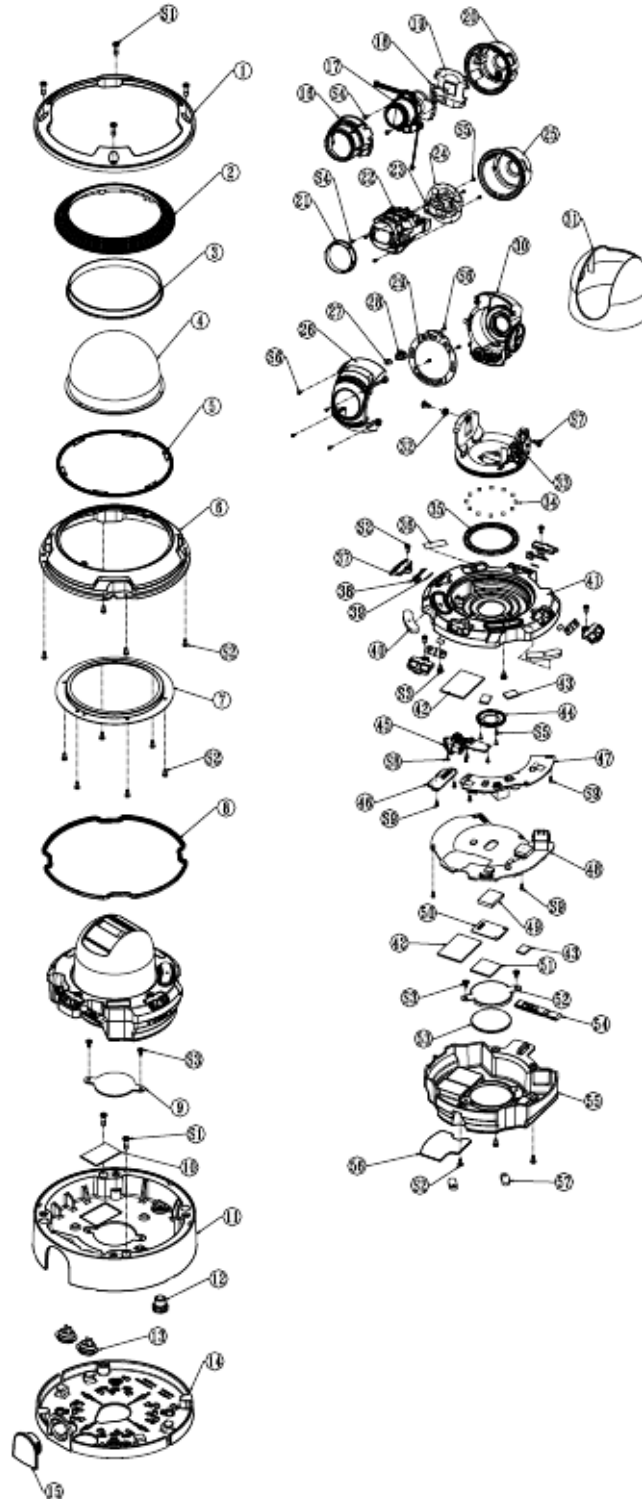
List of test equipment used:

Instr. Code	Instrument Type	Range Used	Mfr./Model	Calibration Date	
				Last	Due
S3-IP18	25.4mm Nozzle	25.4 mm	CTK/S3-IP18	-	Checked by calliper below before using
S1-SW2	Stop Watch	0.01 s	CASIO/ NONE	2022-02-22	2024-02-21
C-S1-D09	Steel Measuring Tape	5 m	KOMELON/KMC-74N	2021-06-23	2023-06-18
S3-IP23	Water flow meter	250LPM	Nuri tech/ Z-6504	2022-01-04	2023-01-03
C-S1-D02	DIGITAL VERNIER CALIPER	150 mm	MITUTOYO/150 mm	2021-08-28	2022-08-18

Attachment 1 – Construction Diagram and installation method



Attachment 2 – Parts List





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Attachment 2 – Parts List

Level	Assy 구분	품 번	품 명	규 격	NX No.	물품 구분	업체	Qty	Level	Assy 구분	품 번	품 명	규 격	NX No.	물품 구분	업체	Qty		
1	가	AM07-016300A	ASSY/FINAL-XNV-9083RZ	B : Hameha	084222	A	N	1	3	가	FC15-006399A	COVER-DOME-IN-PC-MOLD			MD	-	세움	1	
2	가	AM07-016306A	ASSY/CASE-TOP-XNV-9083RZ	B : Hameha		A	N	1	3	가	FC38-001143A	SPRING-COM-TILT-6085-SUS304WPB			ETC	-		1	
3	가	FC29-015048A	CASE-TOP-XNV-9083RZ		084195	DC	N	M&C	1	3	가	FC18-003435A	SCREW-MS-M1.7L4-CHCH0.35L4	P-MOTOR 조합용		SC	-		4
3	가	FC29-015250A	CASE-DOME-XNV-9083RZ		084182	DC	N	M&C	1	3	가	Z6001055201A	SCREW-MACHINE-6001-001708L6	PCB-MAIN 조합		SC	-		2
3	가	FC09-014204A	BRACKET-IR-XNV-9083RZ		085029	PD	N	하남비니	1	3	가	Z6003019801A	SCREW-TAPTITE-6003-001440-BHVER-PAN-LOCK 조합, FRONT 조합		SC	-		7	
3	가	FC37-001099A	WINDOW-IR-XNV-9083RZ		084194	MD	N	세움비니	1	3	가	FC18-004952A	SCREW-TAPTITE-M3.SPECIAL0.5L3	TILT 축		SC	-		2
3	가	FC15-006688B	COVER-DOME-HARD-COATING-100.65			MD	-	FRAN	1	3	가	Z9642306007	MACHINE SCREW/M3xL6.2N-B, 앞비(마리)	FRAME TOP - BOT		SC	-		3
3	가	FC10-001168A	RUBBER-DOME-IR-XPLUS-RUBBER-			RB	-	남양	1	4	HW	AM07-016318A	ASSY-AI-XNV-9083RZ-MAIN+KL720		A	N		1	
3	가	FC10-001148A	RUBBER-TOP-XNV-6081Z-SILICON			RB	-	남양	1	4	HW	AM06-010749A	ASSY-PCB-XNV-9083RZ MAIN		ETC	N		1	
3	가	FC10-001245A	RUBBER-IR-XNV-9083RZ	4 CAV	085025	RB	N	남양비니	1	4	HW	AM06-009943A	ASSY-PCB-KL720 MODULE		ETC	N		1	
3	가	Z9642306007	MACHINE SCREW/M3xL6.2N-B, 앞비(마리)			SC	-		10	4	가	FC28-003379A	PAD-THERMAL-25X180T4-K+7W	KL720 - MAIN	ETC	-	코요테크	1	
3	가	FC18-004000A	SCREW-BUILT-IN-TORX020.7.15.NO.4			SC	-		4	4	가	FC29-010232A	STRAP-PULL-XNV-6081Z		ETC	-		1	
3	가	FC36-001290A	SHEET-PROTECT-DOME-XNV-9083RZ	φ220 - 업체 비주		ETC	-	열빛시	1	2	가	PM02-005997A	CUSHION-PROTECT-LENS-PNV-A8081R-EVA		ETC	-		1	
3	가	RM04-001030A	TAPE-FILAMENT-#8915.T0.15MM.W12MM.L			ETC	-		0.2	2	가	RM04-001030A	TAPE-FILAMENT-#8915.T0.15MM.W12MM.L		ETC	-		0.2	
2	가	AM07-011961A	ASSY/CASE-BOTTOM-XNV-6081Z			A	-		1	1	포장	AM07-016304A	ASSY/PACKING-XNV-9083RZ	B : W-CARD	A	N		1	
2	가	AM08-005993A	ASSY-MOUNT-PLATE-XNV-6081Z			A	-		1	2	포장	AM07-016305A	ASSY/PACKING-ACC-XNV-9083RZ		PK	N		1	
2	가	AM08-007016A	ASSY-CAP-WEATHER-XNV-9083RZ		086601	A	N		1	2	포장	PM02-000992A	BAG-PE-300X400.TRP.LDPE		PK	-		1	
2	가	AM07-016307A	ASSY-MODULE-XNV-9083RZ			A	N		1	2	포장	PM02-003250A	BAG-AIR-CAP.W310.L250	22.03.15 변경됨	PK	-		1	
3	가	AM07-016308A	ASSY-MOTOR-P-XNV-9083RZ		084411	A	N		1	2	포장	PT03-003052A	LABEL-TEMPLATE-XNV-6081Z		PK	-		1	
3	가	AM07-016327A	ASSY-MOTOR-T-XNV-9083RZ		084410	A	N		1	2	포장	PM02-005106B	PACKING CASE-PNV-A8081R		PK	-		1	
3	가	AM07-016326A	ASSY-MOTOR-R-XNV-9083RZ		084409	A	N		1	2	포장	PM02-004833A	PACKING CASE-INNER-XNV-6081Z		PK	-		1	
3	가	AM08-007010A	ASSY-FRAME-TOP-XNV-9083RZ		084724	A	N		1	2	포장	PM02-004825A	CUSHION-DOME_PAD-XNV-6081Z		PK	-		1	
3	가	AM08-007012A	ASSY-FRAME-BOT-XNV-9083RZ		084728	A	N		1	2	포장	PM02-005467A	CUSHION-CASE-PNV-A8081R		PK	-		2	
4	가	FC39-006948A	FRAME-BOT-XNV-9083RZ			DC	N	M&C	1	2	포장	PM02-006356A	CUSHION-MODULE-TOP-XNV-9083RZ	086829	PK	N		1	
4	가	FC28-003363A	PAD-THERMAL-PET-XNV-9083RZ,K+7W/M-K			ETC	N	코요테크	1	2	포장	PM02-006345A	CUSHION-MODULE-BOT-XNV-9083RZ	086830	PK	N		1	
4	가	EP10-001189A	MAGNET-OD44-T3.0-N35UH			ETC	-		1	2	포장	PM02-006355A	CUSHION-MODULE-DOOR-XNV-9083RZ	087072	PK	N		1	
4	가	FC09-009950A	BRACKET-YOKE-XNV-6081Z-SECC			PD	-		1	2	포장	PM02-006356A	PACKING CASE-MODULE-INNER-XNV-9083RZ	086832	PK	N		1	
4	가	HP07-001393A	GASKET-XNV-6081Z,K+7W,2.5L			ETC	-		2	2	포장	PM02-005107B	CARTON MASTER-PNV-A8081R		PK	-		0.5	
4	가	Z6001055201A	SCREW-MACHINE-6001-001708L6H+M3L6,N			SC	-		2	2	포장	PT01-002932A	MANUALS-XNV-9083RZ-08081Z	신규 적용 필요	PT01-005547B	PK	N		1
3	가	AM07-016311A	ASSY/COVER-FRONT-XNV-9083RZ		084917	A	N		1	2	포장	PT01-005162B	MANUALS-CARD-WARRANTY.B3	US only	PK	-		1	
3	가	AM07-016309A	ASSY/ROTATE HEAD-XNV-9083RZ		084380	A	N		1	2	포장	RM04-001030A	TAPE-FILAMENT-#8915.T0.15MM.W12MM.L		PK	-		0.1	
3	가	FC28-003375A	PAD-THERMAL-45X30X2T,K+7W	DSP 원/아연		ETC	-	코요테크	2	1	포장	PT03-003220F	LABEL-RATING-MODULAR-NO.4	D : DO, G : US	PK	-		1	
3	가	FC28-002489A	PAD-THERMAL_1014T2_V4308N	BD 1개		ETC	-	코요테크	1	1	포장	PT03-000153P	LABEL-PACKING-CE-EAC,KC,CM	KUS, KEU only	PK	-		1	
3	가	FC28-002362A	PAD-THERMAL-25X25X2T,K+7W	KL720		ETC	N	코요테크	1	1	포장	Z6804068102A	CT_BOX_LABEL_TYPE_1		PK	-		0.5	
3	가	FC15-006402A	COVER-PAN-LOCK-PC-MOLD			MD	-	세움	1										

Level	Assy 구분	품 번	품 명	규 격	NX No.	물품 구분	업체	Qty	
-1	가	AM07-016301A	ASSY/FINAL-XNV-6083RZ	B : Hameha		A	N	1	
-2	가	AM07-016306A	ASSY/CASE-TOP-XNV-9083RZ	B : Hameha	084222	A	N	1	
-3	가	FC29-015048A	CASE-TOP-XNV-9083RZ		084195	DC	N	M&C	1
-3	가	FC29-015250A	CASE-DOME-XNV-9083RZ		084182	DC	N	M&C	1
-3	가	FC09-014204A	BRACKET-IR-XNV-9083RZ		085029	PD	N	하남비니	1
-3	가	FC37-001099A	WINDOW-OW-IR-XNV-9083RZ		084194	MD	N	세움비니	1
-3	가	FC15-006688B	COVER-DOME-HARD-COATING-100.65			MD	-	FRAN	1
-3	가	FC10-001168A	RUBBER-DOME-IR-XPLUS-RUBBER-			RB	-	남양	1
-3	가	FC10-001148A	RUBBER-TOP-XNV-6081Z-SILICON			RB	-	남양	1
-3	가	FC10-001245A	RUBBER-IR-XNV-9083RZ	4 CAV	085025	RB	N	남양비니	1
-3	가	Z9642306007	MACHINE SCREW/M3xL6.2N-호남비(마리)			SC	-		10
-3	가	FC18-004000A	SCREW-BUILT-IN-TORX020.7.15.NO.4			SC	-		4
-3	가	FC36-001290A	SHEET-PROTECT-DOME-XNV-9083RZ	φ220 - 업체 비주		ETC	-	열빛시	1
-3	가	RM04-001030A	TAPE-FILAMENT-#8915.T0.15MM.W12MM.L			ETC	-		0.2
-2	가	AM07-011961A	ASSY/CASE-BOTTOM-XNV-6081Z			A	-		1
-3	가	FC29-010814A	CASE-BOTTOM-XNV-6081Z-ADC12			DC	-	다산	1
-3	가	FC09-009874A	BRACKET-MAGNET-XNV-6081Z-SECC			PD	-	동신기공	1
-3	가	FC28-002823A	PAD-THERMAL-PET-38X25X1T,K+7W/M-K			ETC	-	코요테크	1
-3	가	MC06-001042A	BUSHING-CABLE SET-SILICON-PNV-9080R			RB	-		2
-3	가	HP06-001187	VENT-GORE-PMF100585.MEMBRANE.SCREW IN,PM			ETC	-	Gore	1
-3	가	Z6001053501A	SCREW-MACHINE-6001-001476L6H+M3L6,N			SC	-		2
-3	가	FC18-004000A	SCREW-BUILT-IN-TORX020.7.15.NO.4			SC	-		2
-2	가	AM08-005993A	ASSY-MOUNT-PLATE-XNV-6081Z			A	-		1
-3	가	FC39-005058A	MOUNT-PLATE-XNV-6081Z-ADC12			DC	-		1
-3	가	FC15-006682B	COVER-BOT-XNV-6081Z-PC			MD	-		1
-2	가	AM08-007016A	ASSY-CAP-WEATHER-XNV-9083RZ		086601	A	N		1
-3	가	FC29-015220A	CAP-WEATHER-XNV-9083RZ		086603	MD	N	세움비니	1
-3	가	FC18-004930A	SCREW-MACHINE-BUILT-IN-TORX020.7.28.NO.			SC	-		2
-3	가	RM04-001030A	TAPE-FILAMENT-#8915.T0.15MM.W12MM.L			ETC	-		1
-2	가	AM07-016115A	ASSY-MODULE-XNV-6083RZ			A	N		1
-3	가	AM07-016108A	ASSY-MOTOR-P-XNV-9083RZ		084411	A	N		1
-4	가	MC11-004847A	GEAR-SPUR-COM-6085.MOLD			MD	-		1
-4	가	MC11-004801A	GEAR-HELICAL_6085.MOLD			MD	-		1
-4	가	MC11-004800A	GEAR-WORM-6085.MOLD			MD	-		1
-4	가	RM04-001053A	TAPE-PORON-6040.PORON.0.4MM.3.9			ETC	-		1

Level	Assy 구분	품 번	품 명	규 격	NX No.	물품 구분	업체	Qty
-4	가	Z6003020401A	SCREW-TAPTITE-6003-001453.BH+ 8.M1.7L			SC	-	4
-4	HW	EP02-004480A	HARNISS-PNM-9030V.WIRE.SP.60MM			ETC	-	1
-4	가	AM07-013785A	ASSY-SUB-HELICAL-TEMP			A	-	1
-5	가	FC09-009835A	BRACKET-MOTOR-6040.PC+GF30%			ETC	-	1
-5	가	FC18-000470A	PIN-ABF SENSOR GUIDE.SUS304BD.GUIDE PIN			ETC	-	1
-4	가	AM07-013786A	ASSY-SUB-SPUR-GEAR-TEMP			A	-	1
-5	가	FC15-005766A	COVER-GEAR-MODULE-6085.MOLD			MD	-	1
-5	가	FC18-000470A	PIN-ABF SENSOR GUIDE.SUS304BD.GUIDE PIN			ETC	-	1
-4	HW	AM06-008751A	ASSY-PCB-XNV-6081Z PAN PCB MOTOR			A	-	1
-5	HW	AM06-009484A	ASSY-PCB-XNV-6081Z PAN PCB			A	-	1
-6	HW	AM06-008521A	ASSY-PCB-SMD-XNV-6081Z PAN			A	-	1
-7	HW	EP16-002762B	PCB-XNV-6081Z.1.PAN MOTOR.V0.3			ETC	-	1
-7	HW	Z3717080901A	CONNECTOR.12505WR-08(PJ)-수평-영호			ETC	-	1
-5	HW	EP08-002492A	MOTOR-STEP-6040			ETC	-	1
-5	HW	Z0606000201A	PHOTO INTERRUPTER(ON1004-CA)			ETC	-	1
-3	가	AM07-016327A	ASSY-MOTOR-T-XNV-9083RZ		084410	A	N	1
-4	가	MC11-004847A	GEAR-SPUR-COM-6085.MOLD			MD	-	1
-4	가	MC11-004801A	GEAR-HELICAL_6085.MOLD			MD	-	1
-4	가	MC11-004800A	GEAR-WORM-6085.MOLD			MD	-	1
-4	가	RM04-001053A	TAPE-PORON-6040.PORON.0.4MM.3.9			ETC	-	1
-4	가	Z6003020401A	SCREW-TAPTITE-6003-001453.BH+ 8.M1.7L			SC	-	7
-4	HW	EP02-005113A	HARNISS-XNV-9083RZ.WIRE.7P-7P.120MM			ETC	N	1
-4	가	AM07-013785A	ASSY-SUB-HELICAL-TEMP			A	-	1
-5	가	FC09-009835A	BRACKET-MOTOR-6040.PC+GF30%			ETC	-	1
-5	가	FC18-000470A	PIN-ABF SENSOR GUIDE.SUS304BD.GUIDE PIN			ETC	-	1
-4	가	AM07-013786A	ASSY-SUB-SPUR-GEAR-TEMP			A	-	1
-5	가	FC15-005766A	COVER-GEAR-MODULE-6085.MOLD			MD	-	1
-5	가	FC18-000470A	PIN-ABF SENSOR GUIDE.SUS304BD.GUIDE PIN			ETC	-	1
-5	가	FC15-004840A	COVER-CHASSIS-PC-GPIO.MOLD			A	-	1
-4	HW	AM06-008750A	ASSY-PCB-XNV-6081Z TILT MOTOR			A	-	1
-5	HW	AM06-008522A	ASSY-PCB-XNV-6081Z TILT			A	-	1
-6	HW	AM06-008520A	ASSY-PCB-SMD-XNV-6081Z TILT			A	-	1
-7	HW	Z3717084001A	12505WR-TILT(영호전자)			ETC	-	1
-7	HW	EP16-002508C	PCB-XND-6085-1.TILT MOTOR.V0.4			ETC	-	1
-5	HW	EP08-002492A	MOTOR-STEP-6040			ETC	-	1



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Attachment 2 – Parts List

Level	Assy 구분	품 번	품 명	규 격	NX No.	물종	구분	업체	Qty	Level	Assy 구분	품 번	품 명	규 격	NX No.	물종	구분	업체	Qty
..3	HW	Z060002020A	PHOTO INTERRUPTER(1004-CA)			ETC	-		1	..4	HW	HP07-001750A	CASE GASKET-XNV-9083RZ,12X39.8.4			ETC	N		2
..3	가구	AM07-016326A	ASSY.MOTOR-R-XNV-9083RZ		084409	A	N		1	..4	HW	AM06-010735A	ASSY.PCB-XNV-9083RZ IR LED			ETC	-		4
..4	가구	MC11-004647A	GEAR.SPUR-CM-6085.MOLD			MD	-		1	..4	HW	AM06-010687A	ASSY.PCB-XNV-9083RZ POWER			ETC	N		1
..4	가구	MC11-004648A	GEAR.SPUR-R2-6085.MOLD			MD	-		1	..4	HW	AM06-010708A	ASSY.PCB-XNV-9083RZ SD			ETC	N		1
..4	가구	MC11-004649A	GEAR.SPUR-R3-6085.MOLD			MD	-		1	..4	HW	EP02-005133A	HARNESS-XNV-9083RZ.WIRE.BLA	Y SHAPED		ETC	-		2
..4	가구	MC11-000408A	GEAR.MOTOR.SPUR.POM.3.3.N/A.MOLD.0.4.3.9			MD	-		1	..4	HW	EP02-005134A	CABLE-XNV-9083RZ.FPC.10P..40I	POWER ~ MAIN		ETC	N		2
..4	가구	Z0600022301A	M17.3MM.TAP.BINDHEAD			SC	-		3	..4	HW	EP02-004260A	HARNESS-XNV-6011.MCX.30P.80I	SD ~ MAIN		ETC	-		1
..4	가구	RM04-001053A	TAPE-PORON-6040.PORON.0.4MM.3.9			A	-		1	..3	가구	AM08-007012A	ASSY.FRAME.BOT-XNV-9083RZ		084728	A	N		1
..4	HW	EP02-005132A	HARNESS-XNV-9083RZ.WIRE.GREEN.SP-130M			ETC	N		1	..4	가구	FC39-006948A	FRAME.BOT-XNV-9083RZ			DC	N		1
..4	가구	AM07-016370A	ASSY.SUB-ROTATE-XNV-9083RZ ALB 적층, AM07-012411A 내제			A	N		1	..4	가구	FC28-003563A	PAD.THERMAL.PET.XNV-9083RZ.K+7W/M-K			ETC	N		1
..5	가구	FC15-006396A	COVER-BASE-R-GEAR.PC+GF10.MOLD			MD	-		1	..4	가구	EP10-001189A	MAGNET-OD44-T3.0-N35UH			ETC	-		1
..5	가구	MC11-004650A	GEAR.SPUR-TLT-6085.MOLD			MD	-		2	..4	가구	FC09-009955A	BRACKET-ROK-XNV-6081Z.3SEC			PD	-		1
..5	가구	MC19-002638A	SHAFT-R-GEAR-6085			ETC	-		2	..4	가구	HP07-001393A	GASKET-XNV-6081Z.8.4X18.2.3.5I			ETC	-		2
..5	가구	FC18-000470A	PIN-ABF.SENSOR.GUIDE.SUS304RD.GUIDE.PIN			ETC	-		1	..4	가구	Z0601025501A	SCREW.MACHINE.8001-001476.BH+.M2.L6.NI			SC	-		2
..5	가구	Z0603019801A	SCREW-TAPTITE.6003-001440.BH+.8.M2.L4			SC	-		2	..3	가구	AM07-016311A	ASSY.COVER.FRONT-XNV-9083RZ		084917	A	N		1
..5	가구	FC15-005763A	COVER-FIX-SPRING-6085.MOLD			MD	-		1	..4	가구	FC15-009047A	COVER-F-CAMERA-XNV-9083RZ		084915	MD	N		1
..5	가구	FC38-001167A	SPRING-CM-6085.SUS304WPB			ETC	-		3	..4	가구	FC15-009050A	COVER-CD5-XNV-9083RZ		084910	MD	N		1
..4	HW	AM06-008749A	ASSY.PCB-XNV-6081Z MOTOR ROTATE FPCB			A	-		1	..4	가구	FC10-001243A	RUBBER-CD5-XNV-9083RZ	16 CAV	084919	RB	N		1
..5	HW	AM06-008486A	ASSY.PCB-XNV-6081Z ROTATE FPCB			A	-		1	..4	가구	Z0603019801A	SCREW-TAPTITE.6003-001440.BH+.8.M2.L4			SC	-		3
..6	HW	AM06-008519A	ASSY.PCB-SMD-XNV-6081Z ROTATE			A	-		1	..4	HW	AM06-010737A	ASSY.PCB-XNV-9083RZ HEATER			ETC	N		1
..7	HW	Z3717080901A	CONNECTOR(12505WR-08P) P/F-연로			ETC	-		1	..4	HW	EP02-005130A	HARNESS-XNV-9083RZ.WIRE.6P-220MM.AWG3			ETC	N		1
..7	HW	EP16-002679B	FPCB-XNV-6081Z,TL ROTATE MOTOR.V0.3			ETC	-		1	..3	가구	AM07-016310A	ASSY.ROTATE HEAD-XNV-6081RZ		084381	A	N		1
..5	HW	Z0608000201A	PHOTO INTERRUPTER(1004-CA)			ETC	-		1	..4	가구	FC15-006396A	COVER-R-REAR.PC+GF10.MOLD			MD	-		1
..5	HW	EP08-000701A	MOTOR.STEP-SMT10-20.2PHASE /20STEP/ 5VOL			ETC	-		1	..4	가구	FC15-006395A	COVER-F.FRONT.POM.MOLD			MD	-		1
..3	가구	AM08-007010A	ASSY.FRAME.TOP-XNV-9083RZ		084724	A	N		1	..4	가구	Z0603019801A	SCREW-TAPTITE.6003-001440.BH.SENSOR 고정용			SC	-		3
..4	가구	FC15-006401A	COVER-BALL-GUIDE.POM.MOLD			MD	-		1	..4	HW	AM08-007018A	ASSY.LENS-XNV-6081RZ			A	-		1
..4	가구	FC04-001056A	BALL-SUS COMMON			ETC	-		1	..3	HW	AM07-015442B	ASSY.MODULE.WF-3L2-REPEAT HOOD EXPORT			ETC	-		1
..4	가구	PT03-003056A	LABEL-WARNING-XNV-6081Z			ETC	-		1	..3	HW	FC18-003815A	SPACER.36L2-4M.SPACER.0.6I			ETC	-		1
..4	가구	FC39-006947A	FRAME.TOP-XNV-9083RZ		079234	DC	N		1	..3	가구	Z0603020401A	SCREW-TAPTITE.6003-001453.BH+.8.M1.7L			SC	-		3
..4	가구	FC15-009043A	COVER-IR-XNV-9083RZ	4 CAV	084279	MD	N		1	..3	HW	AM06-010704A	ASSY.PCB-XNV-6081Z SENSOR			ETC	N		1
..4	가구	FC28-002363A	PAD.THERMAL.W8.D4.T1			ETC	-		2	..3	HW	EP02-004492B	HARNESS-XNV-6081Z.MCX.30P-50P.120MM.B			ETC	-		1
..4	가구	FC28-002489A	PAD.THERMAL.1014T2.V8408N	POWER 2개		ETC	-		2	..3	가구	FC28-003375A	PAD.THERMAL-45X30X72.K+7W	DSP 9I/아래		ETC	-		2
..4	가구	Z9642306007	MACHINE.SCREWM3x6L2n-B.납비(리리)			SC	-		4	..3	가구	FC28-002489A	PAD.THERMAL.1014T2.V8408N	BD 1개		ETC	-		1
..4	가구	Z0601055201A	SCREW-MACHINE.6001-001708.B	PCB-POWER, PCB-SD 조합		SC	-		4	..3	가구	FC28-003562A	PAD.THERMAL-25X25X72.K+7W	KL720		ETC	N		1
..4	가구	Z0601053501A	SCREW-MACHINE.6001-001476.BH+.M3.L6.NI			SC	-		2	..3	가구	FC15-006402A	COVER-PAN-LOCK.POM.MOLD			MD	-		1

Level	Assy 구분	품 번	품 명	규 격	NX No.	물종	구분	업체	Qty
..3	가구	FC15-006399A	COVER-DOME-IN.PCM.MOLD			MD	-	세종	1
..3	가구	FC38-001143A	SPRING-CM-TILT-6085.SUS304WPB			ETC	-		1
..3	가구	FC18-003435A	SCREW.M5-M1.7L4.CH.CH0.35.L			P-MOTOR 조합용	SC	-	4
..3	가구	Z0601055201A	SCREW-MACHINE.6001-001708.B			PCB-MAIN 조합	SC	-	2
..3	가구	Z0603019801A	SCREW-TAPTITE.6003-001440.BH-VER-PAN-LOCK 조합, FRONT 조합				SC	-	7
..3	가구	FC18-004952A	SCREW.TAPTITE-M3.SPECIAL.0.5I			TILT 축	SC	-	2
..3	가구	Z9642306007	MACHINE.SCREWM3x6L2n-B.납비			FRAME TOP ~ BOT	SC	-	3
..3	HW	AM07-016319A	ASSY.AI-XNV-6083RZ.MAIN+KL720			A	N		1
..4	HW	AM06-010745A	ASSY.PCB-XNV-6083RZ MAIN			ETC	N		1
..4	HW	AM06-009943A	ASSY.PCB-KL720 MODULE			ETC	N		1
..4	가구	FC28-003376A	PAD.THERMAL-25X18X74.K+7W			KL720 ~ MAIN	ETC	-	1
..4	가구	FC29-011023A	STRAP-PULL-XNV-6081Z			ETC	-		1
..2	가구	PM02-005937A	CUSHION-PROTECT-LENS.PNV-A8081R.EVA			ETC	-		1
..2	가구	RM04-001030A	TAPE-FILAMENT-#9915.T0.15MM.W12MM.L						0.2
..1	포장	AM07-016309A	ASSY.PACKING-XNV-9083RZ			B : W-CARD	A	N	1
..2	포장	AM07-016305A	ASSY.PACKING-ACC-XNV-9083RZ				PK	N	1
..3	포장	PM02-000982A	BAG.ZIPPER.180X250.TRP.LDPE				PK	-	1
..3	포장	TO03-000145B	WRENCH-L.NI.TORX T20, L140				PK	-	1
..3	포장	MC06-001082A	BUSHING-CABLE FLEXIBLE.SILICON.GRAY				PK	-	2
..3	포장	FC29-010029B	CAP-INSTALLER_R445.POM				PK	-	1
..3	포장	PT03-002957A	LABEL-IP68.ENG.WHT.용표지(VUPO)				PK	-	1
..2	포장	PM02-000992A	BAG-PE.300X400.TRP.LDPE				PK	-	1
..2	포장	PM02-003250A	BAG.AIR-CAP_W310_L250	22.03.15 변경됨			PK	-	1
..2	포장	PT03-003052A	LABEL-TEMPLATE-XNV-6081Z				PK	-	1
..2	포장	PM02-005106B	PACKING CASE-PNV-A8081R				PK	-	1
..2	포장	PM02-004833A	PACKING CASE-INNER_XNV-6081Z				PK	-	1
..2	포장	PM02-004825A	CUSHION-DOME_PAD_XNV-6081Z				PK	-	1
..2	포장	PM02-005497A	CUSHION-CASE-PNV-A8081R				PK	-	2
..2	포장	PM02-006356A	CUSHION-MODULE.TOP-XNV-9083RZ	086929			PK	N	1
..2	포장	PM02-006345A	CUSHION-MODULE.BOT-XNV-9083RZ	086930			PK	N	1
..2	포장	PM02-006365A	CUSHION-MODULE-DOOR-XNV-9083RZ	087072			PK	N	1
..2	포장	PM02-006346A	PACKING CASE-MODULE-INNER-XNV-9083RZ	086832			PK	N	1
..2	포장	PM02-005107B	CARTON MASTER-PNV-A8081R				PK	-	0.5
..2	포장	PT01-005932A	MANUAL-XNV-9083RZ/6083RZ	신규 적용 필요	PT01-005547B		PK	N	1
..2	포장	PT01-005162B	MANUALS-CARD-WARRANTY.B2	US only			PK	-	1

Level	Assy 구분	품 번	품 명	규 격	NX No.	물종	구분	업체	Qty
..2	포장	RM04-001030A	TAPE-FILAMENT;#9915,T0.15MM,W12MM,L				PK	-	0.1
..1	포장	PT03-003220F	LABEL-RATING-MODULAR-NO-L	D : DO, G : US			PK	-	1
..1	포장	PT03-000153V	LABEL-PACKING-CE,EAC,KC,CM	KUS, KEU only			PK	-	1
..1	포장	Z6804068102A	CT_BOX_LABEL_TYPE_1				PK	-	0.5



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Attachment 2 – Parts List

Level	Assy 구분	품 번	품 명	규 격	NX No.	물종	구분	업체	Qty
..2	기구	AM07-016306A	ASSY.CASE-TOP-XNV-9083RZ		084222	A	N		1
..3	기구	FC29-015048A	CASE-TOP-XNV-9083RZ		084195	DC	N	M&C	1
..3	기구	FC29-015250A	CASE-DOME-XNV-9083RZ		084182	DC	N	M&C	1
..3	기구	FC09-014204A	BRACKET-IR-XNV-9083RZ		085029	PD	N	하남비나	1
..3	기구	FC37-001099A	WINDOW-IR-XNV-9083RZ		084194	MD	N	세종비나	1
..3	기구	FC15-006668B	COVER-DOME-HARD-COATING,100.65			MD	-	FRAN	1
..3	기구	FC10-001168A	RUBBER-DOME-IR_XPLUS,RUBBER,-			RB	-	남양	1
..3	기구	FC10-001149A	RUBBER-TOP-XNV-6081Z,SILICON			RB	-	남양	1
..3	기구	FC10-001245A	RUBBER-IR-XNV-9083RZ	4 CAV	085025	RB	N	남양비나	1
..3	기구	Z9642306007	MACHINE SCREW(M3xL6,Zn-B,남비마리)			SC	-		10
..3	기구	FC18-004000A	SCREW-BUILT-IN_TORX200.7,15,NO.4			SC	-		4
..3	기구	FC36-001290A	SHEET-PROTECT-DOME-XNV-60	Φ220 - 업체 비주		ETC	-	엘넷시	1
..3	기구	RM04-001030A	TAPE-FILAMENT,#8915,T0.15MM,W12MML			ETC	-		0.2
..2	기구	AM07-011961A	ASSY.CASE-BOTTOM-XNV-6081Z			A	-		1
..2	기구	AM08-005993A	ASSY-MOUNT-PLATE-XNV-6081Z			A	-		1
..2	기구	AM08-007016A	ASSY-CAP-WEATHER-XNV-9083RZ		086601	A	N		1
..2	기구	AM07-016316A	ASSY.MODULE-XNV-8083Z			A	N		1
..3	기구	AM07-016308A	ASSY.MOTOR-P-XNV-9083RZ		084411	A	N		1
..3	기구	AM07-016327A	ASSY.MOTOR-T-XNV-9083RZ		084410	A	N		1
..3	기구	AM07-016326A	ASSY.MOTOR-R-XNV-9083RZ		084409	A	N		1
..3	기구	AM08-007011A	ASSY-FRAME-TOP-XNV-8083Z		084724	A	N		1
..3	기구	AM08-007012A	ASSY-FRAME-BOT-XNV-9083RZ		084728	A	N		1
..3	기구	AM07-016311A	ASSY.COVER-FRONT-XNV-9083RZ		084917	A	N		1
..3	기구	AM07-016309A	ASSY.ROTATE HEAD-XNV-9083RZ		084380	A	N		1
..3	기구	FC28-003375A	PAD-THERMAL-45X30X2,K=7W	DSP 위/아래		ETC	-	코모테크	2
..3	기구	FC28-002489A	PAD-THERMAL_1014T2_V6430BN	BD 1개		ETC	-	코모테크	1
..3	기구	FC28-003562A	PAD-THERMAL-25X25X2,K=7W	KL720		ETC	N	코모테크	1
..3	기구	FC15-006402A	COVER-PAN-LOCK,POM,MOLD			MD	-	세종	1
..3	기구	FC15-006399A	COVER-DOME-IN,PC,MOLD			MD	-	세종	1
..3	기구	FC38-001143A	SPRING,COM-TILT-6085,SUS304WPB			ETC	-		1
..3	기구	FC18-003435A	SCREW,M5-M1.7L4_CH,CH.0.35,4	P-MOTOR 조립용		SC	-		4
..3	기구	Z6001055201A	SCREW-MACHINE,6001-001708,6	PCB-MAIN 조립		SC	-		2
..3	기구	Z6003019801A	SCREW-TAPTITE,6003-001440,B	COVER-PAN-LOCK 조립, FRONT 조립		SC	-		7
..3	기구	FC18-004952A	SCREW,TAPTITE-M3,SPECIAL,0.5	TILT 축		SC	-		2
..3	기구	Z9642306007	MACHINE SCREW(M3xL6,Zn-B,남	FRAME TOP ~ BOT		SC	-		3

Level	Assy 구분	품 번	품 명	규 격	NX No.	물종	구분	업체	Qty
..3	HW	AM07-016320A	ASSY-AI-XNV-8083Z,MAIN+KL720			A	N		1
..4	HW	AM06-010752A	ASSY.PCB-XNV-8083Z MAIN			ETC	N		1
..4	HW	AM06-009943A	ASSY.PCB-KL720 MODULE			ETC	N		1
..4	기구	FC28-003379A	PAD-THERMAL-25X18X4,K=7W	KL720 ~ MAIN		ETC	-	코모테크	1
..4	기구	FC29-011023A	STRAP-PULL-XNV-6081Z			ETC	-		1
..2	기구	PM02-005397A	CUSHION-PROTECT-LENS_PNV-A8081R,EVA			ETC	-		1
..2	기구	RM04-001030A	TAPE-FILAMENT,#8915,T0.15MM,W12MML			ETC	-		0.2
.1	포장	AM07-016304A	ASSY.PACKING-XNV-9083RZ	B : W-CARD		A	N		1
..2	포장	AM07-016305A	ASSY.PACKING-ACC-XNV-9083RZ			PK	N		1
..2	포장	PM02-000992A	BAG-PE,300X400,TRP,LDPE			PK	-		1
..2	포장	PM02-003250A	BAG,AIR-CAP,W310_L250	22.03.15 변경점		PK	-		1
..2	포장	PT03-003052A	LABEL-TEMPLATE-XNV-6081Z			PK	-		1
..2	포장	PM02-005106B	PACKING CASE-PNV-A9081R			PK	-		1
..2	포장	PM02-004833A	PACKING CASE-INNER_XNV-6081Z			PK	-		1
..2	포장	PM02-004825A	CUSHION-DOME_PAD_XNV-6081Z			PK	-		1
..2	포장	PM02-005467A	CUSHION-CASE-PNV-A9081R			PK	-		2
..2	포장	PM02-006356A	CUSHION-MODULE-TOP-XNV-9083RZ		086829	PK	N		1
..2	포장	PM02-006345A	CUSHION-MODULE-BOT-XNV-9083RZ		086830	PK	N		1
..2	포장	PM02-006365A	CUSHION-MODULE-DOOR-XNV-9083RZ		087072	PK	N		1
..2	포장	PM02-006346A	PACKING CASE-MODULE-INNER-XNV-9083RZ		086832	PK	N		1
..2	포장	PM02-005107B	CARTON,MASTER-PNV-A9081R			PK	-		0.5
..2	포장	PT01-005932A	MANUALS-XNV-9083RZ/6083RZ	신규 적용 필요	PT01-005547B	PK	N		1
..2	포장	PT01-005162B	MANUALS-CARD-WARRANTY,B2	US only		PK	-		1
..2	포장	RM04-001030A	TAPE-FILAMENT,#8915,T0.15MM,W12MML			PK	-		0.1
.1	포장	PT03-003220F	LABEL-RATING-MODULAR-NO-L	D : DO, G : US		PK	-		1
.1	포장	PT03-000153V	LABEL-PACKING-CE,EAC,KC,CM	KUS, KEU only		PK	-		1
.1	포장	Z6804068102A	CT_BOX_LABEL_TYPE_1			PK	-		0.5



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Level	ASST 구분	품번	품명	규격	NX No.	물종	구분	업체	Qty	Level	ASST 구분	품번	품명	규격	NX No.	물종	구분	업체	Qty
1	가	AM07-016300A	ASSY.FINAL-XNV-9083RZ	B : Hamaha		A	N		1	4	가	AM07-013785A	ASSY-SUB-HELICAL-TEMP			A	-		1
2	가	AM07-016300A	ASSY.CASE-TOP-XNV-9083RZ	B : Hamaha	084222	A	N		1	5	가	FC29-002365A	BRACKET.MOTOR-6040PC+GF30N			MD	-		1
3	가	FC29-015048A	CASE.TOP-XNV-9083RZ		084195	DC	N	M&C	1	5	가	FC18-000470A	PIN-ABF SENSOR GUIDE.SUS304RD.GUIDE PIN			ETC	-		1
3	가	FC29-015250A	CASE.DOME-XNV-9083RZ		084182	DC	N	M&C	1	4	가	AM07-013786A	ASSY-SUB-SPUR-GEAR-TEMP			A	-		1
3	가	FC09-014204A	BRACKET-IR-XNV-9083RZ		085029	PD	N	하남비나	1	5	가	FC15-005766A	COVER-GEAR-MODULE-6085MOLD			MD	-		1
3	가	FC37-001099A	WINDOW-IR-XNV-9083RZ		084184	MD	N	세종비나	1	5	가	FC18-000470A	PIN-ABF SENSOR GUIDE.SUS304RD.GUIDE PIN			ETC	-		1
3	가	FC15-006668B	COVER-DOMEHARD-COATING.100.65			MD	-	FRAN	1	4	가	FC15-006400A	COVER-TILT-CHASSISPC+GF10MOLD			MD	-		1
3	가	FC10-001168A	RUBBER.DOME-IR.XPLUSRUBBER			RB	-	남양	1	4	HW	AM06-008750A	ASSY.PCB-XNV-6081Z TILT MOTOR			A	-		1
3	가	FC10-001149A	RUBBER.TOP-XNV-6081ZCUCON			RB	-	남양	1	5	가	AM06-008522A	ASSY.PCB-XNV-6081Z TILT			A	-		1
3	가	FC10-001245A	RUBBER-IR-XNV-9083RZ	4 CAV	085023	RB	N	남양비나	1	6	가	AM06-008520A	ASSY.PCB-SMD-XNV-6081Z TILT			A	-		1
3	가	Z9642306007	MACHINE SCREW.M4x2-6.3(9.0R)			SC	-		10	7	HW	Z371708401A	1250SW-07(전동화전)			ETC	-		1
3	가	FC18-004000A	SCREW-BUILT-IN.TORX020715.N0.4			SC	-		4	7	HW	EP18-002508C	PCB-XND-6085.1TILT MOTOR.V0.4			ETC	-		1
3	가	FC36-001290A	SHEET-PROTECT-DOME-XNV-4	φ220 - 얇게 비주		ETC	-	말보시	1	5	HW	EP08-002492A	MOTOR.1STEP-6040			ETC	-		1
3	가	RM04-001030A	TAPE-FILAMENT.φ915.T0.15MM.W12MM.L			ETC	-		0.2	5	HW	Z0608000201A	PHOTO INTERRUPTER.ON1004-CA			ETC	-		1
4	가	AM07-011961A	ASSY.CASE-BOTTOM-XNV-6081Z			A	-		1	3	가	AM07-016326A	ASSY.MOTOR-R-XNV-9083RZ		084409	A	N		1
4	가	AM08-005939A	ASSY.MOUNT-PLATE-XNV-6081Z			A	-		1	3	가	AM08-007011A	ASSY.FRAME-TOP-XNV-9083RZ		084724	A	N		1
4	가	AM08-007016A	ASSY.CAP-WEATHER-XNV-9083RZ		086601	A	N		1	3	가	AM08-007012A	ASSY.FRAME-BOT-XNV-9083RZ		084728	A	N		1
4	가	AM07-016317A	ASSY.MODULE-XNV-6081Z			A	N		1	4	가	FC39-009949A	FRAME-BOT-XNV-9083RZ			DC	N	M&C	1
4	가	AM07-016308A	ASSY.MOTOR-P-XNV-9083RZ		084411	A	N		1	4	가	FC38-002363A	PAD.THERMAL-RET-XNV-9083RZ.κ=7W/M.K			ETC	N	표모타크	1
4	가	MC11-004647A	GEAR.SPUR-COM-6085MOLD			MD	-		1	4	가	EP10-001189A	MAGNET-OD44-T3.0-N35JH			ETC	-		1
4	가	MC11-004801A	GEAR.HELICAL-6085MOLD			MD	-		1	4	가	FC09-009905A	BRACKET-VOKE-XNV-6081ZSECC			PD	-		1
4	가	MC11-004800A	GEAR.WORM-6085MOLD			MD	-		1	4	가	HP07-001393A	GASKET-XNV-6081Z.4X18.2.3.5			ETC	-		2
4	가	RM04-001035A	TAPE-PORON-6040.PORON.0.4MM.3.9			ETC	-		1	4	가	Z600105501A	SCREW-MACHINE.6001-001476.BH+M3.L6.NI			SC	-		2
4	가	Z6003020401A	SCREW-TAPTYPE.6003-001453.BH+M1.17.L			SC	-		4	3	가	AM07-016311A	ASSY.COVER-FRONT-XNV-9083RZ		084917	A	N		1
4	가	EP02-004480A	HARNISS-PM-9030VWIRE-SP.60MM			ETC	-		1	3	가	AM07-016310A	ASSY.ROTATE HEAD-XNV-6083RZ		084381	A	N		1
4	가	AM07-013786A	ASSY-SUB-HELICAL-TEMP			A	-		1	3	가	FC28-003375A	PAD.THERMAL-45X30X2.2κ=7W	DSP 리/아레		ETC	-	표모타크	2
5	가	FC29-002365A	BRACKET.MOTOR-6040PC+GF30N			A	-		1	3	가	FC28-002498A	PAD.THERMAL-10X12.1V4X50W	BD 178		ETC	-	표모타크	1
5	가	FC18-000470A	PIN-ABF SENSOR GUIDE.SUS304RD.GUIDE PIN			ETC	-		1	3	가	FC28-002362A	PAD.THERMAL-25X25X2.2κ=7W	KL720		ETC	N	표모타크	1
4	가	AM07-013786A	ASSY-SUB-SPUR-GEAR-TEMP			A	-		1	3	가	FC15-006402A	COVER-PAN-LOCKPOM.MOLD			MD	-	세종	1
5	가	FC15-005766A	COVER-GEAR-MODULE-6085MOLD			MD	-		1	3	가	FC15-006399A	COVER-DOME-IN.PC.MOLD			ETC	-		1
5	가	FC18-000470A	PIN-ABF SENSOR GUIDE.SUS304RD.GUIDE PIN			ETC	-		1	3	가	FC38-001143A	SPRING.COM-TILT-6085.SUS304WPB			MD	-		1
4	HW	AM06-008751A	ASSY.PCB-XNV-6081Z PAN PCB MOTOR			A	-		1	3	가	FC38-001435A	SCREWS.M1.TL4.CHXCH.0.35	P-MOTOR 조합용		SC	-		4
5	HW	AM06-008484A	ASSY.PCB-XNV-6081Z PAN PCB			A	-		1	3	가	Z6001055201A	SCREW-MACHINE.6001-001708	PCB-MAIN 조합		SC	-		2
6	HW	AM06-008521A	ASSY.PCB-SMD-XNV-6081Z PAN			A	-		1	3	가	Z6003018001A	SCREW-TAPTYPE.6003-001440	SEMI-PAN-LOCK 조합, FRONT 조합		SC	-		7
7	HW	EP18-002508C	PCB-XND-6085.1TILT MOTOR.V0.4			ETC	-		1	3	가	FC18-004952A	SCREW.TAPITE-M3SPECIAL.0.3			SC	-		2
7	HW	Z371708091A	CONNECTOR.1250SW-08(P)-P-R-전호			A	-		1	3	가	Z9642306007	MACHINE SCREW.M4x2-6.3(9.0R)			SC	-		3
5	HW	EP08-002492A	MOTOR.1STEP-6040			ETC	-		1	3	가	AM07-016321A	ASSY-AI-XNV-6083Z.MAIN+KL720			A	N		1
5	HW	Z0608000201A	PHOTO INTERRUPTER.ON1004-CA			ETC	-		1	4	HW	AM06-010747A	ASSY.PCB-XNV-6083Z MAIN			ETC	N		1
3	가	AM07-016327A	ASSY.MOTOR-T-XNV-9083RZ		084410	A	N		1	4	HW	AM06-009943A	ASSY.PCB-KL720 MODULE			ETC	N		1
4	가	MC11-004647A	GEAR.SPUR-COM-6085MOLD			MD	-		1	4	가	FC28-003379A	PAD.THERMAL-25X18X2.4κ=7W	KL720 - MAIN		ETC	-	표모타크	1
4	가	MC11-004801A	GEAR.HELICAL-6085MOLD			MD	-		1	4	가	FC29-011023A	STRAP-PULL-XNV-6081Z			ETC	-		1
4	가	MC11-004800A	GEAR.WORM-6085MOLD			MD	-		1	2	가	PM02-005397A	CUSHION-PROTECT-LENS.PNV-A9081EVA			ETC	-		1
4	가	RM04-001035A	TAPE-PORON-6040.PORON.0.4MM.3.9			ETC	-		1	2	가	Z6004001030A	TAPE-PLA-6081.φ915.T0.15MM.W12MM.L			ETC	-		0.2
4	가	Z6003020401A	SCREW-TAPTYPE.6003-001453.BH+M1.17.L			SC	-		7	1	표모	AM07-016305A	ASSY.PACKING-XNV-9083RZ	B : W-CARD		A	N		1
4	HW	EP02-005313A	HARNISS-XNV-9083RZ.WIRE.BLUE.7P.7P.120MM			ETC	N		1	2	표모	AM07-016305A	ASSY.PACKING-ACC-XNV-9083RZ			PK	N		1

Level	ASST 구분	품번	품명	규격	NX No.	물종	구분	업체	Qty
2	포장	PM02-000992A	BAG-PE;300X400,TRP,LDPE			PK	-		1
2	포장	PM02-003250A	BAG,AIR-CAP_W310_L250	22.03.15 변경점		PK	-		1
2	포장	PT03-003052A	LABEL-TEMPLATE-XNV-6081Z			PK	-		1
2	포장	PM02-005106B	PACKING CASE-PNV-A9081R			PK	-		1
2	포장	PM02-004833A	PACKING CASE-INNER_XNV-6081Z			PK	-		1
2	포장	PM02-004825A	CUSHION-DOME_PAD_XNV-6081Z			PK	-		1
2	포장	PM02-005467A	CUSHION-CASE-PNV-A9081R			PK	-		2
2	포장	PM02-006356A	CUSHION-MODULE-TOP-XNV-9083RZ		086829	PK	N		1
2	포장	PM02-006345A	CUSHION-MODULE-BOT-XNV-9083RZ		086830	PK	N		1
2	포장	PM02-006365A	CUSHION-MODULE-DOOR-XNV-9083RZ		087072	PK	N		1
2	포장	PM02-006346A	PACKING CASE-MODULE-INNER-XNV-9083RZ		086832	PK	N		1
2	포장	PM02-005107B	CARTON,MASTER-PNV-A9081R			PK	-		0.5
2	포장	PT01-005932A	MANUALS-XNV-9083RZ/6083RZ	신규 적용 필요	PT01-005547B	PK	N		1
2	포장	PT01-005162B	MANUALS-CARD-WARRANTY,B	US only		PK	-		1
2	포장	RM04-001030A	TAPE-FILAMENT;φ915,T0.15MM,W12MM,L			PK	-		0.1
1	포장	PT03-003220F	LABEL-RATING-MODULAR-NO-	D : DO, G : US		PK	-		1
1	포장	PT03-000153V	LABEL-PACKING-CE,EAC,KC,CM	KUS, KEU only		PK	-		1
1	포장	Z6804068102A	CT_BOX_LABEL_TYPE_1			PK	-		0.5

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Attachment 2 – Parts List

	XNV-9083RZ
투명 Dome	S-3000+(f1) min 1.8 mm
외부 Metal 사이에 있는 검정 plastic enclosure	QC-1220UR min 1.5 mm
내부 검정 plastic enclosure	HN-1068 min 1.5 mm
Top Enclosure (Metal)	Aluminum min. 2.0 mm
Bottom Enclosure (Metal)	Aluminum min. 2.0 mm
Mounted bracket Enclosure	Aluminum min. 2.0 mm
10. Thermal pad 재질 정보	KGP-1
11. Internal Plastic 재질 정보	NH-1035

No.	Part No.	Part Name	XNV-6083RZ	XNV-8083RZ XNV-9083RZ	XNV-6083Z	XNV-8083Z
1	FC29-015048A	CASE-TOP-XNV-9083RZ	1	1	1	1
	FC29-015048B	CASE-TOP-XNV-9083RZ-HW				
2	FC29-015250A	CASE-DOME-XNV-9083RZ	1	1	1	1
3	FC10-001168A	RUBBER-DOME-IR_XPLUS;RUBBER,-	1	1	1	1
4	FC15-006668B	COVER-DOMEHARD-COATING,100,65	1	1	1	1
5	FC10-001245A	RUBBER-IR-XNV-9083RZ	1	1	1	1
6	FC37-001099A	WINDOW-IR-XNV-9083RZ	1	1	1	1
7	FC09-014204A	BRACKET-IR-XNV-9083RZ	1	1	1	1
8	FC10-001149A	RUBBER-TOP-XNV-6081Z;SILICON	1	1	1	1
9	FC09-009874A	BRACKET-MAGNET-XNV-6081Z;SECC	1	1	1	1
10	FC28-002823A	PAD-THERMAL-PET-38X25XT1,K=7W/M-K	1	1	1	1
11	FC29-010814A	CASE-BOTTOM-XNV-6081Z;ADC12	1	1	1	1
12	HP06-001187	VENT-GORE-PMF100585;MEMBRANE,SCREW IN,PM	1	1	1	1
13	MC06-001042A	BUSHING-CABLE SET;SILICON,PVN-9080R	2	2	2	2
14	FC39-005085A	MOUNT-PLATE-XNV-6081Z;ADC12	1	1	1	1
15	FC15-006682B	COVER-BOT-XNV-6081Z;PC	1	1	1	1
16	FC15-009049A	COVER-R-FRONT-XNV-9083RZ		1		1
17	EP14-001174	LENS SET-YT30033DB;IR-BMP+H151+IR0510(P,-		1		1
18	FC36-001375A	SHEET-PORON-SENSOR,IND-9080		1		1
19	AM06-010743A	ASSY.PCB-XNV-9083RZ SENSOR		1		1
20	FC15-009048A	COVER-R-REAR-XNV-9083RZ		1		1
21	FC15-006395A	COVER-R-FRONT;POM,MOLD	1		1	
22	AM07-015442B	ASSY.MODULE VF-XL2-REPEAT HOOD EXPORT	1		1	
23	FC18-003835A	SPACER-XL2_4M_SPACER-SUS	1		1	
24	AM06-010741A	ASSY.PCB-XNV-6083RZ SENSOR	1		1	
25	FC15-006396A	COVER-R-REAR;PC+GF10,MOLD	1		1	
26	FC15-009047A	COVER-F-CAMERA-XNV-9083RZ	1	1	1	1
27	FC15-009050A	COVER-CDS-XNV-9083RZ	1	1	1	1
28	FC10-001243A	RUBBER-CDS-XNV-9083RZ	1	1	1	1
29	AM06-010737A	ASSY.PCB-XNV-9083RZ HEATER	1	1	1	1
30	AM07-016326A	ASSY.MOTOR-R-XNV-9083RZ	1	1	1	1
31	FC15-006399A	COVER-DOME-IN;PC,MOLD	1	1	1	1
32	FC38-001143A	SPRING.COM-TILT-6085;SUS304WPB	1	1	1	1
33	AM07-016327A	ASSY.MOTOR-T-XNV-9083RZ	1	1	1	1
34	FC04-001006A	BALL-SUS;COMMON	12	12	12	12



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Attachment 2 – Parts List

35	FC15-006401A	COVER-BALL-GUIDE;POM,MOLD	1	1	1	1
36	PT03-003054A	LABEL-WARNING-XNV-6081Z	1	1	1	1
37	FC15-009043A	COVER-IR-XNV-9083RZ	4	4		
	FC15-009043B	COVER-IR-XNV-8083Z			4	4
38	AM06-010735A	ASSY,PCB-XNV-9083RZ IR LED	4	4		
39	FC28-002363A	PAD-THERMAL_W8_D4_T1	4	4		
40	HP07-001750A	CASE,GASKET-XNV-9083RZ;12X39,8,4	2	2	2	2
41	FC39-006947A	FRAME-TOP-XNV-9083RZ	1	1	1	1
42	FC28-003375A	PAD-THERMAL-45X30XT2,K=7W/M-K	2	2	2	2
43	FC28-002489A	PAD-THERMAL_1014T2_V6430BNH	3	3	3	3
44	FC15-006402A	COVER-PAN-LOCK;POM,MOLD	1	1	1	1
45	AM07-016308A	ASSY,MOTOR-P-XNV-9083RZ	1	1	1	1
46	AM06-010739A	ASSY,PCB-XNV-9083RZ SD	1	1	1	1
47	AM06-010687A	ASSY,PCB-XNV-9083RZ POWER	1	1	1	1
48	AM06-010749A	ASSY,PCB-XNV-9083RZ MAIN	1	1	1	1
49	FC28-003379A	PAD-THERMAL-25X18XT4,K=7W/M-K	1	1	1	1
50	AM06-009943A	ASSY,PCB-KL720 MODULE	1	1	1	1
51	FC28-003562A	PAD-THERMAL-25X25XT2,K=7W/M-K	1	1	1	1
52	FC09-009905A	BRACKET-YOKE-XNV-6081Z;SECC	1	1	1	1
53	EP10-001189A	MAGNET-OD44-T3.0-N35UH	1	1	1	1
54	FC29-011023A	STRAP-PULL-XNV-6081Z	1	1	1	1
55	FC39-006948A	FRAME-BOT-XNV-9083RZ	1	1	1	1
56	FC28-003563A	PAD-THERMAL-PET-XNV-9083RZ,K=7W/M-K	1	1	1	1
57	HP07-001393A	GASKET-XNV-6081Z;8,4X18,2,3,5	2	2	2	2

No.	Part No.	Part Name	XNV-6083RZ	XNV-8083RZ XNV-9083RZ	XNV-6083Z	XNV-8083Z	
S1	FC18-004000A	SCREW-BUILT-IN_TORX20;0,7,15,NO,4	6	6	6	6	
S2	Z9642306007	MACHINE SCREW(M3xL6,Zn-B,넵비머리)	17	17	17	17	
S3	Z6001053501A	SCREW-MACHINE;6001-001476,BH,+,M3,L6,Ni	6	6	6	6	
S4	Z6003019601A	SCREW-TAPTITE;PH,+,M2,L6,BLK,B-TYPE	3	2	3	2	
S5	Z6003020401A	SCREW-TAPTITE;6003-001453,BH,+,B,M1,7,L	3		3		
S6	Z6003019801A	SCREW-TAPTITE;6003-001440,BH,+,B,M2,L4,	10	10	10	10	
S7	FC18-004952A	SCREW,TAPTITE-M3;SPECIAL,0,5,8,N,3	2	2	2	2	
S8	FC18-003435A	SCREW,MS-M1,7L4_CH;CH,0,35,4,NONE,0	4	4	4	4	
S9	Z6001055201A	SCREW-MACHINE;6001-001708,BH,+,M2,L5,ZP	6	6	6	6	
No.	Part No.	Part Name	XNV-6083RZ	XNV-8083RZ XNV-9083RZ	XNV-6083Z	XNV-8083Z	Note
C1	EP02-005133A	HARNESS-XNV-9083RZ;WIRE,BLACK/RED,4P-2P+2P,120MM	2	2			IR ↔ MAIN
C2	EP02-005134A	CABLE-XNV-9083RZ;FFC,10P,-,40MM,0,5PITCH	2	2	2	2	POWER ↔ MAIN
C3	EP02-004260A	HARNESS-XNV-6011;MCX,30P,80MM	1	1	1	1	SD ↔ MAIN
C4	EP02-005130A	HARNESS-XNV-9083RZ;WIRE,6P-6P,220MM,AWG3	1	1	1	1	HEATER ↔ MAIN
C5	EP02-004492B	HARNESS-XNV-6081Z;MCX,50P-50P,120MM,8	1	1	1	1	SD ↔ MAIN

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Attachment 2 – Parts List



LOTTE CHEMICAL CORPORATION
56 GOSAN-RO
UIWANG-SI, GYEONGGI-DO 16073 Republic of Korea



INFINO: HN-1068(+)(f1)

Polycarbonate (PC), pellets

(+) - May be replaced by one, two, or three numbers and/or letter(s)

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

Flammability	Value	Test Method
Flame Rating		UL 94
1.5 mm, ALL	V-0	IEC 60695-11-10, -20
3.0 mm, ALL	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
1.5 mm	825 °C	
3.0 mm	825 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI) (1.5 mm)	PLC 3	UL 746
High Amp Arc Ignition (HAI) (1.5 mm)	PLC 3	UL 746
Comparative Tracking Index (CTI)	PLC 3	UL 746
Dielectric Strength	32 kV/mm	ASTM D149
Volume Resistivity	1.0E+17 ohms-cm	ASTM D257 IEC 60093
Thermal	Value	Test Method
RTI Elec		UL 746
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Str		UL 746
1.5 mm	130 °C	
3.0 mm	130 °C	
Ball Pressure Test (130°C)	Pass	IEC 60695-10-2
Physical	Value	Test Method
Outdoor Suitability	f1	UL 746C

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Attachment 2 – Parts List

QMFZ2.E245303 - Plastics - Component

페이지 1 / 2

**ONLINE CERTIFICATIONS DIRECTORY**

QMFZ2.E245303
Plastics - Component

For enhanced search functionality, please visit UL's [iQ™ Family of Databases](#).
Click on a product designation for complete information.

[Page Bottom](#)**Plastics - Component**[See General Information for Plastics - Component](#)**KOMOTECH CO LTD**

992-2 GUMSAN-RI

WAEGWAN-EUP

CHILGOK-GUN, KYOUNGSANGBUK-DO REPUBLIC OF KOREA

E245303

		Min.		H	H	R T I		H	D	C	
		Thk	Flame	W	A	Elec	Mech	T	9	T	
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I
PET with silicone adhesive, furnished as sheets.											
JC-01(#)SN	GY	0.18-1.02	-	-	-	50	50	50	-	-	-
Silicone "Room Temperature Vulcanizing" (RTV), furnished as sheets.											
RM-2	NC	0.2 - 1.5	V-0	-	-	150	150	150	-	-	-
Silicone (SI), with adhesive, furnished as sheets.											
GP-1	NC	0.35	V-0	-	-	150	150	150	-	-	0
		3.2	V-0	-	-	150	150	150			
TR-F	NC	0.35	V-0	-	-	150	150	150	-	-	0
		3.2	V-0	-	-	150	150	150			
Silicone (SI), furnished as Sheet or Roll.											
KGP-Z	NC	2.0	V-0	-	-	105	105	105	-	-	-
		3.0	V-0	-	-	105	105	105			
Silicone (SI), furnished as sheets.											
\$GEL COH-1307	NC	0.45	V-0	-	-	105	105	105	-	-	-
		1.0	V-0	-	-	105	105	105			
		3.0	V-0	-	-	105	105	105			
KGP-1	NC	0.2	V-0	-	-	105	105	105	-	-	-
		3.0	V-0	-	-	105	105	105			
TR-E	NC	0.5	V-1	-	-	150	150	150	-	-	-
		0.9	V-1	-	-	150	150	150			
		3.0	V-0	-	-	150	150	150			
TR-EA-1	NC	0.9	V-1	-	-	150	150	150	-	-	-
		3.0	V-0	-	-	150	150	150			
TR-EA-2	NC	0.9	V-0	-	-	150	150	150	-	-	-
		3.0	V-0	-	-	150	150	150			
TR-H	NC	1.8	V-1	-	-	150	150	150	-	-	-
		0.2-1.5	V-0	-	-	150	150	150			
TR-M	NC	0.4	V-0	-	-	150	150	150	-	-	-
		0.9	V-0	-	-	150	150	150			

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Attachment 2 – Parts List

UL iQ™ for Plastics

页码, 1/1

Component - Plastics

E41179

MITSUBISHI ENGINEERING-PLASTICS CORP

QUALITY ASSURANCE DIV 1 GROUP, YAESU DAI BLDG, CHUO-KU, 1-1 KYOBASHI 1-CHOME, TOKYO
104-0031 JP

S-3000+(f1), S-3001+(f1), S-3003+(f1)

Polycarbonate (PC), insulating material, "lupilon", furnished as pellets, powder, sheets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.38	V-2	-	-	80	80	80
	1.5	V-2	3	0	125	115	125
	1.8	V-2	3	0	125	115	125
	3.0	HB	3	0	125	115	125
	6.0	HB	0	0	125	115	125

Comparative Tracking Index (CTI): 2

Dimensional Stability (%): 0

High-Voltage Arc Tracking Rate
(HVT): 0

High Volt, Low Current Arc Resis (D495): 5

Dielectric Strength (kV/mm): 20

Volume Resistivity (10⁸ ohm-cm): 7

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

+ - Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF-(v)(u).

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: 1972-10-26

Last Revised: 2003-10-24

Underwriters Laboratories Inc®



IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.38	V-2 (ALL)
			1.5	V-2 (ALL)
			1.8	V-2 (ALL)
			3.0	HB40 (ALL)
			6.0	HB40 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
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 179-2	kJ/m ²	-	-

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Attachment 2 – Parts List



UL Certification

INFINO	Grade	QC-1220UR
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Component - Plastics

Quick Information

LOTTE ADVANCED MATERIALS CO LTD

35 Gosa-ro, Unwang-gi Gyeonggi-do 437-711 KR

QC-122(+)(1)

Polycarbonate (PC) "INFINO", furnished as pellets

Color	Min. Thickness	Flame Class	HRR	HA	RTI Class	RTI Index	RTI Value	RTI	RTI
ALL	1.6	V-2	3	0	130	125	125	125	125
	3.2	V-2	2	0	130	130	130	130	130

Cooperative Tracking Index (CTI): 0

Dielectric Strength (kV/mm): -

High-Voltage Arc Tracking Rate (HVR): 2

Dimensional Stability (%): -

Inclined Plane Tracking (IPT) KV: -

Volume Resistivity (10¹² ohm-cm): 18

High Volt. Low Current Arc Resis (DA95): 5

[1] - May be replaced by one, two, or three numbers and/or letters.

[RTI] - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

UL94V-0, 10 small-scale test data does not pertain to building materials, furnishings and related contents. UL94V-0, 10 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: 2020-10-17

Last Revised: 2019-12-11

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UL US

IEC and ISO Test Methods				
Test Name	Test Method	Units	THA (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	1.6	V-2 (ALL)
			3.2	V-2 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-3-12	°C	1.6	950
			3.2	950
Glow-Wire Ignition (GWI)	IEC 60695-3-13	°C	1.6	950
			3.2	950
IEC Cooperative Tracking Index	IEC 60112	Volts (Index)	-	-
IEC Ball Pressure	IEC 60695-15-2	°C	-	-
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 638	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-

Component - Plastics

Quick Information

LOTTE ADVANCED MATERIALS CO LTD

35 Gosa-ro, Unwang-gi Gyeonggi-do 437-711 KR

QC-122(+)(2)

Polycarbonate (PC) "INFINO", furnished as pellets

Color	Min. Thickness	Flame Class	HRR	HA	RTI Class	RTI Index	RTI Value	RTI	RTI
NC	0.8	V-2	-	-	80	80	80	80	80
ALL	1.6	V-2	3	0	130	125	125	125	125
	3.2	V-2	2	0	130	130	130	130	130

Cooperative Tracking Index (CTI): 0

Dielectric Strength (kV/mm): -

High-Voltage Arc Tracking Rate (HVR): 2

Dimensional Stability (%): -

Inclined Plane Tracking (IPT) KV: -

Volume Resistivity (10¹² ohm-cm): 18

High Volt. Low Current Arc Resis (DA95): 5

[1] - May be replaced by one, two, or three numbers and/or letters

[RTI] - Suitable for one or more of the following tests: Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

UL94V-0, 10 small-scale test data does not pertain to building materials, furnishings and related contents. UL94V-0, 10 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: 2020-10-17

Last Revised: 2019-07-31

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UL US

IEC and ISO Test Methods

Test Name	Test Method	Units	THA (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.8	V-2 (NC)
			1.6	V-2 (ALL)
			3.2	V-2 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-3-12	°C	1.6	950
			3.2	950
Glow-Wire Ignition (GWI)	IEC 60695-3-13	°C	1.6	950
			3.2	950
IEC Cooperative Tracking Index	IEC 60112	Volts (Index)	-	-
IEC Ball Pressure	IEC 60695-15-2	°C	-	-
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 638	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-

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Attachment 2 – Parts List

LOTTE
ADVANCED MATERIALS

UL 인증 | 롯데첨단소재

INFINO

Grade

NH-1035

iq.ul.com

Component - Plastics [guide info]

E115797

Lotte Advanced Materials Co Ltd

56 Gosan-ro, Ulsang-si Gyeonggi-do 437-711 KR

NH-1035(+)

Polycarbonate (PC), "INFINO", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	1.5	V-0	-	-	80	80	80
	2.0-2.7	V-0, 5VB	-	-	80	80	80

Comparative Tracking Index (CTI): -

Dielectric Strength (kV/mm): -

High-Voltage Arc Tracking Rate (HVTR): -

Dimensional Stability (%): -

Inclined Plane Tracking (IPT): -

Volume Resistivity (10⁹ ohm-cm): -

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

(+)- May be replaced by one, two, or three numbers and/or letter(s)

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: 1998-08-24

Last Revised: 2008-02-15

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10, IEC 60695-11-20	Class (color)	1.5	V-0 (ALL)
			2.0-2.7	V-0, 5VB (ALL)
Glow-Wire Flammability (GWI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWI)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
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 179-2	kJ/m ²	-	-

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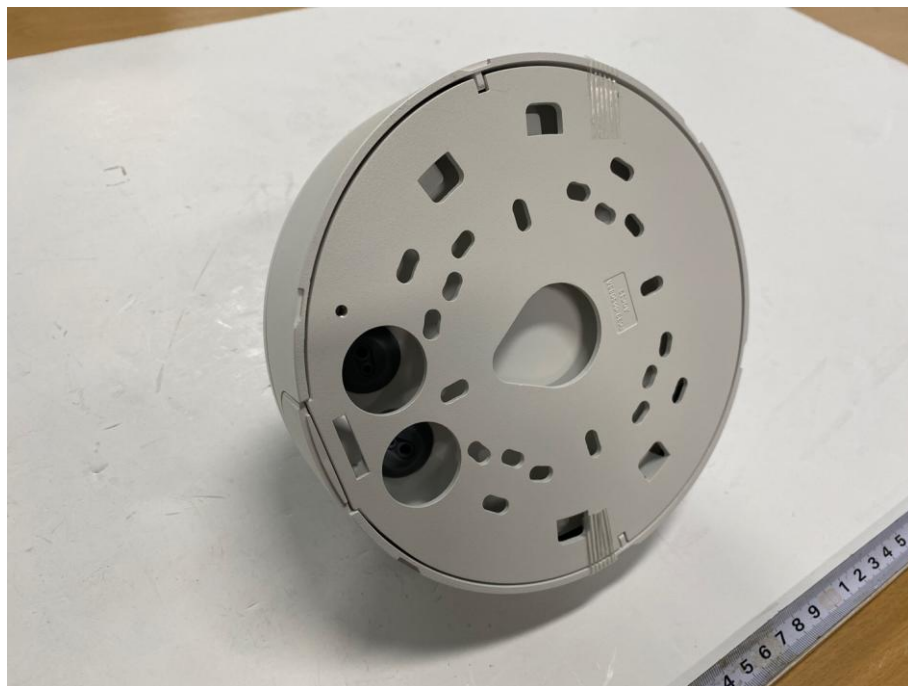
5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
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Attachment 3 – Photographs

Test Unit



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Attachment 3 – Photographs

Hose down test





CTK Co., Ltd.

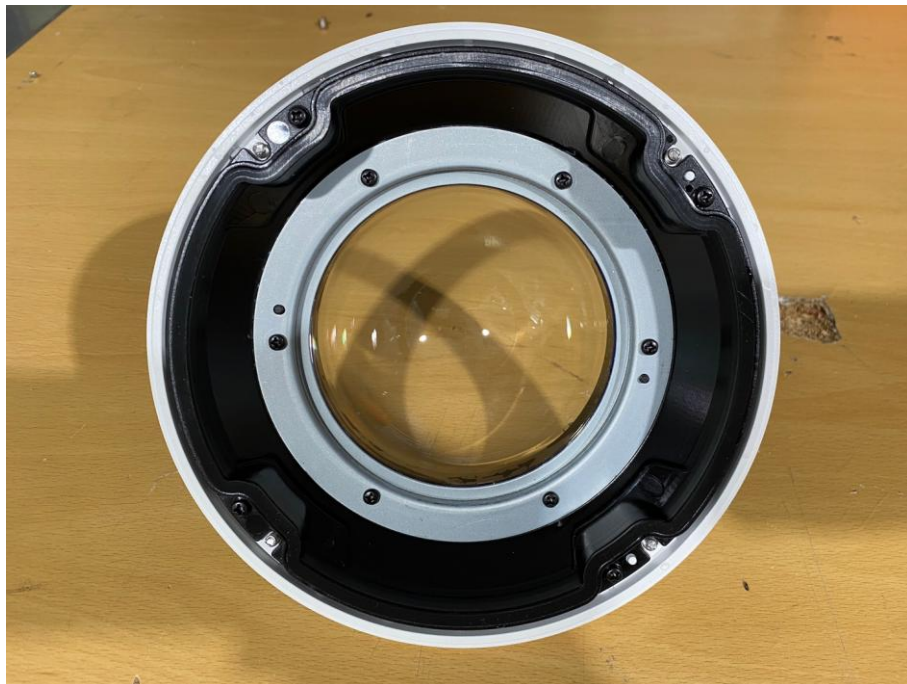
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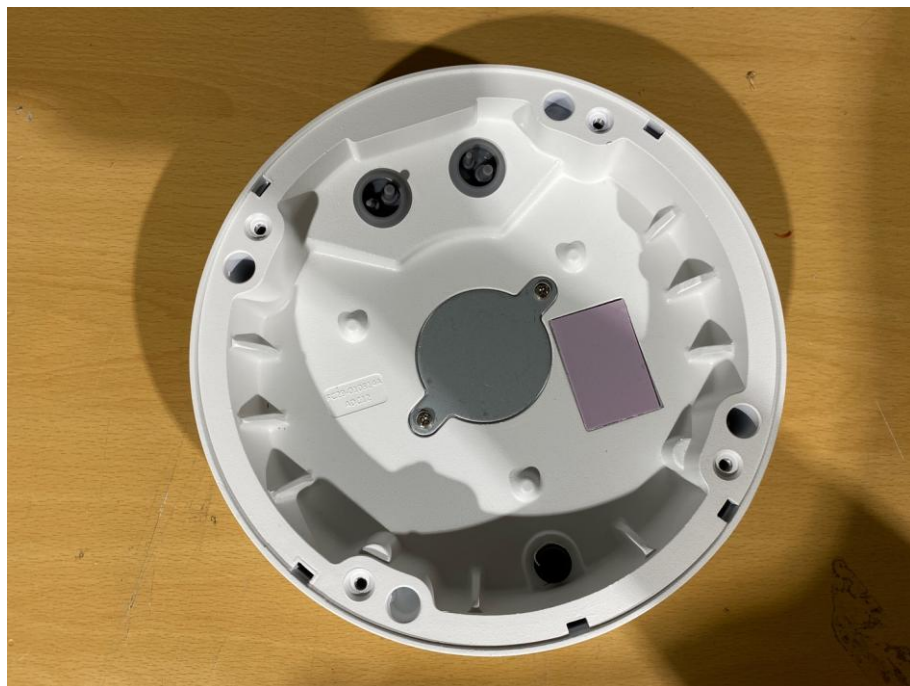
Test Result



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Attachment 3 – Photographs

Test Result



- END -