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Please note, Follow-Up Procedure Revisions or Report Revisions do not include Authorization Pages, Indices, Section General, and/or Appendices unless revisions were required or requested.

Should you have any questions, after reviewing the material, or need to report any inaccuracies, please reach out to your UL representative or find UL contact details for your local Customer Service Department at <https://www.ul.com/about/locations>.

Please find attached the related material

For your convenience, the below describes the related updates:

1. Project 4790691770.
2. For revised/new documentation, please reference Volume X13, Section A6150 in the page heading.

E158873-volX13-Index
E158873-20230227-CertificateofCompliance
E158873-A6150-DescriptionUL
Figure-25-Total
E158873-A6150-TestRecordUL

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Times change, Trust Remains™

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Product Type	Model/Type Reference	Report Reference #	Status
NETWORK VIDEO RECORDER	XRN-6410B4, XRN-3210B4	E158873-A6027-UL	
NETWORK VIDEO RECORDER	PRN-6410B4, PRN-3210B4, XRP-4210B4, PRN-6400B4, PRN-3200B4	E158873-A6028-UL	
NETWORK VIDEO RECORDER	XRN-6410DB4	E158873-A6029-UL	
NETWORK VIDEO RECORDER	PRN-6410DB4, XRP-4310DB4, PRN-6400DB4	E158873-A6030-UL	
NETWORK CAMERA	PNM-9002VQ	E158873-A6031-UL	
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NETWORK CAMERA	XNB-6001*, XNB-H6240A, XNB-H6242A	E158873-A6064-UL	
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NETWORK CAMERA	QNP-6320, QNP-6250, QNP-6251	E158873-A6068-UL	
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NETWORK CAMERA	XNV-C9083R, XNV-C8083R, XNV-C7083R, XNV-C6083R, XNV-C6083	E158873-A6070-UL	
NETWORK CAMERA	TID-600R	E158873-A6071-UL	
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NETWORK CAMERA	TNO-7180R, TNO-7180RLP	E158873-A6075-UL	
NETWORK CAMERA	XND-C9083RV, XND-C8083RV, XND-C7083RV, XND-C6083RV	E158873-A6076-UL	
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NETWORK CAMERA	LND-6072R	E158873-A6106-UL	
NETWORK CAMERA	LNO-6012R, LNO-6022R, LNO-6032R, ANO-L6012R, ANO-L6022R	E158873-A6107-UL	
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NETWORK CAMERA	PNM-12082RVD, PNM-7082RVD	E158873-A6120-UL	
NETWORK CAMERA	ANV-L7082R, ANV-L6082R	E158873-A6121-UL	
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NETWORK VIDEO RECORDER	ARN-810S	E158873-A6129-UL	
NETWORK CAMERA	XNV-9083RZ, XNV-8083RZ, XNV-6083RZ	E158873-A6130-UL	
DIGITAL VIDEO RECORDER	HRX-434	E158873-A6131-UL	
NETWORK CAMERA	XNV-8083Z, XNV-6083Z	E158873-A6132-UL	
NETWORK VIDEO ENCODER	SPE-420	E158873-A6133-UL	
NETWORK CAMERA	XNB-6002	E158873-A6134-UL	
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DIGITAL VIDEO RECORDER	HRX-1634	E158873-A6136-UL	
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NETWORK CAMERA	PNM-C9022RV	E158873-A6138-UL	
PENDANT SPEAKER	SPA-P100W, SPA-P100B	E158873-A6139-UL	
SECURITY LED MONITOR	SMT-2212	E158873-A6140-UL	
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DIGITAL VIDEO RECORDER	ARD-810, ARD-410	E158873-A6144-UL	
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USB JOYSTICK CONTROLLER	SPC-2001	E158873-A6151-UL	

CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2307417-0
Report Reference E158873-20230227
Date 2-Mar-2023

Issued to: Hanwha Techwin Co Ltd
6, Pangyo-ro 319beon-gil, Bundang-gu Seongnam-si,
Gyeonggi-do 13488
Republic of Korea

This is to certify that representative samples of AZOT - Audio/Video, Information and Communication Technology Equipment
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 62368-1, 3rd Ed., Issue Date: 2019-12-13, Revision Date: 2021-10-22

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.


Deborah Jennings-Conner, VP Regulatory Services
UL LLC



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2307417-0
Report Reference E158873-20230227
Date 2-Mar-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
PNV-A6081R-E1T	AV, ITE, and AVICT Equipment
PNV-A6081R-E2T	AV, ITE, and AVICT Equipment

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2306459-0
Report Reference E158873-20230227
Date 2-Mar-2023

Issued to: Hanwha Techwin Co Ltd
6, Pangyo-ro 319beon-gil, Bundang-gu Seongnam-si,
Gyeonggi-do 13488
Republic of Korea

**This is to certify that
representative samples of** AZOT7 - Audio/Video, Information and Communication
Technology Equipment Certified for Canada
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: CSA C22.2 No. 62368-1:19, 3rd Ed., Issue Date: 2019-12-
13, Revision Date: 2021-10-22

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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Look for the UL Certification Mark on the product.


Deborah Jennings-Conner, VP Regulatory Services
UL LLC



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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2306459-0
Report Reference E158873-20230227
Date 2-Mar-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
PNV-A6081R-E1T	AV, ITE, and AVICT Equipment
PNV-A6081R-E2T	AV, ITE, and AVICT Equipment


Deborah Jennings-Conner, VP Regulatory Services

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UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Listing
CCN:	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	NETWORK CAMERA
Model:	PNV-A6081R-E2T, PNV-A6081R-E1T
Rating:	12 Vdc, 1.46A / PoE (53 Vdc), 0.36 A
Applicant Name and Address:	HANWHA TECHWIN CO LTD 6, PANGYO-RO 319BEON-GIL, BUNDANG-GU SEONGNAM-SI GYEONGGI-DO 13488 KOREA

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared By: SeoHwan Kim / Project Handler Reviewed By: HanQ Choi / Reviewer

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

A. Authorization - The Authorization page may include additional Factory Identification Code markings.

B. Generic Inspection Instructions -

- i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
- ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
- iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

NETWORK CAMERA has been designed for outdoor use and integrated a hole for mount.

It is a commercial equipment supplied from UL Listed 12 Vdc or PoE (Power over Ethernet) and installed by service personnel.

Model Differences

PNV-A6081R-E2T is basic model.

PNV-A6081R-E1T is identical to basic model except model designation and SSD Specification.

PNV-A6081R-E2T: 2TB

PNV-A6081R-E1T: 1TB

Test Item Particulars

Product group	end product
Classification of use by	Instructed person
Supply Connection	not mains connected: ES1
Supply tolerance	None
Supply connection – type	12 Vdc or PoE (Power over Ethernet)
Considered current rating of protective device	N/A
Equipment mobility	wall/ceiling-mounted
Over voltage category (OVC)	OVC I
Class of equipment	Class III
Special installation location	Outdoor location
Pollution degree (PD)	PD 2
Manufacturer's specified T _{ma} (°C)	55 Outdoor: minimum -20
IP protection class	IP 66, 67
Power systems	not AC mains
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	2000 m or less
Mass of equipment (kg)	2.06

Technical Considerations

- ☐ The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 55°C
- ☐ The product is intended for use on the following power systems : No direct connection
- ☐ Considered current rating of protective device as part of the building installation (A) : N/A
- ☐ Mains supply tolerance (%) or absolute mains supply : No direct connection
- ☐ The Risk Group of a lamp or lamp system (including LEDs) is : RG 1
- ☐ The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual
- ☐ The outdoor equipment/enclosure was evaluated for use in an ambient temperature range of: -20 °C to +55 °C

Additional Information

4790691770

- Maximum Normal Load: Continuous operation (IR LED on), (Optional features: Heater on)

Additional Standards

The product fulfills the requirements of: N/A

Markings and Instructions

Clause Title	Marking or Instruction Details
Optical radiation from lamps - Hazard-related risk group marking of equipment:	"NOTICE - IR emitted from this product" for Risk Group 1. "NOTICE - IR émis par ce produit." for Risk Group 1.
Retinal thermal hazard, weak visual stimulus 780-1400 nm	Text on equipment is black on a yellow background. Reproduction in user manual is not required to be in color.
Equipment identification marking – Manufacturer identification	Listee's or Recognized Company's name, Trade Name, Trademark or File Number
Equipment identification marking – model identification	Model Number
Equipment rating marking – ratings	Input Ratings (voltage, frequency/dc, current/power)
Outdoor enclosure type	"Raintight", IP66, IP67
Installation Manual	These servicing instructions are for use by qualified service personnel only.
Hard Copy	A. IMPORTANT or ATTENTION or similar wording.B. Please check 'Manuals' from our website, before connecting to the supply.C. Company website URL (https://www.~~) or QR code.

(Website) Manual - 1	This product is intended to be supplied by a Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated from 12Vdc 1.46A or PoE (53 Vdc), 360 mA
(Website) Manual - 2	The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3.at shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.
Special Instructions to UL Representative N/A	

BD1.0	TABLE: Production-Line Testing Requirements					
BD1.1	Electric Strength Test Special Constructions – Refer to Generic Inspection Instructions, Part AC for further information.					
Model	Component	Removable parts	Test probe location	Test V rms	Test V dc	Test Time, s
N/A	N/A	N/A	N/A	N/A	N/A	N/A
BD1.2	Earthing Continuity Test Exemptions – This test is not required for the following models:					
	All models					
BD1.3	Electric Strength Test Exemptions – This test is not required for the following models:					
	All models					
BD1.4	Electric Strength Test Component Exemptions – The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test.					
	All models					

BE1.0	Sample and Test Specifics for Follow-Up Tests at UL				
Model	Component	Material	Test	Sample (s)	Test Specifics
-	-	-	-	-	-

4.1.2	TABLE: List of critical components					Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Product Category CCN(s)	Mark(s) of conformity	Supplement ID
Dome Cover (Plastic)	MITSUBISHI ENGINEERING- PLASTICS CORP	S3000(&6)(f1)	Min. 1.8 mm thickness, rated Min. V-2,115deg. C, see enclosure for dimension	QMFZ2	UL (E41179)	
Top Enclosure (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 2.0 mm thickness.	-	-	
Mounted bracket Enclosure (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 2.0 mm thickness.	-	-	
Internal Plastic Part Materials	LOTTE ADVANCED MATERIALS CO LTD	NH-1035(+)	Min. 1.5 mm thickness, rated Min. V-0, 80 deg. C.	QMFZ2	UL (E115797)	
Fuse (F3)	LITTELFUSE INC	449*	125V, 2.5 A	JDYX2	UL (E10480)	
Line Filter (T2, T4)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO. , LTD	PCM10029R	6 mH, 125 deg. C, See enclosure for more detail.	-	-	
Opto-coupler (LS1)	LITE-ON TECHNOLOGY CORP	LTV-816	Isolation Voltage: 5300. Max. Operation Temperature:110 deg. C	FPQU2	UL (E113898)	
Transformer (T3)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO. , LTD	PDT25165 SR	105 deg. C, See enclosure for more detail.	-	-	
Rechargeable coin battery (BAT1)	FDK CORPORATION	ML614R	Lithium (Coin), Rechargeable, Max ChargingVoltage, 5 V dc, Max Charging current: 300 mA	BBCV2	UL (MH13421)	

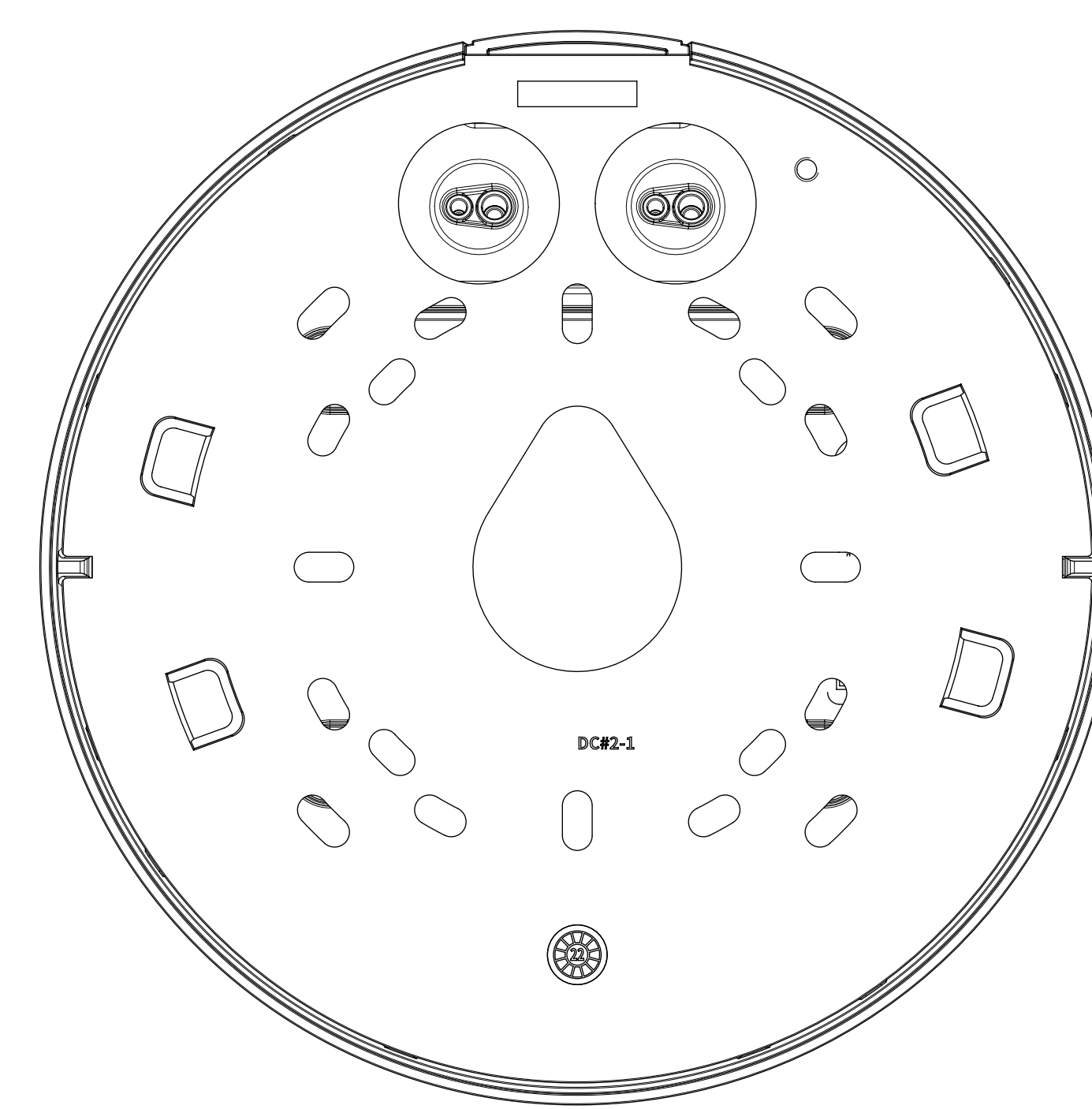
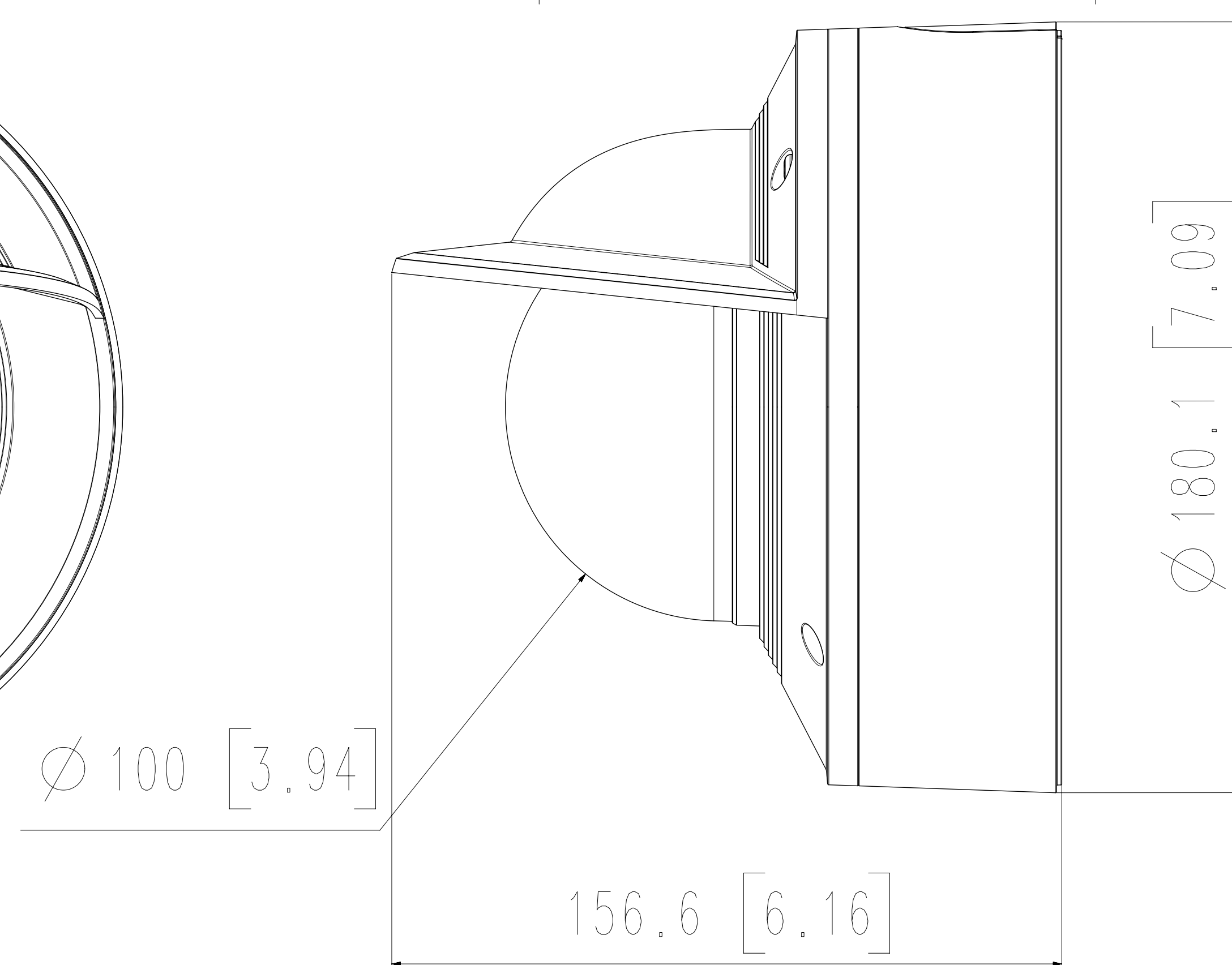
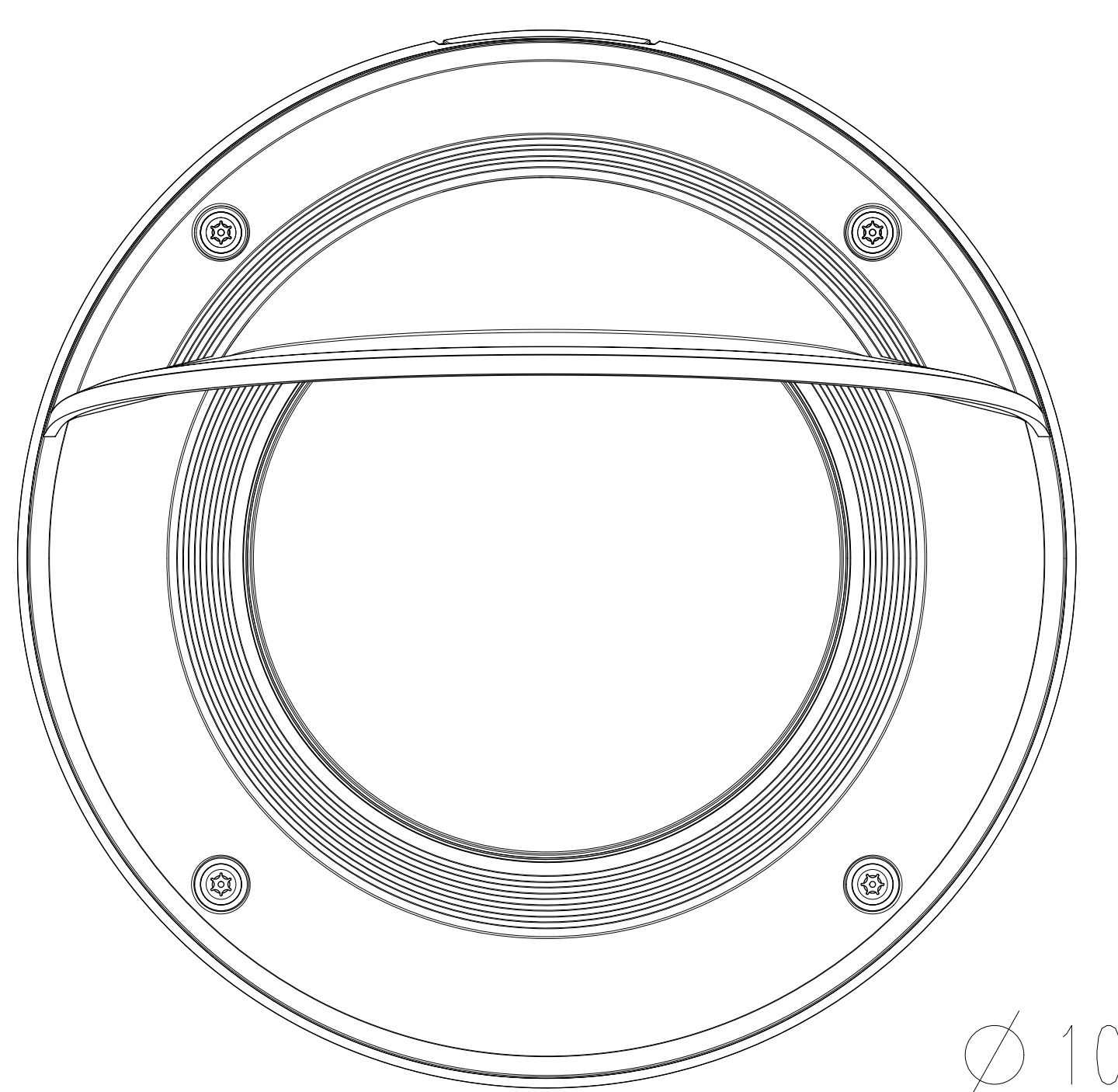
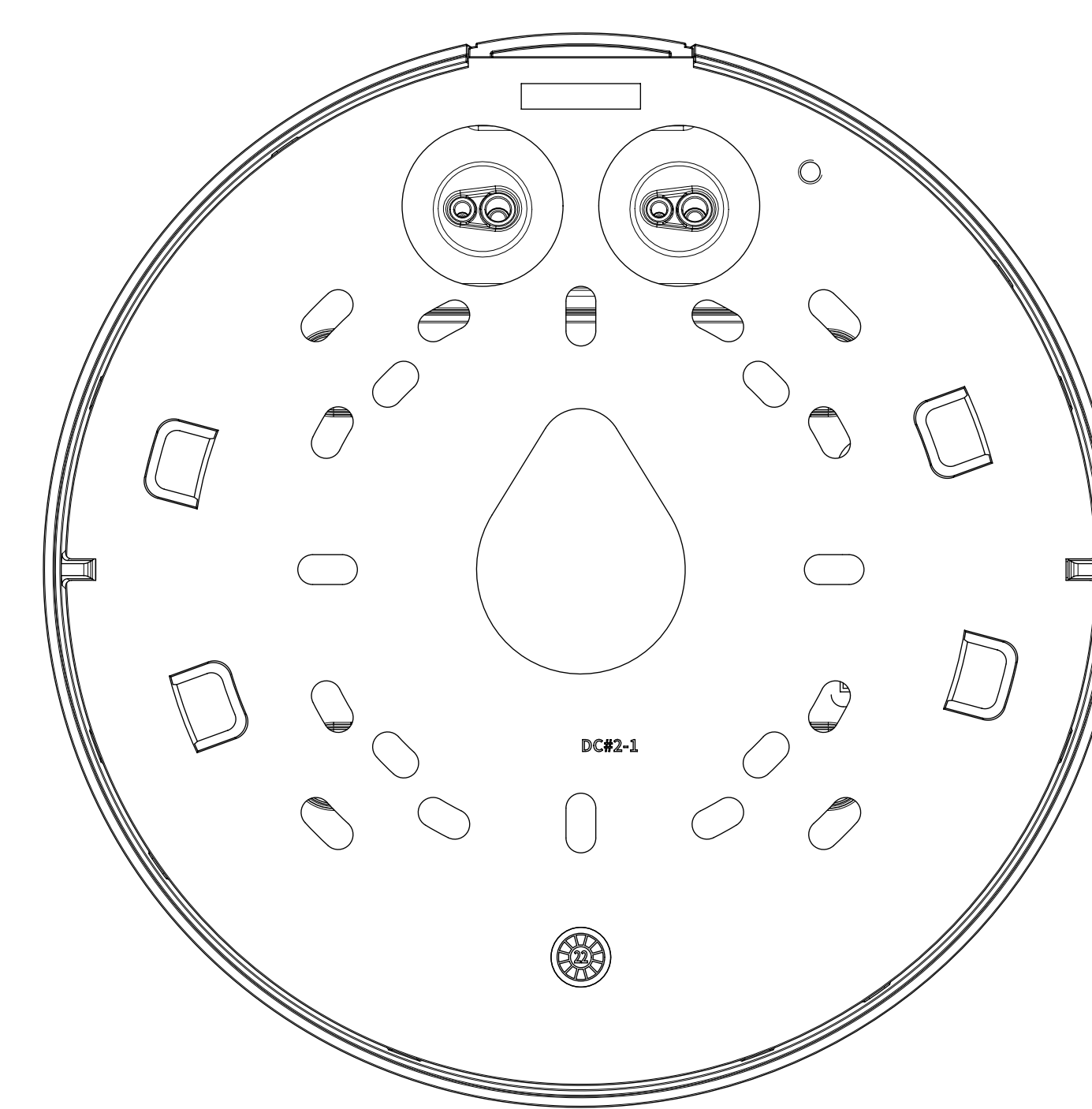
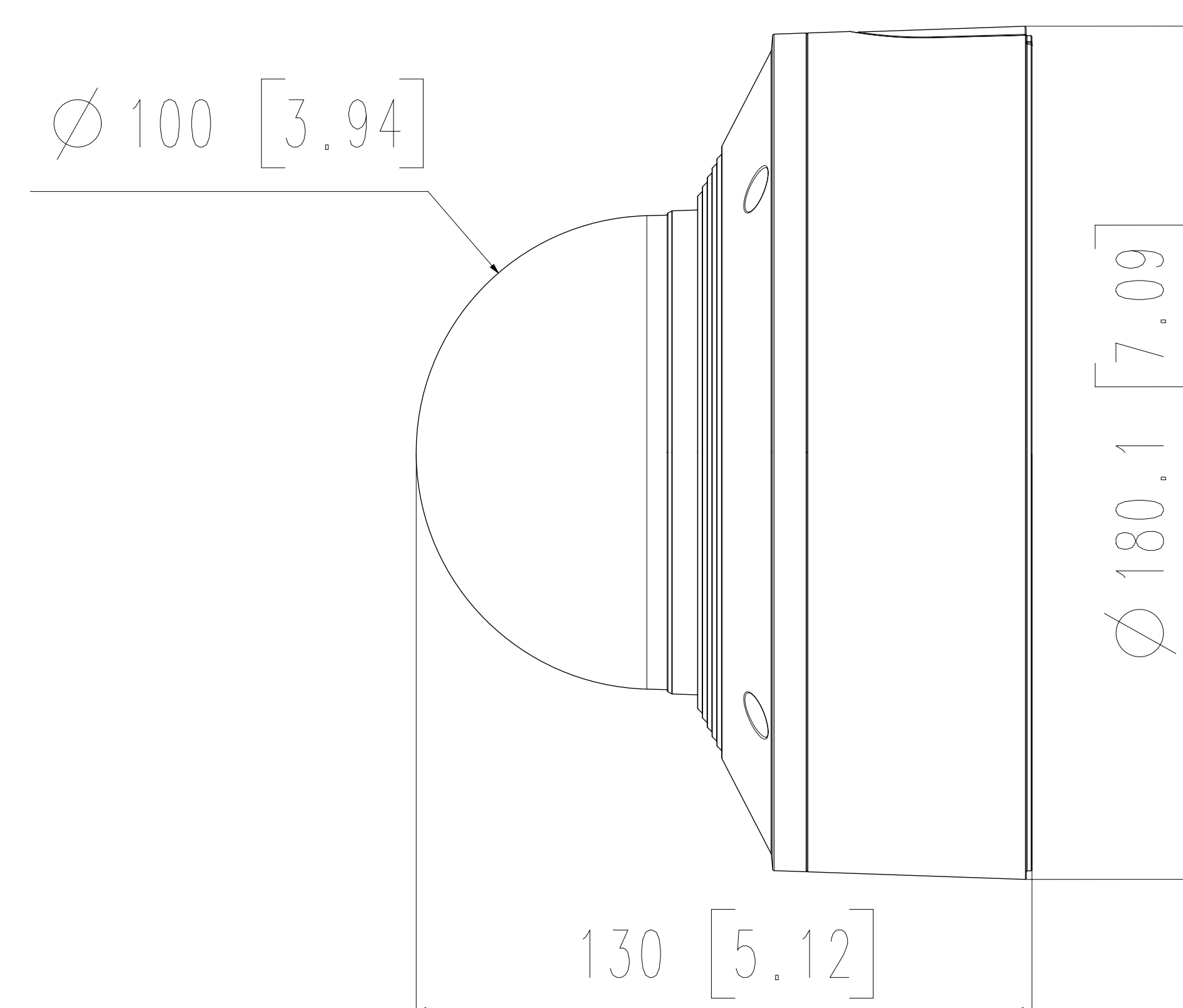
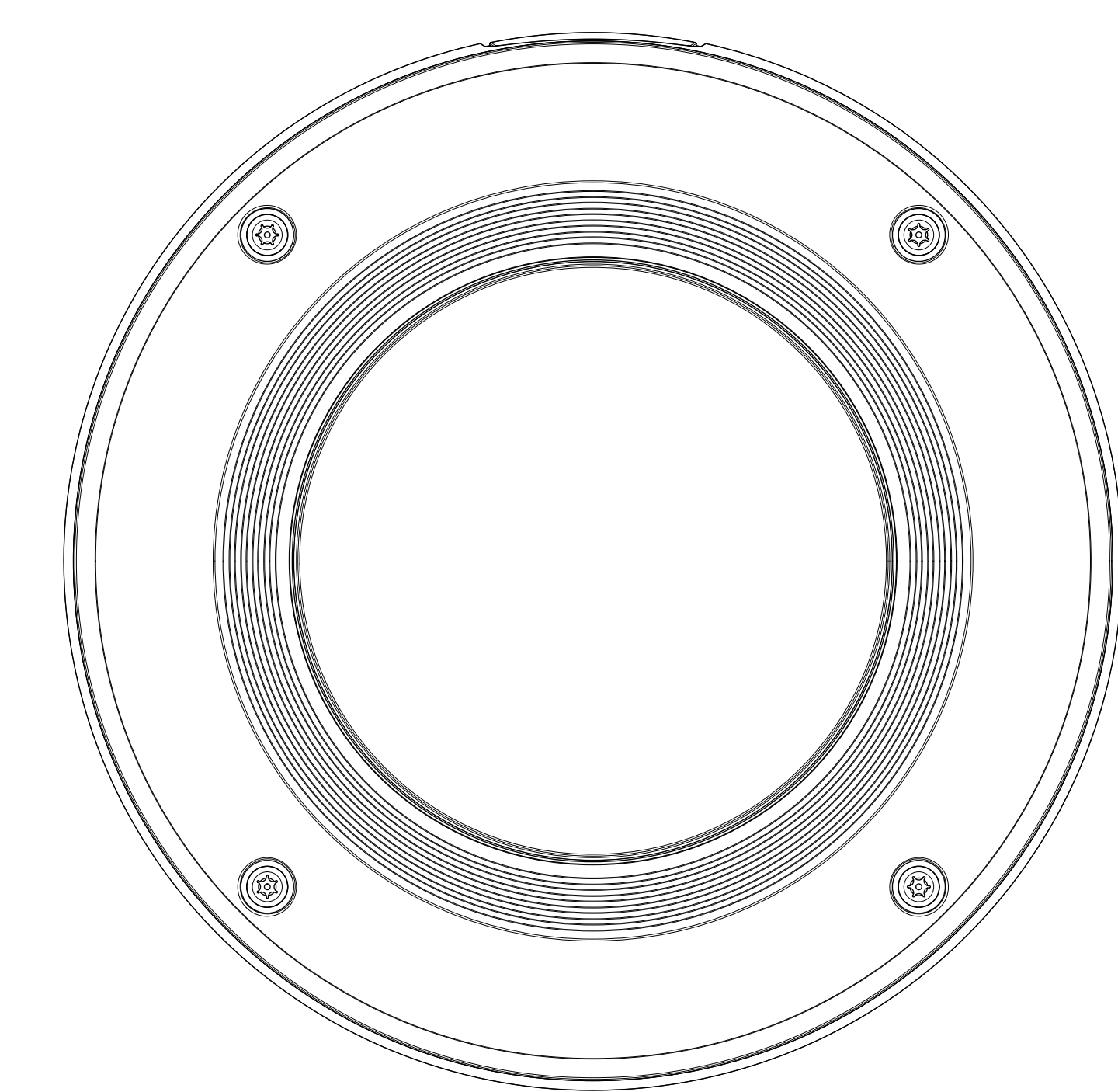
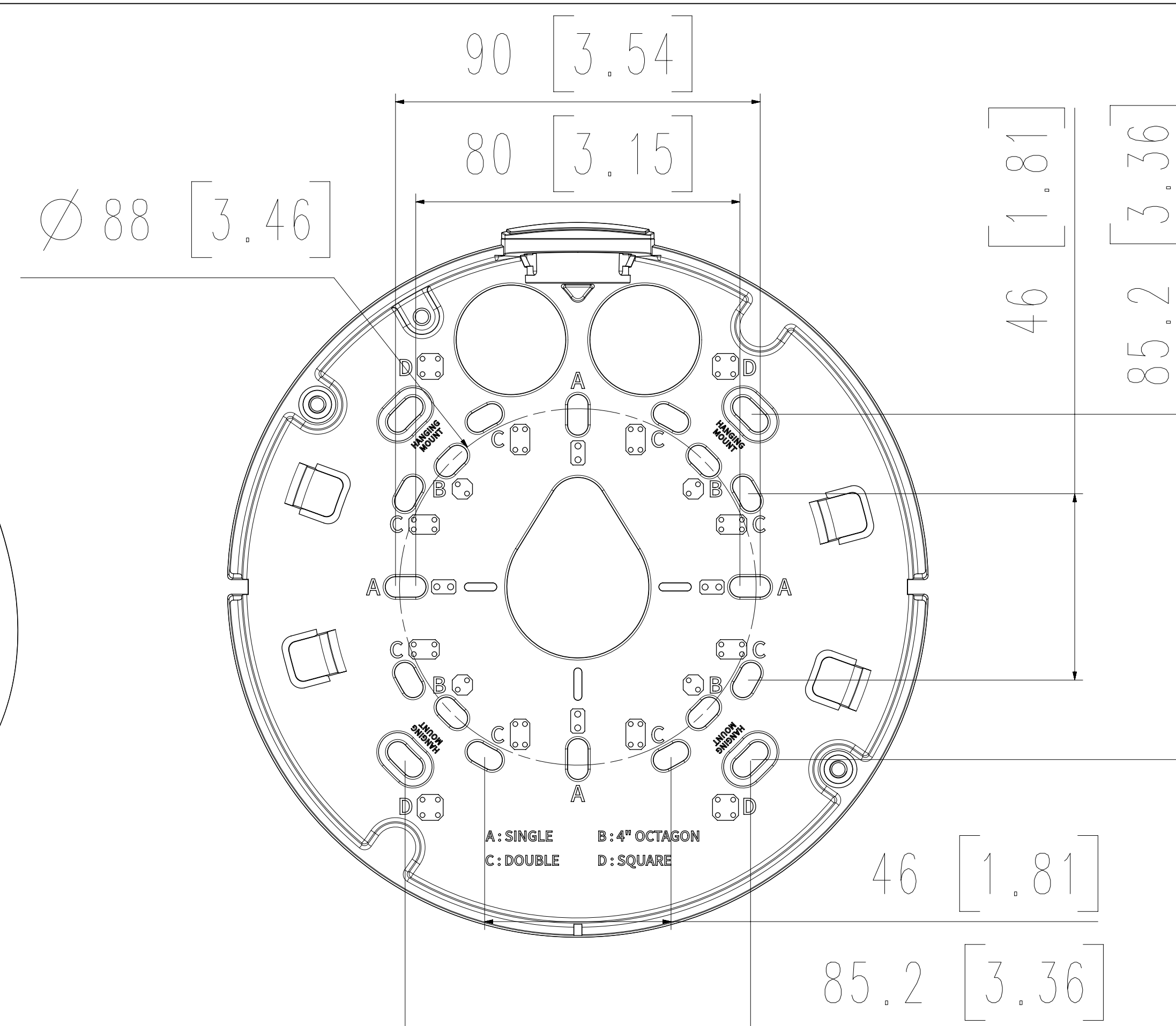
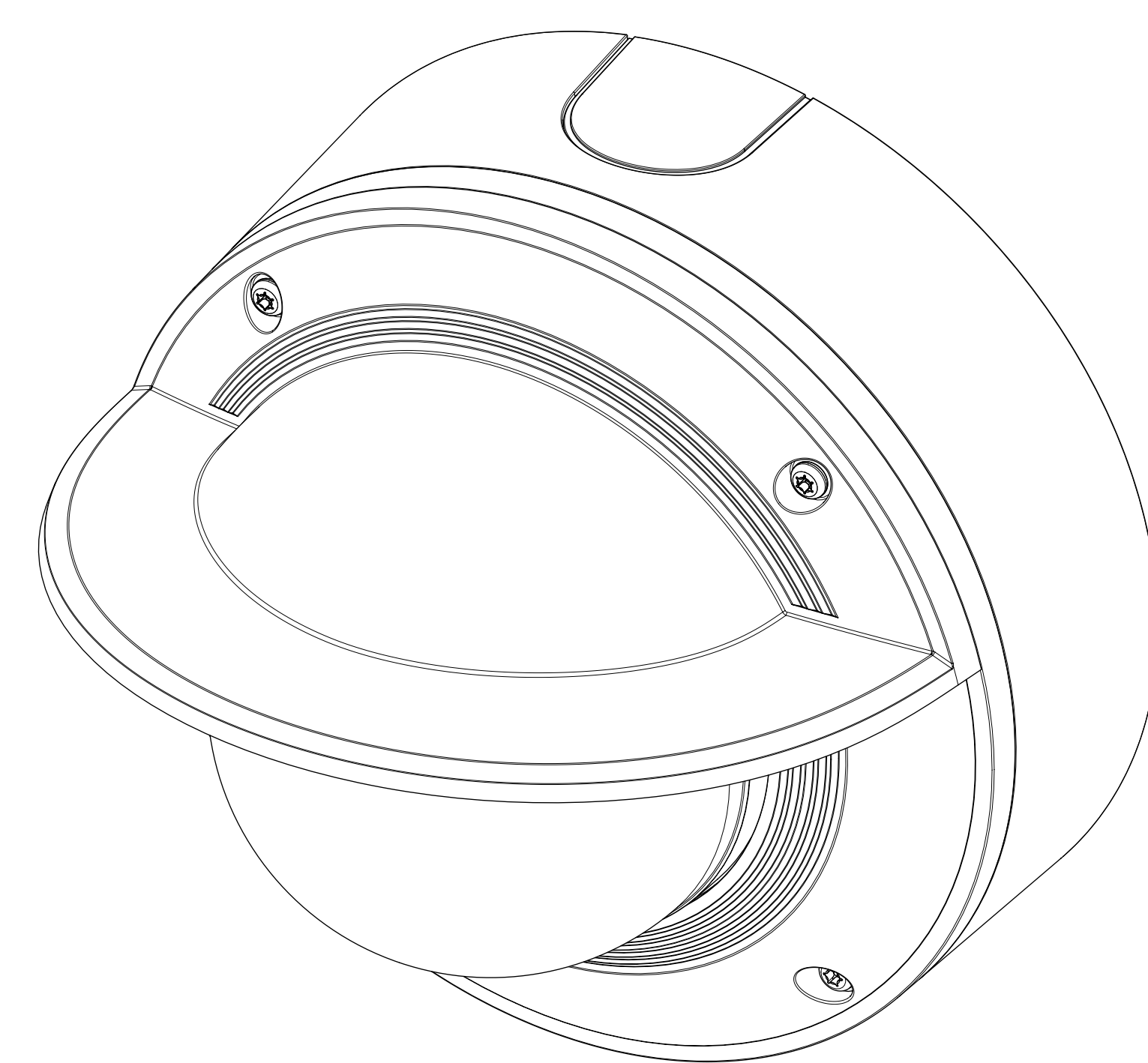
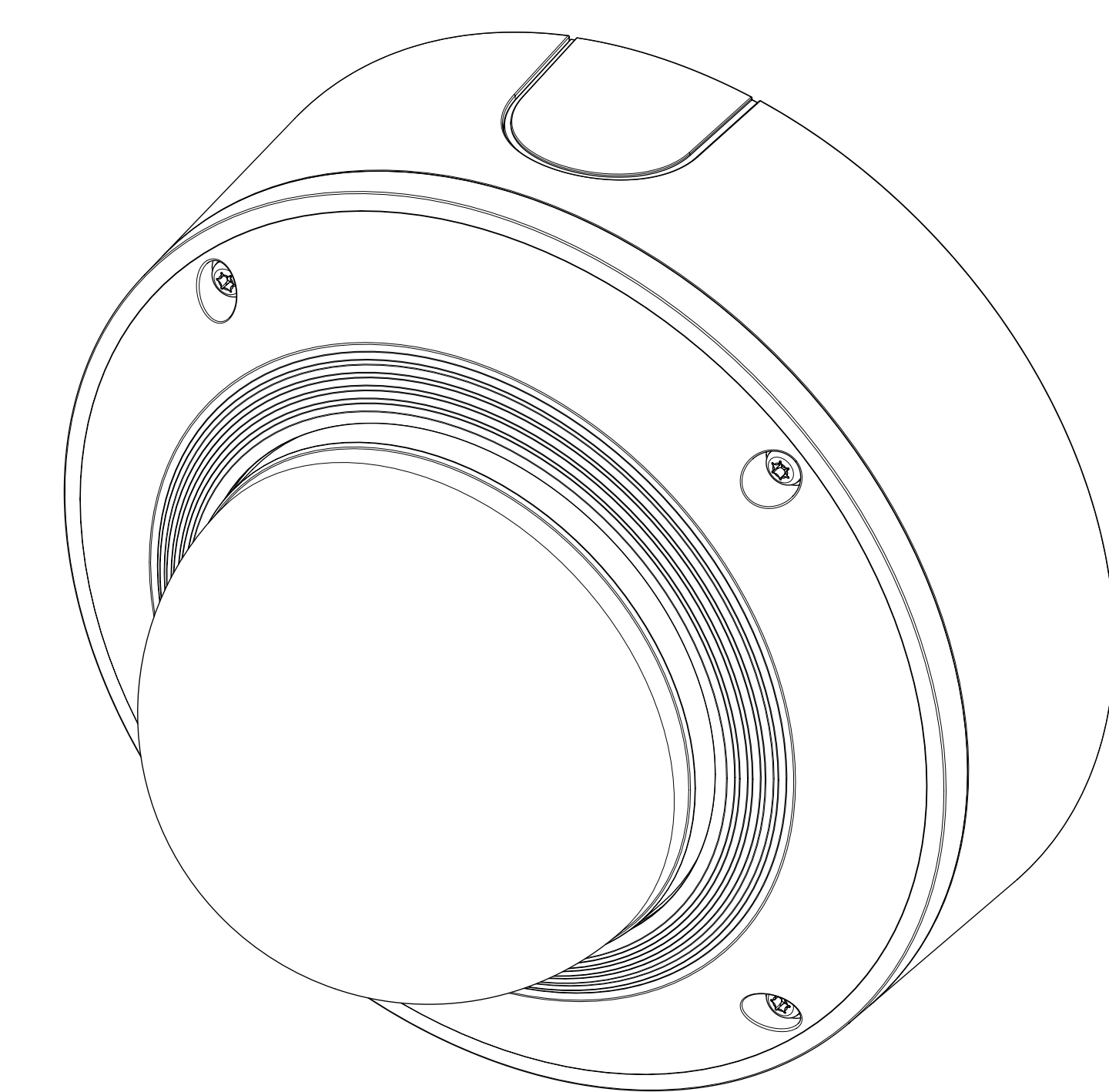
Rechargeable coin batter protect circuit (D1)	Interchangeable	Interchangeable	80V,300mA	-	-	
Heater resisters (22EA, R4 to R25)	Interchangeable	Interchangeable	5.6 ohm, 0.25 W each	-	-	
Stepping Motor(IRIS motor)	DongGuan YuTong Optical Technology Co ., Ltd	IRIS0204	Operation 2.6Vdc-3.8 Vdc, pulse rate50-160 pps	-	-	
Solid state drive	TRANSCEND INFORMATION INC	TS2TMTS952T2	3.3Vdc/1.5A	AZOT2	UL (E356634)	
Solid state drive	Interchangeable	Interchangeable	3.3Vdc/1.5A	AZOT2	UL	
Gasket - Between Dome and Top enclosure	Namyang Vina	O-VMQ-60-BK	Gasket Test was conducted under E158873-A6034	-	-	
Gasket- Between Top Cover and Enclosure Bottom - Between Enclosure and SSD Cover	Namyang Vina	O-VMQ-40-BK	Gasket Test was conducted under E158873-A6034	-	-	
Gasket - Inside the Cover Bottom	Namyang Vina	C-VMQ-60-GR	Gasket Test was conducted under E158873-A6034	-	-	
Thermal Pad	KOMOTECH CO LTD	KGP-1(a)	Min. 0.2 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL (E245303)	
Internal Wire	Interchangeable	Interchangeable	Marked VW-1; Min. 60 V, 105 deg. C	AVLV2	UL	
Main to Sensor Cable	Interchangeable	Interchangeable	Marked VW-1; Min. 30 V, 80 deg. C	AVLV2	UL	
Main to IR Cable	Interchangeable	Interchangeable	Marked VW-1; 105 deg. C	AVLV2	UL	
12Vdc Terminal block	DongGuanShi Welink Electronic Technology co.,Ltd	F73-5-3.81-02P	Rated 300 V Continuous current: 12 A	XCFR2	UL (E307275)	

CVBS Cable	Interchangeable	Interchangeable	VW-1, Rated 300 Vdc, 80 deg. C	AVLV2	UL	
PWB	EXPRESS ELECTRONICS LTD	14MV0	Min. V-0, 130 deg. c	ZPMV2	UL (E157925)	
PWB - Alternate	Interchangeable	Interchangeable	Min. V-0, 130 deg. C.	ZPMV2	UL	
Outdoor Label	AVERY DENNISON	S8049-BG42WH BSS	Max Temp 100 deg. C, Min Temp -50 deg. C	PGJI2	UL	
Outdoor Label	Interchangeable	Interchangeable	Max Temp 100 deg. C, Min Temp -50 deg. C	PGJI2	UL	
IR LED (4EA, LD2, LD3, LD7, LD8)	OSRAM	SFH4713A	Vf=2.3Vdc(max)	-	-	
IR LED (2 EA, LD1, LD4)	OSRAM	SFH4718A	Vf=2.3Vdc(max)	-	-	
IR LED (2 EA, LD5 to LD6)	LITE-ON TECHNOLOGY CORP	LTE-R38386L-YE5-SS	Vf=2.5Vdc(max)	-	-	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	Over view -top
Photographs	03-02	Over view - bottom
Photographs	03-03	Camera-case, Dome-cover open
Photographs	03-04	Separate camera-case
Photographs	03-05	Camera-case bottom with Mount-plate
Photographs	03-06	Camera-case bottom(open SSD cover)
Photographs	03-07	Cmera-module
Photographs	03-08	Camera-module cover open
Photographs	03-09	LED board top
Photographs	03-10	LED board bottom
Photographs	03-11	Lens motor
Photographs	03-12	Lens motor PWB top
Photographs	03-13	Lens motor PWB bottom
Photographs	03-14	PCB view of Network board top
Photographs	03-15	PCB view of Network board bottom
Photographs	03-16	Sensor board top
Photographs	03-17	Sensor board bottom
Photographs	03-18	SSD 1
Photographs	03-19	SSD 2
Photographs	03-20	SSD module view
Diagrams	04-01	APPERANCE_PNV-A6081R-E
Miscellaneous	07-02	Label_PNV-A6081R-E2T
Miscellaneous	07-03	Line Filter Specification
Miscellaneous	07-04	Transformar Specification
Miscellaneous	07-05	Label-Risk Group1

The following Page(s) are related to Diagrams-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.



3		
2	PNV-A6081R-E2T	22.12.27
1	PNV-A6081R-E1T	22.12.27
No.	MODEL NAME	DATE
Unit:mm[inch]	SCALE:1/1	© Hanwha Techwin



NETWORK CAMERA, PNV-A6081R-E2T

DC 12V $\bar{\cdot}$ 1.46A/

PoE (53V $\bar{\cdot}$) 0.36A

M/C: PNV-A6081R-E2T/KEX Fac.ID:D



2023.01 S/N: Serial No.

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

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

HANWHA TECHWIN CO.,LTD.

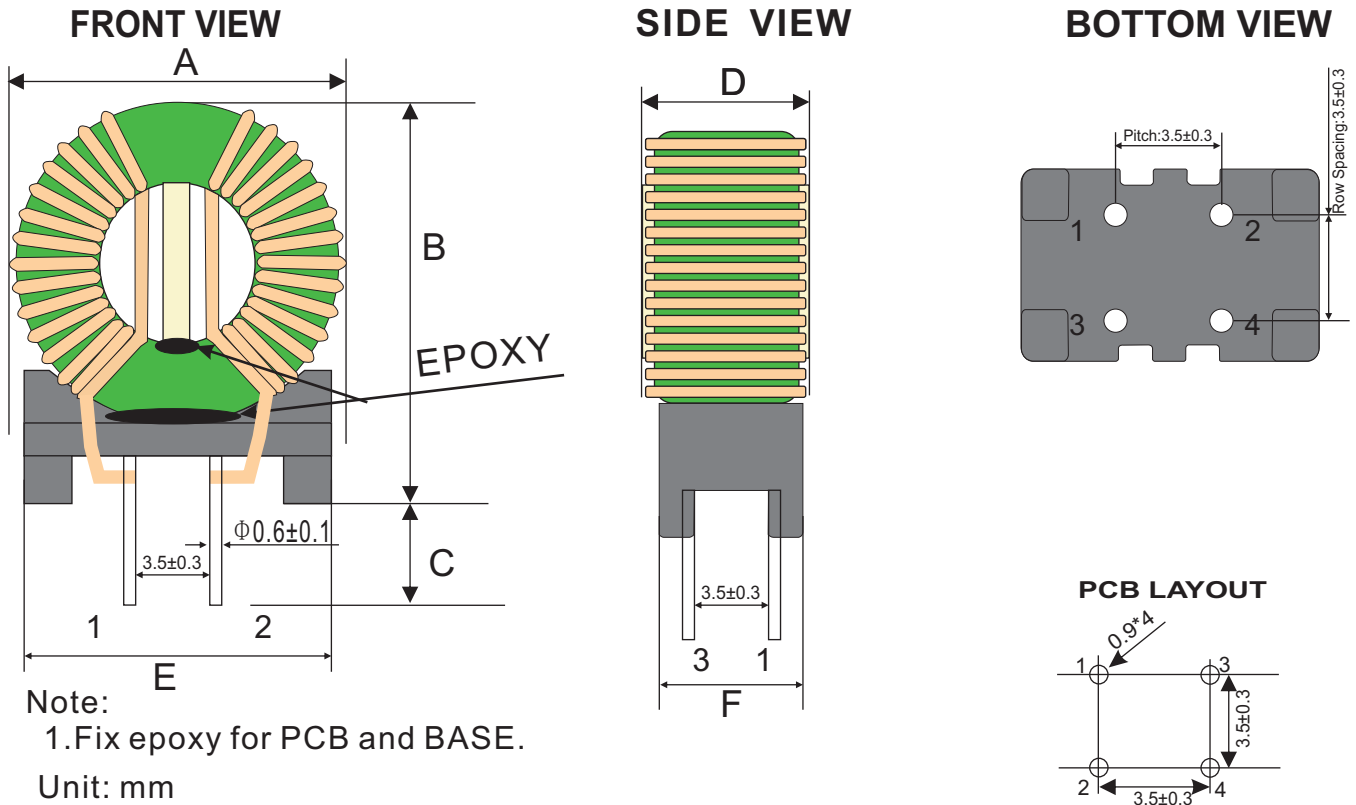
MADE IN KOREA



Rainproof/ Etanche
IP66 and IP67

The following Page(s) are related to Miscellaneous-03. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

2. Mechanical Dimensions:



A	B	C	D	E	F
+/-1.0	+/-0.5	+/-0.5	+/-1.0	+/-0.5	+/-0.5
12.0	14.3	3.5	7.0	9.0	5.8

3. Electrical Characteristics :

Specifications: at 25°C. Operating Temperature -40 to +125°C

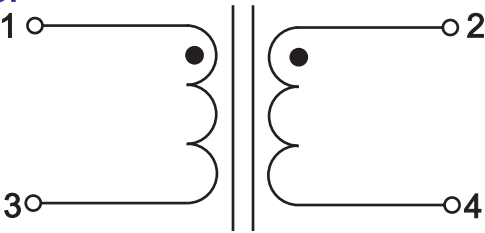
NO.	ITEM	TEST CONDITION	SPECIFICATION	REMARKS
1	Rated Voltage	Line to Line	AC250V	
2	Inductance	(1-3)(2-4) @16KHz, 1.0V	6.0mH+50% -30%	TH-2819
3	DCR	(1-3)(2-4) @25°C	220.0mΩ Max.	TH-2819
4	HI-POT	(1-3) to (2-4)	1500Vac, 1mA, 2SEC.	RK2670A
5	Rated current	@70°C	1.0A .	
6	ΔL	L(1-3)-L(2-4) @16KHz, 1.0V	0.10mH Max.	TH-2819

Remark: Use manual trigger mode of instrument for test.

4. Winding Information:

WINDING SEQ.	ST-FN	WIRE/FOIL	TURNS	WRAP INSUL.	MARGIN TAPE	SLEEVE	NOTE
1	1---3	0.35mm 2UEW	35±3.0T.				
2	2---4	0.35mm 2UEW	35±3.0T.				

5.Schematic:



6.Material List

NO.	ITEM.	MATERIALS	SUPPLIERS/MANUFAXTURES	UL FILE NO.
1	CORE	T10*6*5 TTS-TH10	TTS TechnologyCo.,Ltd.	N/A
		T10*6*5 SSH-10	SUNSHINE ELECTRONIC TECHNOLOGY Co.,Ltd.	N/A
2	WIRE	xUEW 180	SUNTEK HOLDINGS LIMITED	OBMW2.E234867
		Polysol 180 / MW 82-C THERMAL RATING:180°C	ELEKTRISOLA HANG ZHOU CO.,LTD.	E258243
3	SOLDER	SN/CU: 99.3/0.7	Gao Xin stannum industry Co.,Ltd	N/A
4	Glue	E-500(XX)	Dong Guan city eatto electronic material Co.,Ltd	QMFZ2.E218090
5	BASE	PHENOLIC T375J	CHANG CHUN PLASTICS CO LTD.	QMFZ2.E59481

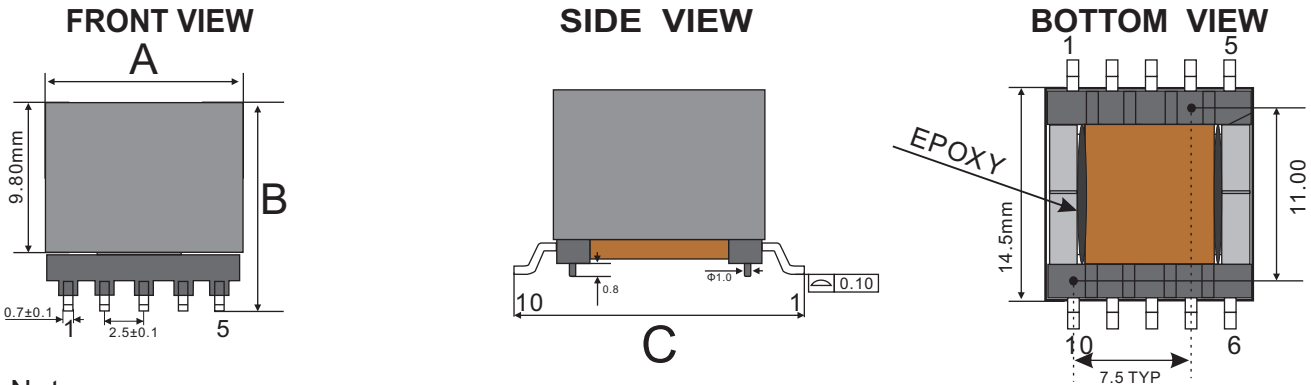
7.Packing Information:

DESCRIPTION	QTY
PIECES PER CELL	1
PIECES PER TRAY	560
PIECES PER BOX	3360
GROSS WEIGHT PER BOX(KG)	10.14(kg)
NET WEIGHT PER BOX(KG)	9.50(kg)



The following Page(s) are related to Miscellaneous-04. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

2. Mechanical Dimensions:

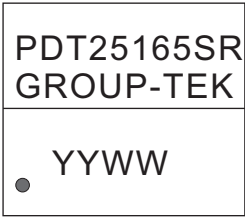


- Note:
- 1.Wrap 2Ts of 7mm kapton tape around the finished part.
 - 2.Fixed the cores with glue,and fixed the case with glue.

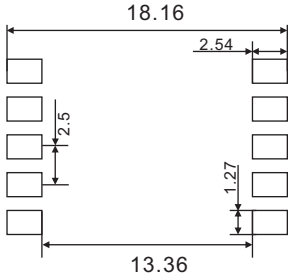
Unit: mm

A MAX	B MAX	C MAX
15.2	14.0	17.8

Marking information



Suggested PCB Paad Layout



3. Electrical Characteristics :

Specifications: at 25°C.		Operating Temperature -40 to +105°C*	
NO.	ITEM	TEST CONDITION	SPECIFICATION
1	Inductance	(1-3) @100KHz, 1.0V	21.0uH ±10%.
2	Leakage Inductance	(1-3) @100KHz, 1.0V with shorted other pins.	0.30uH Max.
3	DCR	(1-3) @ 25°C	35.0mΩ Max.
4		(9-6) @ 25°C	58.0mΩ Max..
5		(10-7) @ 25°C	58.0mΩ Max.
6		(4-5) @ 25°C	180.0mΩ Max.
7	HI-POT	PRI TO SEC	2250Vac 5mA 3Sec.
8	TURN RATIO	(1-3):(9-6):(10-7)	1.0:0.67:0.67±2%.
9	TURN RATIO	(1-3):(4-5)	1.0:0.75±2%.
10	INSULATION RESISTANCE	PRI--SEC DC500V	100MΩ Min.
11		PRI--CORE DC500V	100MΩ Min.
12		SEC--CORE DC500V	100MΩ Min.

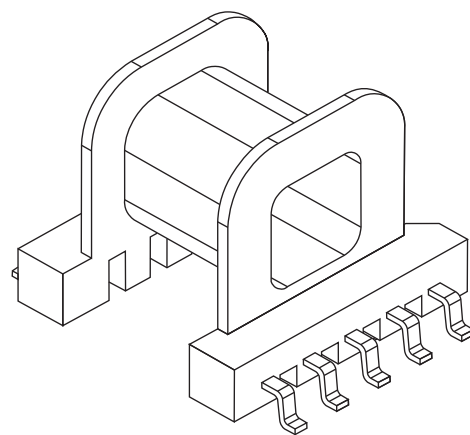
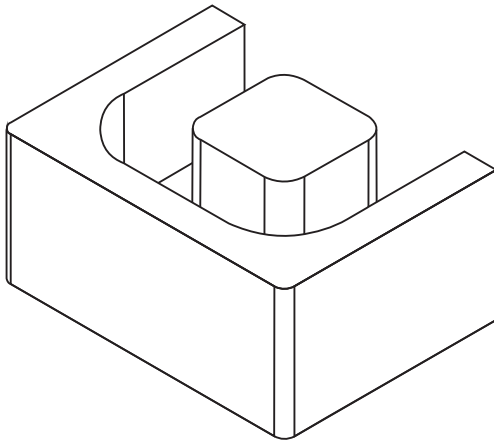
*Remark:Product surface temperature:-40 to +125°C,at 25°C.

5.Winding Information:

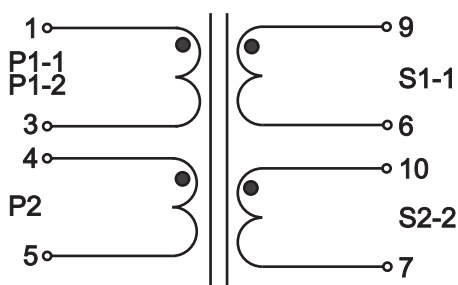
WINDING SEQ.	ST-FN	WIRE/FOIL	TURNS	WRAP INSUL.	MARGIN TAPE	SLEEVE	NOTE
P1-1	1--3	2*0.25mm 2UEW	12	1T w8.0mm (kapton tape)	N/A	N/A	1
S1-1	9--6	2*0.35mm 2UEW R	8	1T w8.0mm (kapton tape)	N/A	N/A	1
P1-2	1--3	2*0.25mm 2UEW N	12	1T w8.0mm (kapton tape)	N/A	N/A	1
S1-2	10--7	2*0.35mm 2UEW	8	1T w8.0mm (kapton tape)	N/A	N/A	1
P2	4--5	0.25mm 2UEW	9	1T w8.0mm (kapton tape)	N/A	N/A	1

NOTE :

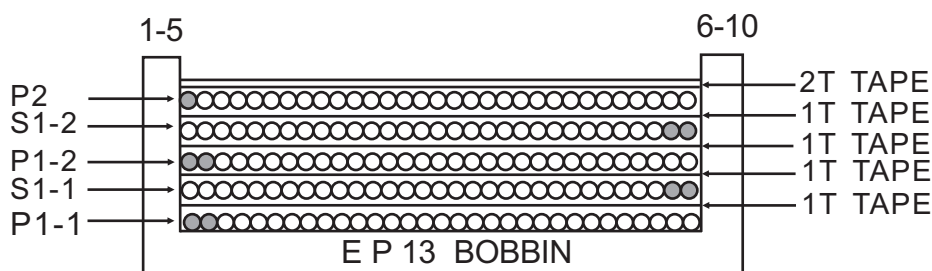
1. - Place the bobbin pin 1 left side of operator.



6.Schematic:



7.Winding construction



● :Start terminal

8.Material List:

NO.	ITEM.	MATERIALS	SUPPLIERS/MANUFACTURES	UL FILE NO.
1	BOBBIN	PHENOLIC T375J UL RATING: 94V-0	CHANG CHUN PLASTIC CO LTD.	QMFZ2.E59481
2	CORE	TP2A	TTS Technology Co.,Ltd.	N/A
3	WIRE	xUEW 180	SUNTEK HOLDINGS Co.,Ltd.	OBMW2.E234867
4	TAPE	ADHESIVE POLYESTER TAPE TAPE NO.:CT*(c)(g) THERMAL RATING:130°C yellow tape: for inner coils	Jiang Jiang yahua pressure sensitive glue Co., Ltd	E165111
5	SOLDER	SN/CU: 99.3/0.7	Gao Xin stannum industry Co., Ltd	N/A
6	Glue	E-500(xx)	Dong Guan city eatto electronic material Co.,Ltd	QMFZ2.E218090
7	CASE	PHENOLIC T375J UL RATING: 94V-0	CHANG CHUN PLASTIC CO LTD.	QMFZ2.E59481

9.PACKING INFORMATION:

DESCRIPTION	QTY
PIECES PER REEL	150
PIECES PER POCKET	1
PIECES PER BOX	450
REEL PER BOX	3
GROSS WEIGHT PER BOX(KG)	TBD
NET WEIGHT PER BOX(KG)	TBD

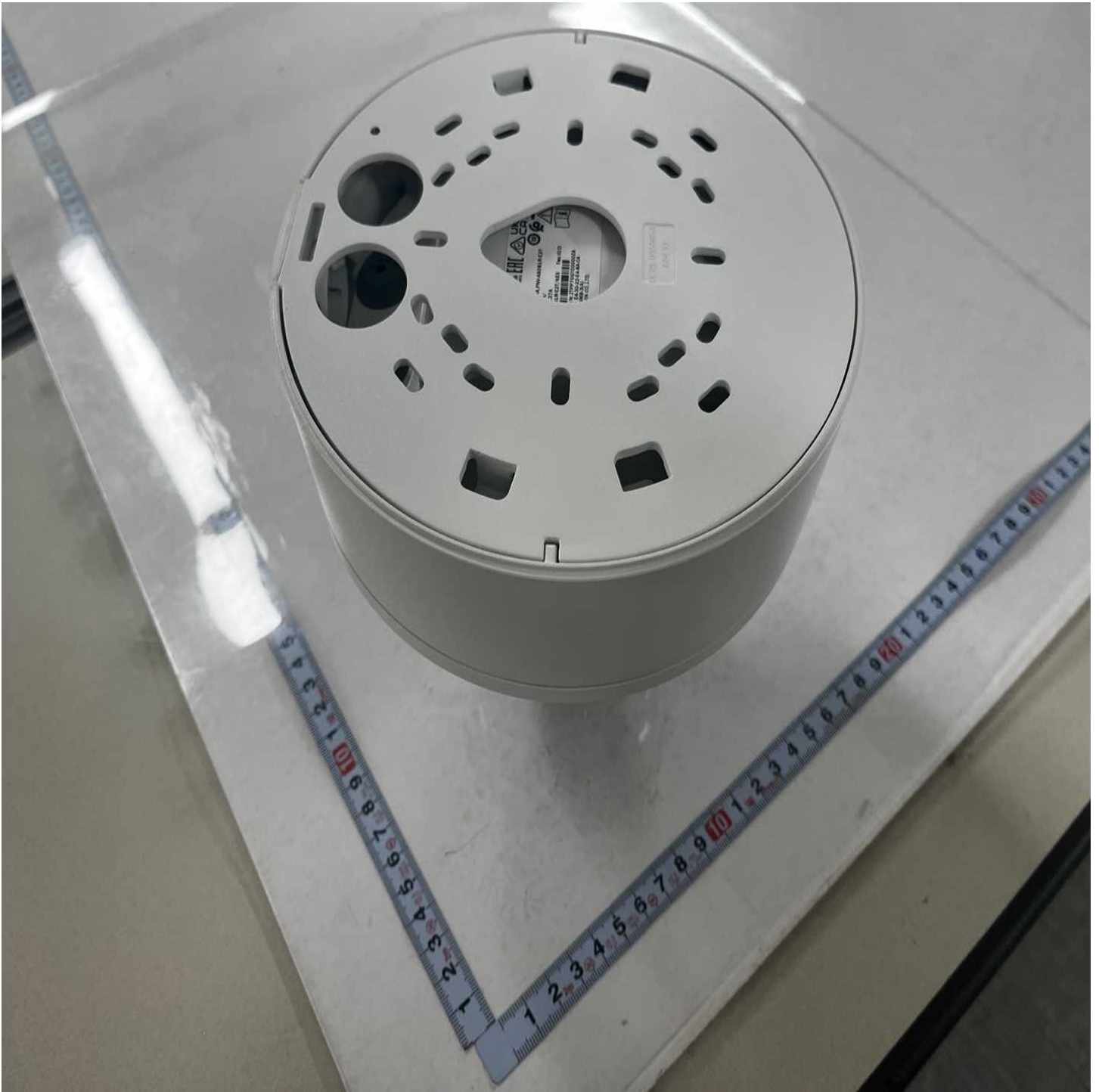
Risk Group 1

WARNING

IR emitted from this product.
Do not stare at operating lamp.

Product tested against IEC62471

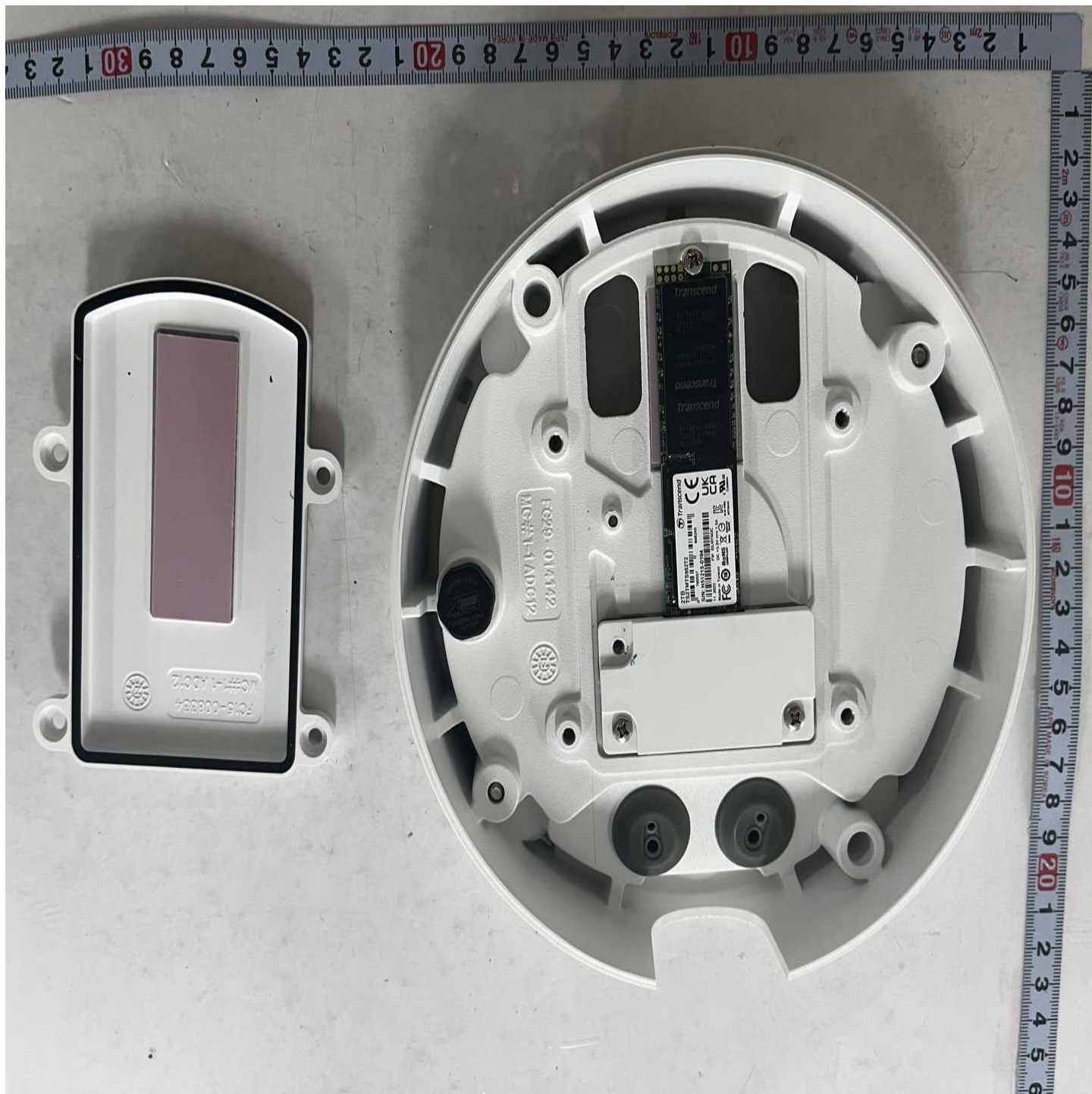




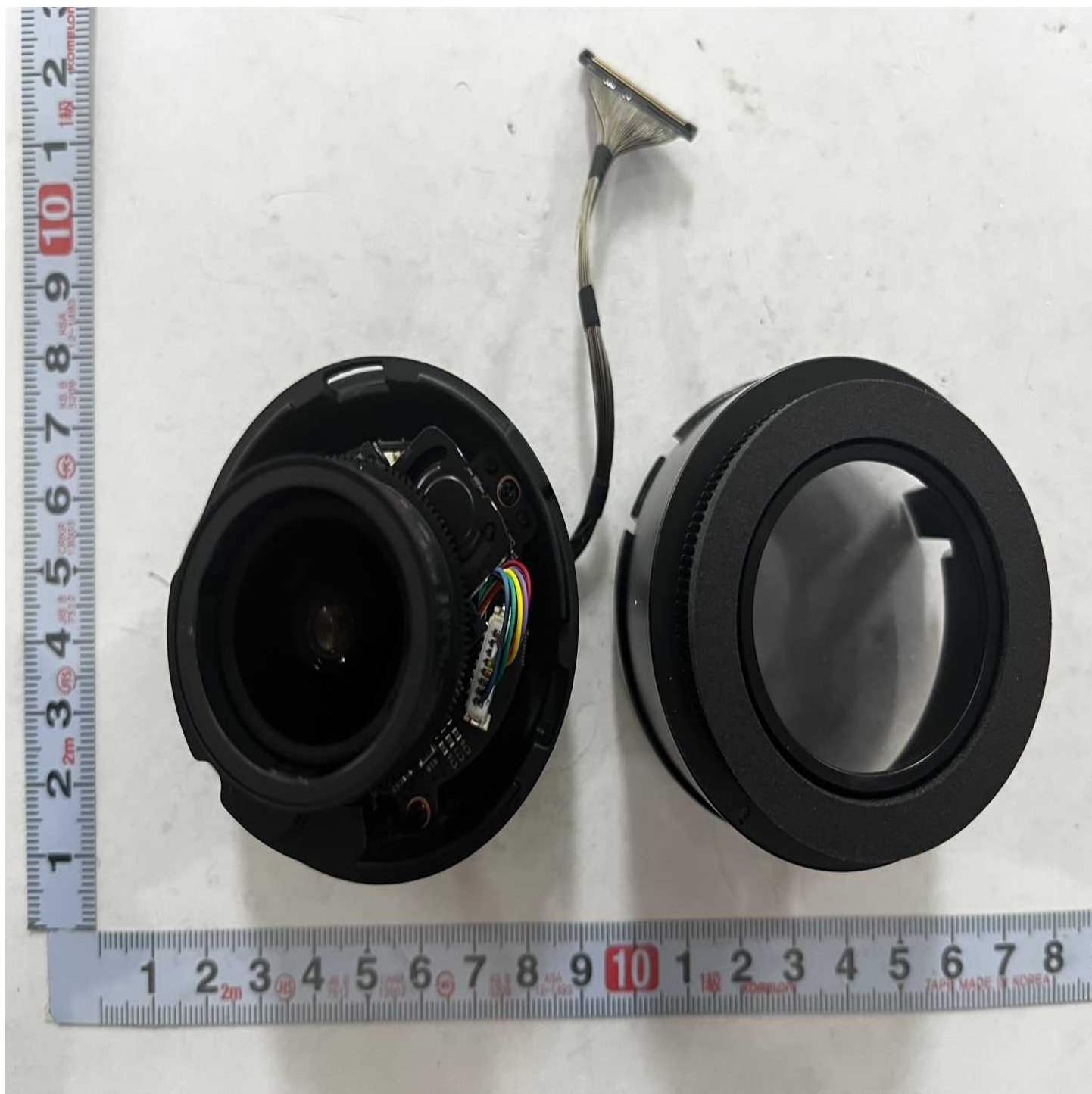






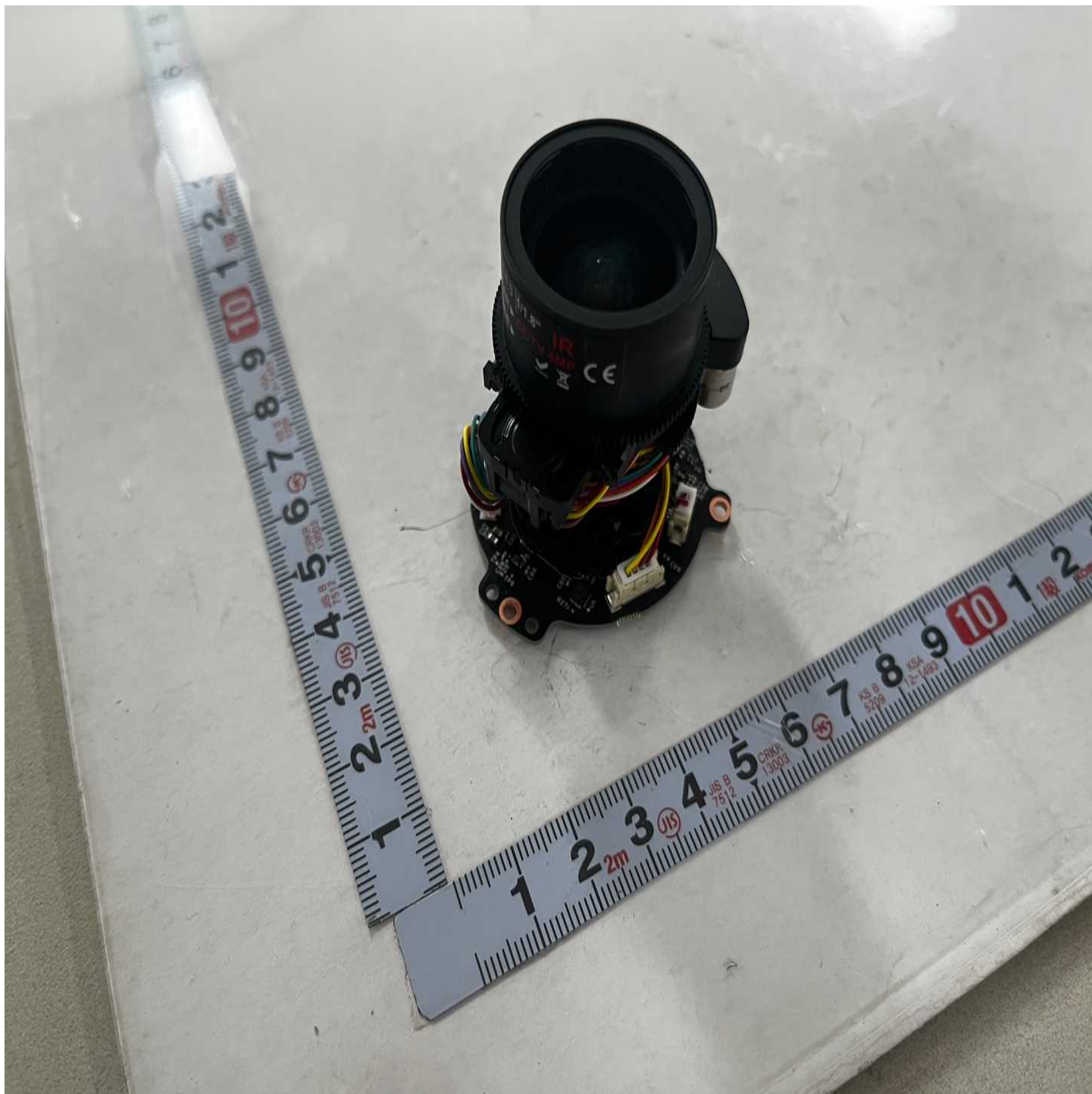




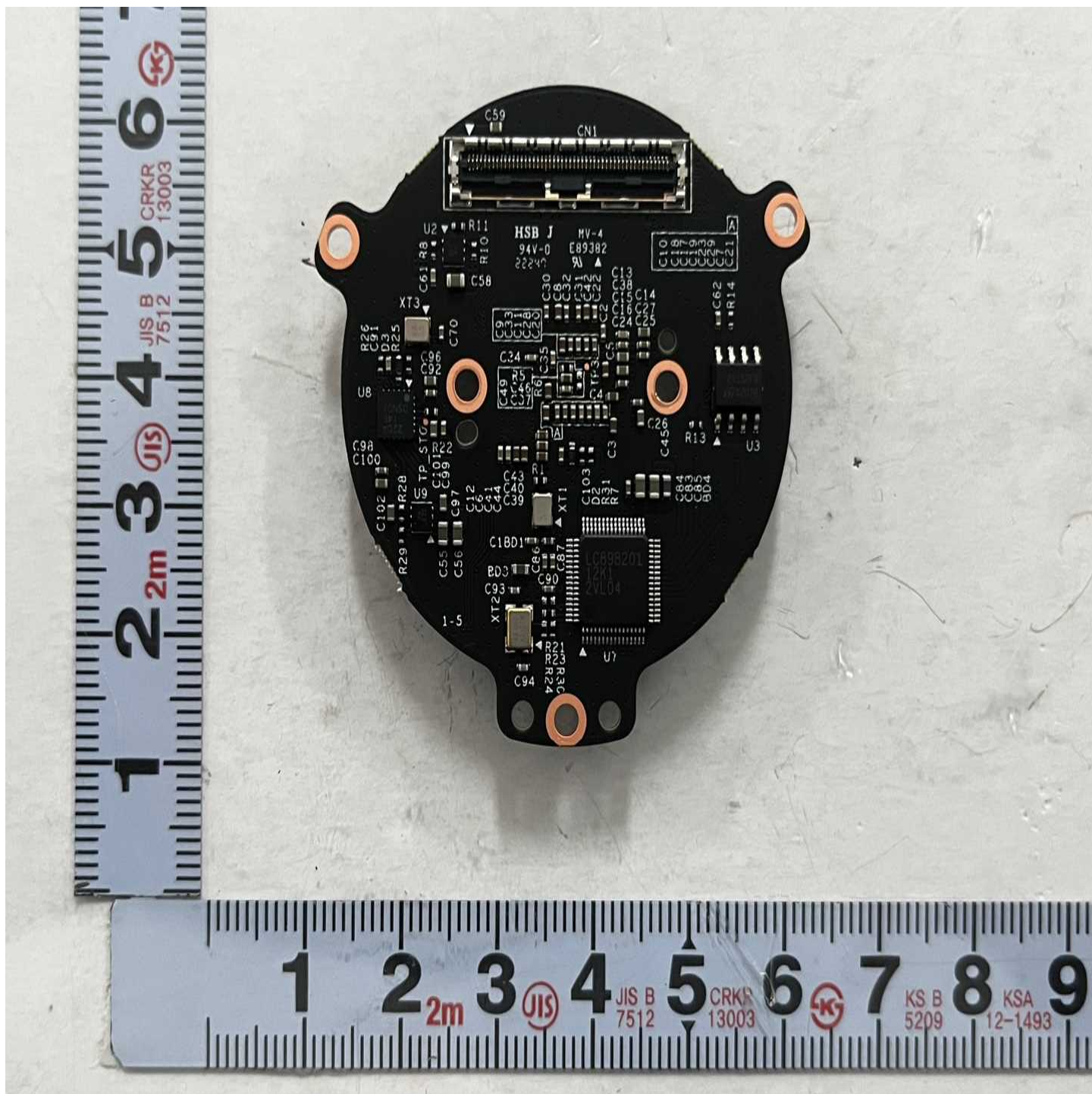


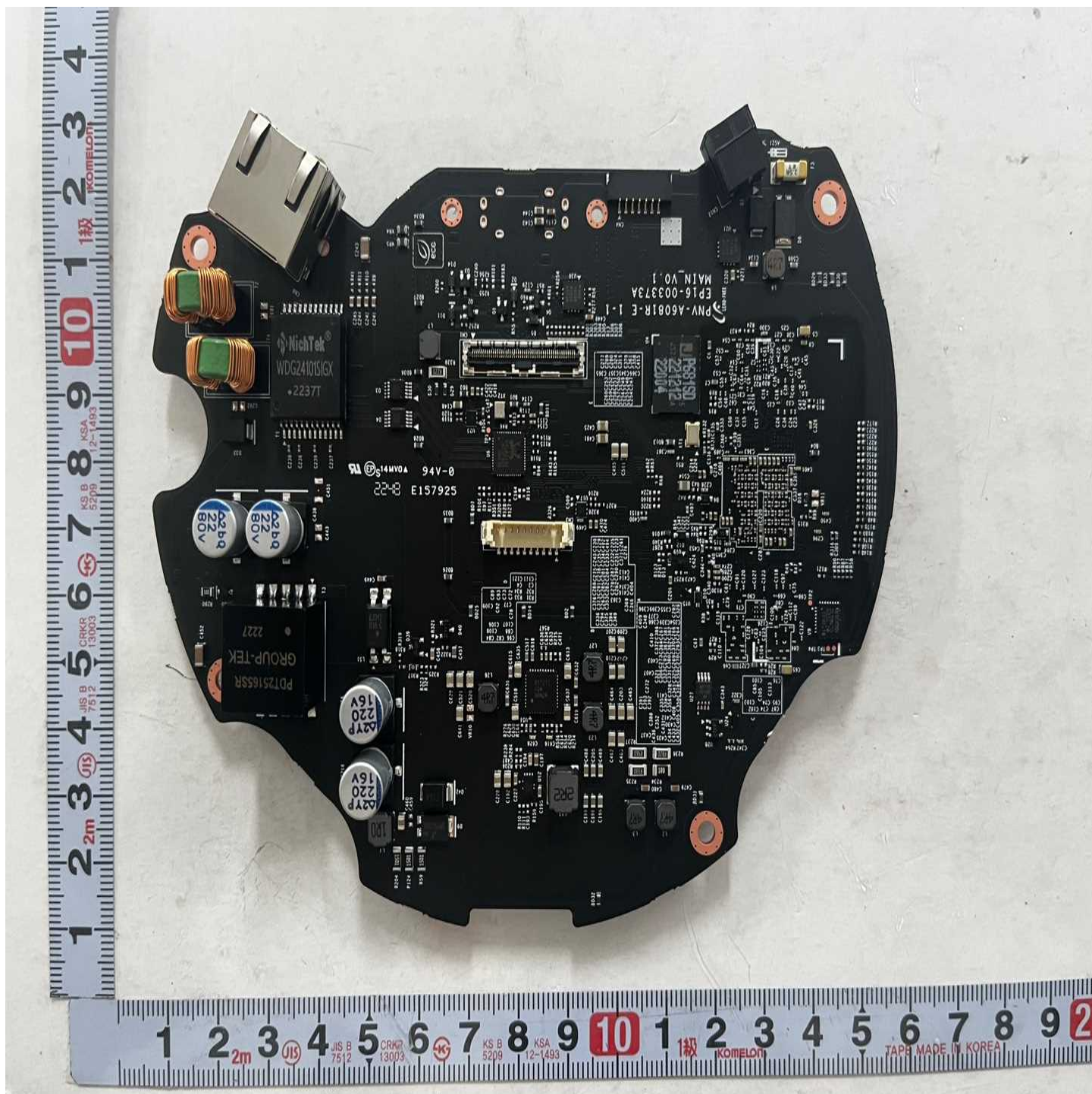


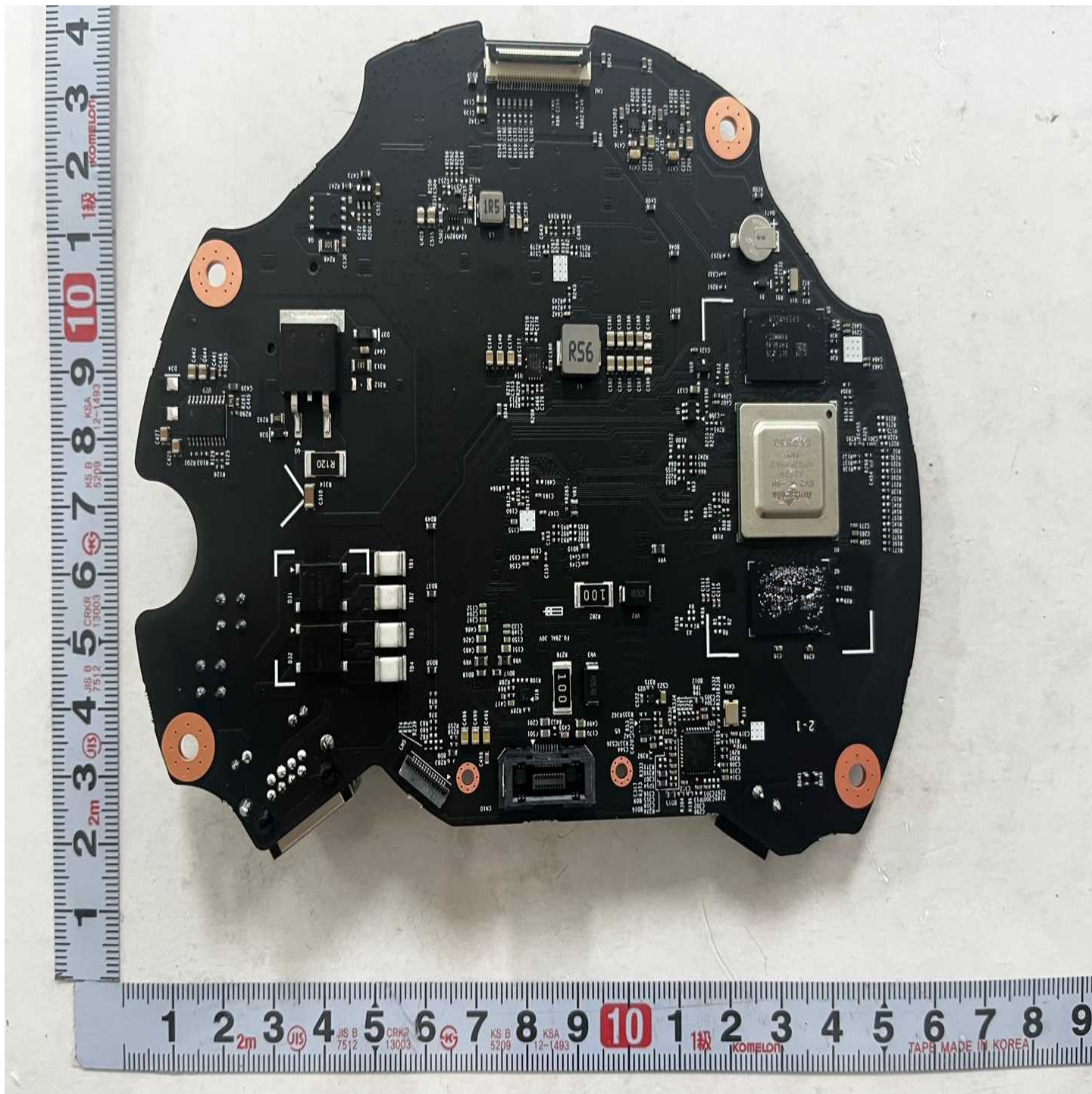


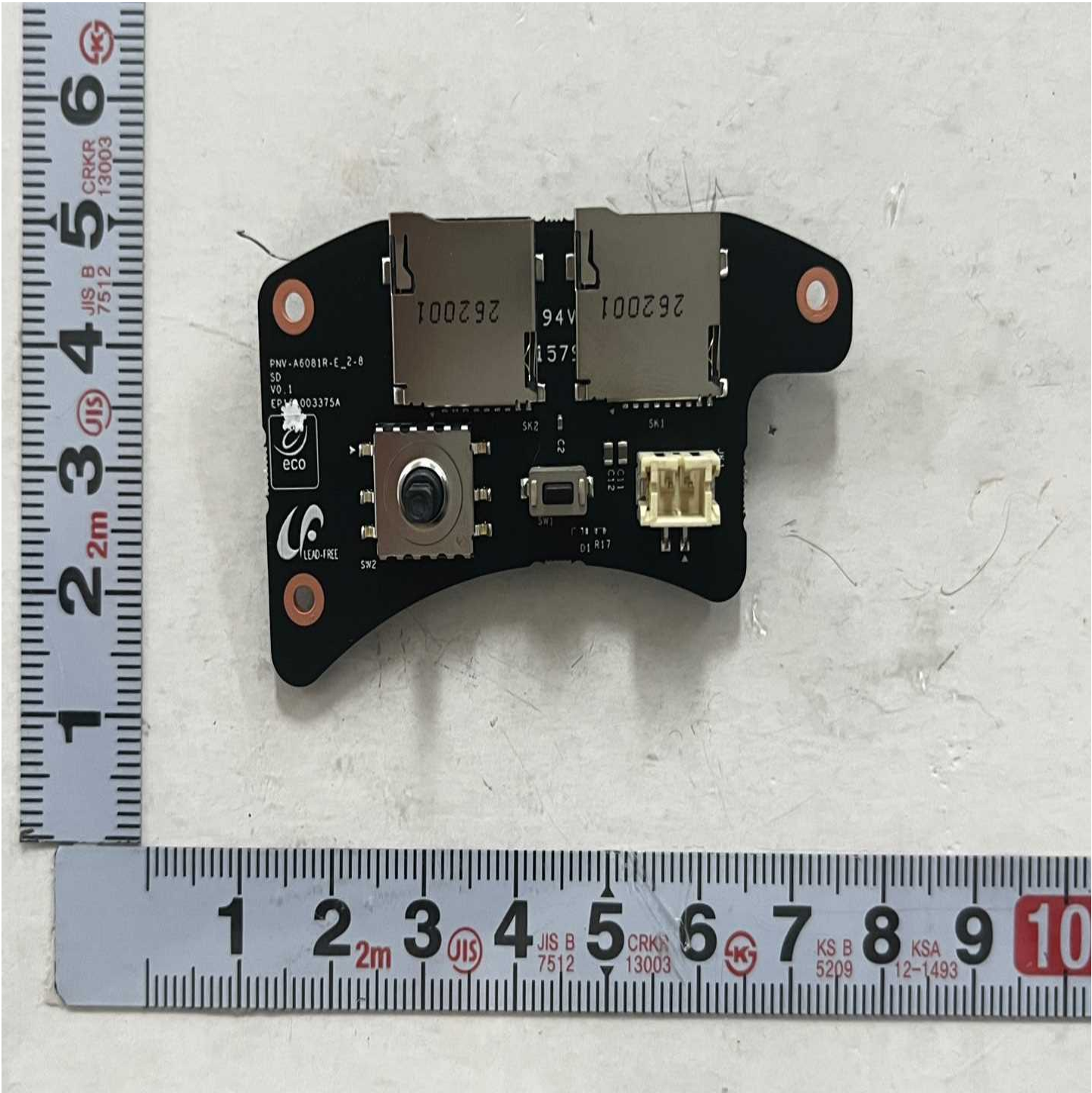


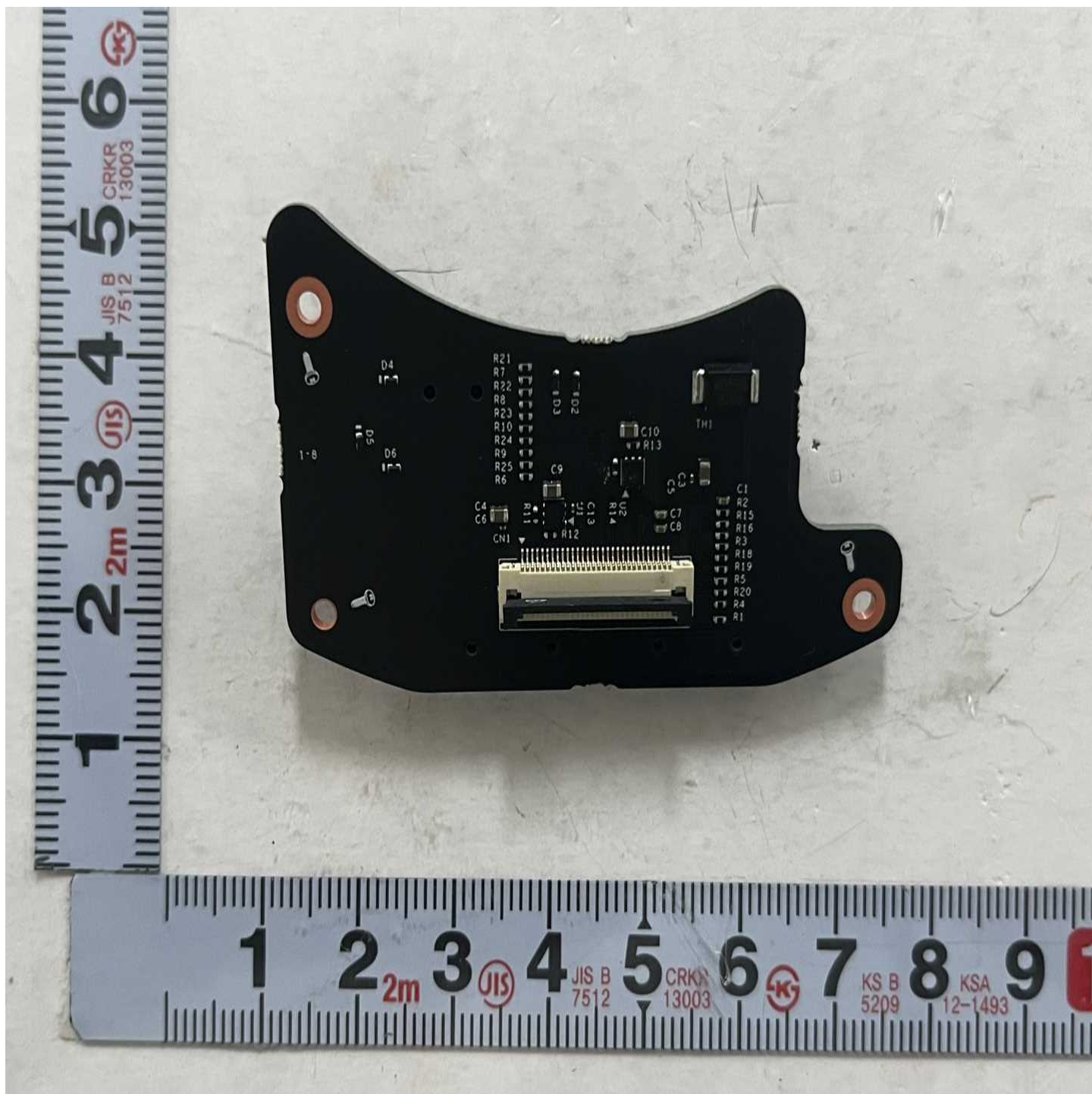


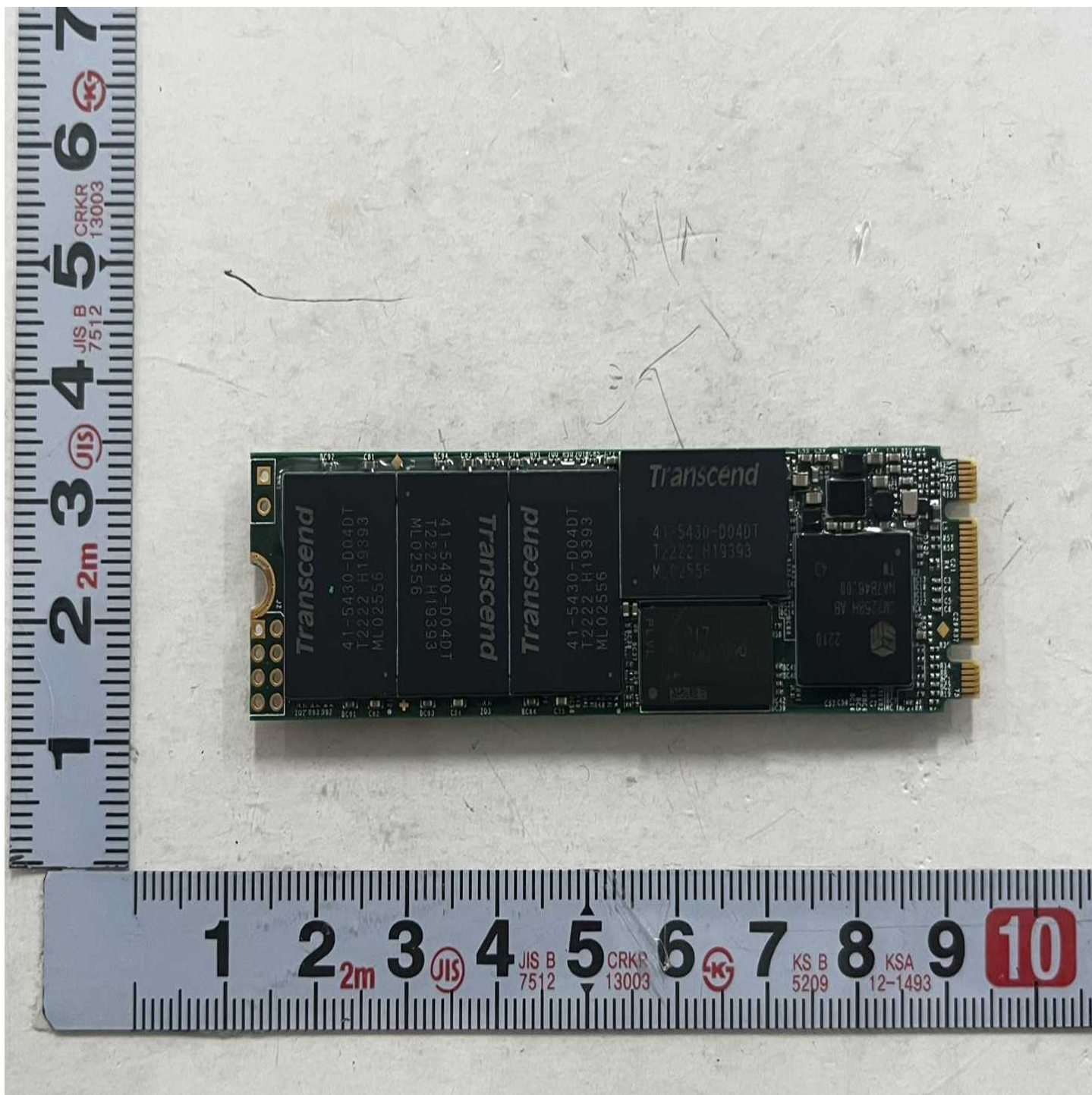


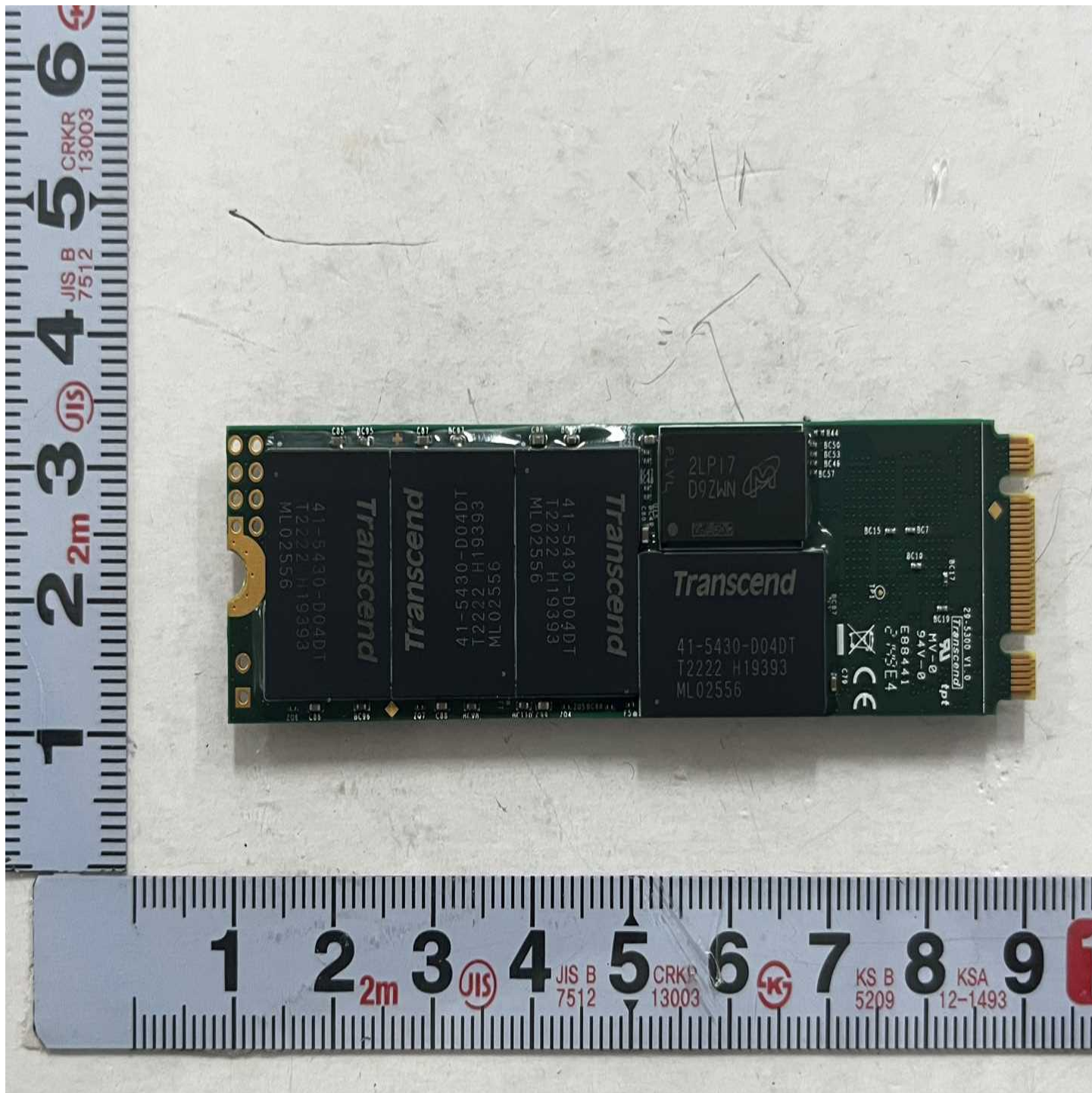


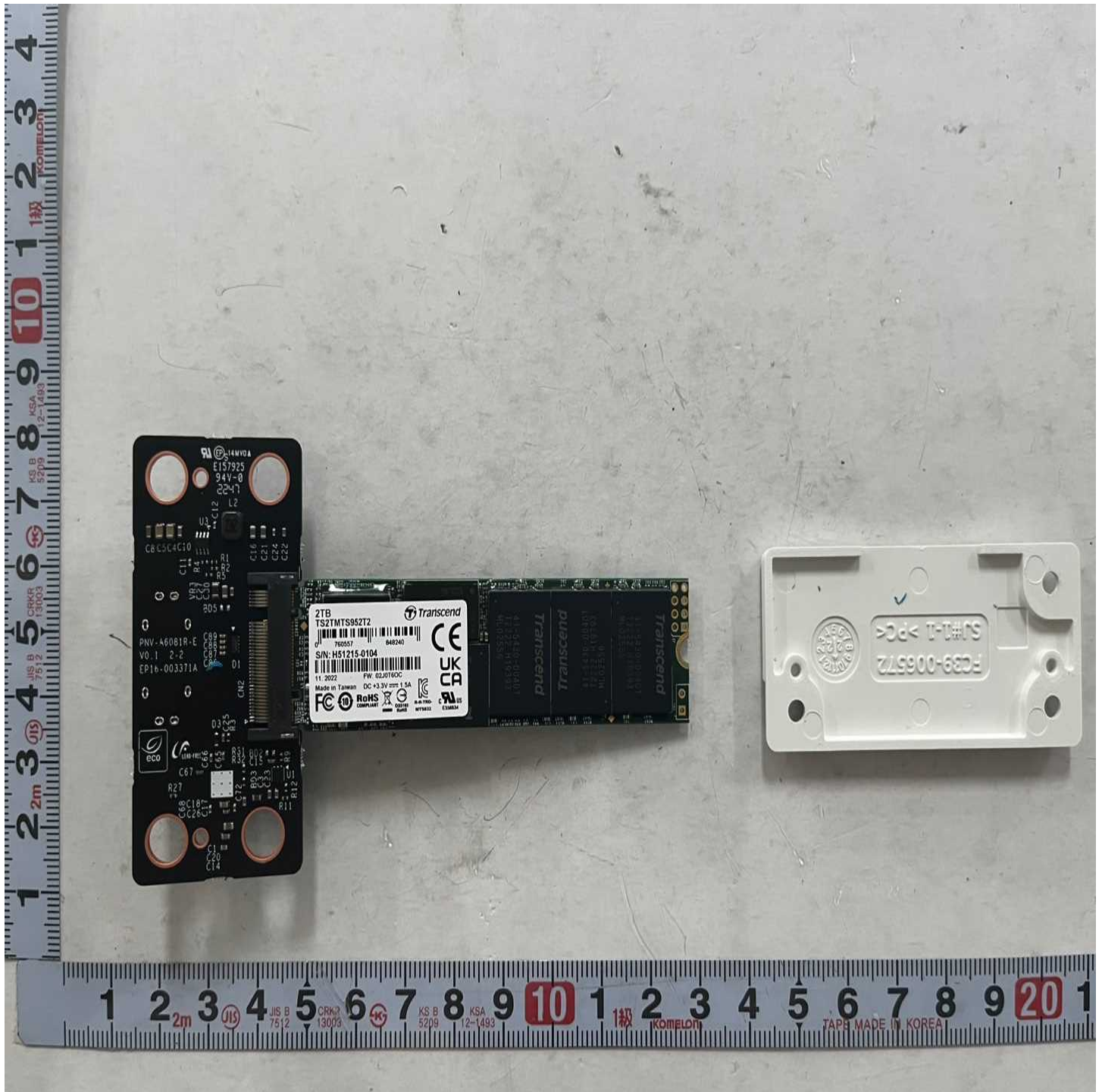












Test Record No. 1

1. Test result relate only to the items tested.
2. The manufacturer submitted representative production sample of NETWORK CAMERA, PNV-A6081R-E2T
3. Only the test listed were considered necessary.

The following tests were conducted:

Tests performed (name of test and test clause):	Testing location:
4.4.3.2, T.5 – STEADY FORCE TEST, 250 N	
4.4.3.4, T.6 - IMPACT TEST	
4.4.3.8, T.8 – STRESS RELIEF TEST	
5.4.1.8 – DETERMINATION OF WORKING VOLTAGE	
8.7 – WALL, CEILING, OR OTHER STRUCTURE MOUNTING TESTS	
B.2.5 – INPUT TEST: SINGLE PHASE	
B.2.6, 5.4.1.4, 6.3, 9.3, B.1.5 – NORMAL OPERATING CONDITIONS TEMPERATURE MEASUREMENT	
B.3 – SIMULATED ABNORMAL OPERATING CONDITIONS	
B.4 – SIMULATED SINGLE FAULT CONDITIONS	
M.3.2 – PROTECTION CIRCUITS FOR BATTERIES	
Q.1 – LIMITED POWER SOURCE	
Y.5.3 - WATER SPRAY TEST	
Y.6.2 - POLYMERIC OUTDOOR ENCLOSURE IMPACT	
The following tests were waived:	Rationale for Waiving
Y.4.3 – TENSILE STRENGTH AND ELONGATION-Alternate	Gasket Test was conducted under E158873-A6034 (PART 22, 8.5, ANNEX D.2 – TENSILE STRENGTH AND ELONGATION)
Y.4.4 - COMPRESSION TEST - GASKETS, CLOSED CELL CONSTRUCTION	Gasket Test was conducted under E158873-A6034 (PART 22, 8.5.1, ANNEX D.3 – COMPRESSION TEST – GASKETS, CLOSED CELL CONSTRUCTION)

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following supplements are provided as part of this Test Record. NOTE: These supplements are only available to the Applicant via the myUL™ Client Portal.

Type	Supplement Id	Description
Datasheet	02-01	Datasheet
Attachment	02-02	Dual language safety labeling CRD