



Thank you for giving UL the opportunity to partner with you.

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 on Project

For your convenience, the below describes the related updates:

E158873-A6250-DescriptionUL
Figure-10-Total

This material is provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Times change, Trust Remains™

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:	QNF-C9010V
Rating:	PoE (48 Vdc), 0.14 A
Applicant Name and Address:	HANWHA VISION 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: Lawrence Lee / Project Handler Reviewed By: SeulKi Park / 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 is designed for outdoor or indoor use, wall or ceiling use with mounting brackets.

It is a commercial equipment supplied from UL listed PoE (Power over Ethernet) input and installed by service personnel.

Model Differences

N/A

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	mating connector
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 Tma (°C)	55 Outdoor: minimum -40
IP protection class	IP 66
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)	0.57

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 following are available from the Applicant upon request : Installation (Safety) Instructions / Manual
- The outdoor equipment/enclosure was evaluated for use in an ambient range of : -40 °C to 55 °C

Additional Information

4791673204

- Maximum Normal Load: Continuous operation (Operate the camera through networked equipment)

Additional Standards

The product fulfills the requirements of: N/A

Markings and Instructions

Clause Title	Marking or Instruction Details
Equipment identification marking – Manufacturer identification	Listee's or Recognized Company's name, Trade Name, File Number
Equipment identification marking – model identification	Model Number
Equipment rating marking – ratings	Input Ratings (voltage, current)
Outdoor enclosure type	"Rainproof", IP66
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 UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated from PoE (48 Vdc), 0.14 A.
(Website) Manual - 2	The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3.af shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL 60950-1 or PS2 as defined in UL 62368-1.

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 model					
BD1.3	Electric Strength Test Exemptions – This test is not required for the following models:					
	All model					
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 model					

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

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
Enclosure-Lens cover (Plastic)	MITSUBISHI ENGINEERING- PLASTICS CORP	S-2000V+ (f1)	Min. 2.0 mm thickness, rated Min. V-2, 125 deg. C, see enclosure for dimension.	QMFZ2	UL (E41179)	
Enclosure-Top (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 3.0 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Enclosure-Bottom (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 2.0 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Mounting Bracket (Metal)	Interchangeable	Interchangeable	Stainless , Min. 1.2 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Internal Plastic Part Materials	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min. 1.7 mm thickness, rated Min. V-0, 130 deg. C.	QMFZ2	UL (E115797)	
Internal Plastic Part Materials - Alternate	Interchangeable	Interchangeable	Min. 1.5 mm thickness, rated Min. HB	QMFZ2	UL	
Internal metal	Interchangeable	Interchangeable	Aluminum, Min. 3.0 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Opto-coupler (LS1)	LITE-ON TECHNOLOGY CORP	LTV-217 (Type: LTV-217-G)	Isolation Voltage: 3750. Max. Operation Temperature: 110 deg. C	FPQU2	UL (E113898)	
Transformer(T1)	SHENZHEN GROUP-TEK ELECTRONICS	PDT2431SR	130 deg. C, See enclosure for more detail. 155 uH	-	Tested in equipment	

	TECHNOLOGY CO., LTD					
Lens module	Sunny Optics (zhongshan)Co.Ltd. R&D Department	C7412A-25H	3.0-6.0 V	-	Tested in equipment	
Rechargeable battery (BAT1)	SEIKO INSTRUMENTS INC MICRO-ENERGY DIV	ML414H	Lithium, Rechargeable, Max Charging voltage: 3.1 Vdc, Max Charging current: 300 mA	BBCV2	UL (MH15628)	
Lithium Battery Protection Circuit (BAT1)	Interchangeable	Interchangeable	Diode (D1, 80 V, 300 mA) and Resistor (R55, 3.3 Kohm) in series	-	Tested in equipment	
Heatsink	Interchangeable	Interchangeable	Aluminum (Silver) Approx. overall size of $\phi 51.8$ mm, Min. 10.6 mm thickness, See enclosure for more dimension	-	Tested in equipment	
Thermal pad – A type	KOMOTECH CO LTD	KGP-1(a)	Min. 2.0 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL (E245303)	
Thermal pad – B type	KOMOTECH CO LTD	KGP-1(a)	Min. 2.0 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL (E245303)	
Thermal pad – C type	ATEX CO LTD	ATP-20	Min. 3.0 mm thickness, rated V-0, 105 deg. C	QMFZ2	UL (E513170)	
Gasket - Dome	NAMYANG VINA	O-VMQ-50-BK	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
Gasket- Bottom	NAMYANG VINA	O-VMQ-50-BK	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
Gasket - Cable hole	NAMYANG VINA	C-VMQ-40-GR	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
PWB	HANNSTAR BOARD CORP	MV-4	Min. V-0, 130 deg. C	ZPMV2	UL (E89382)	

PWB -Alternate	Interchangeable	Interchangeable	Min. V-0, 130 deg. C	ZPMV2	UL	
Outdoor Label	Interchangeable	Interchangeable	Suitable for use on each type of surface to which applied, rated for maximum and minimum surface temperature specified, or Min. 55 deg. C to Max.-40 deg. C if not specified.	PGDQ2 or PGJI2	UL	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	External View - 1
Photographs	03-02	External View - 2
Photographs	03-04	Lens Module
Photographs	03-05	LED Board
Photographs	03-06	Network Board - Top
Photographs	03-07	Network Board - Bottom
Manuals	06-01	Manual
Miscellaneous	07-01	Transformer (T1) Specification
Miscellaneous	07-02	Enclosure Diagram
Miscellaneous	07-03	Label

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

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean the contaminated area on the product surface with a soft, dry cloth or a damp cloth. (Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
7. Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/ accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lighting storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated from PoE (48Vdc), 0.14A.
16. This product is intended to be supplied by isolation power.
17. If you use excessive force when installing the product, the camera may be damaged and malfunction. If you forcibly install the product using non-compliant tools, the product may be damaged.
18. Do not install the product in a place where chemical substances or oil mist exists or may be generated. As edible oils such as soybean oil may damage or warp the product, do not install the product in the kitchen or near the kitchen table. This may cause damage to the product.
19. When installing the product, be careful not to allow the surface of the product to be stained with chemical substance. Some chemical solvents such as cleaner or adhesives may cause serious damage to the product's surface.



20. If you install/disassemble the product in a manner that has not been recommended, the production functions/ performance may not be guaranteed. Install the product by referring to "Installation & connection" in the user manual.
21. Installing or using the product in water can cause serious damage to the product.
22. The operating temperature of the product is -40°C~-55°C(-40°F~+131°F)

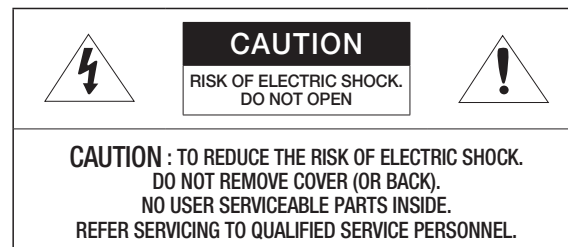
WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

To prevent injury, this apparatus must be securely attached to the Wall/ceiling in accordance with the installation instructions.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Class I construction

An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

Battery

Batteries(battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

The battery cannot be replaced.

Prohibition of battery abuse

- Do not install and use the wrong type of battery.
- Do not leave the battery in a mechanically crush or cut it because it can explode.
- Do not leave the battery in a high temperature environment.
- Do not leave the battery in a low-pressure environment.

Disconnection Device

Disconnect the main plug from the apparatus, if it's defected. And please call a repair man in your location.

When used outside of the U.S., it may be used HAR code with fittings of an approved agency is employed.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION

IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT.
METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.

CAUTION

These servicing instructions are for use by qualified service personnel only.

To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Please use the input power with just one camera and other devices must not be connected.

The Micro USB port on the product is intended for initial setup only and should not be used for any other purpose.

The ITE is to be connected only to PoE networks without routing to the outside plant.

The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3af 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.

Unit is intended for installation in a Network Environment 0 as defined in IEC TR 62102. As such, associated Ethernet wiring shall be limited to inside the building.

Please read the following recommended safety precautions carefully.

- Do not place this apparatus on an uneven surface.
- Do not install on a surface where it is exposed to direct sunlight, near heating equipment or heavy cold area.
- Do not place this apparatus near conductive material.
- Do not attempt to service this apparatus yourself.
- Do not place a glass of water on the product.
- Do not install near any magnetic sources.
- Do not block any ventilation openings.
- Do not place heavy items on the product.
- Please wear protective gloves when installing/removing the camera.
The high temperature of the product surface may cause a burn.

User's Manual is a guidance book for how to use the products.

The meaning of the symbols are shown below.

- Reference : In case of providing information for helping of product's usages
- Notice : If there's any possibility to occur any damages for the goods and human caused by not following the instruction

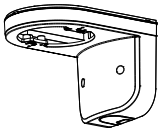
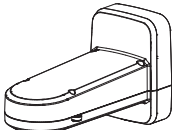
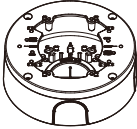
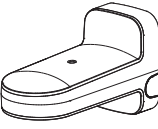
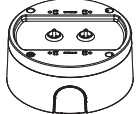
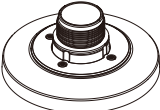
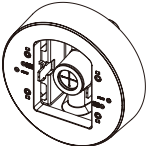
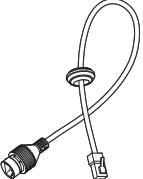
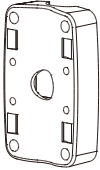
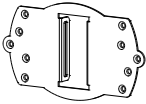
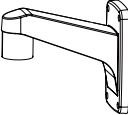
※ Please read this manual for the safety before using of goods and keep it in the safe place.

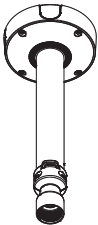
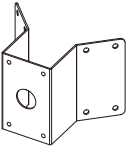
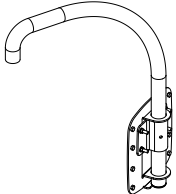
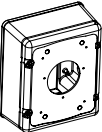
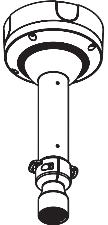
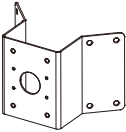
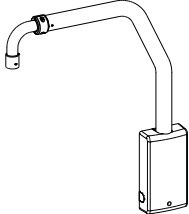
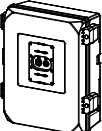
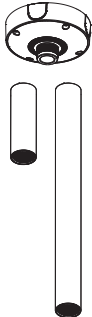
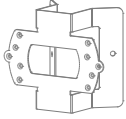
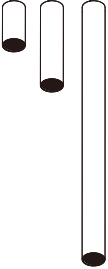
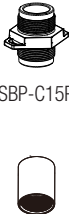
We do not guarantee the quality of third-party products (e.g. lenses, accessories) that you separately purchase.

In particular installation environments, there might be interference in radio communications. When interference of electromagnetic waves occurs between the product and radio communication device, it is recommended to keep a certain distance between the two or change the direction of the receiving antenna.

OPTIONAL ACCESSORIES FOR INSTALLATION

You can purchase appropriate optional accessories available.

Wall Mount and Pole Mount		Hanging Mount	Pole Mount (Direct Assembly)	Back Box and Tilt Mount	Cable
 SBP-125WMW1 (Indoor Wall&Pole Mount)	 SBP-400WMW (Wall&Pole Mount)			 SBV-140BW (Back Box)	
 SBP-250WMW (Wall&Pole Mount)				 SBV-140WW (Waterproof Back Box)	
 SBP-300WMW (Wall Mount) * SBP-300PMW2 required for pole installation		 SBP-120HMMW	 SBD-140PMW	 SBV-140TMW (Tilt Mount)	 SPP-C45W
 SBP-300PMW2 (Pole Mount)			 SBD-140PMB (Light version)		
 SBP-300WMW1 (Wall Mount) * SBP-300PMW2 required for pole installation					

Ceiling Mount			Corner Mount	Parapet Mount	Installation Box
Assembly	Individual Parts	Tile Grid			
 SBP-300CMTW (Telescopic)	 SBP-180CMB		 SBP-300KMW1	 SBP-300LMW	 SBP-300NBW
 SBP-300CMTS (Ball Head)	 SBP-180CMS (Ball Head)		 SBP-156KMW	 SBP-156LMW1 (Telescopic)	 SBP-150NBW
 SBP-300CMW1 SBP-900CMW	 SBP-150CMI SBP-300CMI	 SBP-140CMT	 SBD-140KMB (Light version)		
	 SBP-150CMP SBP-300CMP SBP-900CMP				
	 SBP-C15P SBP-C15H				
	 SBP-140CMB				

INSTALLATION



- The camera jack connected to the external cable is not waterproof. You are recommended to install this product below the edge of eaves to prevent the cable from being externally exposed.

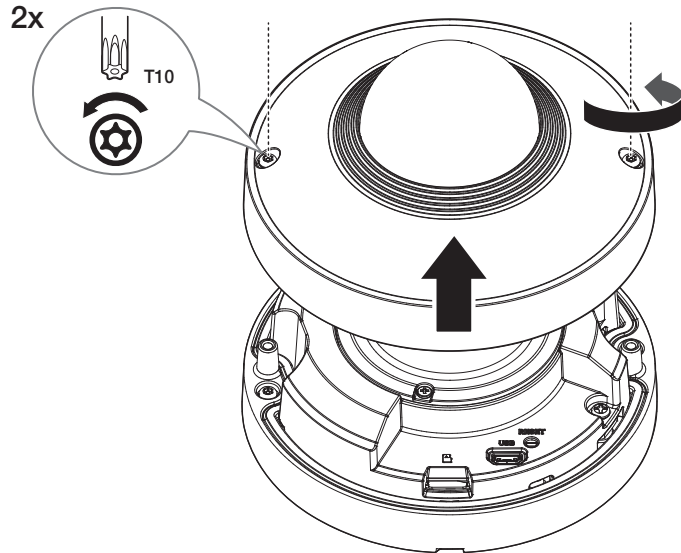
Precautions before installation

Ensure you read out the following instructions before installing the camera:

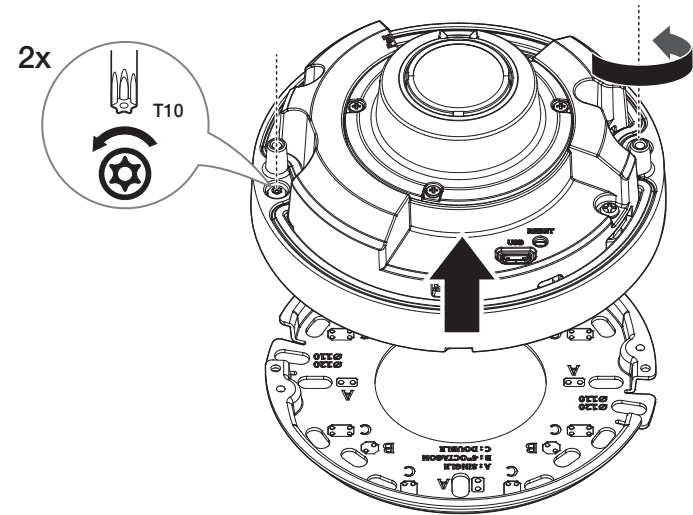
- Select an installation site that can hold at least 5 times the camera's weight.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site. And put aside personal belongings from the site, just in case.
- If the product is installed with excessive force, it may cause damage to the camera due to malfunction. Forcing assembly using non-compliant tools may damage the product.

Removal

1. Using the provided Torx L wrench, turn the 2 screws counterclockwise to release the top cover.
 - It is not required to completely remove screws from the cover.



2. Using the provided Torx L wrench, turn the 2 screws that secure the camera body counterclockwise to release the mount plate.
 - Note that it is not necessary to loosen the screws completely.

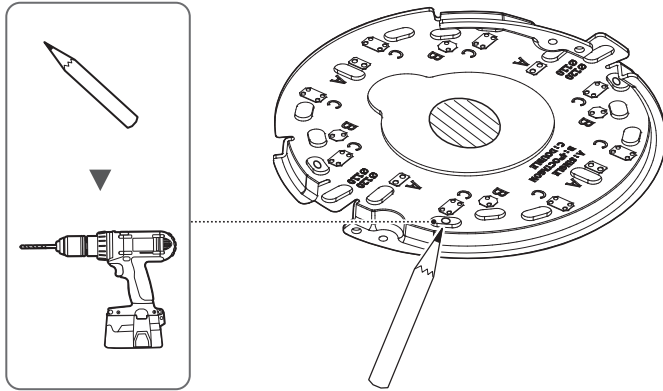


Installation (mount plate)

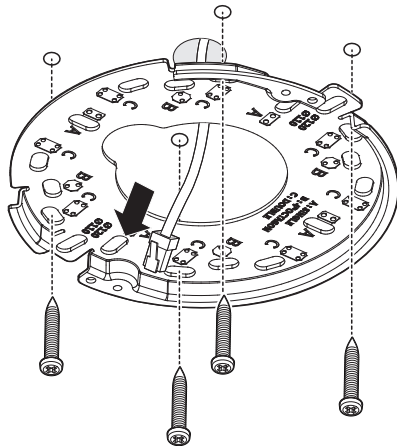
[Directly installing on wall/ceiling]

- After installation is complete, configure the web viewer settings menu <Video setup> → <Camera mounting mode>. Select <Wall> if the camera is installed on a wall, or <Ceiling> if it is installed on the ceiling.

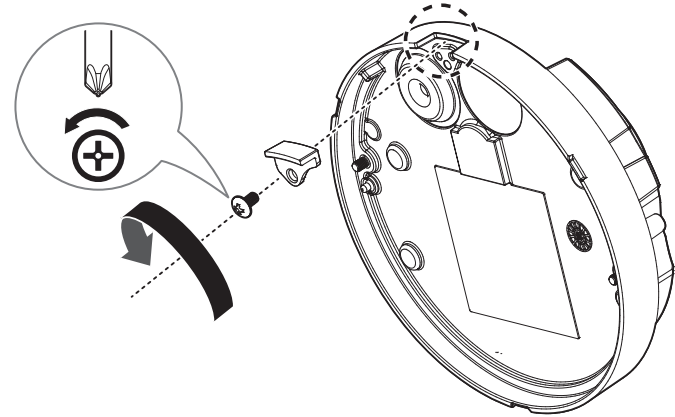
1. Place the mount plate on the desired location considering the direction to be monitored, mark the locations for the screw holes and cable holes, and then drill the holes.



2. Fix the mount plate using appropriate screws.
3. Pull out network cable through the hole in the mount plate.



- When connecting cables from the side, first remove the wiring hole cover of the camera body.

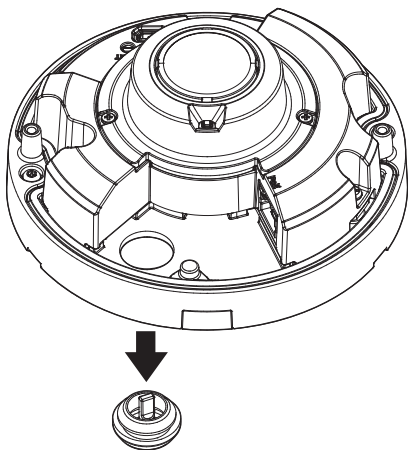


Installation (camera body)

- ! ■ Use a cable bushing compliant with the network cable to be connected.
 - Camera main: use a cable with the diameter of Ø5 to Ø6.5
- You can only use a network cable with a diameter of Ø6.5 or less.

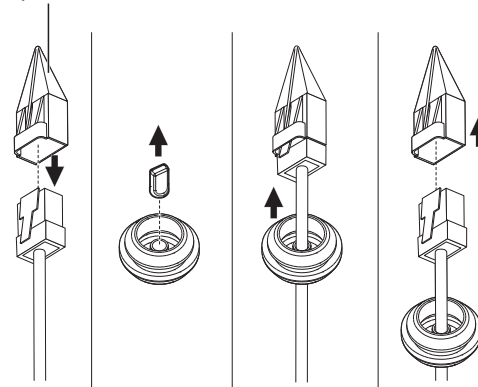
[Installing the network cable] (IP66)

1. Pull out the cable bushings from the camera body.

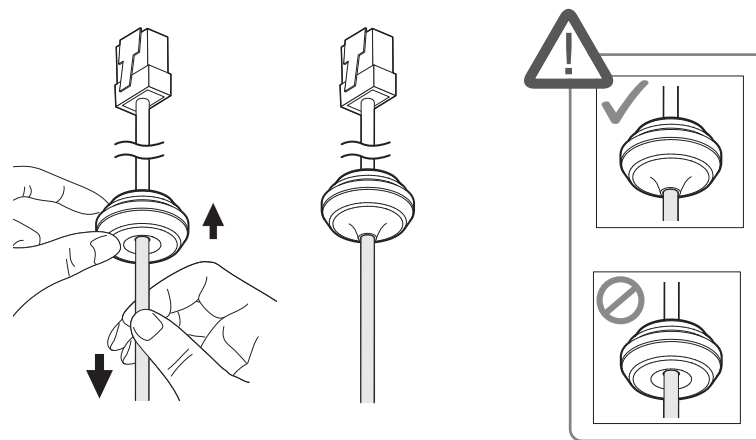


2. Remove the protruding part of the 1-hole cable bushing that was removed from the camera body.
3. Use the cap installer to pass through the RJ45 cable.

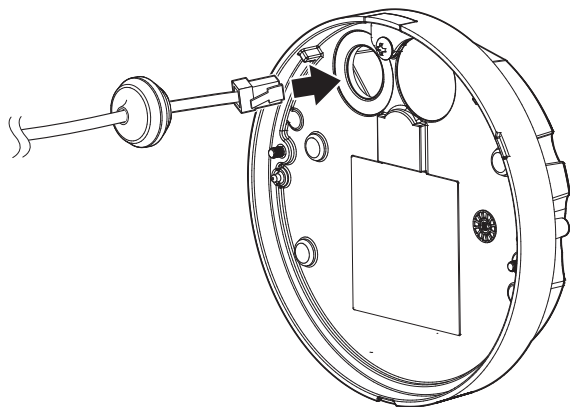
Cap Installer



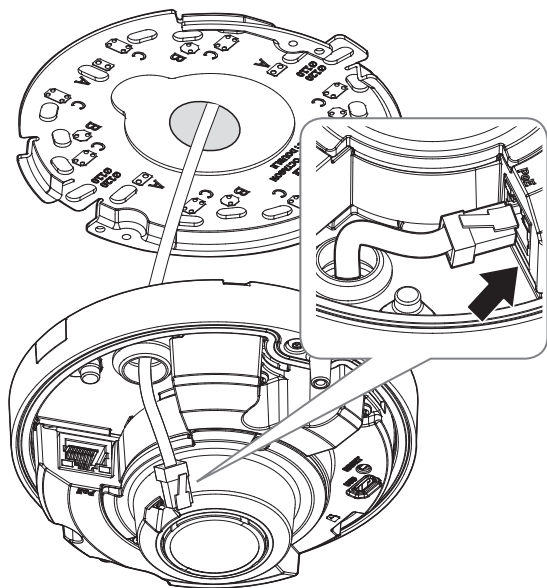
4. For waterproof protection, pull down the cable below the cable bushing as shown in the figure below.



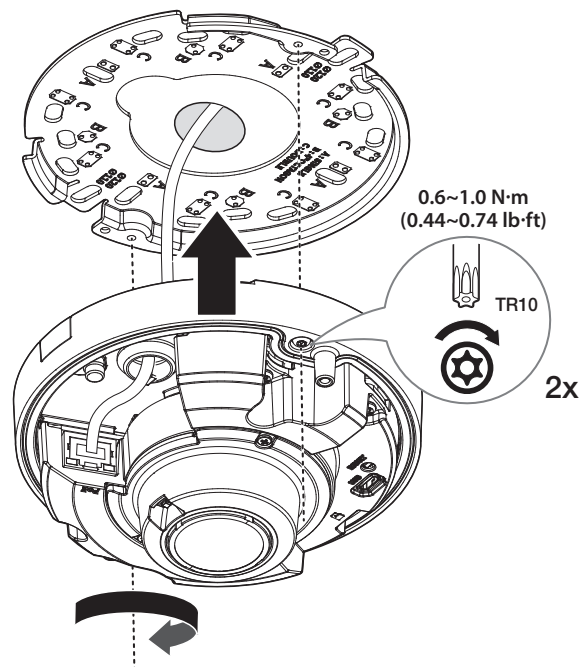
5. Insert the cable bushing of the network cable into the camera body.



6. Connect the network cable connector to the PoE port of the camera body.



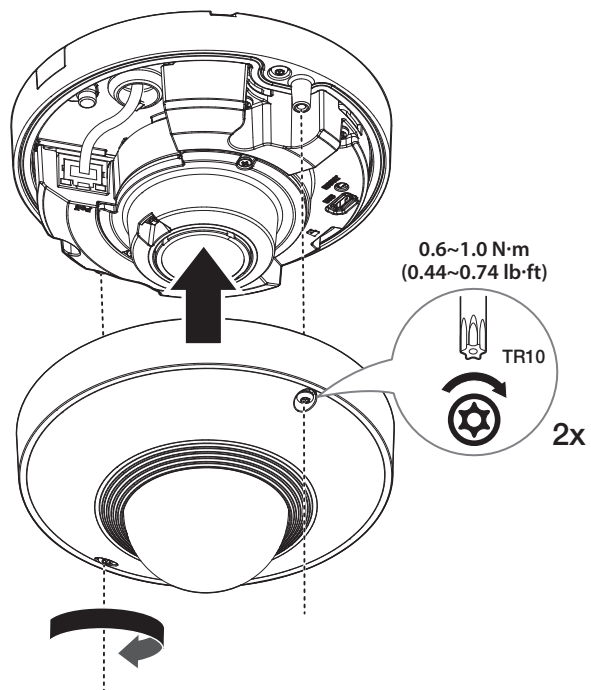
7. Join the camera body with the mount plate.



8. Adjust the video to the desired direction with reference to "Adjusting the monitoring direction for the camera" section. (page 15)

- Connect a monitoring device to the USB port and then monitor and adjust it. (page 17)

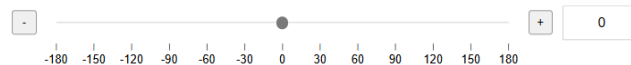
9. Assemble the top cover.



ADJUSTING THE MONITORING DIRECTION FOR THE CAMERA

■ Adjusting the Rotation

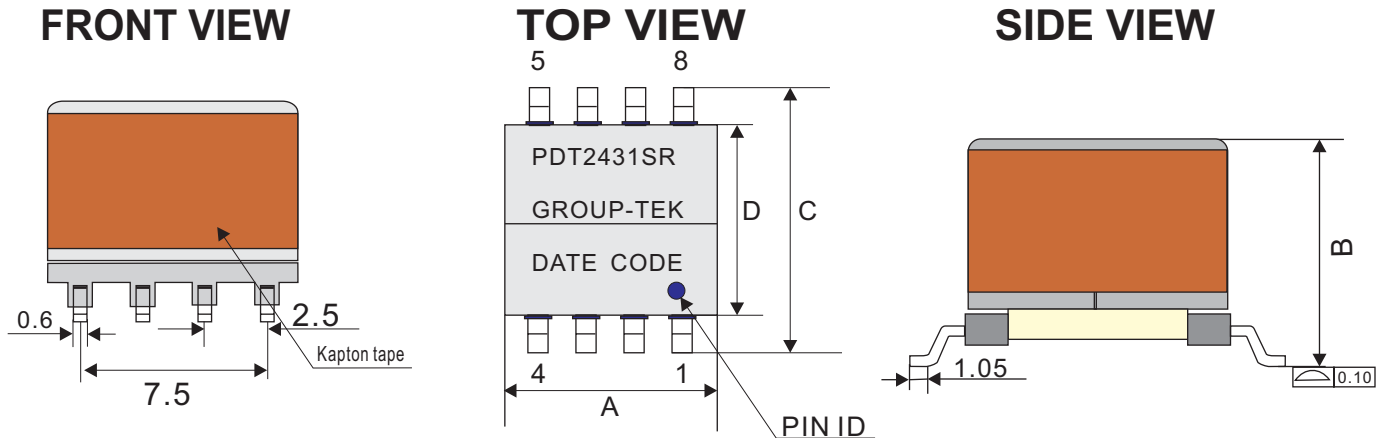
The rotation can be configured via the web viewer settings menu <Video setup> → <Digital rotation>.



- The effective range of rotation is a total of ± 180 degrees.

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

2. Mechanical Dimensions:



Note:

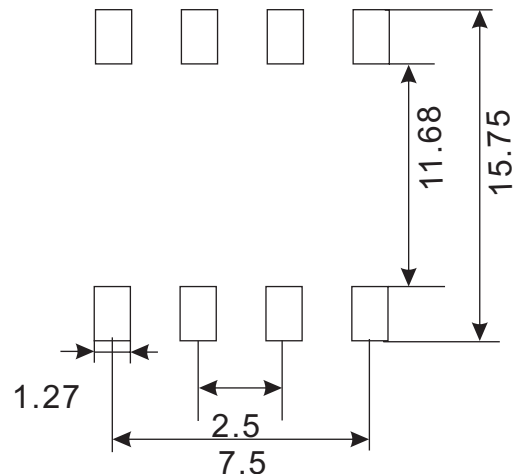
1. Wrap 2Ts of 6mm tape around the finished part.

Unit: mm

A MAX	B MAX	C MAX	D TYP
12.7	11.43	15.24	10.60

SUGGESTED PAD LAYOUT

Unit: mm Tolerances: +/-0.2



3. Electrical Characteristics :

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

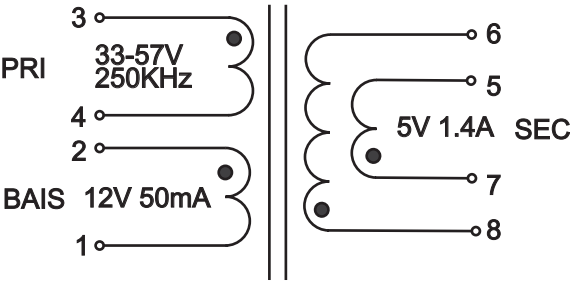
NO.	ITEM	TEST CONDITION	SPECIFICATION
1	Inductance	(3-4)@200kHz, 0.1v	155uH+/-10%.
2	Inductance	(2-1)@200kHz, 0.1v	30uH+/-15%.
3	Inductance	(7-5)///(8-6)@200kHz, 0.1v	5.3uH+/-15%.
4	Leakage Inductance	(3-4) with shorted other@200kHz, 0.1v	3.6uH MAX.
5	DCR	(3-4) @ 25°C	0.414 Ω Max.
6		(7+8)-(5+6) @ 25°C	0.06Ω Max.
7		(2-1) @ 25°C	0.822Ω Max.
8	HI-POT	PRI TO SEC	1500Vac 1mA 3Sec.
9	T/R	(3-4):(9+10-7+8):(2-1)	33:6:14±2%.

5.Winding Information:

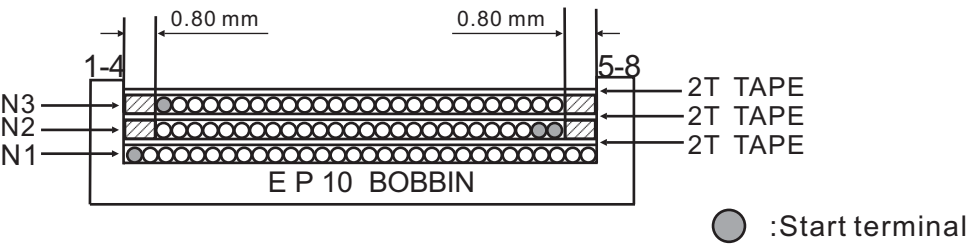
WINDING SEQ.	ST-FN	WIRE/FOIL	TURNS	WRAP INSUL.	MARGIN TAPE	SLEEVE	NOTE
1	3--4	0.30mm 2UEW	33	2T w6.0mm	N/A	N/A	1
2	8--6 7--5	0.30mm 2UEW R 0.30mm 2UEW N	6	2T w6.0mm	2T W0.80mm	N/A	1
3	2--1	0.23mm 2UEW	14	2T w6.0mm	2T W0.80mm	N/A	1

NOTE :
1. -Place the bobbin pin 1 right side of operator.

6.Schematic:



7.Winding construction



8.Material List

NO.	ITEM.	MATERIALS	SUPPLIERS/MANUFACTURERS	UL FILE NO.
1	BOBBIN	PHENOLIC T375J UL RATING: 94V-0	CHANG CHUN PLASTIC CO LTD.	QMFZ2.E59481
2	CORE	Ep10 PG232A	High-tech Electronics Co.,Ltd.	N/A
3	WIRE	POLYURETHANE ENAMELED TYPE NO: 2UEW 0.23mm 0.30mm THERMAL RATING:180°C	Shing Shun Magnet wire(HuiZhou) Co.,Ltd	E255839
4	TAPE	ADHESIVE POLYESTER TAPE TYPE NO.:CT*(c)(g) THERMAL RATING:130°C yellow tape: for inner coils	JingJiang yahua pressure sensitive glue Co.,Ltd	E165111
5	TAPE	ADHESIVE POLYESTER TAPE TYPE NO.:519(kapton tape) THERMAL RATING:200°C Kapton tape: for outside of core	Shen zhen yanda electronic Technology Co.,Ltd	E309332
6	SOLDER	SN/CU: 99.3/0.7	Gao Xin stannum industry Co.,Ltd	N/A
7	Glue	E-500(xx)	Dong Guan city eatto electronic material Co.,Ltd	E218090
8	INK	VIC-120	Shenshen Huarui samwo group Co.,Ltd	N/A

9.PACKING INFORMATION:

DESCRIPTION	QTY
PIECES PER REEL	250
PIECES PER POCKET	1
PIECES PER BOX	750
REEL PER BOX	3
GROSS WEIGHT PER BOX(KG)	TBD
NET WEIGHT PER BOX(KG)	TBD

The following Page(s) are related to Miscellaneous-02. The next supplement, if applicable, will be identified with a new Supplement Page Heading.



QNF-C9010V

Vandal Q AI Fisheye Camera

Revision

v 0.0

Release Date

2025/02/14

Unit

mm [inch]

Revision Date

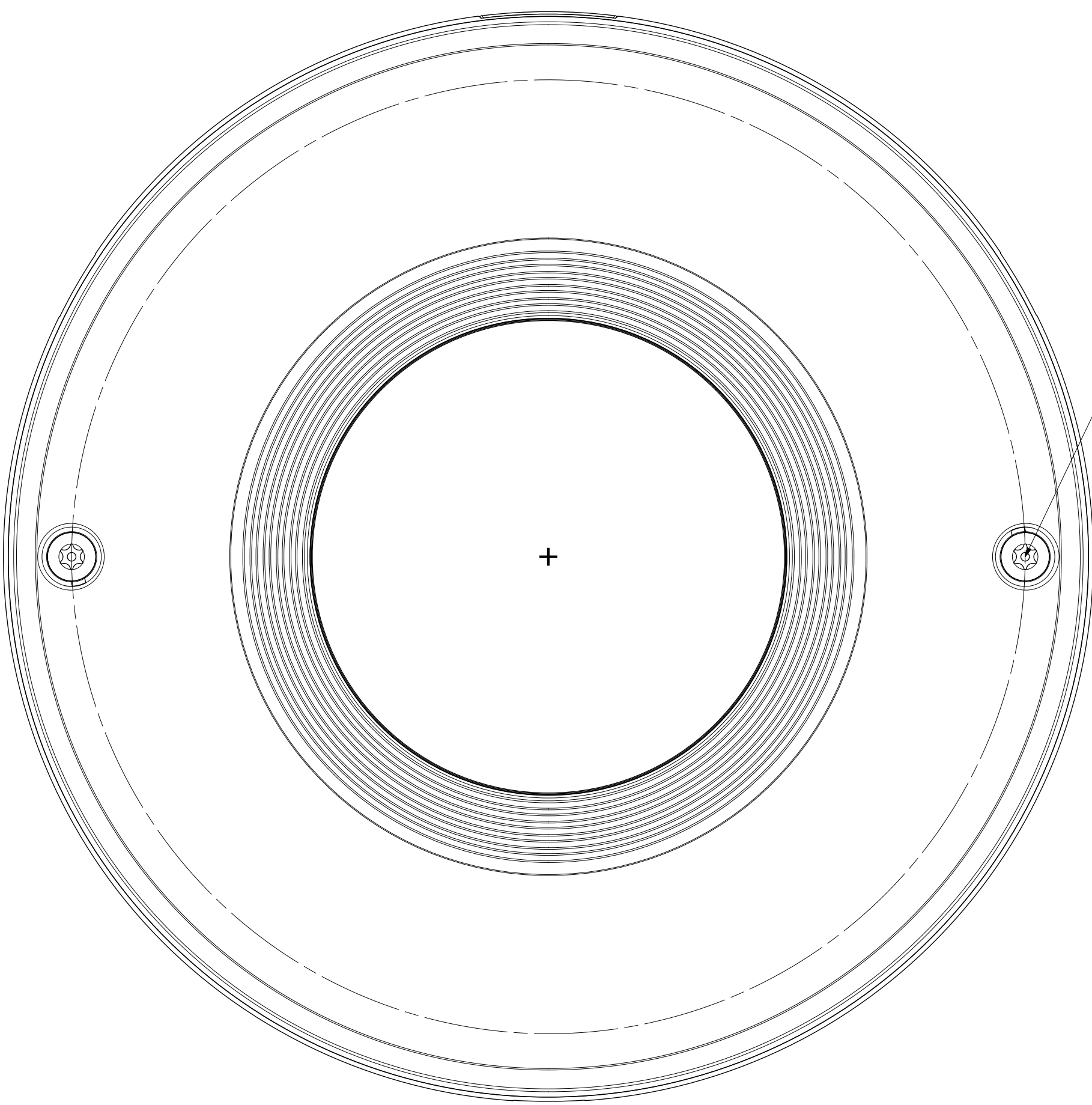
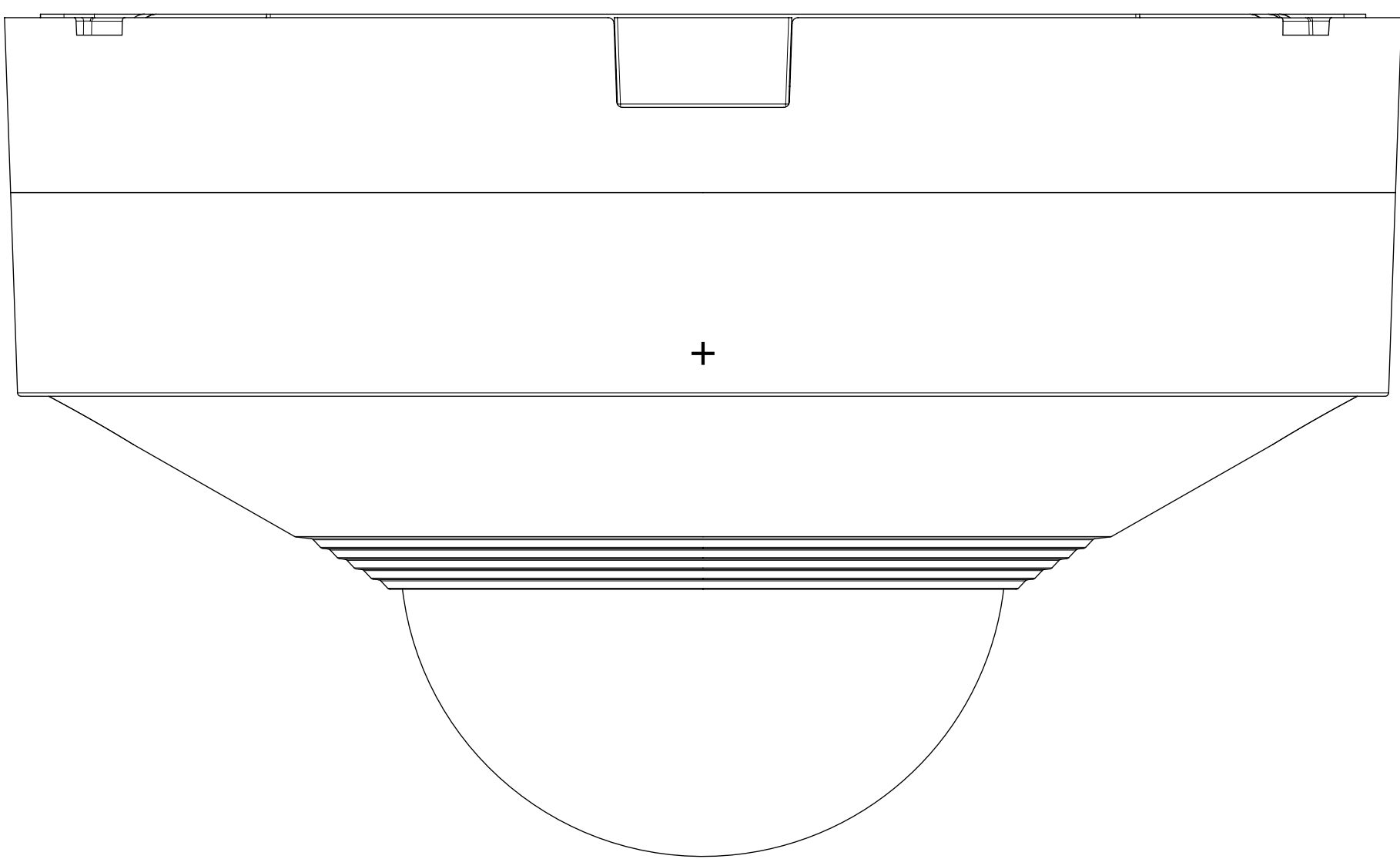
2025/02/14

Paper Size

A0

Scale

2:1



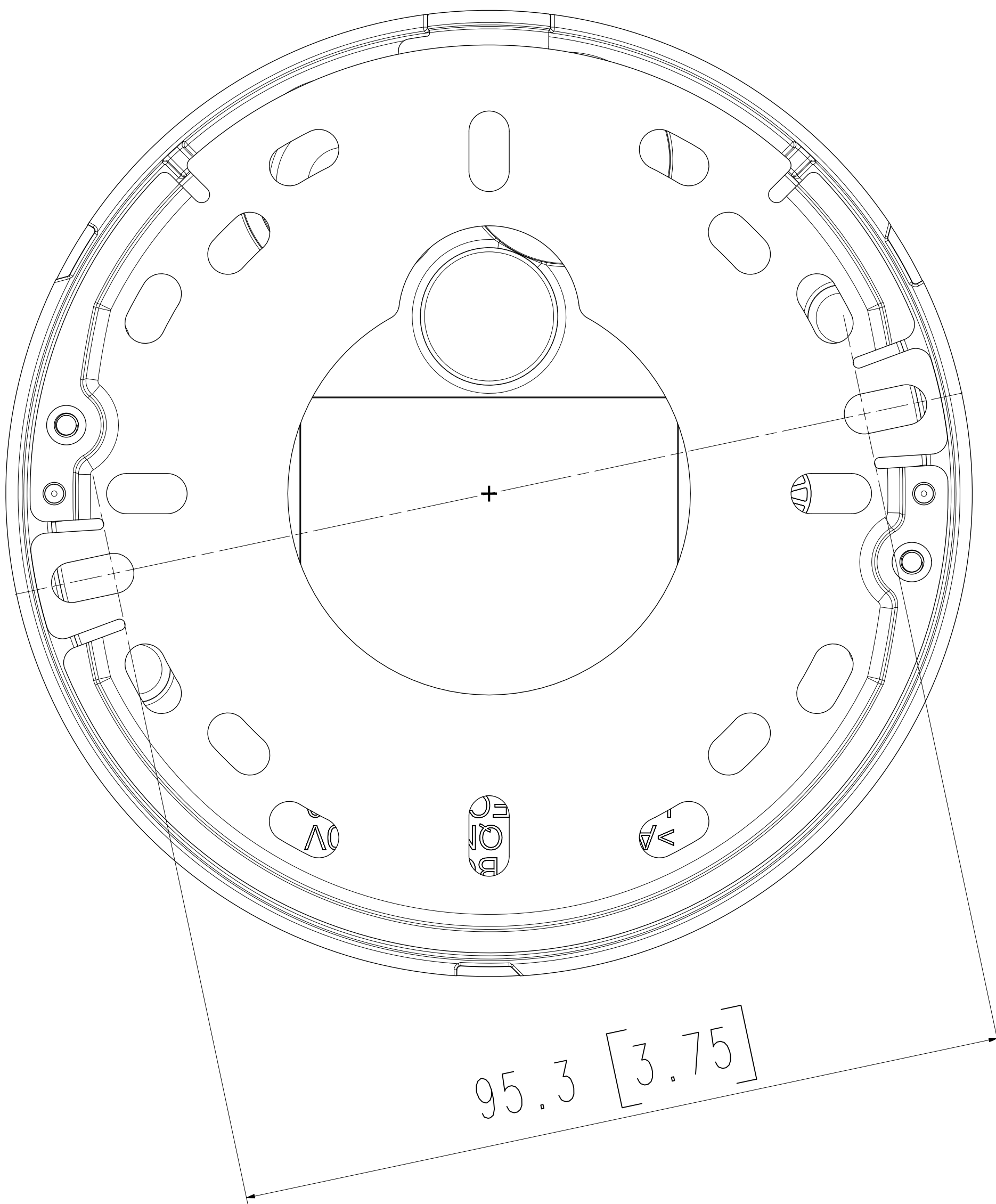
2xTR10

Ø 105.0 [4.13]

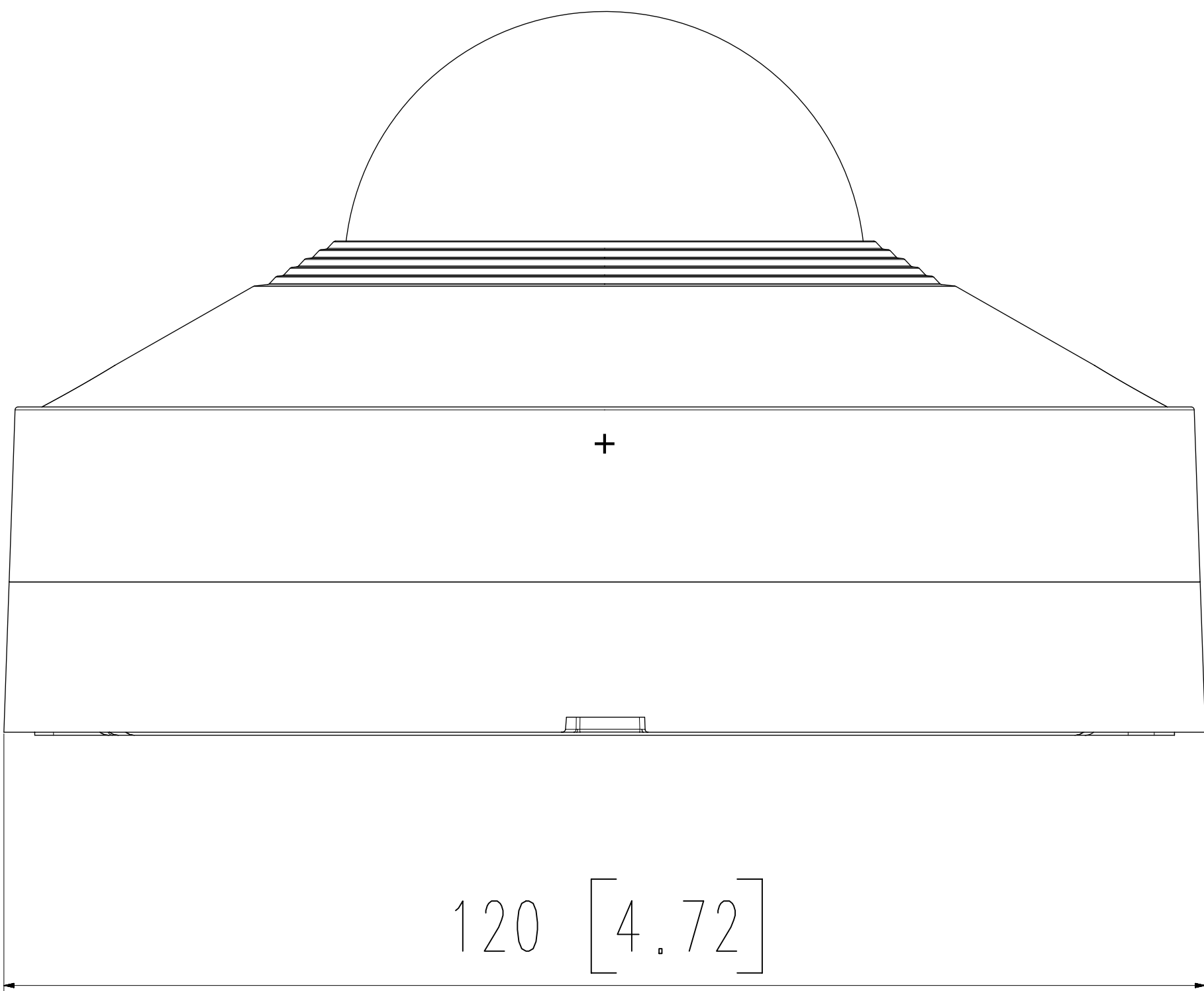
51.64 [2.03]

49.37 [1.94]

72.3 [2.85]

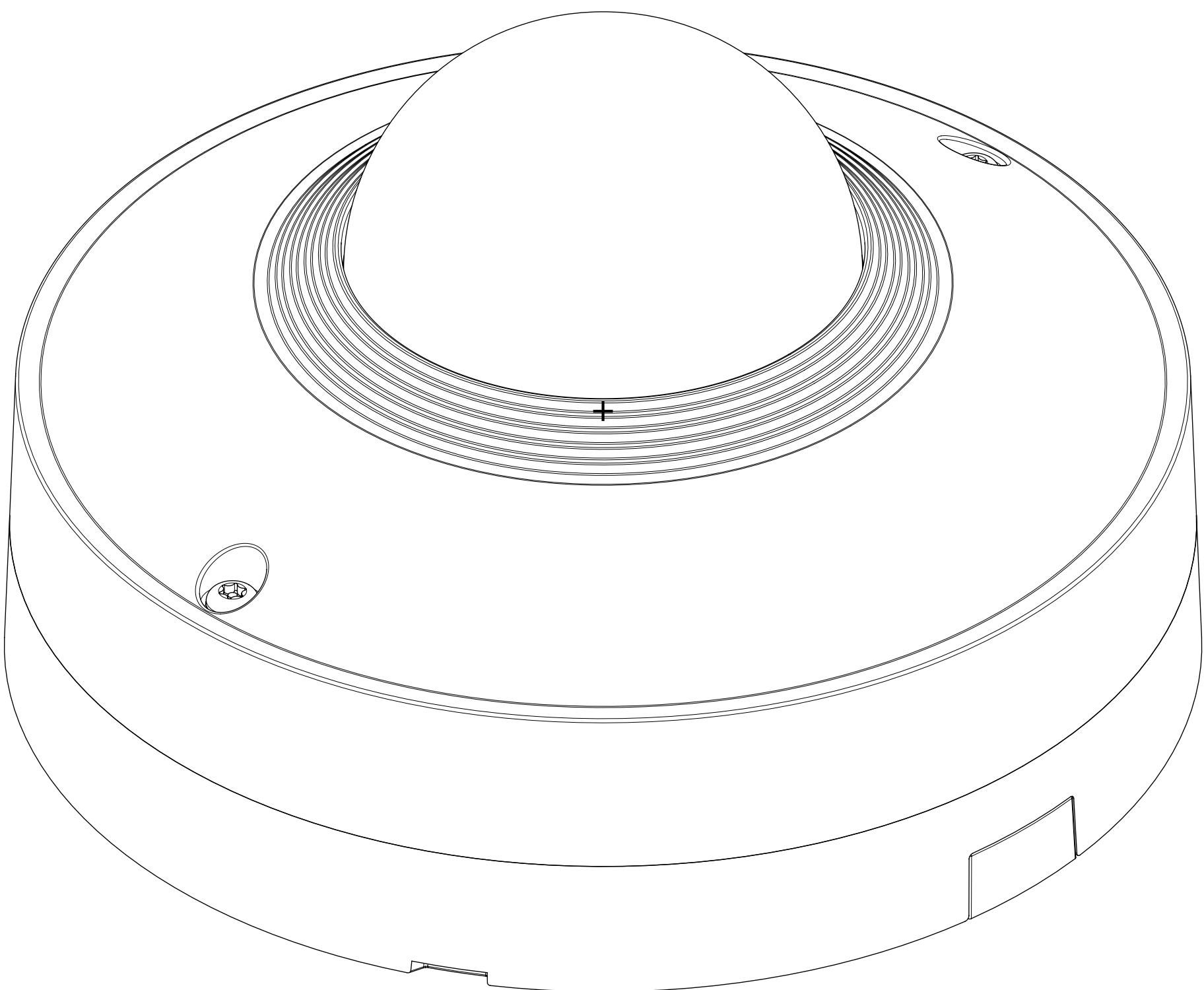
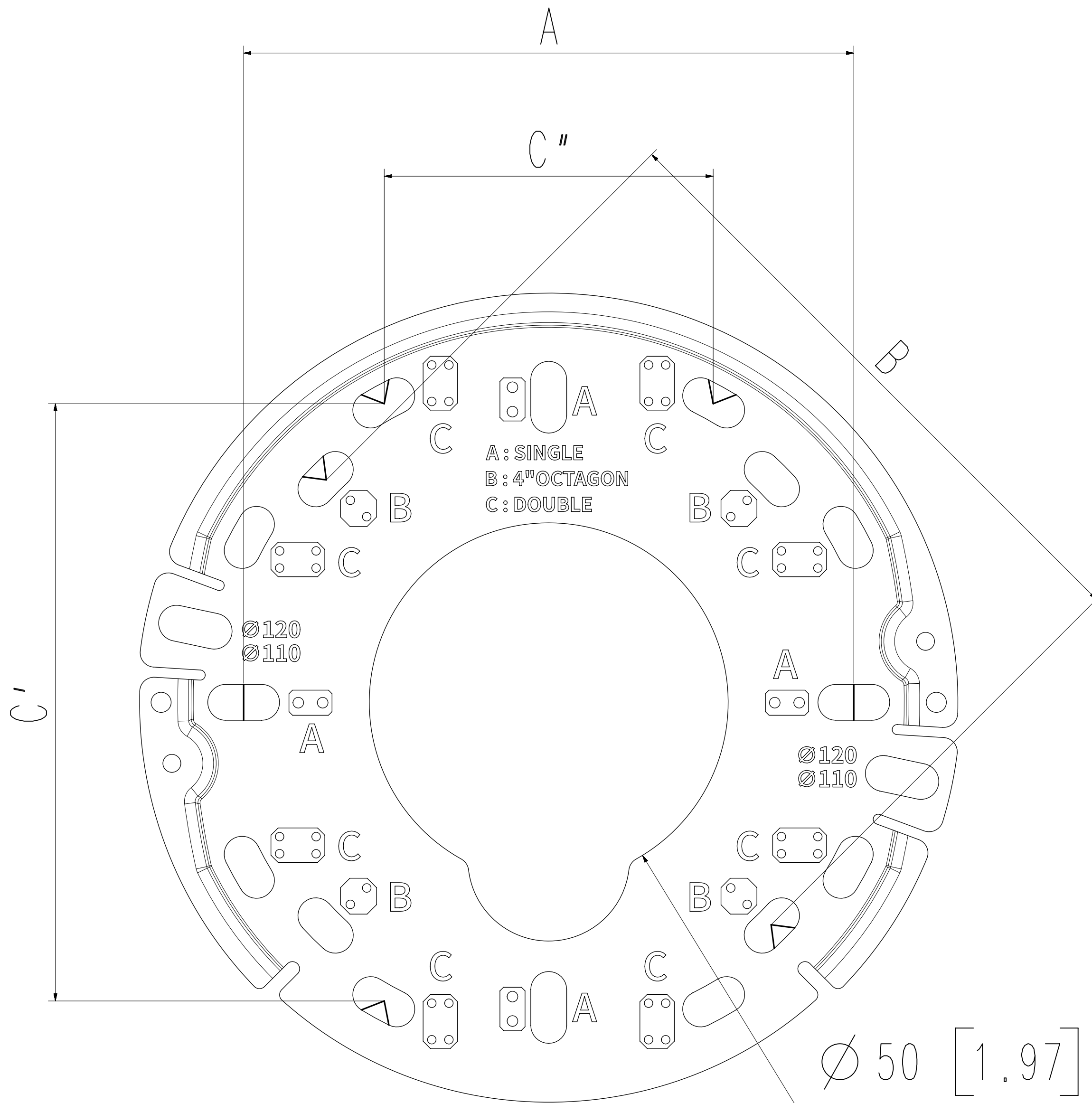


95.3 [3.75]



120 [4.72]

STANDARD GANG		
A	SINGLE	83.5 [3.29]
B	4"OCTAGON	88.0 [3.46]
C'/C"	DOUBLE	83.5 [3.29] x 46.0 [1.81]





NETWORK CAMERA, QNF-C9010V

PoE (48V ) 0.14A

M/C: QNF-C9010V/KEX

Fac.ID:D



FAB 2025 S/N: Serial No.

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







