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-A6295-DescriptionUL
Figure-12-Total

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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:	XNO-A9014R, XNO-A8014R, XNO-A6014R
Rating:	PoE (48 Vdc), 0.20 A (for model XNO-A9014R) PoE (48 Vdc), 0.17 A (for model XNO-A8014R) PoE (48 Vdc), 0.15 A (for model XNO-A6014R)
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.

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Prepared By: Lawrence Lee / Project Handler Reviewed By: SeungTae Kim / Reviewer

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

Model Differences

XNO-A9014R is basic model.

XNO-A8014R, XNO-A6014R are identical to basic model except model designation and lens module.

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	Not directly connected to the mains
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	N/A
Pollution degree (PD)	PD 2
Manufacturer's specified Tma (°C)	60 Outdoor: minimum -40
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)	1.57

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 60 °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 : Exempt
- The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual
- The outdoor equipment was evaluated for use in an ambient range of: -40 °C to 60 °C

Additional Information

4792139763
- Maximum Normal Load: Continuous operation. (Operate the camera through networked equipment with IR LED ON)

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"
Equipment for use in location where children are not likely to be present	"This equipment is not suitable for use in locations where children are likely to be present" (Instruction) or equivalent
Hard Copy	A. IMPORTANT or ATTENTION or similar wording B. Please check 'Manuals' from out website, before connecting to the supply. C. Company website URL (https://www.~~) or QR cord.
(Website) Manual - 1	This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2".

(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.
SCC requirement	If the signal words DANGER, WARNING, and CAUTION are included, a French manual is provided.
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
WINDOW-PLATE (Plastic)	TEIJIN POLYCARBONATE CHINA LTD	L-1250Z(#)(L-1250Z(f1))	Min. 1.5 mm thickness, rated Min. HB, RTI min. 125 deg. C.	QMFZ2	UL (E245526)	
WINDOW–IR LED Cover (Plastic)	SABIC INNOVATIVE PLASTICS B V	EXL1434T(f1)(GG)(N1)(BK47)(EXL1434T(f1))	Min.1.5 mm thickness, rated Min. PC, HB, RTI min. 120 deg. C.	QMFZ2	UL (E45329)	
WINDOW–CENTER Cover (Plastic)	LOTTE CHEMICAL CORPORATION	UH-1068(f1)(UH-1068)	Min.1.5 mm thickness, rated Min PC, V-0, RTI min. 130 deg. C.	QMFZ2	UL (E115797)	
Enclosure – COVER-FRONT-RING (Plastic)	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min.1.5 mm thickness, rated Min PC, V-0, RTI min. 130 deg. C.	QMFZ2	UL (E115797)	
Enclosure – CASE-BODY (Plastic)	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min.1.5 mm thickness, rated Min PC, V-0, RTI min. 130 deg. C.	QMFZ2	UL (E115797)	
Enclosure - Top nearby Main board (Metal)	Interchangeable	Interchangeable	Aluminium, Min. 3.0 mm thickness, see enclosure for dimension.	-	Tested in equipment	
Enclosure - Bottom nearby Main board (Metal)	Interchangeable	Interchangeable	Aluminium, Min. 2.5 mm thickness, see enclosure for dimension.	-	Tested in equipment	
Mounting bracket (Metal)	Interchangeable	Interchangeable	Aluminium, Min. 2.5 mm thickness, see enclosure for dimension.	-	Tested in equipment	
Internal Heatsink (Metal)	Interchangeable	Aluminum	Aluminium, secured on PCB by soldering, see enclosure for dimension.	-	Tested in equipment	

Internal Plastic (for Holder-Lens)	LOTTE CHEMICAL CORPORATION	GC-1025F	Min. 1.5 mm thickness, rated Min. V-0, RTI min. 130 deg. C.	QMFZ2	UL (E115797)	
Internal Plastic (for Cover-PCB)	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min.1.5 mm thickness, rated Min PC, V-0, RTI min. 130 deg. C.	QMFZ2	UL (E115797)	
Transformer (T1)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD	PDT25289SR	77 uH, 130 deg. C. See enclosure for more detail.	-	Tested in equipment	
Opto-coupler (LS1)	XSEMITRON TECHNOLOGY (HONGKONG) LIMITED	XSC3H7(M)(G)(x)-(U)(N)(Y) (Type: XSC3H7C	Isolation Voltage: 3750. Max. Operation Temperature: 110 deg. C	FPQU2	UL (E551213)	
Opto-coupler (LS1) - Alternate	LITE-ON Technology Corporation	LTV-217 (Type: LTV-217-C-G)	Isolation Voltage: 3750. Max. Operation Temperature: 110 deg. C	FPQU2	UL (E113898)	
Opto-coupler (LS1) - Alternate	COSMO ELECTRONICS CORP	KPC357NT	Isolation Voltage: 3750. Max. Operation Temperature: 115 deg. C	FPQU2	UL (E169586)	
Heater (R4, R12) (Total 2 ea)	ABCO Electronics Co Ltd	ACR1206T2R2J	2.2 ohms,Total 0.076 W	-	Tested in equipment	
Heater (R5 to R7, R9 to R11) (Total 6 ea)	walsin technology corporation	WR12X5R6JTL	5.6 ohms, Total 0.58 W	-	Tested in equipment	
Lens Module (Include stepping motors) for XNO-A9014R	Sunny Optics (Zhongshan)Co., Ltd	C7340AD-2D8	3.0 V-6.0 V	-	Tested in equipment	
Lens Module (Include stepping motors) for XNO-A8014R	Sunny Optics (Zhongshan)Co., Ltd	C7340AC-2D9	3.0 V-6.0 V	-	Tested in equipment	

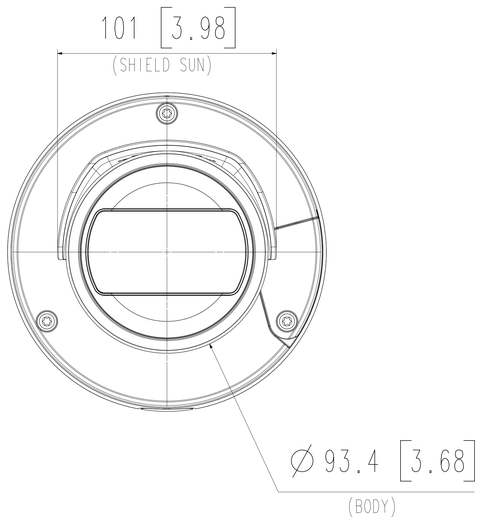
Lens Module (Include stepping motors) for XNO-A6014R	Sunny Optics (Zhongshan)Co., Ltd	C7340AA-2D9	3.0 V-6.0 V	-	Tested in equipment	
Lithium Battery (BAT1)	SEIKO INSTRUMENTS INC MICRO-ENERGY DIV	ML414H	Lithium, Rechargeable, Max Charging Voltage, 3.4 V dc, Max Charging current: 300 mA	BBCV2	UL (MH15628)	
Lithium Battery Protection Circuit	Interchangeable	Interchangeable	Diode (D26, 80 V, 150 mA) and Resistor (R176, 3.3Kohm) in series	-	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	
Thermal pad	KOMOTECH	KGP-1(a)	Min. 2.0 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL (E245303)	
Thermal pad	KOMOTECH	KGP-1(a)	Min. 1.0 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL (E245303)	
Gasket - USB C DOOR	NAMYANG VINA	O-VMQ-30-GR	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
Gasket - Body - RUBBER	NAMYANG VINA	O-VMQ-30-GR	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
Gasket - Internal Cable	Y&K	O-VMQ-30-BK	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
Gasket - Window front	NAMYANG VINA	O-VMQ-60-BK	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	

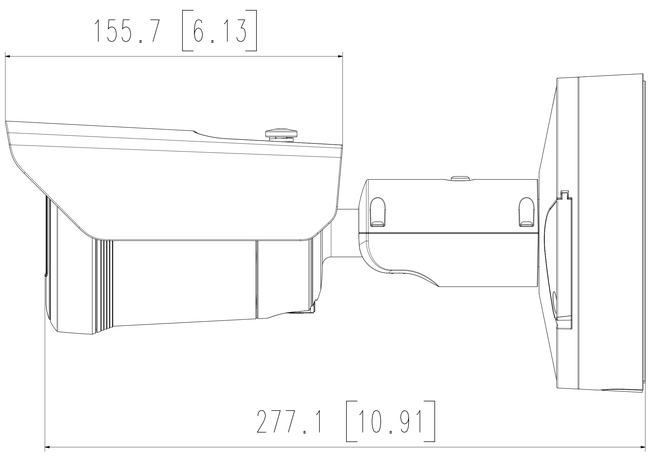
GASEKT-BACKBOX	NAMYANG	O-VMQ-30-GR	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
GAKSET-BUSHING-DUMMY	NAMYANG	C-VMQ-60-GR	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
GAKSET-BUSHING-CABLE	NAMYANG	C-VMQ-40-GR	Gasket Test was conducted under E158873-A6034	-	Tested in equipment	
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. -40 deg. C to Max. 60 deg. C if not specified.	PGDQ2 or PGJI2	UL	
IR LED (LD1, LD2)	LITEON	LTE-R38386L-YE5-SS	VF=Max. 2.5 V,	-	Tested in equipment	
IR LED (LD3, LD4)	Cybright	XB-IR3838EU-I	VF=Max. 2.3 V	-	Tested in equipment	

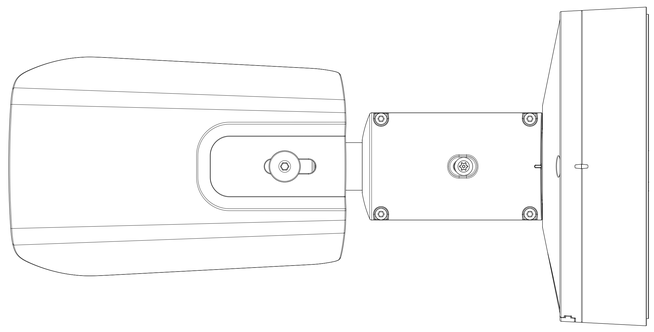
Enclosures

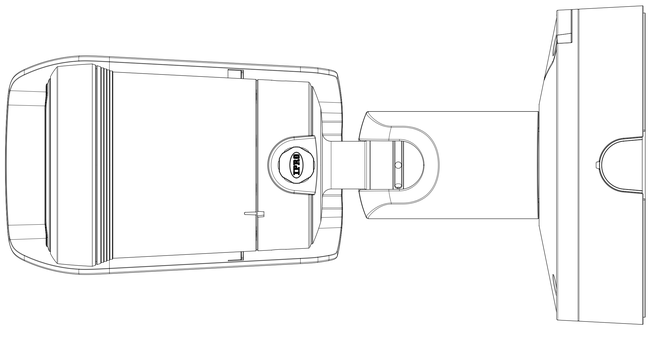
Type	Supplement Id	Description
Photographs	03-01	External View - 1
Photographs	03-02	External View - 2
Photographs	03-04	Internal View
Photographs	03-05	IR LED Board
Photographs	03-06	Lens Mdule
Photographs	03-07	Main Board - Top
Photographs	03-08	Main Board - Bottom
Diagrams	04-01	Enclosure Diagram
Diagrams	04-02	Heatsink Diagram
Manuals	06-01	Manual
Miscellaneous	07-01	Transformer (T1) Specification
Miscellaneous	07-02	Label

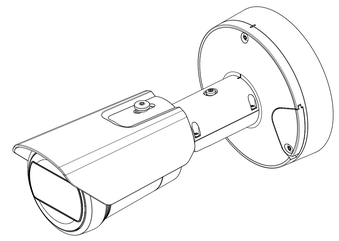
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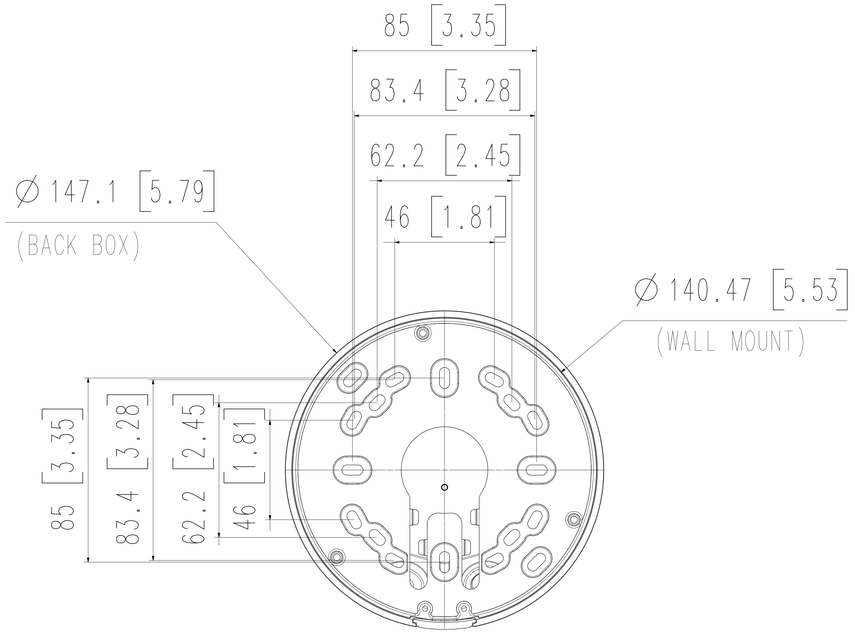












No.	MODEL NAME	DATE
3	XNO-A9014R	'26.02.11
2	XNO-A8014R	'26.02.11
1	XNO-A6014R	'26.02.11

Unit:mm[inch]	SCALE:1/1	Hanwha Vision

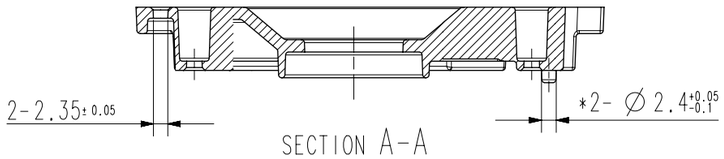
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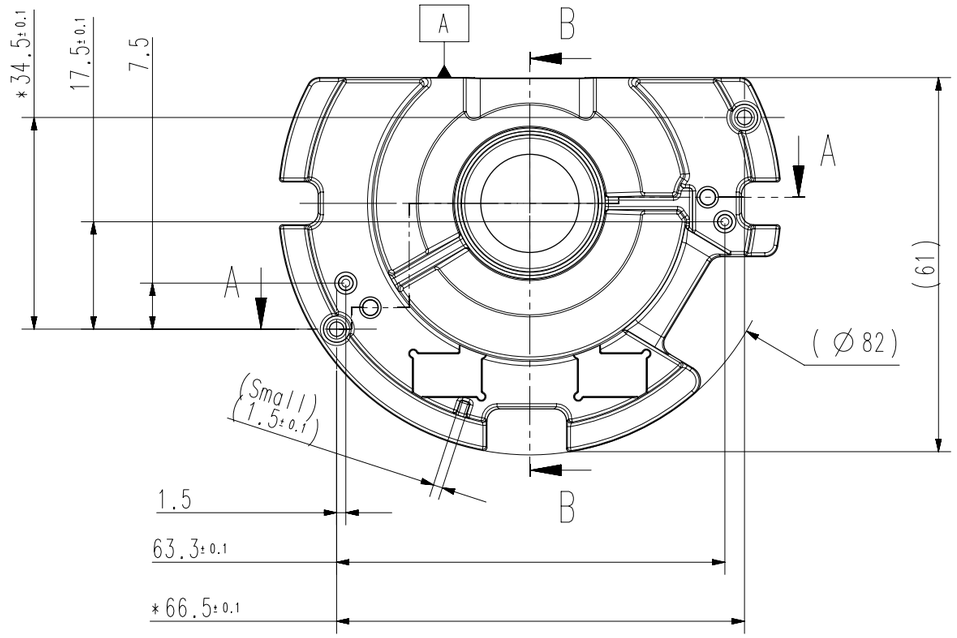
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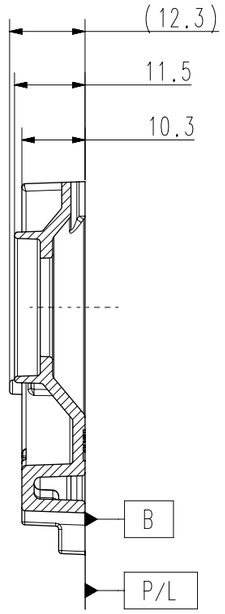
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This parts should not contain any substances which are specified in AH60-0033K

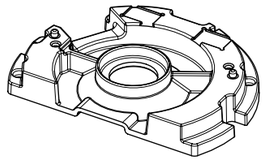
NO	PART NAME	CODE NO.	MATERIAL	Q'TY	REMARK
1	SINK,HEAT IR	EP07-002265A	ADC12	1	-

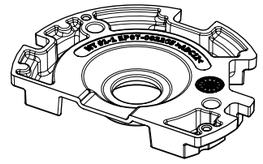


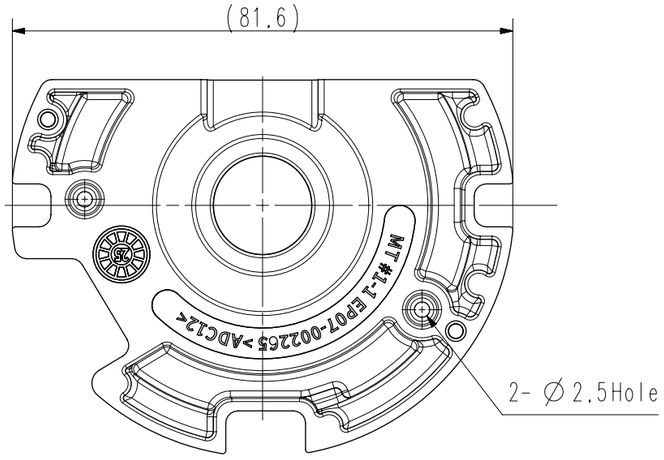


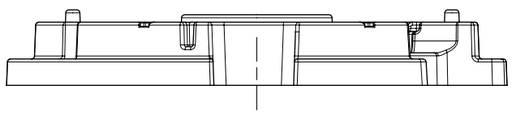


SECTION B-B









Hanwha Vision APPROVAL '25.12.09

STANDARD TOLERANCE

DIV	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5
0-16	±0.05	±0.1	±0.1	±0.2	±0.3
16-63	±0.05	±0.1	±0.2	±0.3	±0.4
63-250	±0.1	±0.2	±0.3	±0.4	±0.4
250-1000	±0.2	±0.3	±0.4	±0.5	±0.6

Coating Specification

CODE No.		A	
Color	Standard	D20192403178	
	Code	-	
	Name	BLK	
Printing	Color	-	
Process	Casting→Cutting→Sanding→Machining/Tapping→Degrease →Anodizing(Black)		

NOTE:Die-Casting

1. Material and Basic wall thickness : ADC, t2.0

2. Gate, P/L, Ejector Pin location must be handled with HVC designer.
3. Ejector pin stain must be less than 0.3 depth (⊔), no flash is allowed.
4. Undescribed edge round must be less than R0.5, undescribed corners must be less than R0.3.
5. No Deformation, Air bubble, Shrinkage is allowed.
6. Every Flash on P/L must be less than 0.1.
7. Undescribed draft angles must be less than 0.5° .
8. * marks (Key dimensions) must be carefully handled.
9. Surface cutting level of Gate and Over-Flow must be equivalent with other surface cutting level.
10. Part Name, Code Number, Mold Number, Material, Model Name must be carved on the inner side of the part.
 - Location and Specs. must be handled with HVC designer.
11. External look and printing specification must follow separately distributed Design Specification data.
 - Including Surface cutting, Chromate, Sanding, Spray, Silk Print specifications.
12. Reliability must satisfy HVC standards.
13. Delivery packing specifications must be discussed separately.
14. All other issues must be handled with HVC designer.

A3

CHANGE

UNIT	mm	DESIGN	CHECK	APPROVAL	PART NAME	SINK,HEAT-IR
SCALE	1/1	CHOI.E.S '25.12.01	KIM.J.S '25.12.01	CHOI.Y.S '25.12.01	MODEL NAME	XNO-A9014R
Hanwha Vision					CODE NO.	EP07-002265A

TC: 265932

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), 0.2A. (XND-A9014R/XNV-A9014R/XNO-A9014R)
16. 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), 0.17A. (XND-A8014R/XNV-A8014R/XNO-A8014R)
17. 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), 0.15A. (XND-A6014R/XNV-A6014R/XNO-A6014R)
18. This product is intended to be supplied by isolation power.
19. 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.
20. 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.
21. 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.
22. 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.
23. Installing or using the product in water can cause serious damage to the product.
24. Although a rapid change in temperature could cause frost inside the dome, there will be no problem with the video.
25. This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunderstroke, communication interruption.
26. The operating temperature for the XND-A9014R/XND-A8014R/XND-A6014R products is -10°C to +50°C (14°F to +122°F).
27. The operating temperature for the XNV-A9014R/XNV-A8014R/XNV-A6014R products is -40°C to +55°C (-40°F to +131°F).
28. The operating temperature for the XNO-A9014R/XNO-A8014R/XNO-A6014R products is -40°C to +60°C (-40°F to +140°F).

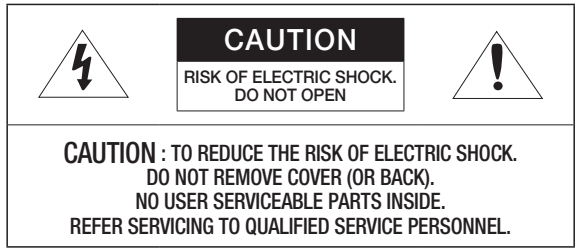
WARNING

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

When a new product box is opened (or during the initial use of the product), moisture might build up on the glass of the camera. The built-up moisture disappears naturally within a few hours after powered on.

Do not arbitrarily loosen or tighten the gore valve. (XNO-A9014R/XNO-A8014R/XNO-A6014R)

This equipment is not suitable for use in locations where children are likely to be present.

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

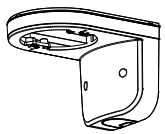
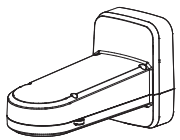
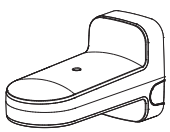
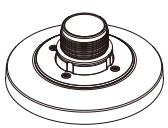
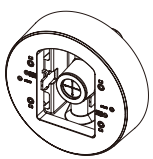
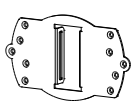
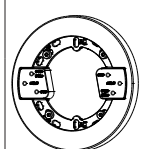
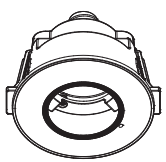
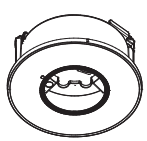
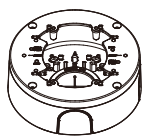
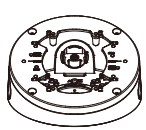
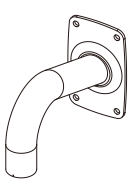
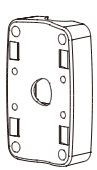
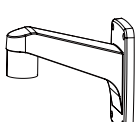
※ Please read this manual for the safety before using of goods and keep it in the safe place.

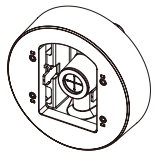
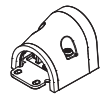
We do not guarantee the quality of third-party products (e.g. lenses, accessories) that you separately purchase.

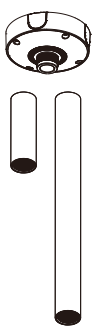
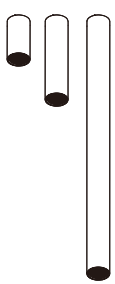
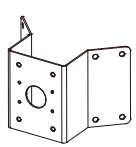
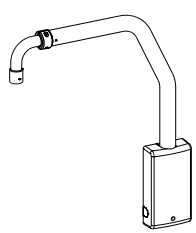
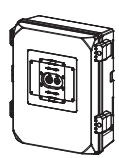
In particular installation environments, there might be interference in radio communications. When interference of electromagnetic waves occurs between the product and radio communication device, it is recommended to keep a certain distance between the two or change the direction of the receiving antenna.

OPTIONAL ACCESSORIES FOR INSTALLATION

You can purchase appropriate optional accessories available.

Model name	Wall Mount and Pole Mount	Hanging Mount	Pole Mount (Direct Assembly)	Gang Plate	In-Ceiling Mount	Back Box and Tilt Mount	Conduit Adaptor
XNV-A9014R/ XNV-A8014R/ XNV-A6014R	 SBP-125WMW1 (Indoor Wall&Pole Mount)  SBP-400WMW (Wall&Pole Mount) *SBD-110GP1 required for installation  SBP-250WMW (Wall&Pole Mount) *SBD-110GP1 required for installation	 SBP-120HMW	 SBD-140PMW  SBD-140PMB (Light version)	 SBD-110GP1	 SHD-1203FW  SHD-1203FPW	 SBV-140BW (Back Box)  SBV-140WW (Waterproof Back Box)  SBV-140TMW (Tilt Mount)	
XND-A9014R/ XND-A8014R/ XND-A6014R	 SBP-300WMW (Wall Mount) * SBP-300PMW2 required for pole installation  SBP-300PMW2 (Pole Mount)  SBP-300WMW1 (Wall Mount) * SBP-300PMW2 required for pole installation						

Model name	Wall Mount and Pole Mount		Hanging Mount	Pole Mount (Direct Assembly)	Gang Plate	In-Ceiling Mount	Back Box and Tilt Mount	Conduit Adaptor
XNO-A9014R/ XNO-A8014R/ XNO-A6014R	-	-	-	 SBD-140PMW		-		 SBP-060BA  SBP-061BA

Model name	Ceiling Mount		Corner Mount	Parapet Mount	Cabinet
	Assembly	Individual Parts			
XNV-A9014R/ XNV-A8014R/ XNV-A6014R XND-A9014R/ XND-A8014R/ XND-A6014R	 SBP-300CMTW (Telescopic)  SBP-300CMTS (Ball Head)  SBP-300CMW1 SBP-900CMW  SBP-150CMI SBP-300CMI	 SBP-180CMB  SBP-180CMS (Ball Head)  SBP-140CMB  SBP-150CMP SBP-300CMP SBP-900CMP  SBP-C15P  SBP-C15H	 SBP-156KMW	 SBP-156LMW1	 SBP-150NBW
XNO-A9014R/ XNO-A8014R/ XNO-A6014R	-	-		-	

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.

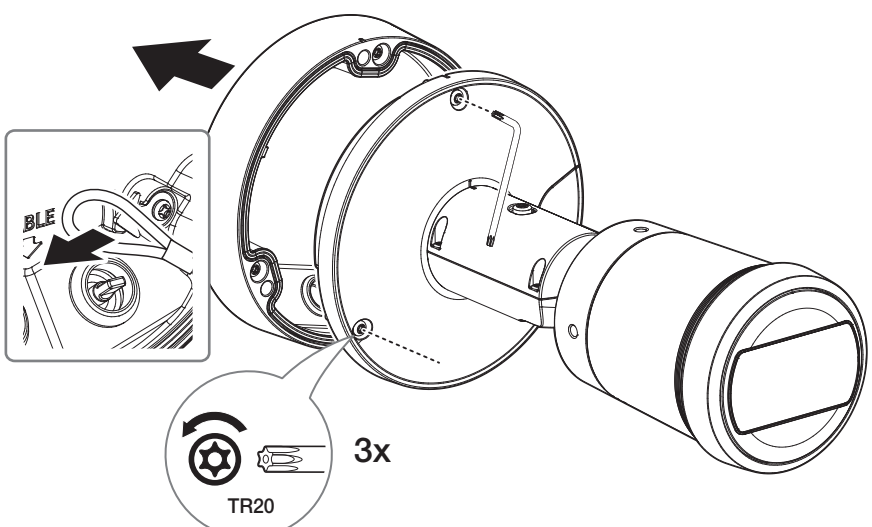
Precautions before installation

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

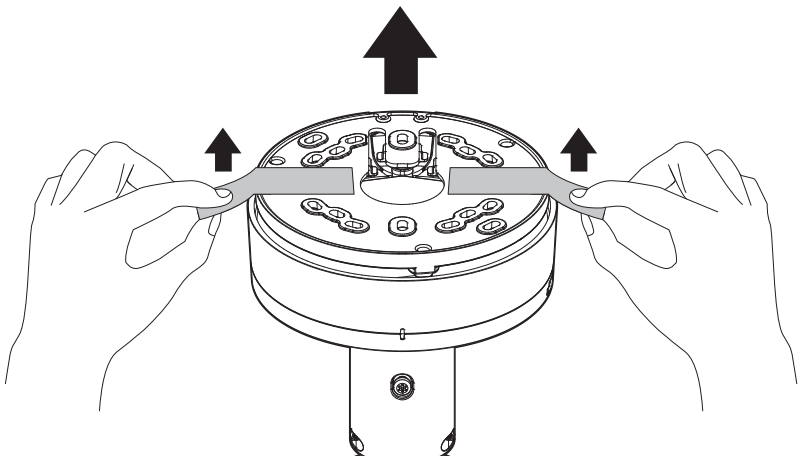
- Select an installation site that can hold at least 5 times the camera's weight.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site. And put aside personal belongings from the site, just in case.
- If the 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.
- Do not use the sunshield hole for any purpose other than for connecting the sunshield.

Disassembling

1. Remove the bottom cover by turning the bottom cover's fastening screws on the camera body counterclockwise.
   - Note that it is not necessary to loosen the screws completely.



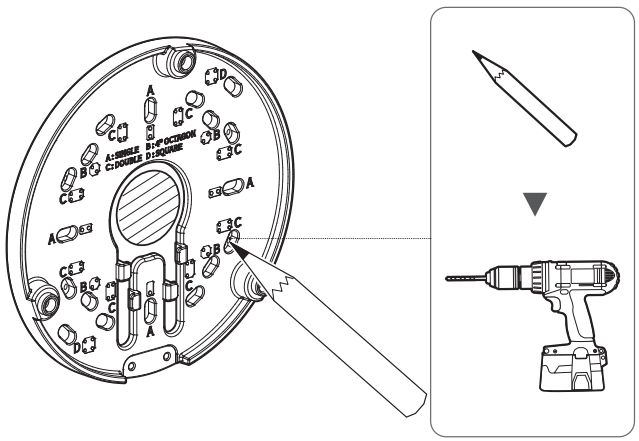
2. Remove the fixing tape from the bottom cover and mount plate, and then remove the mount plate.



Installation (Mount plate)

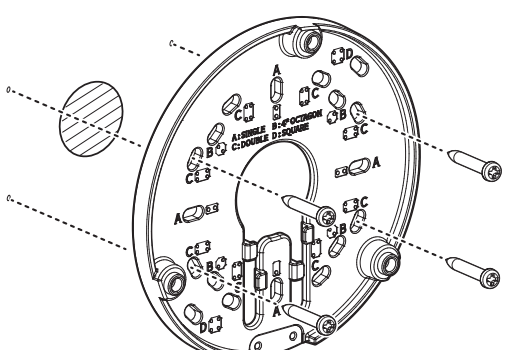
[Directly installing on wall/ceiling]

1-1. 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.



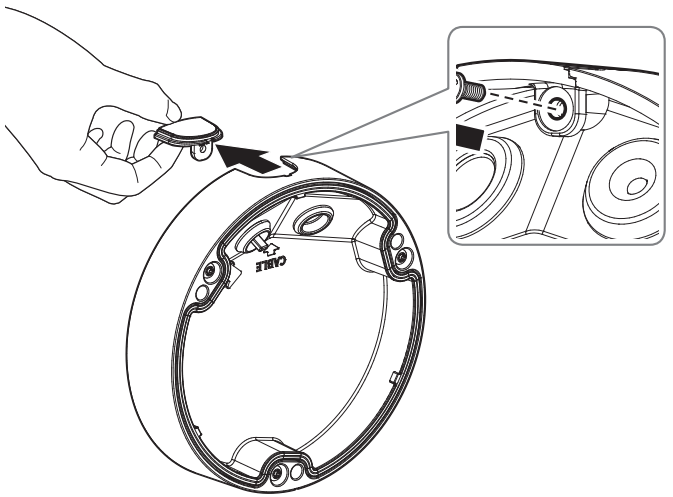
1-2. Fix the Mount plate using appropriate screws.

1-3. Take out the necessary cables from among the network and audio/alarm cables through the hole of the mount plate.



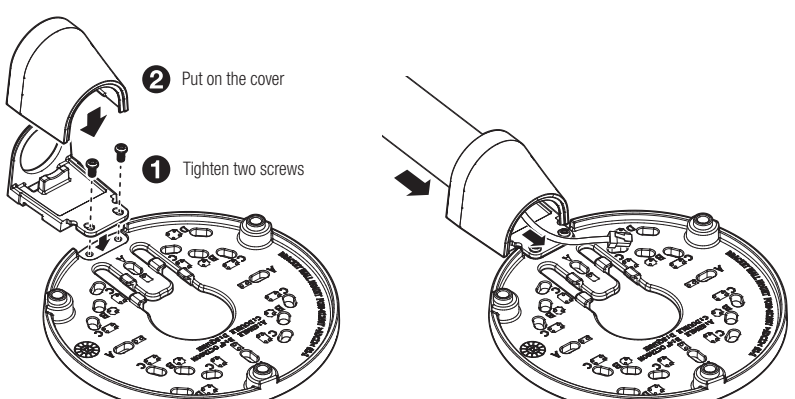
[Installing using pipe]

2-1. When installing it using a pipe, you can do so after removing the wiring hole cover on the bottom of the product.
Use a Phillips screwdriver to remove the fixing screws from the bottom cover and detach the wiring hole cover.



2-2. Join the conduit adaptor (separately sold) to the mount plate.

2-3. Mount the pipe to the conduit adaptor.



2-4. Fix the mount plate using appropriate screws.

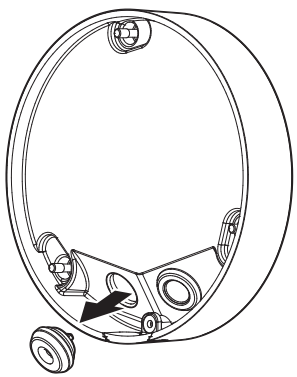
2-5. Take out the necessary cables from among the network and audio/alarm cables through the pipe.

Installation (Bottom cover)

- Use a cable bushing compliant with the network cable to be connected.
  - Camera main: use a cable with the diameter of Ø5 to 6.5
- You can only use a network cable with a diameter of Ø6.5 or less.

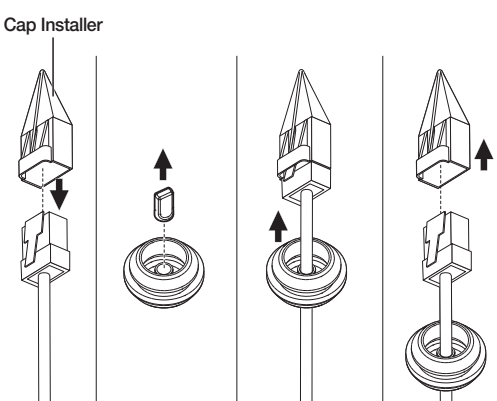
[Installing the network cable] (XNO-A9014R/XNO-A8014R/XNO-A6014R: IP66/IP67)

1. As shown in the figure below, remove the cable bushing from the bottom cover.

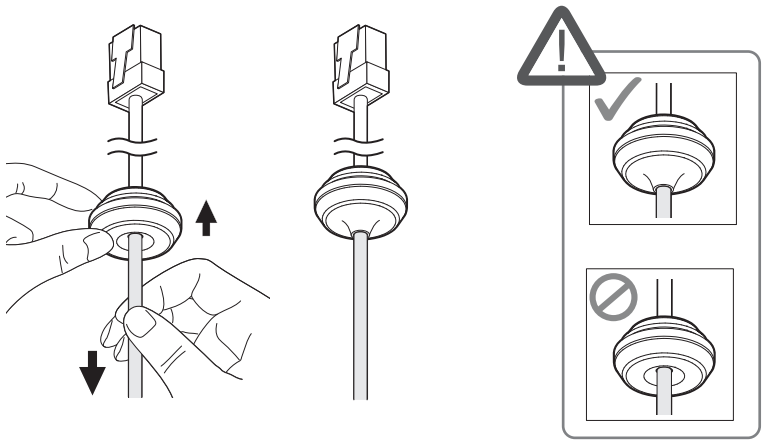


2. Remove the protruding part of the 1-hole cable bushing that was removed from the Bottom cover.

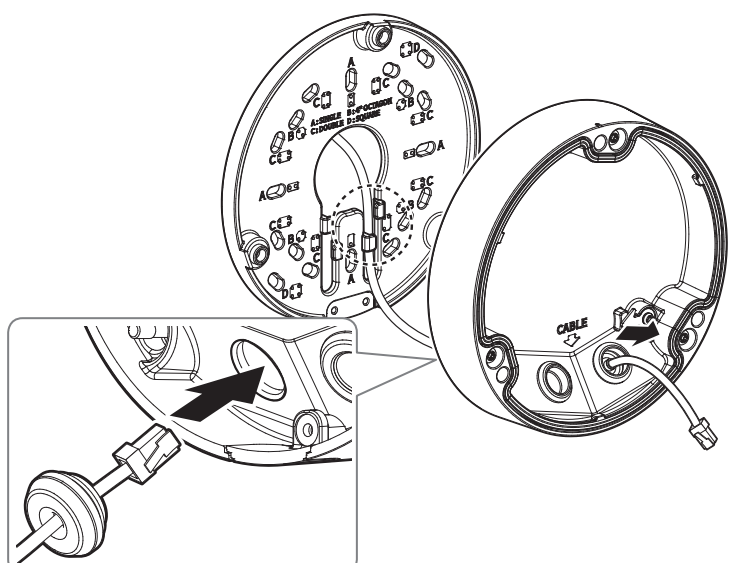
3. Use the cap installer to pass through the RJ45 cable.



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

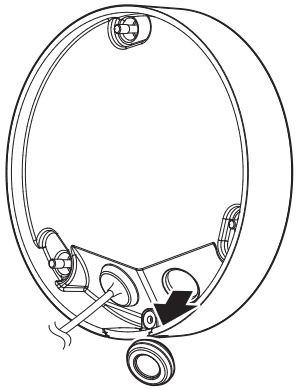


5. Insert the cable bushing of the network cable into the bottom cover.

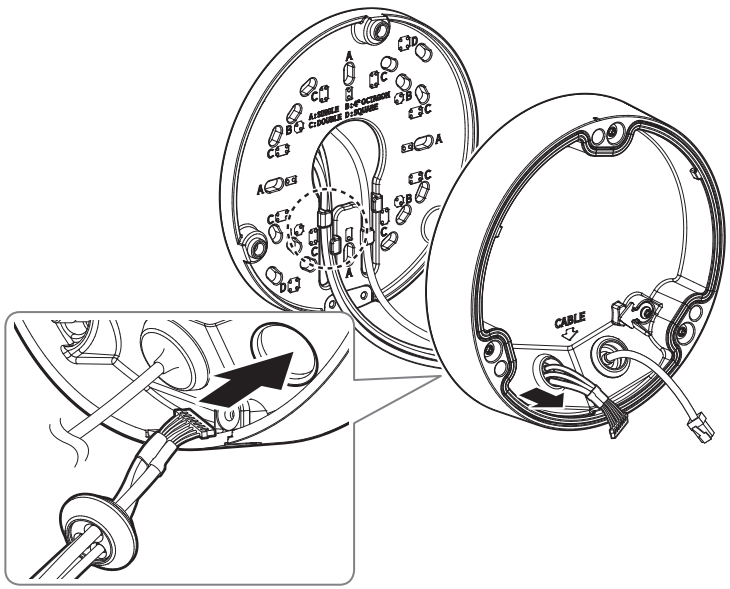


[Installing audio/alarm cables]

1. As shown in the figure below, remove the cable bushing from the bottom cover.

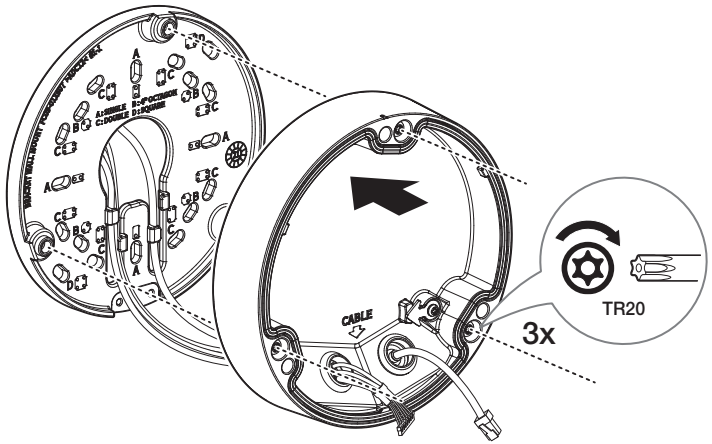


2. Mount the cable bushing of the provided audio/alarm cables to the Bottom cover.



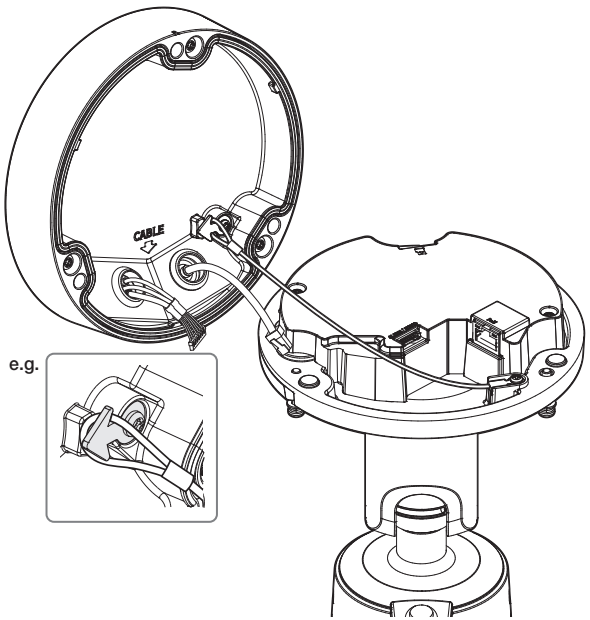
3. Join the Mount plate with the Bottom cover.

- When attaching the bottom cover, make sure that the cables pass through the cable fixing hooks of the plate.

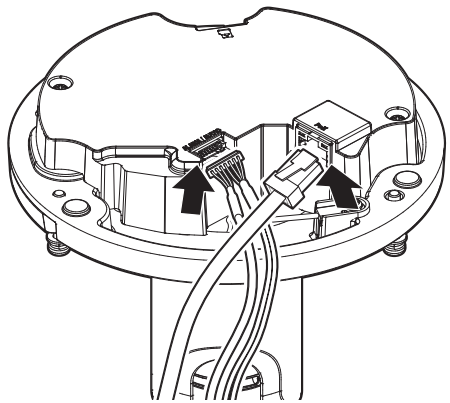


Installing the camera body

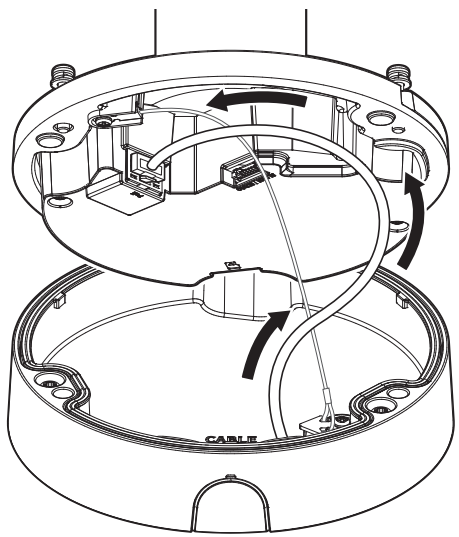
1. Hang the safety cable up on a hook that looks like an arrow in the Bottom cover.



2. Connect the network cable and audio/alarm cable connector to each port of the camera body.

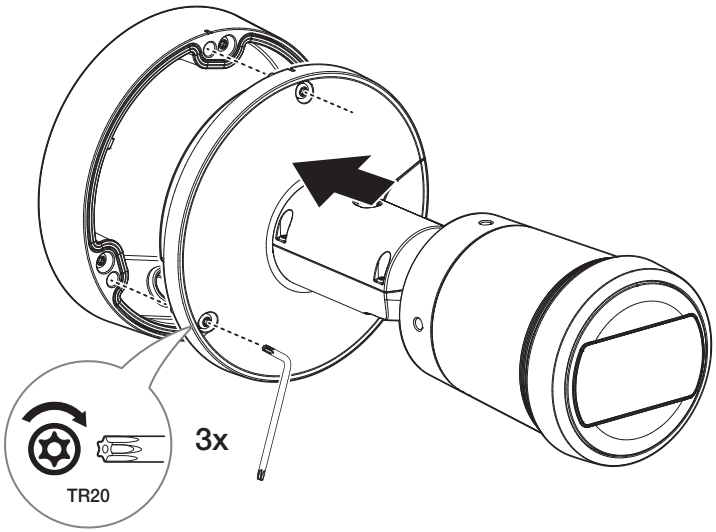


- Place the network cable in a circular form as shown in the figure below.



3. Join the camera body with the Bottom cover.

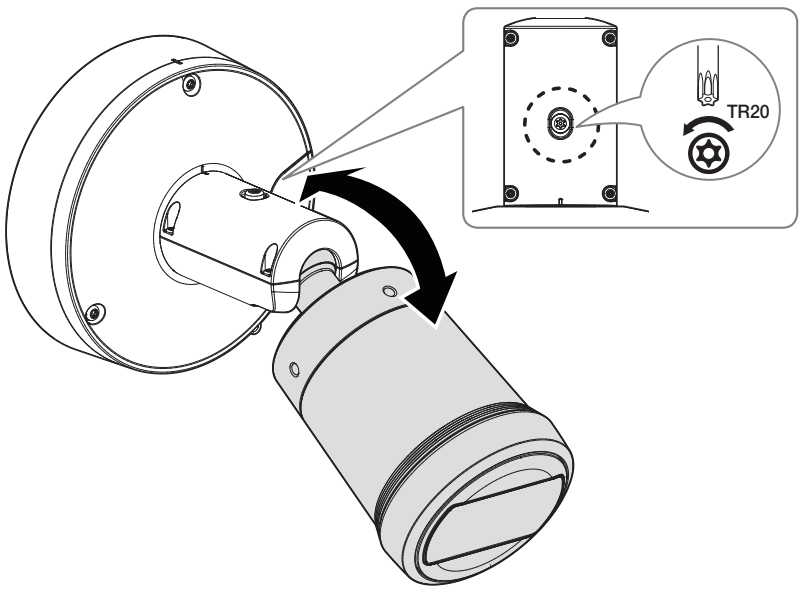
- Make sure to firmly tighten the fastening screws so that there is no water damage issue.



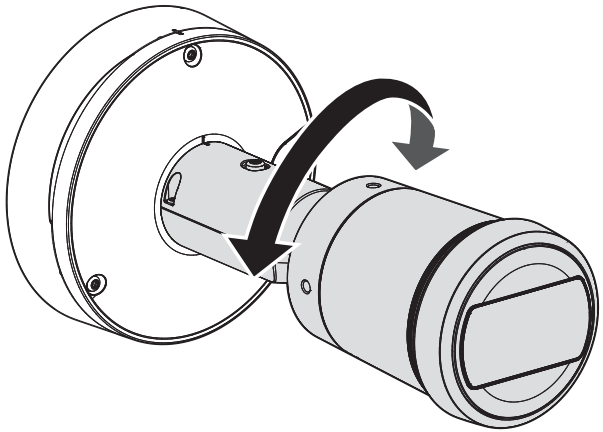
4. Adjust the camera direction using the Torx. wrench.

- Note that it is not necessary to loosen the screws completely.
- Connect a monitoring device to the USB port and then monitor and adjust it.

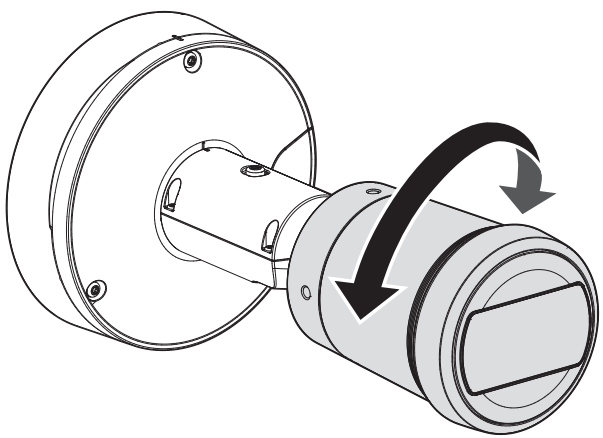
- When you adjust the camera position using a bracket, please loosen the bracket screw, adjust the camera, and tighten it. If you attempt to adjust it forcibly while the screw is tight, it may result in a scratch or other problems.



Tilt

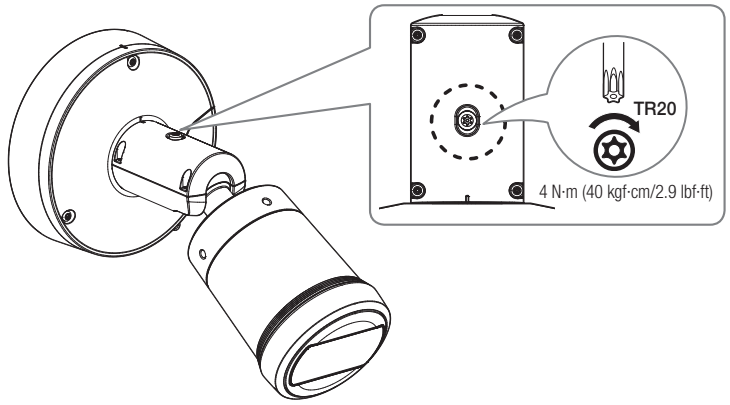


Pan

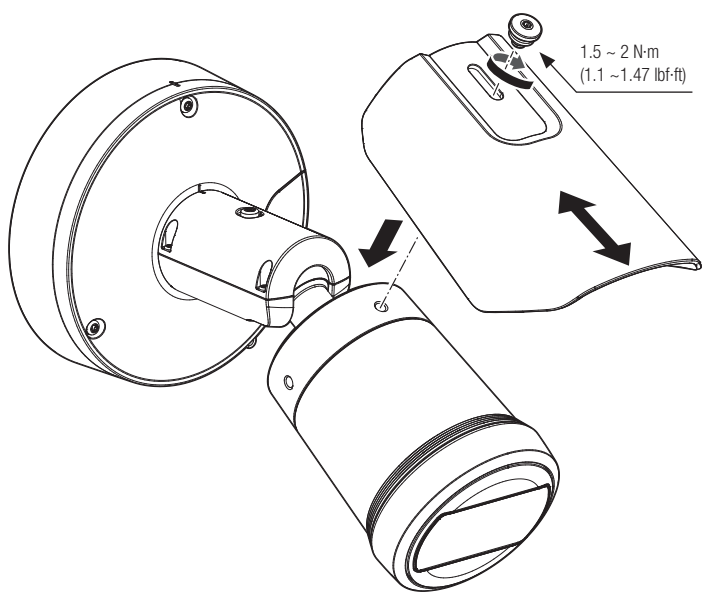


Lens rotation

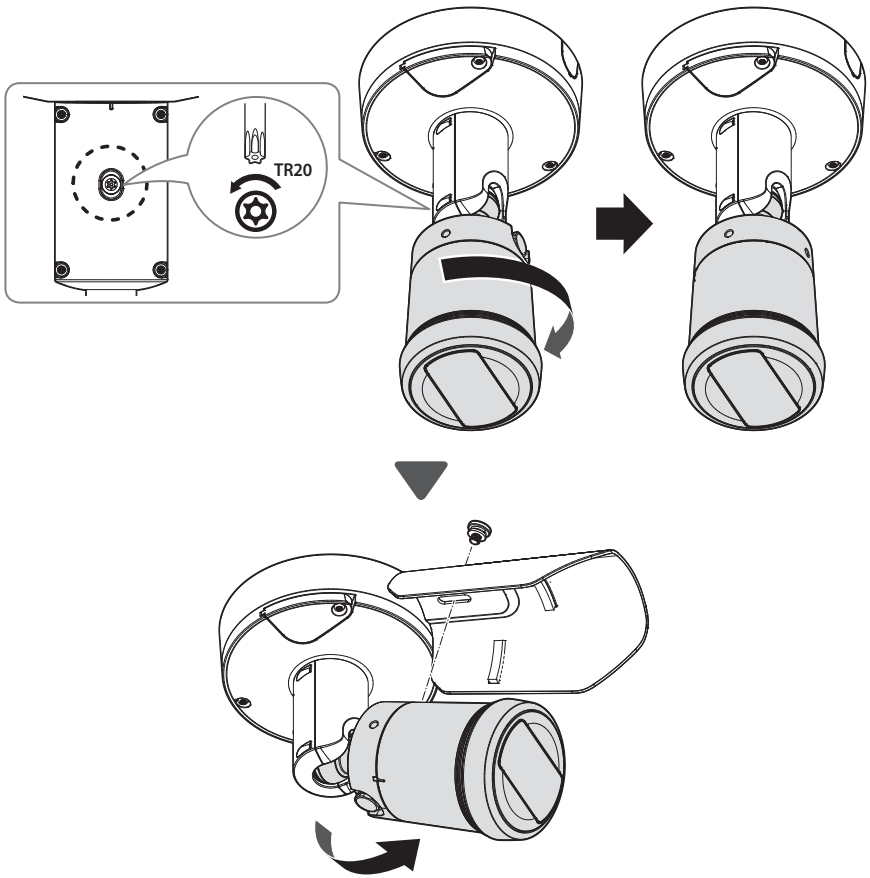
5. When adjusting the lens rotation is complete, re-fasten the lens rotation adjustment screws to secure the angle.



6. Use the sunshield mounting screws and tooth washers to join the sunshield to the camera body.



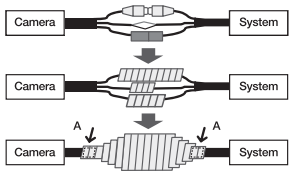
- When installing the camera on the ceiling, rotate the lens rotation 180° before use.



Waterproofing of cable connections

When installing the camera, please waterproof it with waterproof butyl rubber tape (can be purchased in stores) so that water does not leak from the gap of the cable connected to the outside.

1. Connect network and alarm/audio cables, etc.
2. Wrap the black cable jacket (Area A) and the cable connection area with waterproof (butyl rubber) tape so that more than half of the butyl rubber tape is overlapped.

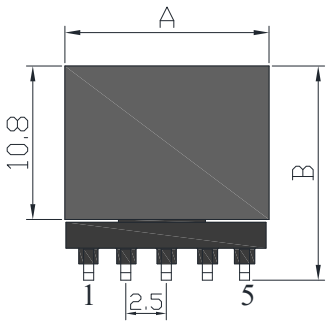


- If the cable jacket is not waterproofed properly, then it can directly cause leakage. Make sure to protect the cable with a dense layer of taping.
- Waterproof butyl tape is made of butyl rubber that can be stretched to twice its normal length.

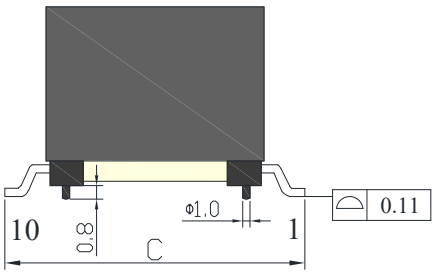
The following Page(s) are related to Miscellaneous-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

2. EXTERNAL DIMENSIONS: UNIT: mm

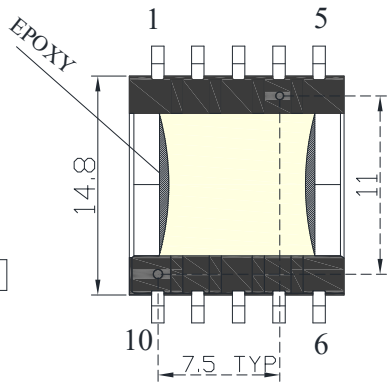
FRONT VIEW



SIDE VIEW



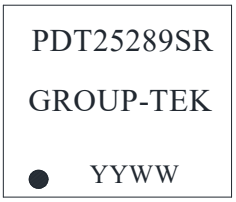
BOTTOM VIEW



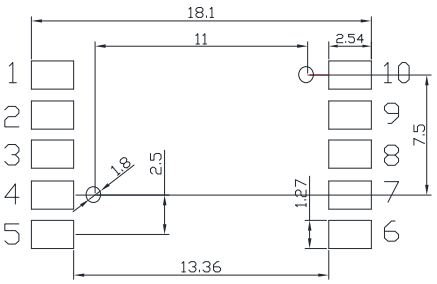
Unit: mm Tolerances:

A Max	B Max	C Max
15.0	14.0	17.8

Marking information



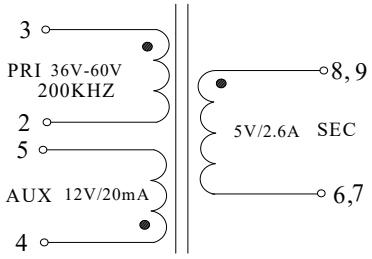
Suggested PCB Pad Layout



3. Electrical Characteristics :

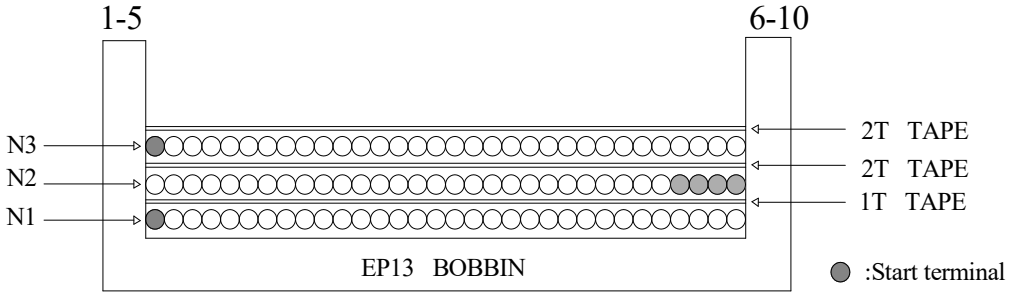
Specification: at 25 degree C. Operating Temperature -40 to +125°C			
NO	ITEM	TEST CONDITION	SPECIFICATION
1	Inductance	((3-2)) @25℃ 100KHZ/1V	77uH±15%
		(4-5) @25℃ 100KHZ/1V	19uH±20%
		(8,9-6,7)@25℃ 100KHZ/1V	4uH±20%
2	Leakage Inductance	(3-2)@25℃200KHZ/0.1V shorted other pins	1.5uH MAX
3	DCR	(3-2)@25℃	180mΩ MAX.
4		(8,9-6,7)@25℃	15mΩ MAX.
5		(4-5)@25℃	280mΩ MAX.
7	TURNS RATIO	PRI（3-2）: SEC（8,9-6,7）: AUX（4-5）	22：5：11±2%
8	HI-POT:	PRI TO SEC	1500V/AC/1mA 2Sec

5. Schematic:



NOTE: PIN8,9&6,7 must shorted on PCB

6. Winding detail:



7. Winding Information:

WINDING SEQ.	ST-FN	WIRE/FOIL	TURNS	WRAP INSUL.	MARGIN TAPE	SLEEVE	NOTE
1	3--2	0.28mm2UEW	22TS	1T w8.0mm	N/A	N/A	1,2
2	8--6	4*0.3mm2UEW	5TS	2T w8.0mm	N/A	N/A	1,2
3	9--7						
4	4--5	0.28mm 2UEW	11TS	2T w8.0mm	N/A	N/A	1,2

NOTE :

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

2.Clockwise and spaced winding

8. Material List:

NO	ITEM	MATERIALS	SUPPLIERS/MANUFACTURERS	UL FILE NO.
1	BOBBIN	PHENOLIC PM9630 UL RATING: 94V-0	Sumitomo Bakelite CO.,LTD.	E41429
2	CORE	E P13 TP44/PG242	Dongguan zhuoci Electronics CO.,LTD	N/A
3	WIRE	POLYURETHANE ENAMELED TYPE NO: 2UEW THERMAL RATING:180°C	Shing Shun Magnet wire(HuiZhou) Co.,Ltd	E255839
4	TAPE	ADHESIVE POLYESTER TAPE TYPE NO.:W 001 THERMAL RATING:130°C	Jingjiang 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	E218090
7	Case	PHENOLIC T375J UL RATING: 94V-0 THERMAL RATING:150°C	Chang Chun Plastic CO LTD	QMFZ2.E59481



NETWORK CAMERA,XNO-A9014R

PoE(48V ⎓) 0.2A

M/C: XNO-A9014R/KEX Fac.ID:D

2026.02 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 and IP67

Photographs-01 Page-1



Photographs-02 Page-1



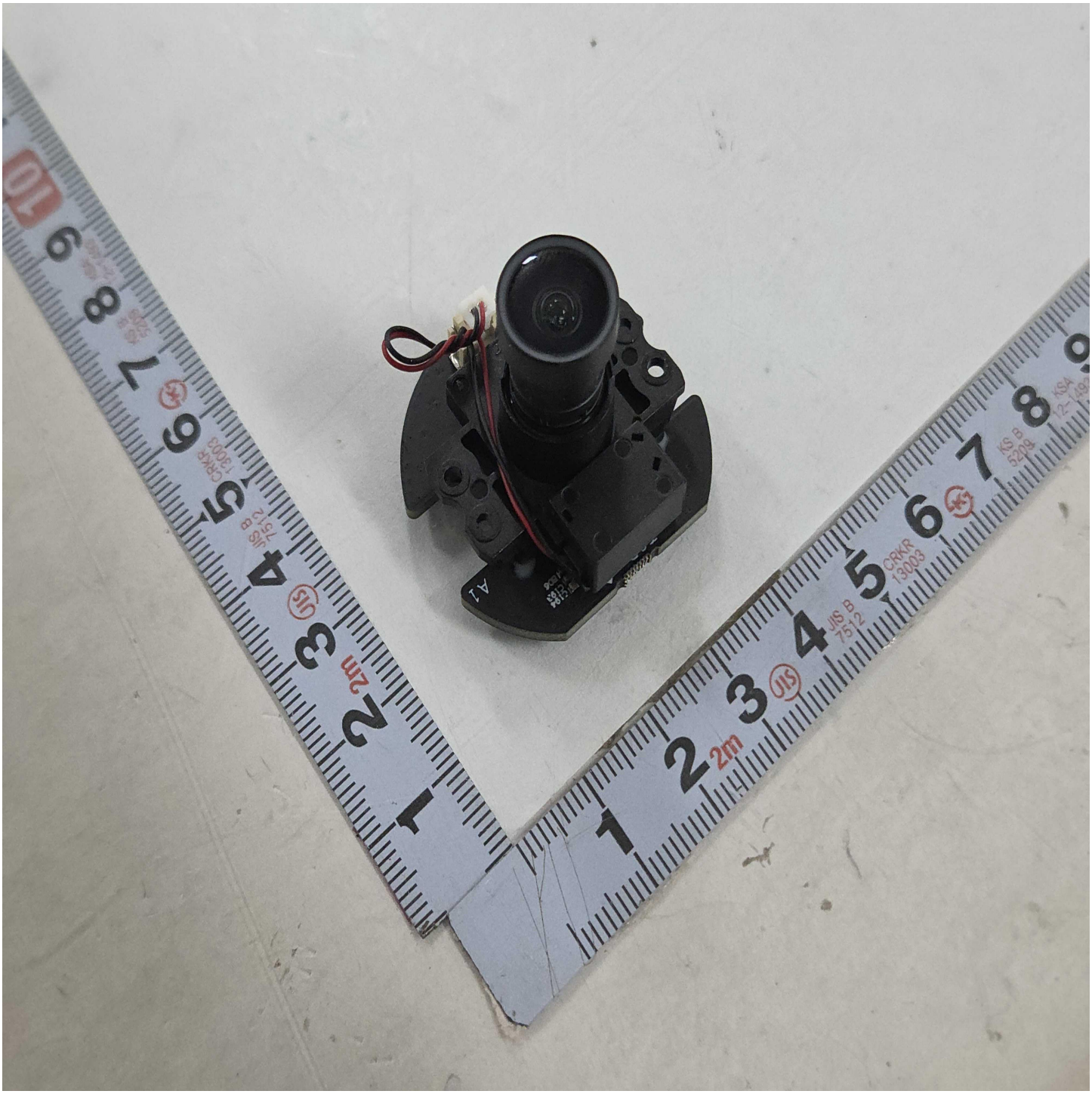
Photographs-04 Page-1



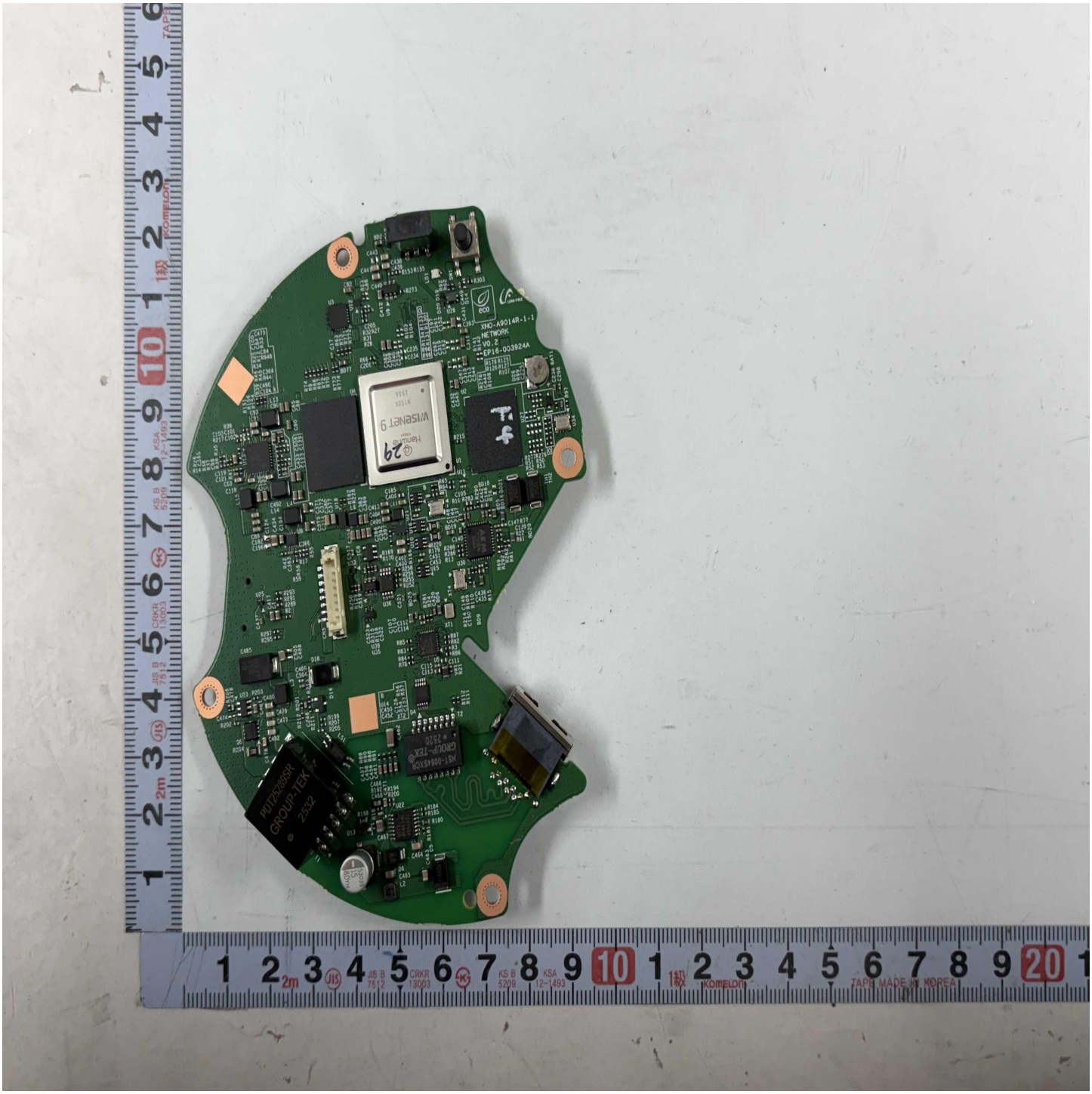
Photographs-05 Page-1



Photographs-06 Page-1



Photographs-07 Page-1



Photographs-08 Page-1

