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-A6296-DescriptionUL
Figure-11-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:	SPS-A8016
Rating:	PoE (53 Vdc), 0.38 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.

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Prepared By: Lawrence Lee / Project Handler Reviewed By: SeulKi Park / 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 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

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 .....:	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) .....:	55
IP protection class .....:	IPX0
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) .....:	1.23

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 : Exempt
- The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual

Additional Information

4792173515
- Maximum Normal Load: Continuous operation. (Operate the camera through networked equipment with white LED ON and speaker load 1/8 Pmax, volume 1)

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, frequency, current)
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.at 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
Enclosure TOP Lens cover (Plastic)	MITSUBISHI ENGINEERING-PLASTICS CORP	S-2000V+(f1) (S2000VUR)	Min. 2.0 mm thickness, rated Min. V-2, 115 deg. C.	QMFZ2	UL (E41179)	
Enclosure – Between Lens to LED (Plastic)	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min. 1.5 mm thickness, rated Min. V-0, 130 deg. C.	QMFZ2	UL (E115797)	
Enclosure TOP LED cover (Plastic)	LG CHEM LTD	LUMIPLAS LD7(xx)0(m) (LD7700)	Min. 1.5 mm thickness, rated Min. V-2, 80 deg. C.	QMFZ2	UL (E67171)	
Enclosure Top cover (Plastic)	LG CHEM LTD	LI996(&)	Min. 2.0 mm thickness, rated Min. V-0, 50 deg. C.	QMFZ2	UL (E67171)	
Enclosure Top (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 2.5 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Enclosure - Bottom (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 2.5 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Mounting bracket (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 2.5 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Internal Plastic Part Materials	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min. 1.5 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	
Transformer (T1)	SHENZHEN GROUP-TEK ELECTRONICS	PDT25125SR	41.0 uH, 130 deg. C, See enclosure for more detail.	-	Tested in equipment	

	TECHNOLOGY CO., LTD					
Line filter (L12)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD	PCM1206-752S	7.5 mH, 130 deg. C, See enclosures for more detail.	-	Tested in equipment	
Opto-coupler (LS1)	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	KCP357NT	Isolation Voltage: 3750, Max. operation Temperature: 115 deg. C	FPQU2	UL (E169586)	
Opto-coupler (LS1) - Alternate	XSEMITRON TECHNOLOGY (HONGKONG) LIMITED	XSC3H7(M)(G)(x) (XSC3H7C)	Isolation Voltage: 3750, Max. operation Temperature: 110 deg. C	FPQU2	UL (E551213)	
Rechargeable battery (BAT1)	SEIKO INSTRUMENTS INC MICRO-ENERGY DIV	ML414H	Lithium, Rechargeable, Max Charging Voltage: 3.4 Vdc, Max Charging current: 300 mA	BBCV2	UL (MH15628)	
Lithium Battery Protection Circuit (BAT1)	Interchangeable	Interchangeable	Diode (D26, 80 V, 150 mA) and Resistor (R197, 3.3 Kohm) in series	-	Tested in equipment	
Thermal pad	KOMOTECH	KGP-1(a)	Min. 1.0 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL (E245303)	
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	
Label	Interchangeable	Interchangeable	Suitable for use on each type of surface to which applied, rated for maximum and	PGDQ2 or PGJI2	UL	

			minimum surface temperature specified, or Min. 55 deg. C if not specified.			
LED (LD1 ~ LD18)	Cybright IR LED Technology Co.,Ltd	XB-1616RGBB17-D1	VF = Max. 3.3 V, IF= 30 mA	-	Tested in equipment	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	External View - 1
Photographs	03-02	External View - 2
Photographs	03-03	Interanl View
Photographs	03-04	LED Board
Photographs	03-05	Lens Module
Photographs	03-06	Main board - Top
Photographs	03-07	Main board - Bottom
Manuals	06-01	Manual
Miscellaneous	07-01	Transformer (T1) Specification
Miscellaneous	07-02	Line Filter (L12) Specifiation
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(53Vdc), 0.38A.
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. Although a rapid change in temperature could cause frost inside the dome, there will be no problem with the video.
23. Be aware that sound classification may be temporarily limited while the speaker is in use.
24. The operating temperature of the product is -20°C to +55°C (-4°F ~ +131°F).

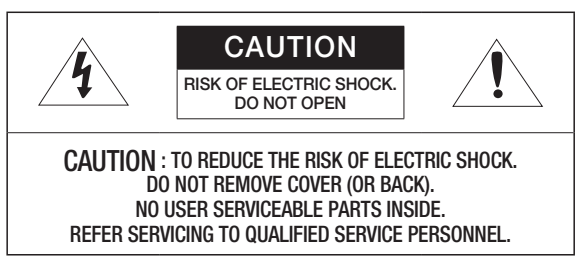
WARNING

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 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.

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 802.3at 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.

RECOMMENDED PC SPECIFICATIONS

- CPU : Intel(R) Core(TM) i7 3.4 GHz or higher
- RAM : 8G or higher
- Recommended browser: Chrome
- Supported browsers: Chrome, Safari, Firefox, MS Edge(chromium based)
- Supported OS : Windows, Mac, Linux, Android, iOS, Chrome
- Verification environment
  - Windows 10: chrome Latest version, Firefox Latest version, MS edge Latest version
  - Mac latest version and version being supported
    ref.) https://en.wikipedia.org/wiki/MacOS

※ The video play performance of the web viewer depends on the performance of the user's CPU and GPU.

RECOMMENDED MICRO SD/SDHC/SDXC MEMORY CARD SPECIFICATIONS

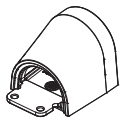
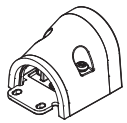
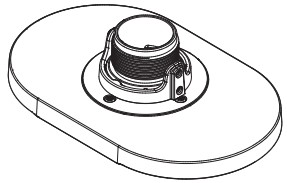
- Hanwha Vision Memory Card : SPP-E128G, SPP-E256G, SPP-E512G, SPP-E10T
- Recommended capacity : 16GB to 1TB(MLC type recommended)
- Recommended Manufacturers / Product Type :
  - SanDisk / High Endurance, MAX ENDURANCE
  - Western Digital / Purple QD101
  - Transcend / High Endurance

NAS RECOMMENDED SPECS

- Recommended capacity : 200GB or higher is recommended.
- For this camera, you are recommended to use a NAS with the following manufacturer's specs.
  Recommended products : QNAP NAS, Synology NAS

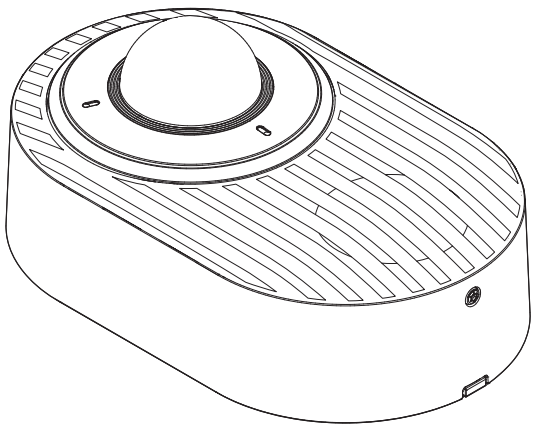
OPTIONAL ACCESSORIES FOR INSTALLATION

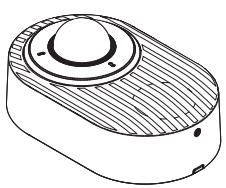
You can purchase appropriate optional accessories available.

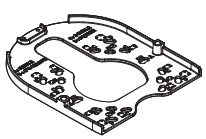
Conduit Adaptor	Hanging Mount
 SBP-060BA  SBP-061BA	 SBP-215HMWB

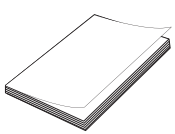
WHAT'S INCLUDED

Accessories may vary by country or region.







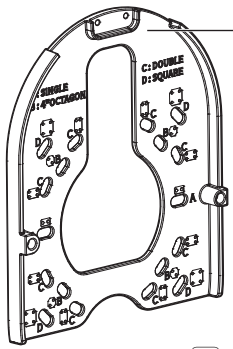




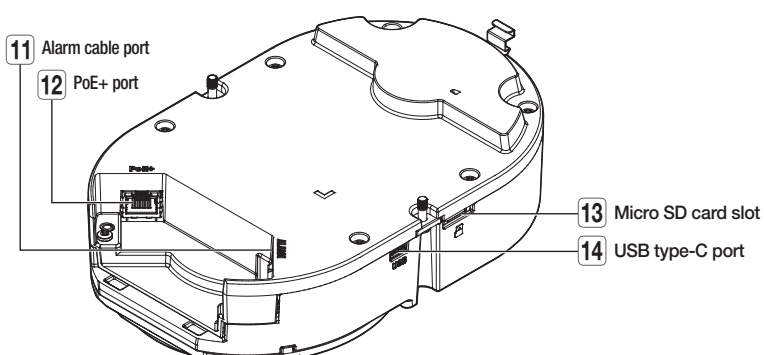


■ Use installation screws of at least M4, L30 for the installation of this product.

AT A GLANCE



1 Mount plateMount plate
2 Camera body
3 LED indicator
4 Built-in Mic
5 Lens
6 Camera case
SET button 7
Tampering switch 8
Speaker 9
Tampering switch depressor 10



11 Alarm cable port
12 PoE+ port
13 Micro SD card slot
14 USB type-C port

INSTALLATION

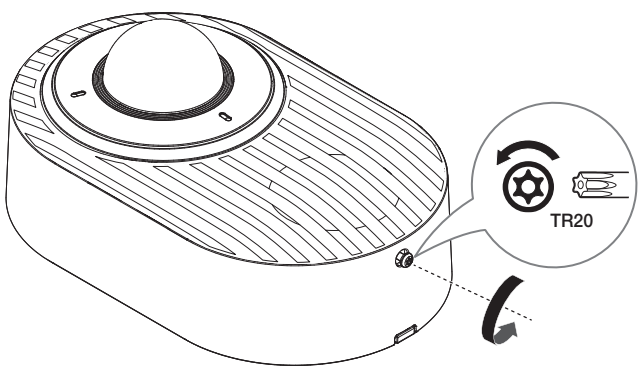
Precautions before installation

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

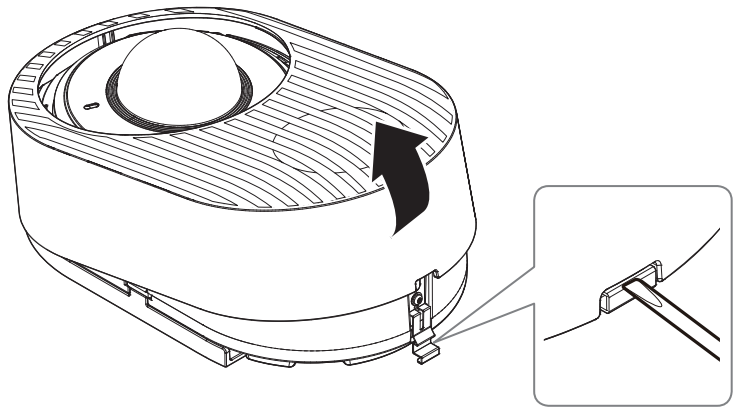
- Select an installation site that can hold at least 5 times the camera's weight.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site.
  And put aside personal belongings from the site, just in case.
- If the 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

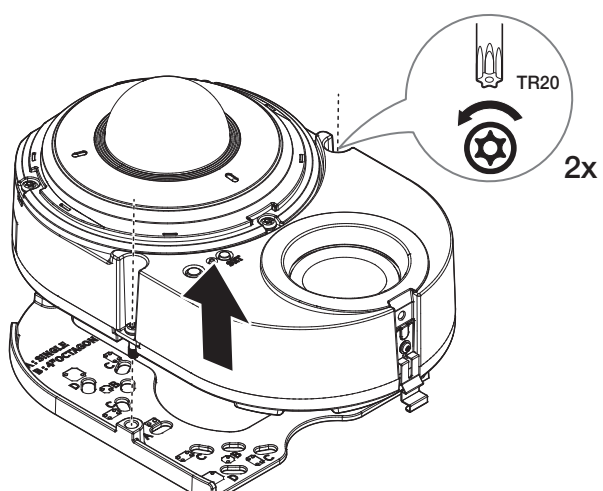
1. To detach the camera case, loosen the fastening screw at the bottom by turning it counterclockwise.



2. Detach the camera case by pushing the mounting clip using a flathead screwdriver.

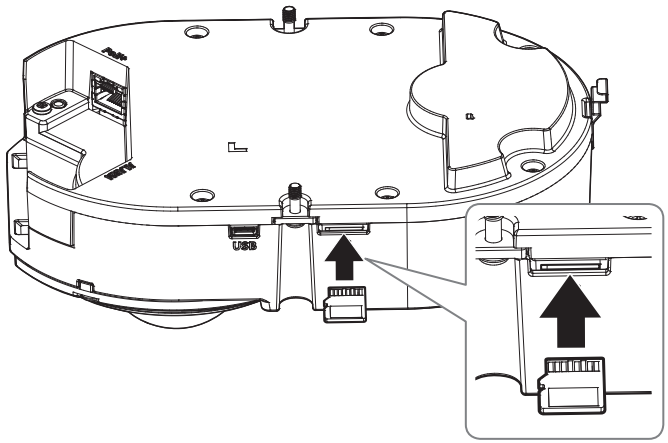


3. Detach the mount plate by loosening the fastening screw on the camera body counterclockwise.



Inserting a Micro SD card

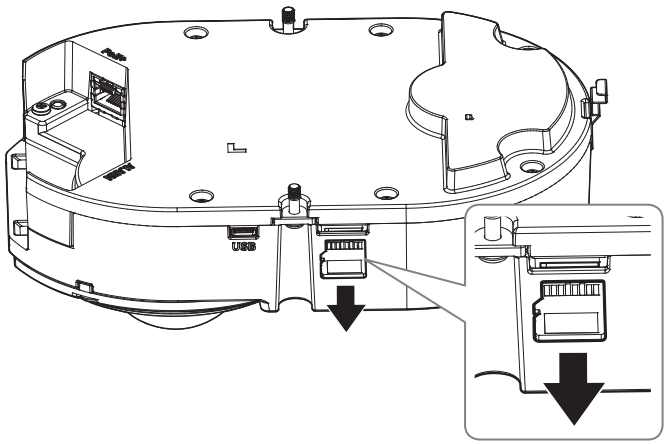
Insert a micro SD card in the direction of the arrow shown in the figure.



- Before installing the camera, the Micro SD card should be inserted while the power source and the body are separated.
- Do not forcefully insert it in the reverse direction. It might damage your Micro SD card and your product.
- When it rains or the humidity is high, insertion or ejection of a Micro SD card is not recommended.
- When installing/removing the Micro SD card, make sure you put the product body on a flat ground before working on it in order to prevent accidents due to loss or drop of any parts.
- Make sure the SD card clicks into place and is secured when pushed all the way in.
  If the SD card is not completely inserted, it may not be recognized properly and may be damaged when assembling the camera case.

Removing a Micro SD card

Gently press down on the exposed end of the Micro SD card as shown in the diagram to eject the Micro SD card from the slot.

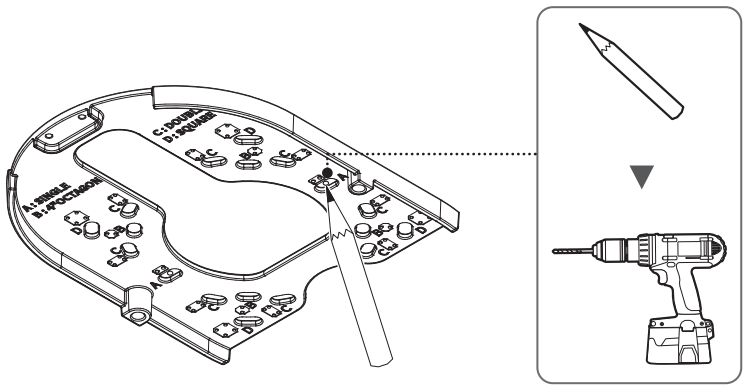


- Before removing the Micro SD card, in <**Setup** (⚙)>-<**Event**>-<**Storage**>, set the device to <**Off**> and press the [**Apply**] button and turn the camera off.
- If you turn off the camera or remove the Micro SD card that contains data from the product, the data may be lost or damaged.
  Installation

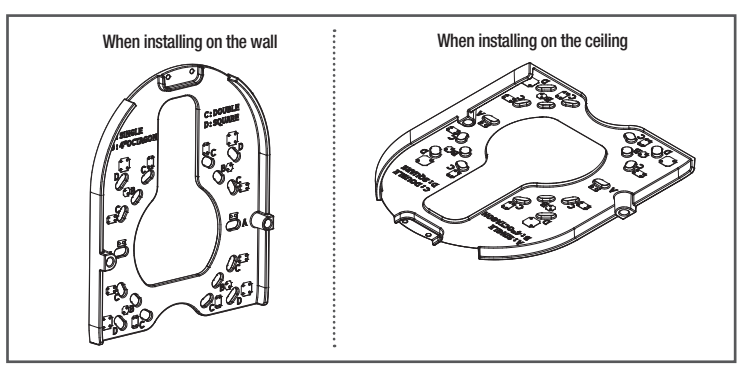
Installation (mount plate)

[Directly installing on wall/ceiling]

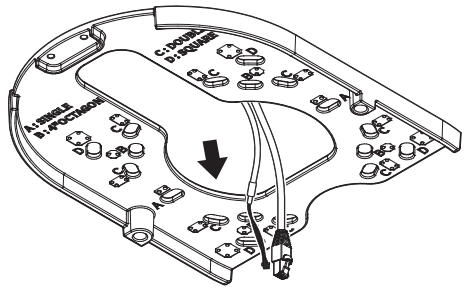
1. Place the mount plate on the desired location considering the direction to be monitored, mark the locations for the screw holes and cable holes, and then drill the holes.



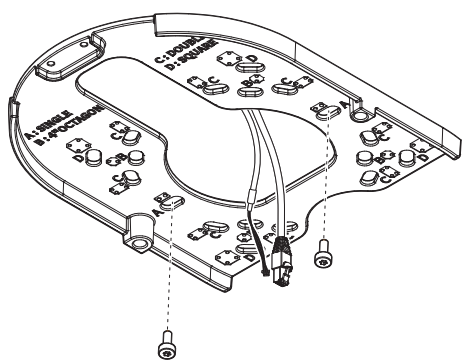
- When installing on the wall or the ceiling, check the direction of the mount plate.



2. Feed the required cables, either the alarm cable or the network cable, through the wiring hole in the mount plate.

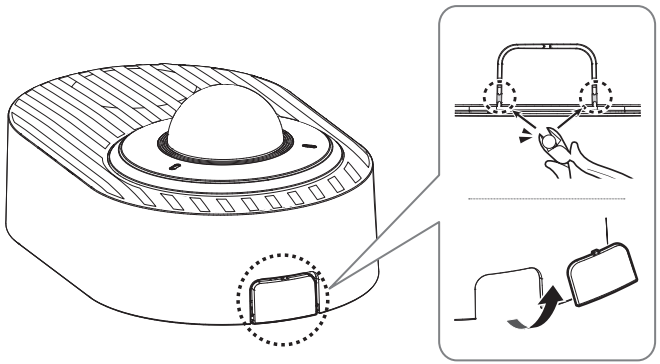


3. Fix the mount plate using appropriate screws. (M4)

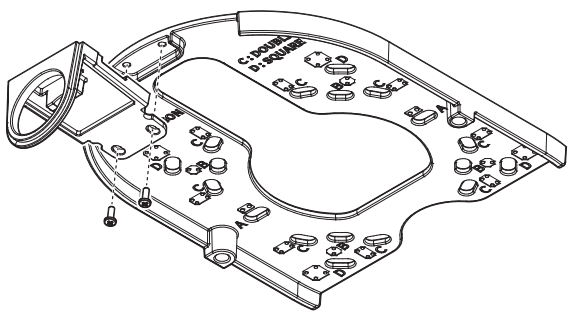


[Installing using pipe]

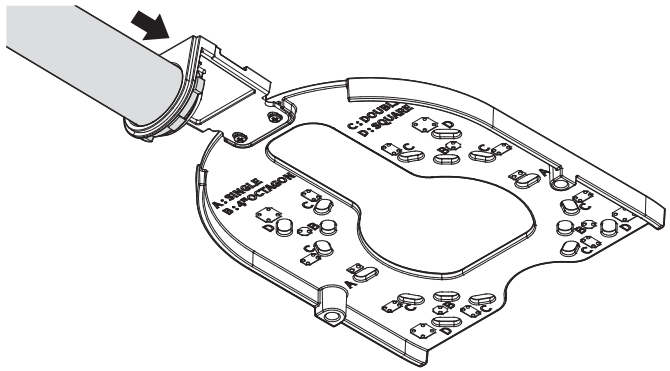
1. When installing with a pipe connection, detach the wiring hole cover from the body case.
   Detach the cover as shown in the figure, and proceed with the installation according to the instructions below.



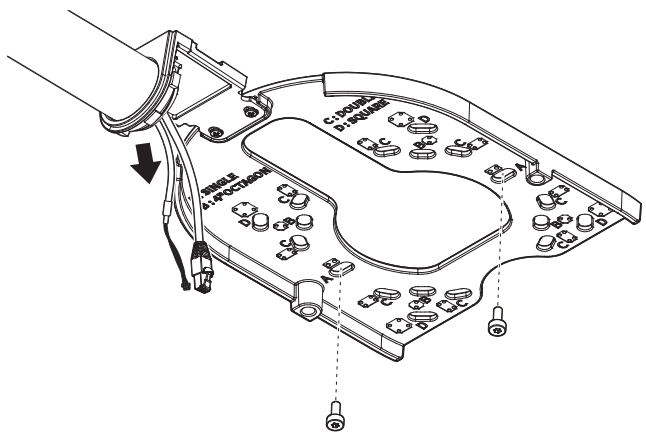
2. Join the conduit adaptor (separately sold) to the mount plate.



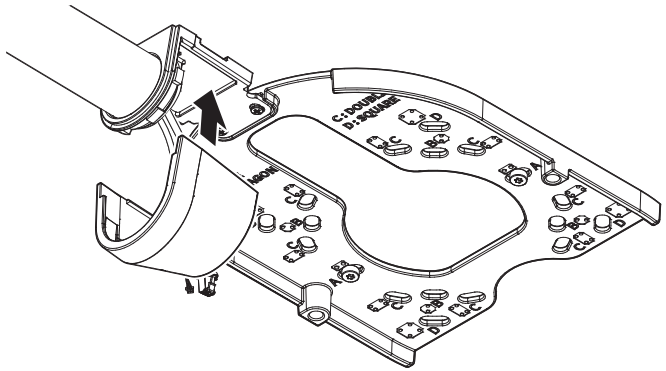
3. Mount the pipe to the conduit adaptor.



4. Fix the mount plate using appropriate screws.
5. Take out the necessary cables from among the alarm and network cables through the pipe.

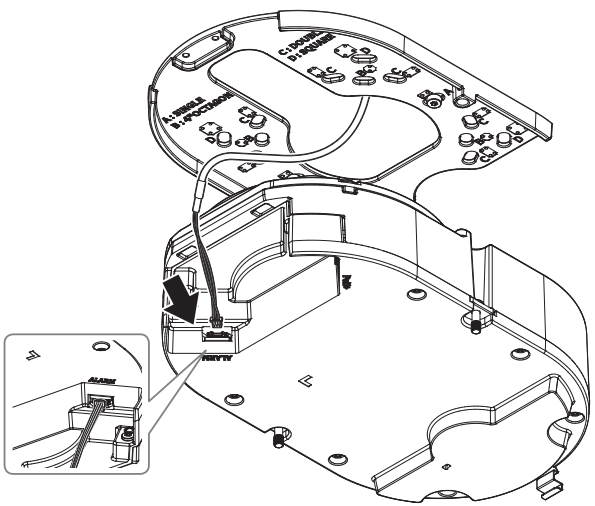


6. Attach the conduit adapter cover.

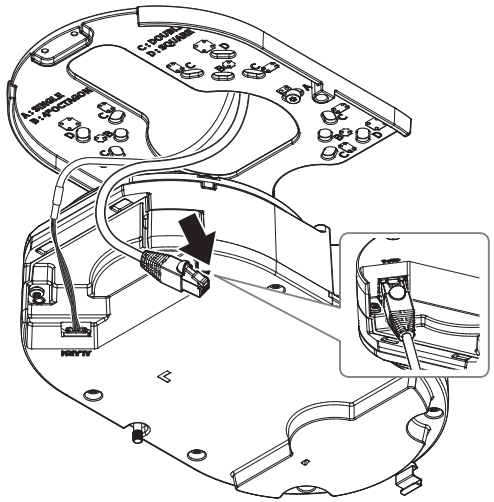


[Installing alarm/network cables]

1. Connect the connector of the alarm cable to its connection port.

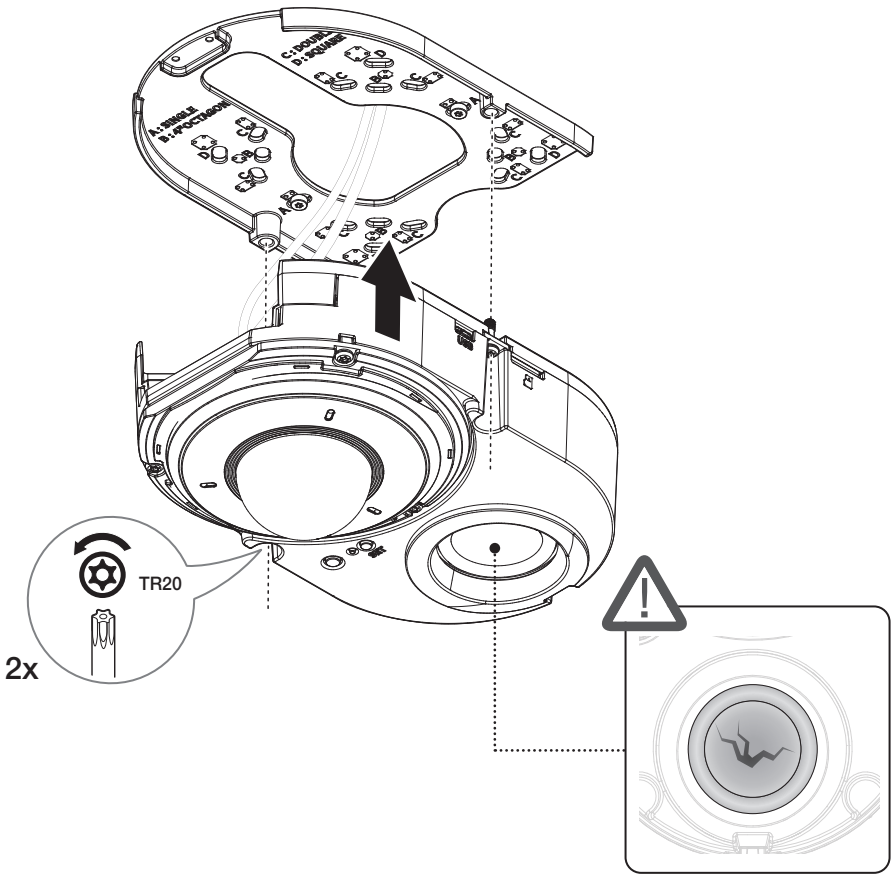


2. Connect the network cable jack to the PoE+ port of the audio beacon.



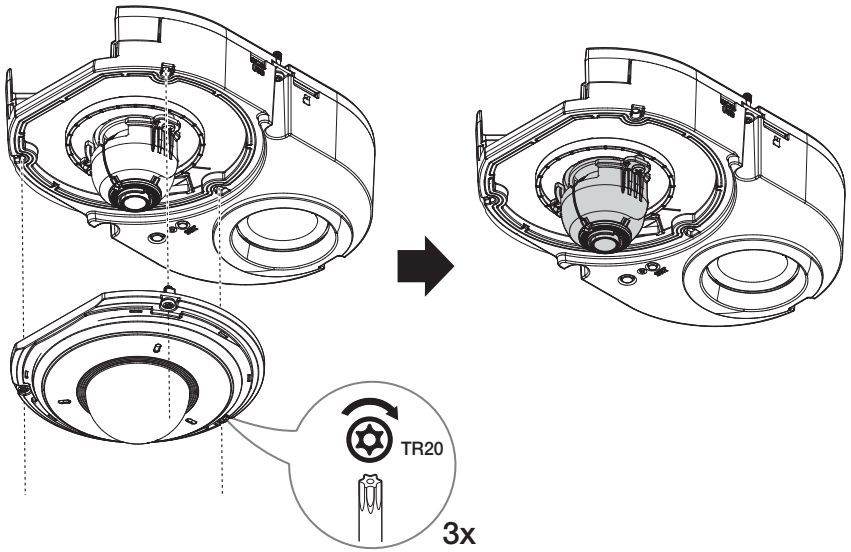
Installation (Camera body)

1. Attach the camera body to the mount plate.

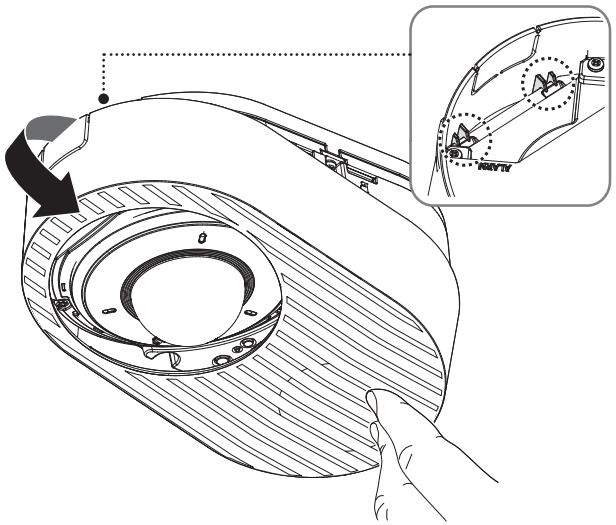


2. Connect a monitoring device to the USB Type-C port to check the monitoring direction of the camera. (Page 16)

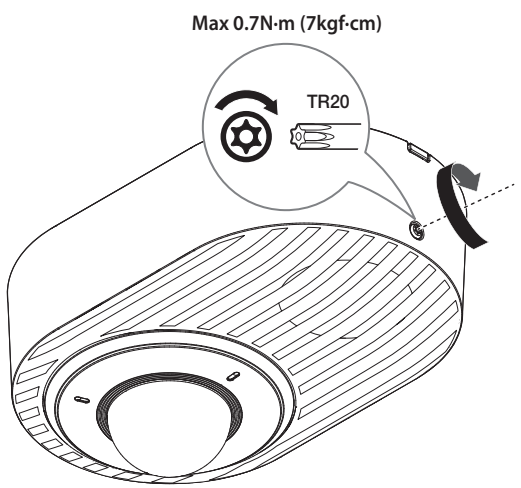
▪ If you need to adjust the monitoring direction of the camera, remove the dome cover and refer to "Adjusting the monitoring direction for the camera" to position the lens in the desired direction.(Page 15)



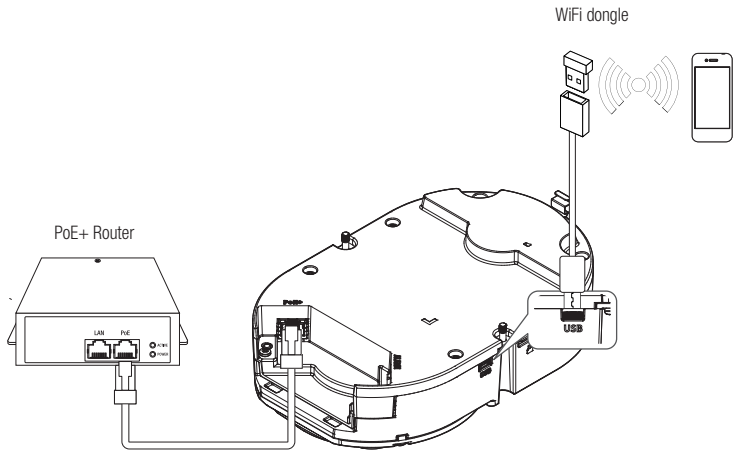
3. Align the joint of the camera body and the case, then press the case until the mounting clips click into place.



4. Tighten the fastening screw to fully assemble the camera case.



CONNECTING WITH OTHER DEVICE

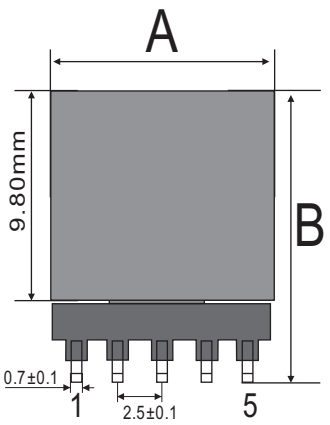


- The product USB Type-C port is used to communicate with the application installed in the smartphone by connecting the WiFi dongle.
  The USB Type-C port is intended solely for installation purposes and should not be used during product operation.

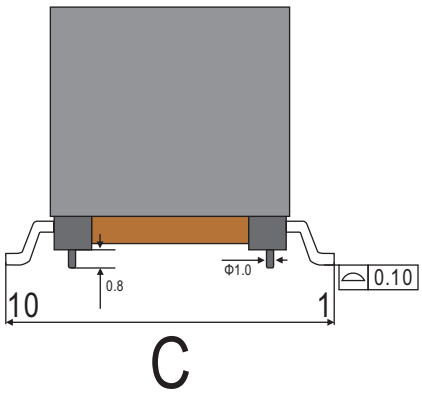
The following Page(s) are related to Miscellaneous-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

2. Mechanical Dimensions:

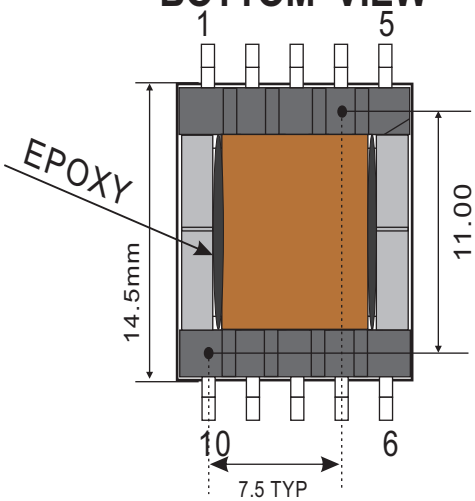
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



Note:

1.Wrap 2Ts of 7mm kapton tape around the finished part.

2.Fixed the cores with glue,and fixed the case with glue.

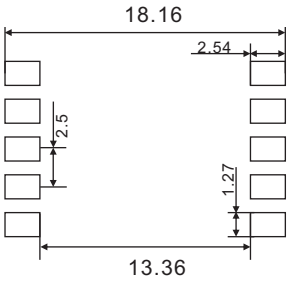
Unit: mm

A MAX	B MAX	C MAX
15.2	14.8	17.8

Laser Marking information

PDT25125SR GROUP-TEK
• YYWW

Suggested PCB Paad Layout





3.Electrical Characteristics :

Specifications: at 25℃. Operating Temperature -40 to +130°C			
NO.	ITEM	TEST CONDITION	SPECIFICATION
1	Inductance	(1-3) @100KHz, 1.0V	41.0uH ±10%.
2	Leakage Inductance	(1-3) @100KHz, 1.0V with shorted other pins.	0.67uH Max.
3	DCR	(1-3) @ 25°C	62.0mΩ Max.
4		(9-6) @ 25°C	20.0mΩ Max..
5		(10-7) @ 25°C	23.0mΩ Max.
6		(4-5) @ 25°C	120.0mΩ Max.
7	HI-POT	PRI TO SEC	225 0Vac 5mA 3Sec.
8	TURN RATIO	(1-3):(9-6):(10-7)	2.67:1.0:1.0±2%.
9	TURN RATIO	(1-3):(4-5)	2.67:1.0±2%.
10	INSULATION RESISTANCE	PRI--SEC DC500V	100MΩ Min.
11		PRI--CORE DC500V	100MΩ Min.
12		SEC--CORE DC500V	100MΩ Min.

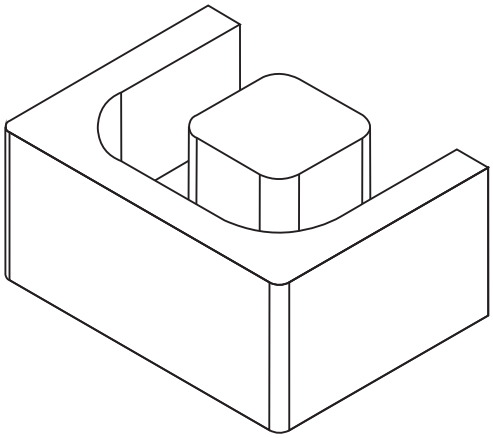
Remark:Product surface temperature:-40 to +130℃.

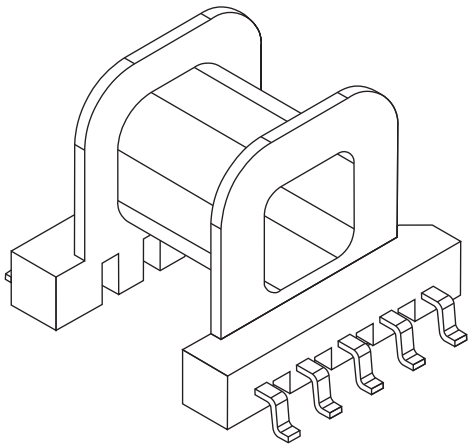
5.Winding Information:

WINDING SEQ.	ST-FN	WIRE/FOIL	TURNS	WRAP INSUL.	MARGIN TAPE	SLEEVE	NOTE
P1-1	1--3	4*0.21mm 2UEW	16	1T w8.0mm (kapton tape)	N/A	N/A	1
S1-1	9--6	4*0.27mm 2UEW (Red)	6	1T w8.0mm (kapton tape)	N/A	N/A	1
P1-2	1--3	2*0.21mm 2UEW (Natural)	16	1T w8.0mm (kapton tape)	N/A	N/A	1
S1-2	10--7	4*0.27mm 2UEW	6	1T w8.0mm (kapton tape)	N/A	N/A	1
P2	4--5	3*0.17mm 2UEW	6	2T w8.0mm (kapton tape)	N/A	N/A	1

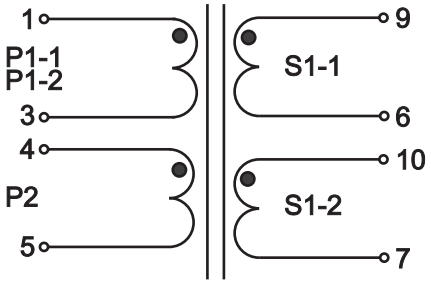
NOTE :

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

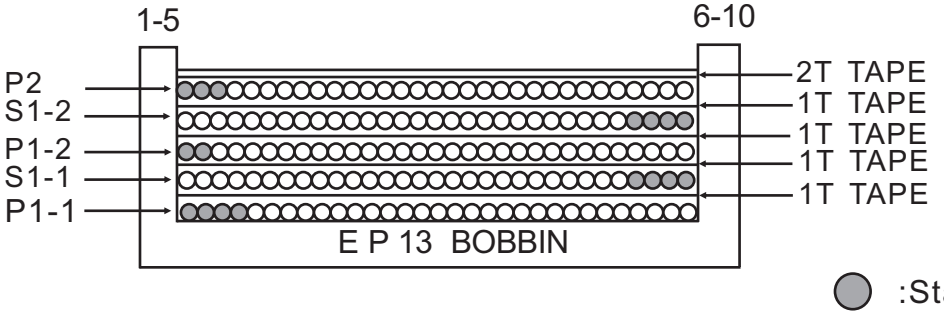




6.Schematic:



7.Winding construction



:Start terminal

8.Material List:

NO.	ITEM.	MATERIALS	SUPPLIERS/MANUFAXTURES	UL FILE NO.
1	BOBBIN	PHENOLIC T375J UL RATING: 94V-0 THERMAL RATING:150°C	CHANG CHUN PLASTIC CO LTD.	QMFZ2.E59481
2	CORE	Tp2A	TTS Technology Co.,Ltd.	N/A
3	WIRE	POLYURETHANE ENAMELED TYPE NO: 2UEW THERMAL RATING:180°C	ZHU HAI SUNTEK WIRE COLTD	OBMW2.E234867
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	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

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

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

二. ELECTRICAL CHARACTERISTICS:

PART NUMBER	INDUCTANCE @10KHz/0.3V (1-2)=(4-3) mH+50%-30%	Turn Ratio@ (1-2):(4-3)	Rated Current IRMS△T≤40℃ Typ	RDC(Ω) (1-4)=(2-3)Max	HI-POT pri-sec V 1mA/ 2Sec
PCM1206-752S	7.5mH	1:1±2%	1.0A	250mΩ	1500V/AC

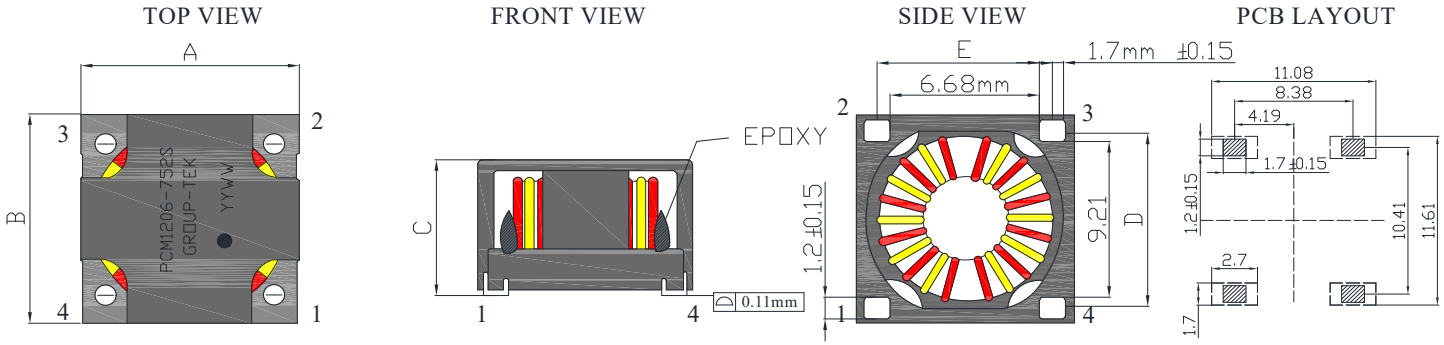
Operating temperature -40℃~ +125℃

CH3302 or HP4284……, RDC test equipments CH502…..

*. Inductance & Q value test condition Frequency 10KHz and 0.3Vrms at 25℃;

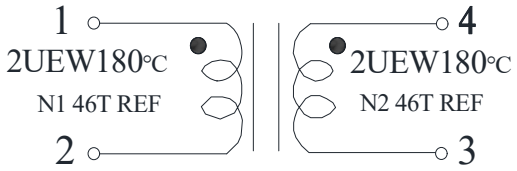
*. Storage temperature -25℃~+125℃, Humidity 20% to 70%RH.

三. EXTERNAL DIMENSIONS: UNIT: mm



Item	A	B	C	D	E
mm	12.6 ± 0.5	12.8 ± 0.5	6.0 ± 0.5	10.41 ± 0.5	8.38±0.5

四： CIRCUIT



五. MATERIAL LIST:

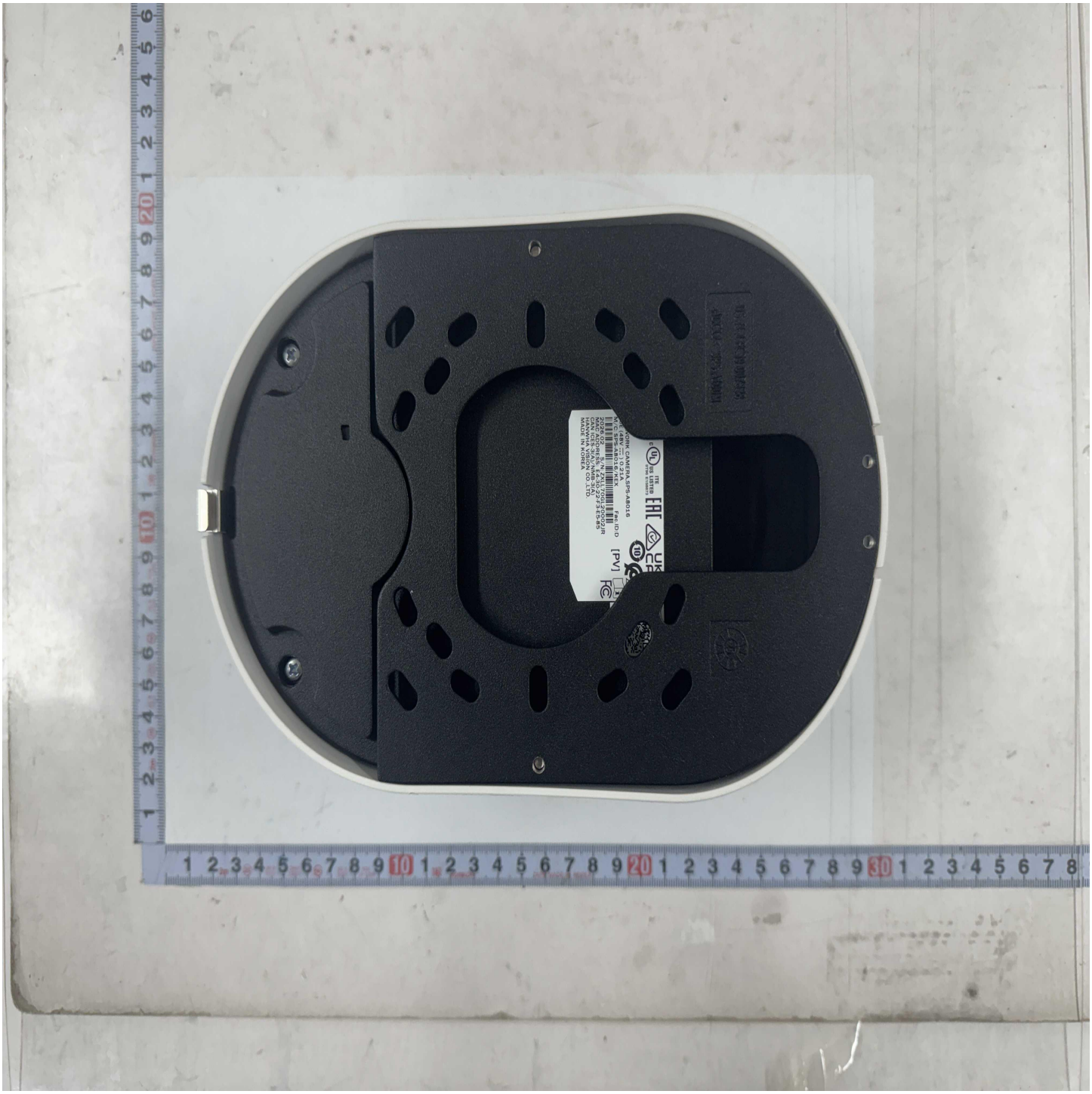
NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL	UL File no.
1	CASE	PHENOLIC PM9630 UL RATING: 94V-0	Sumitomo Bakelite CO.,LTD	E41429
2	CORE	Mn-Zn T9*5*3 10K	HUIZHOU KELI MAGNETICS CO ,LTD	N/A
3	WIRE	POLYURETHANE ENAMELED TYPE NO: 2UEW THERMAL RATING:180° C	.Shing Shun Magnet wire (hui zhou)co,Ltd	E255839
4	SOLDER	SN99.3%/CU0.7%	Gaoxin stannum industry co,ltd	N/A
5	Glue	E-500(XX)	Dong Guan city eatto electronic material Co.,Ltd	E218090


ITE
c UL us LISTED
9T96 E158873
UK
CA
10
NETWORK CAMERA,SPS-A8016
PoE (53V ⎓) 0.38A
M/C: SPS-A8016/KEX Fac.ID:D
DATE 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

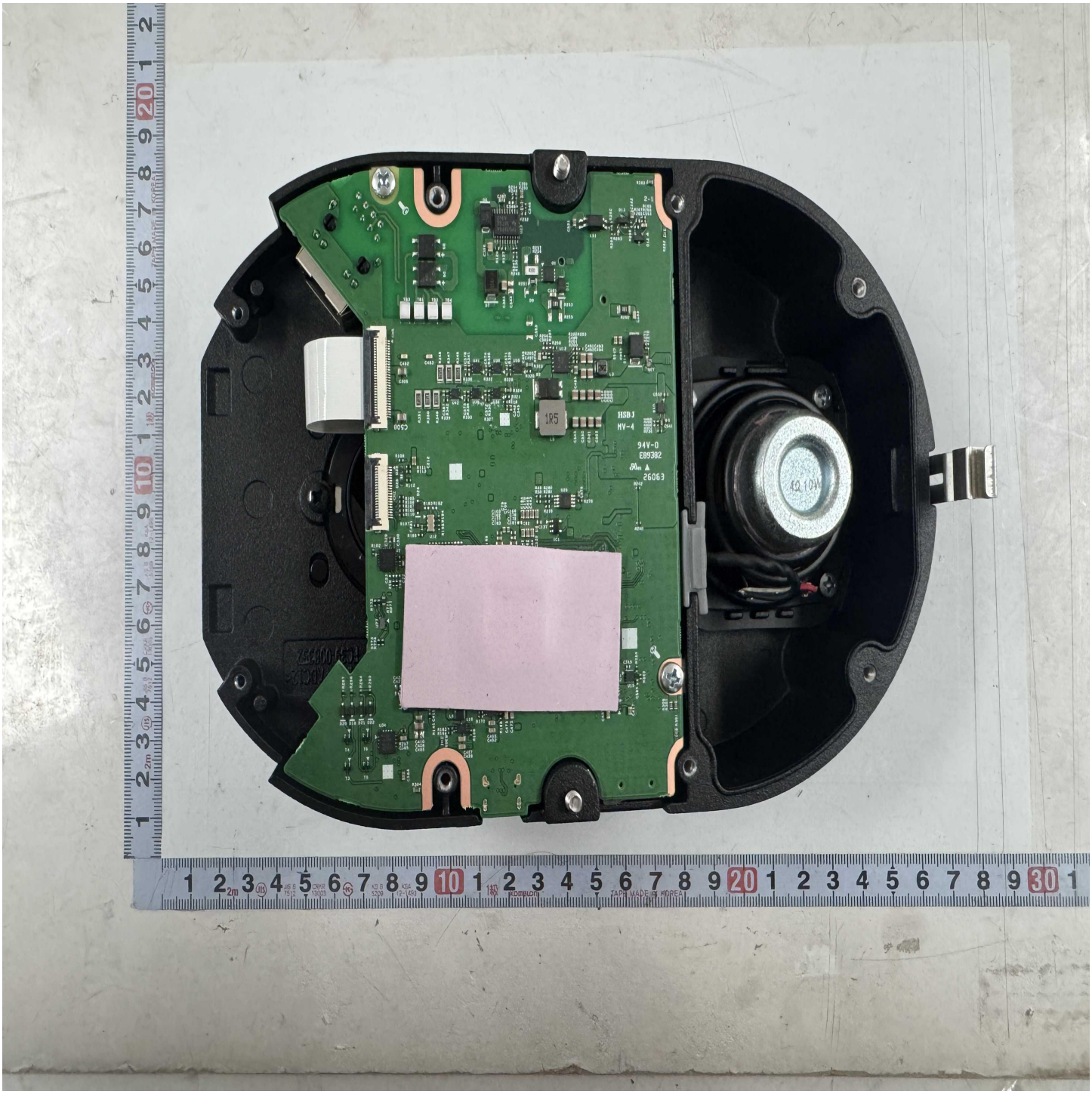
Photographs-01 Page-1



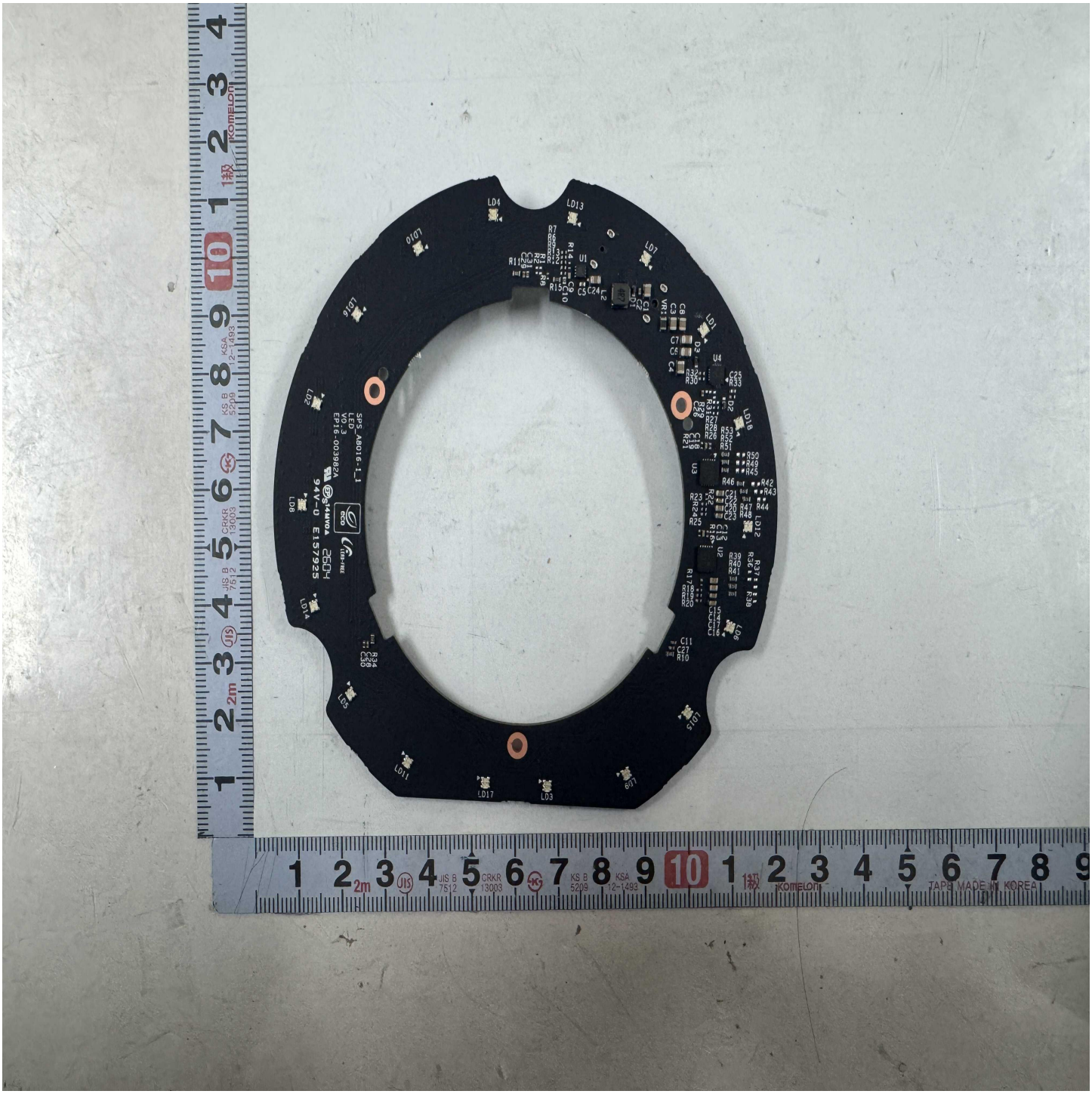
Photographs-02 Page-1



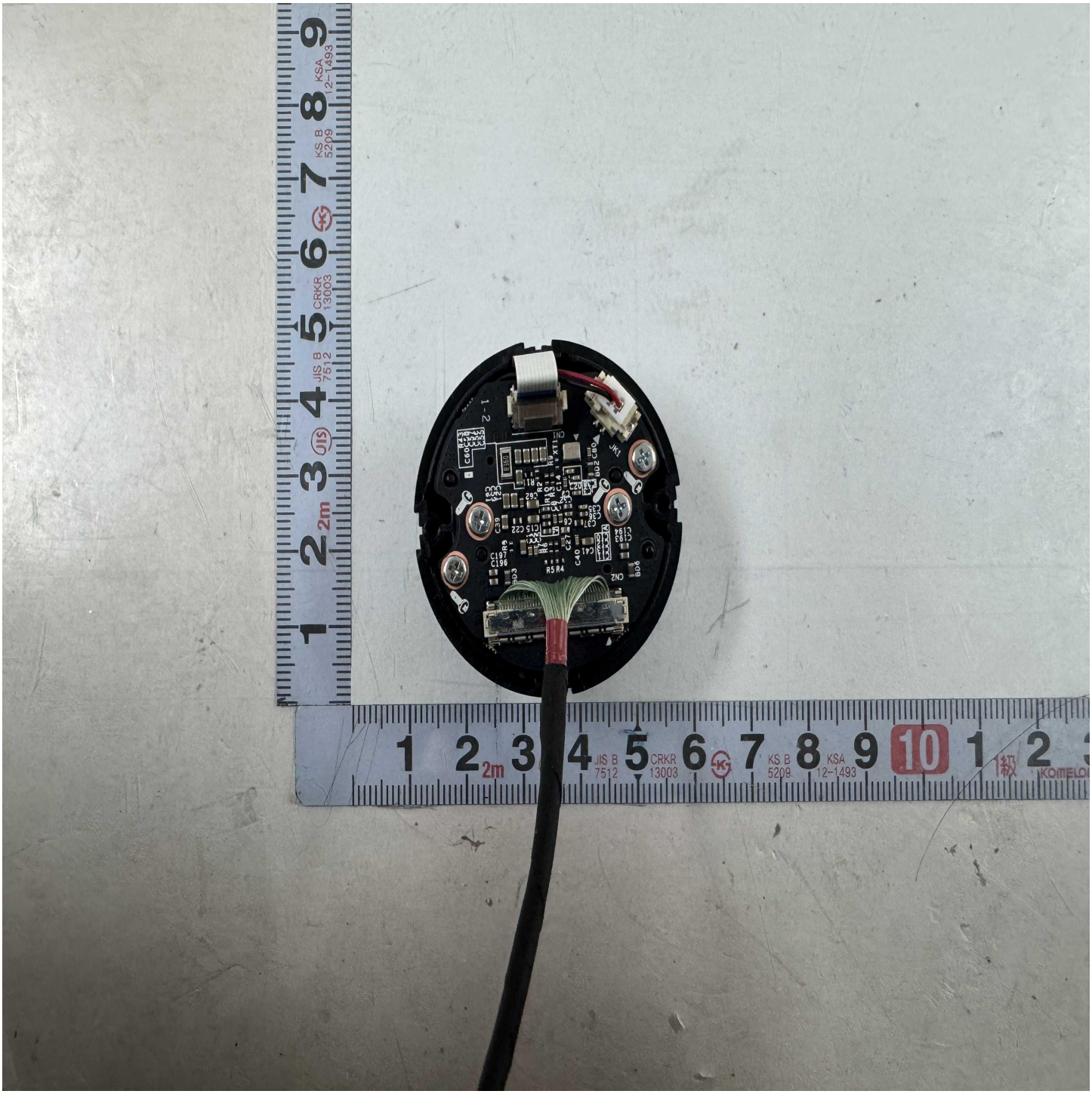
Photographs-03 Page-1



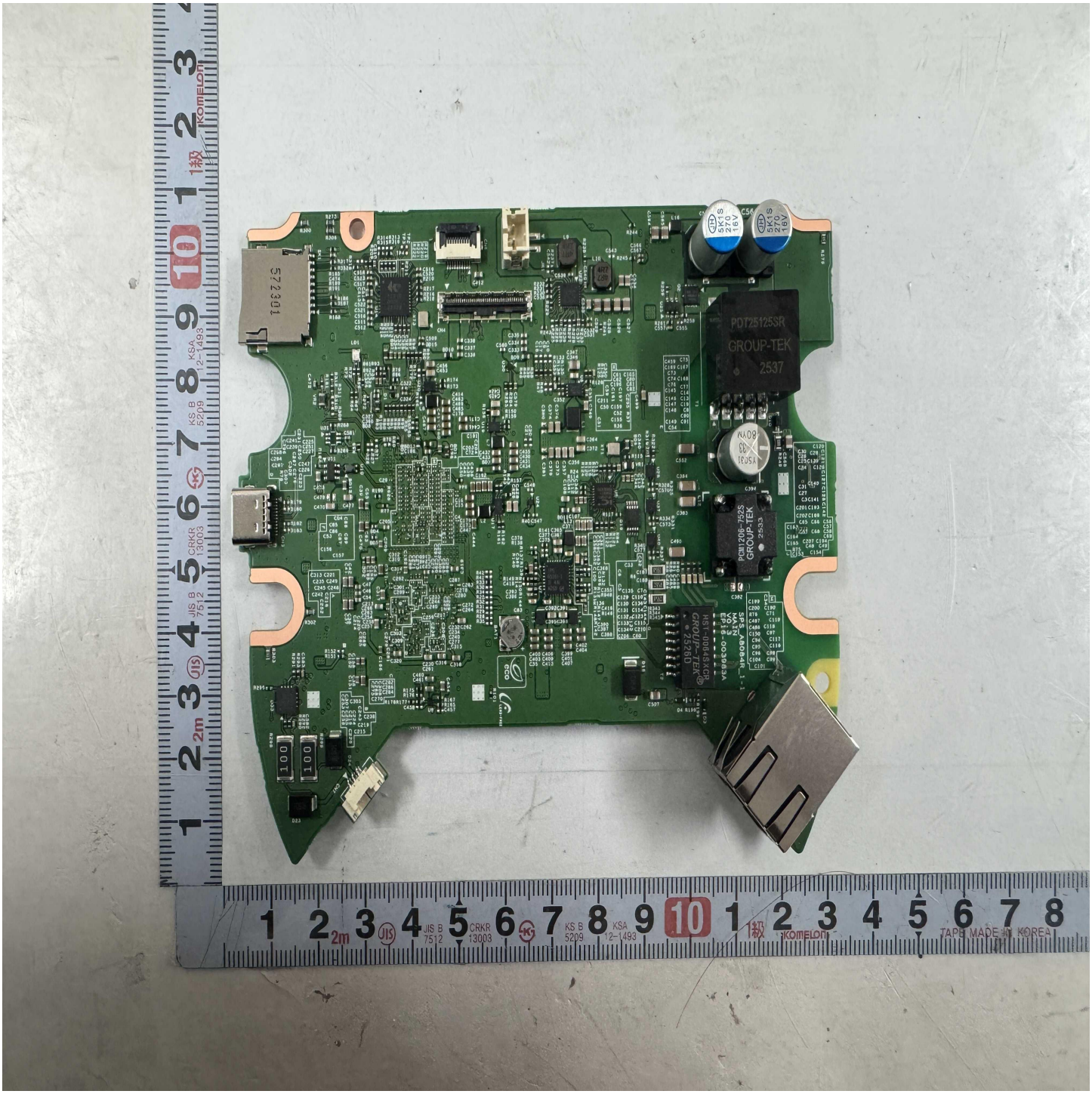
Photographs-04 Page-1



Photographs-05 Page-1



Photographs-06 Page-1



Photographs-07 Page-1

