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Please find attached the related material on Project

For your convenience, the below describes the related updates:

E158873-A6274-DescriptionUL
Figure-13-Total

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UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Listing
CCN:	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	REMOTE HEAD CAMERA
Model:	XNB-A8004B
Rating:	12 Vdc, 0.88 A or PoE(48 Vdc), 0.22 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: Sohyun Lee / Project Handler

Reviewed By: Mansoo Huh / Reviewer

Supporting Documentation

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

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

B. Generic Inspection Instructions -

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

Product Description

REMOTE HEAD CAMERA is designed for indoor use, wall or ceiling use with mounting brackets.

It is a commercial equipment supplied from DC or 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)	50
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)	0.44

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 50 °C
- The product is intended for use on the following power systems : No direct connection
- Considered current rating of protective device as part of the building installation (A) : N/A

- Mains supply tolerance (%) or absolute mains supply : No direct connection
- The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual

Additional Information

4791951942

- Maximum Normal Load: Continuous operation with output load (USB port 5 Vdc, 0.5 A) and a lens module to the CAM port.

- Only the lens modules below can be connected to this equipment.

(SLA-F1080FA/SLA-F2480A/SLA-F4780A/SLA-F2480VA/SLA-F4780VA/SLA-F2480BA/SLA-F2480DA/SLA-F2480DSA/SLA-F2480WA/SLA-F2480WDA/SLA-F2480HA)

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 Company's name, Trade Name, Trademark or File Number
Equipment identification marking – model identification	Model Number
Equipment rating marking – ratings	"Input Ratings (voltage, dc, current)"
(Website) Manual - 1	This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated from 12 Vdc, 0.88 A or PoE(48 Vdc), 0.22 A.
(Website) Manual - 2	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.
(Website) Manual - 3	This Lens module has to be connected with equipment, which supplied by a power supply unit marked "Class 2" or "LPS". (SLA-F1080FA/SLA-F2480A/SLA-F4780A/SLA-F2480VA/SLA-F4780VA/SLA-F2480BA/SLA-F2480DA/SLA-F2480DSA/SLA-F2480WA/SLA-F2480WDA/SLA-F2480HA)
Hard Copy	A. IMPORTANT or ATTENTION or similar wording. B. Please check 'Manuals' from our website, before connecting to the supply. C. Company website URL (https://www.~~) or QR code.
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					

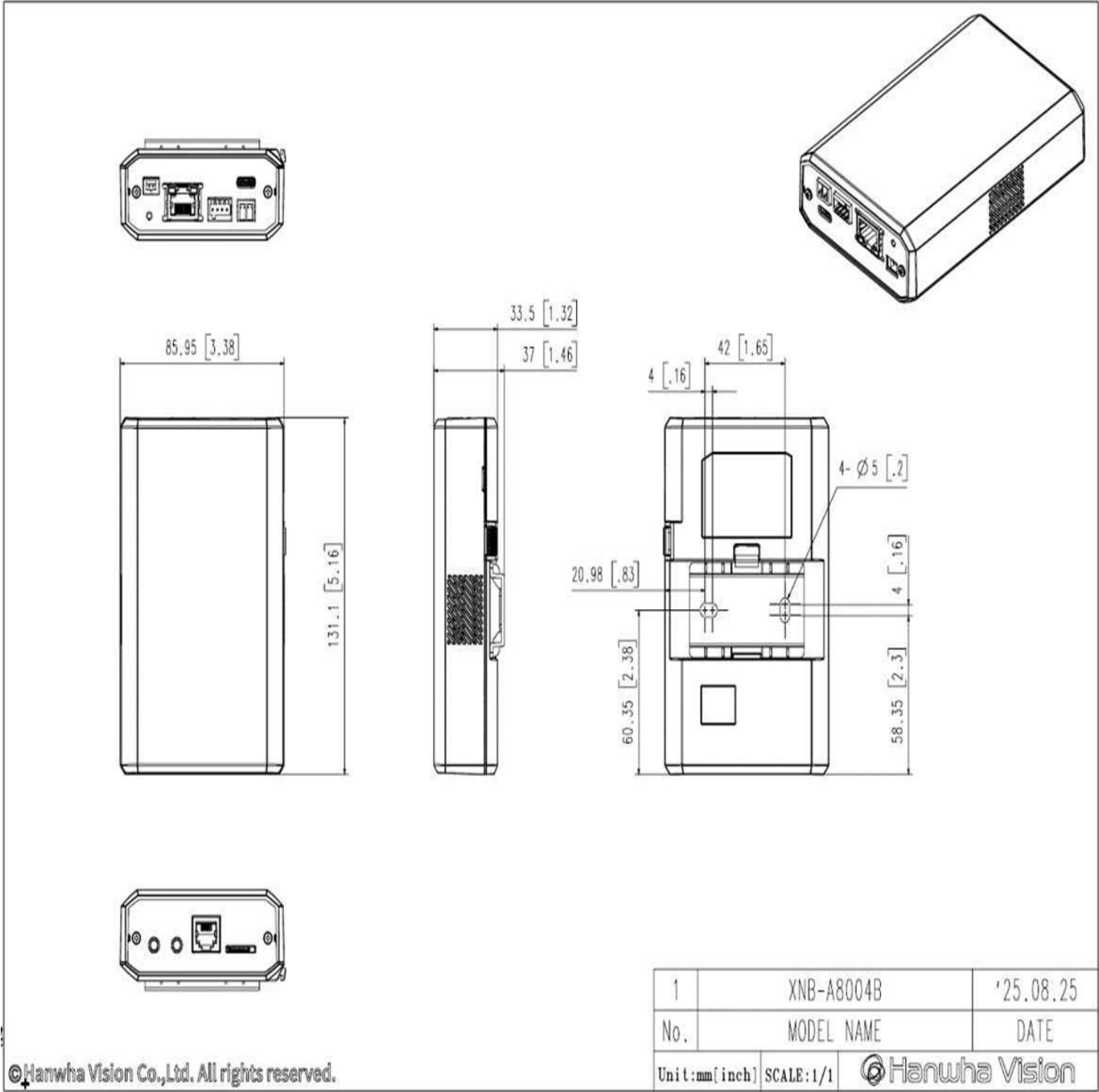
BE1.0	Sample and Test Specifics for Follow-Up Tests at UL				
Model	Component	Material	Test	Sample (s)	Test Specifics
N/A	N/A	N/A	N/A	N/A	N/A

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 (Plastic)	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min. 1.5 mm thickness, rated Min. V-0, 130 deg. C	QMFZ2	UL (E115797)	
Enclosure (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 2.0 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Mounting bracket (Plastic)	LOTTE CHEMICAL CORPORATION	NH-1035	Min. 1.5 mm thickness, rated Min. V-0, 80 deg. C	QMFZ2	UL (E115797)	
Heatsink	Interchangeable	Interchangeable	Aluminum, Approx. overall size of 126.40 by 79.58 by 13.50 mm, Min. 2.0 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Thermal pad	KOMOTECH CO LTD	KGP-1(a)	Min. 0.2 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL (E245303)	
Thermal pad - Alternate	Interchangeable	Interchangeable	Min. 0.2 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL	
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 (D5, 80 V, 250 mA) and Resistor (R186, 3.3 kohm) in series	-	Tested in equipment	
Transformer (T6)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD	PDT25289SR	77 uH, 130 deg. C. See enclosure for more detail.	-	Tested in equipment	

Line filter (L3)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD	CM4-472NAS	4.7 mH, 155 deg. C. See enclosure for more detail.	-	Tested in equipment	
Opto-coupler (LS2)	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 (LS2) - Alternate	COSMO ELECTRONICS CORP	KPC357NT	Isolation Voltage: 3750. Max. Operation Temperature: 115 deg. C	FPQU2	UL (E169586)	
USB-C type port overcurrent protection IC (U15)	Texas Instruments Incorporated	TPS2553DDBVR	Protection current: 1.7 A	QVGS2	UL (E169910)	
Fuse (F1)	LITTELFUSE INC	449*	Rated 125 V, 2.0 A	JDYX2	UL (E10480)	
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 surface temperature specified, or 50 deg. C if not specified.	PGDQ2 or PGJI2	UL	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	External view - 1
Photographs	03-02	External view - 2
Photographs	03-03	Internal view
Photographs	03-04	Power board view - 1
Photographs	03-05	Power board view - 2
Photographs	03-06	Mainboard view - 1
Photographs	03-07	Mainboard view - 2
Diagrams	04-01	Enclosure drawings
Diagrams	04-02	Heatsink drawings
Manuals	06-01	Manual
Miscellaneous	07-01	Transformer (T6) specification
Miscellaneous	07-03	Linefilter (L3) specification
Miscellaneous	07-04	Label



1	XNB-A8004B	'25.08.25
No.	MODEL NAME	DATE
Unit:mm[inch]	SCALE:1/1	©Hanwha Vision

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



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 Listed Power Supply Unit marked "Class 2" or "LPS" and rated from 12 Vdc, 0.88 A / PoE (48 Vdc), 0.22 A. (XNB-A8004B)
16. This Lens module has to be connected with equipment, which supplied by a power supply unit marked "Class 2" or "LPS".(SLA-F1080FA/SLA-F2480A/SLA-F4780A/SLA-F2480VA/SLA-F4780VA/SLA-F2480BA/SLA-F2480DA/SLA-F2480DSA/SLA-F2480WA/SLA-F2480WDA/SLA-F2480HA)
17. This product is intended to be supplied by isolation power.
18. 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.
19. 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.
20. 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.
21. 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.



22. Installing or using the product in water can cause serious damage to the product.
23. 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.
24. The operating temperature of the product is -10°C to +50°C (+14°F ~ +122°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

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

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.

Before connecting the Power Terminal Block, you need to unplug the power plug from the outlet first.

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

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

The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3af shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.

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

Please read the following recommended safety precautions carefully.

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

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

The meaning of the symbols are shown below.

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

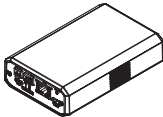
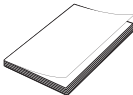
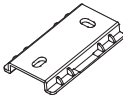
※ Please read this manual for the safety before using of goods and keep it in the safe place.

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

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

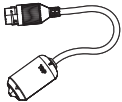
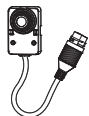
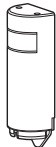
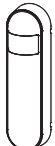
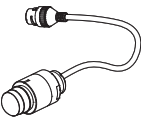
WHAT'S INCLUDED

Please check if your camera and accessories are all included in the product package.
(As for each sales country, accessories are not the same.)

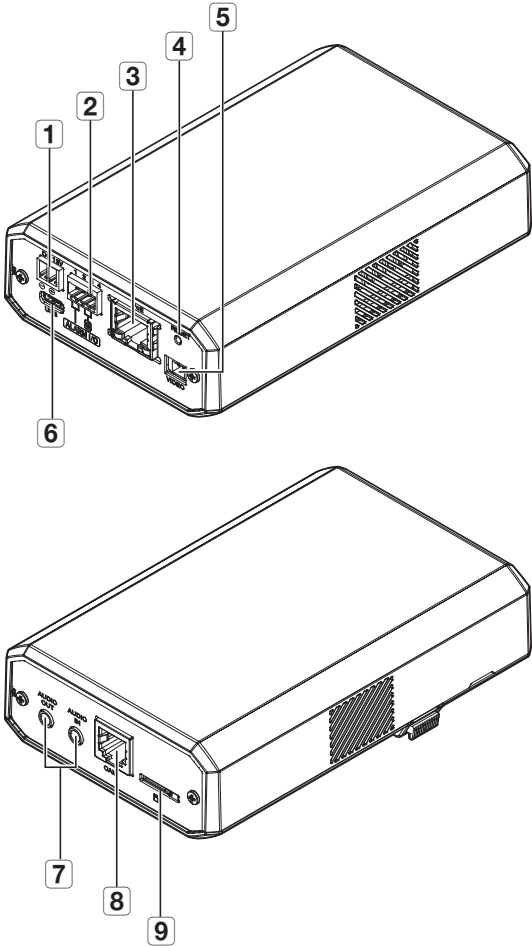
Appearance	Item Name	Quantity	Description
	Main Unit	1	
	Quick Guide (Optional)	1	
	Installation bracket	1	Used to install the main unit on the wall/ceiling.
	Power Terminal Block	1	Plugged in the power plug
	Alarm terminal block	1	Used by inserting it into the alarm output terminal.
	Cable for the testing monitor	1	Used to test the camera connection to a portable display device
	Ferrite Core	1	Used to block the high-frequency component(s) contained in the power supply and the signal end from being radiated to the outside

LENS MODULE/EXTENSION CABLE - OPTIONAL

This is a lens module separately sold that is mounted to XNB-A8004B.

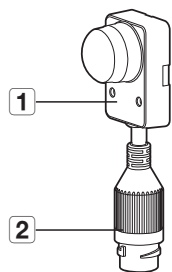
5MP lens module				
				
SLA-F1080FA	SLA-F2480A	SLA-F4780A	SLA-F2480VA	SLA-F4780VA
				
SLA-F2480BA	SLA-F2480DA/ SLA-F2480DSA	SLA-F2480WA	SLA-F2480WDA	SLA-F2480HA

AT A GLANCE



Item		Description
1	Power Port(DC 12V)	Port for power terminal block.
2	Alarm I/O Port	GND Ground terminal.
		ALARM I/O Used to connect the alarm I/O device Refer to the "Alarm In/Out Wiring Diagram." (Page 15)
3	Network Port	Terminal used to connect to PoE or LAN via the RJ-45 cable.
4	Reset Button	The button restores all camera settings to the factory default. Press and hold for about 10 seconds to reboot the system. If you reset the camera, the network settings will be adjusted so that DHCP can be enabled. If there is no DHCP server in the network, you must run the Device Manager program to change the basic network settings such as IP address, Subnet mask, Gateway, etc., before you can connect to the network.
5	Test monitor out port	Output port for test monitoring the video output. Use the test monitor cable to connect to a mobile display and check the test video.
6	USB Type-C port	Use this port to connect the WiFi dongle. For guidance, you can watch the installation video via the app installed on your smartphone. Refer to "Connecting WiFi" on page 14 for detailed instructions. The USB Type-C port is intended solely for installation purposes and should not be used during product operation. ■ WiFi dongle and OTG adapter are sold separately.
7	Audio cable port	AUDIO IN Used to connect to a microphone.
		AUDIO OUT Used to connect to speakers.
8	Connection terminal of lens module	This terminal is connected to the lens module through the cable to connect the lens module.
9	Micro SD Card slot	Compartment for the Micro SD card.

Appearance of lens module



<Lens Module>

Item	Description
1 Lens Module	This lens module is used to shoot video.
2 Main unit connection terminal	This terminal is connected to the main unit through the cable to connect the lens module.

 ■ Lens shape or cable length, etc. may vary depending on the lens.

INSTALLATION

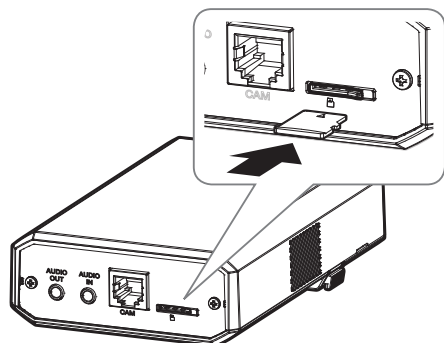
Precautions before installation

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

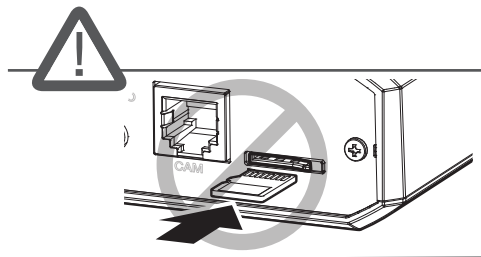
- Organize the cable separately in order to prevent excessive burden on the lens module while the camera is installed (within 1m from the lens module).
- Select an installation site that can hold at least 5 times the camera's weight.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site. And put aside personal belongings from the site, just in case.
- The power must be turned off when installing or removing lens module.

Inserting a Micro SD card

Insert a Micro SD card in the arrow direction shown in the figure.

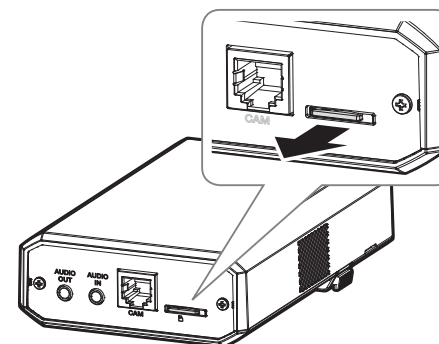


- Disconnect the power cable from the camera before inserting the Micro SD card.
- When it rains or the humidity is high, insertion or ejection of a Micro SD card is not recommended.
- Do not insert the Micro SD card while it's upside down by force. Otherwise, it may damage the Micro SD card.



Removing a Micro SD card

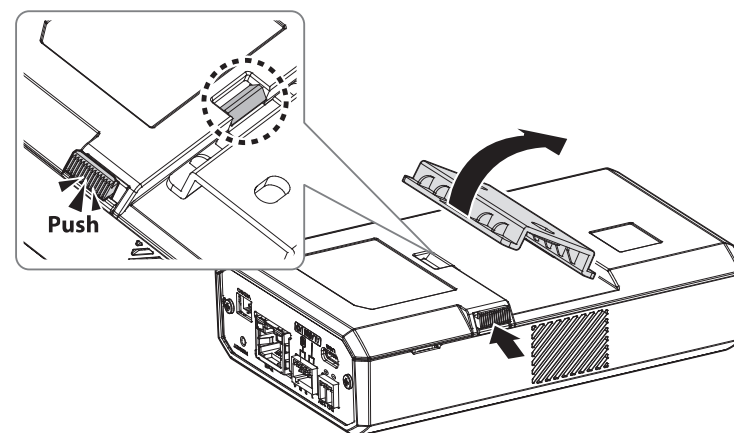
Gently press down on the exposed end of the memory card as shown in the diagram to eject the memory card from the slot.



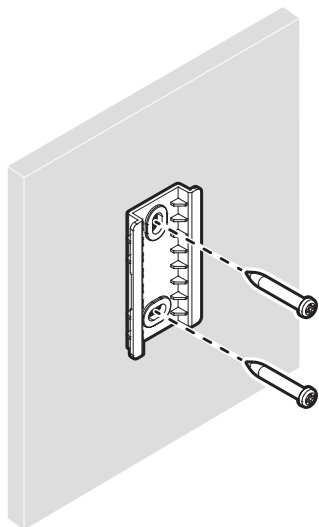
- Before removing the Micro SD card, in <Setup (⚙️)>-<Event>-<Storage>, set the device to <Off> and press the [Apply] button and turn the camera off.
- If you turn off the camera or remove the Micro SD card that contains data from the product, the data may be lost or damaged.

Installing(Main unit)

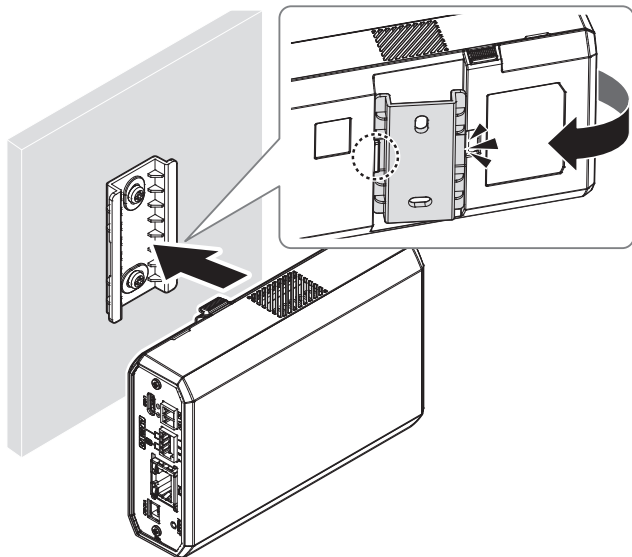
1. Before installing the main unit on the ceiling, wall, etc., detach the installation bracket by pressing the button as shown in the figure.



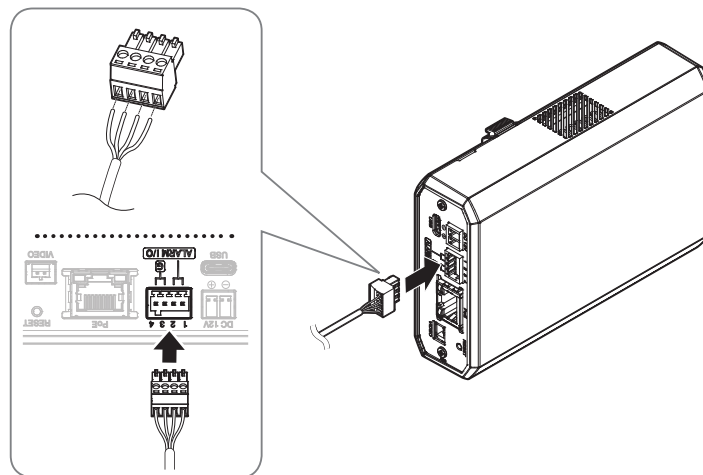
2. Install the installation bracket on the wall using appropriate screws.



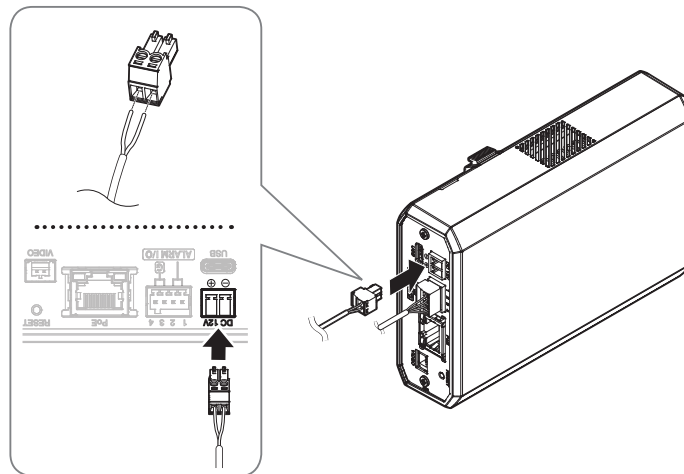
3. After aligning the grooves of the main unit and the installation bracket, mount the main unit by pressing and holding it until you hear a 'click' sound.



4. Connect the alarm terminal block to the ALARM I/O port of the main unit.



5. When using DC 12V power, connect the power terminal block to the power port of the main unit.



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



SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER			
客户料号 MODEL NO			
产品名称 PART NAME	POWER TRANSFORMER		
产品型号 PART TYPE	PDT25289SR		
版 本 REV	B		
签 名 SIGNATURE	制作: PREPARED BY 	审核: CHECKED BY 	批准 APPROVED BY 
客户承认 CUSTOMER APPROVAL	承认印: SIGNET 签 名: SIGNATURE		

深圳市联泰兴电子科技有限公司

SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD

地 址 : 深圳市宝安区石岩街道应人石工业区伟泰路 1 栋 2-5 楼

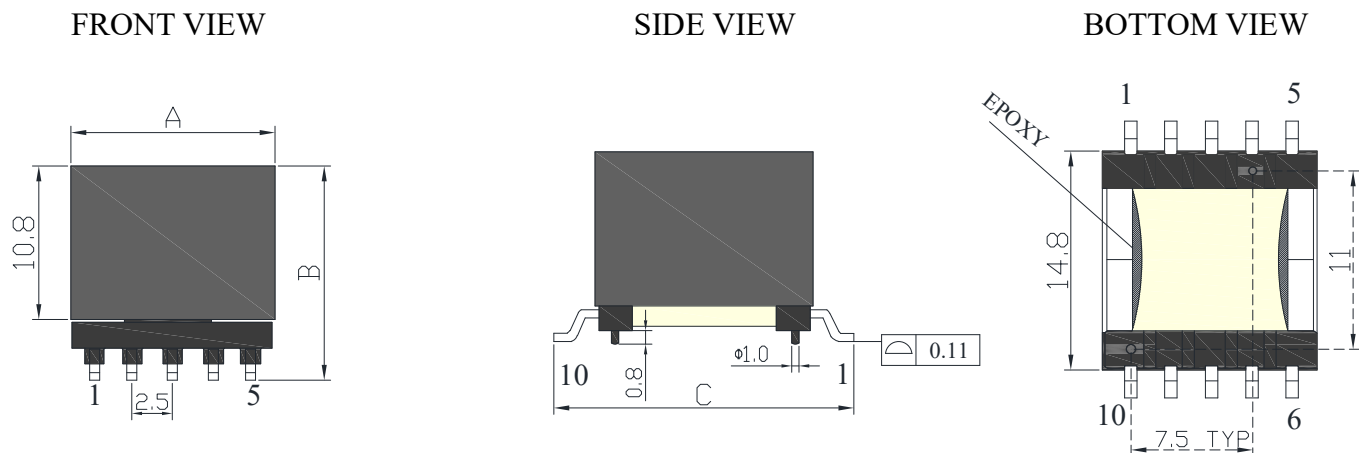
ADD: Floor 2-5, No.1 Block, WeiTai Rd. Ying Ren Shi Industry Park, Shi Yan Sub-District, Bao'An ShenZhen,China

TEL: +86-755-29810619 29810976 FAX: +86-755-29810159

Http://www.group-tek.com

E-mail:sale1@group-tek.com

2. EXTERNAL DIMENSIONS: UNIT: mm



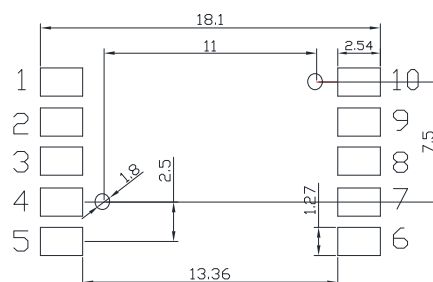
Unit: mm Tolerances:

A	B	C
Max	Max	Max
15.0	14.0	17.8

Marking information



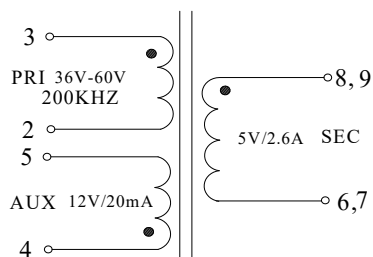
Suggested PCB Pad Layout



3. Electrical Characteristics :

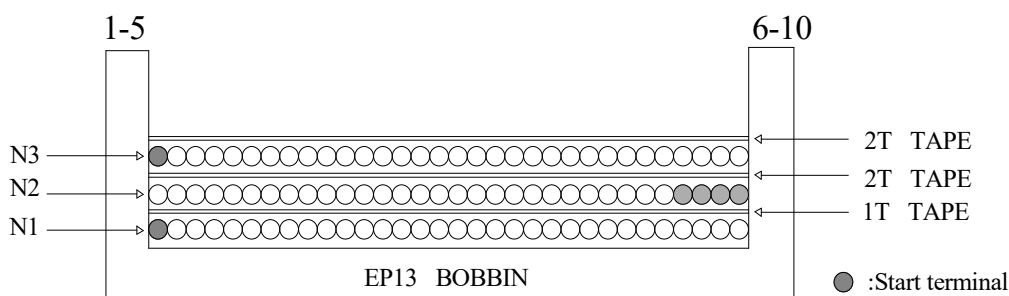
Specification: at 25 degree C. Operating Temperature -40 to +125°C			
NO	ITEM	TEST CONDITION	SPECIFICATION
1	Inductance	((3-2)) @25°C 100KHZ/1V	77uH ± 15%
		(4-5) @25°C 100KHZ/1V	19uH ± 20%
		(8,9-6,7)@25°C 100KHZ/1V	4uH ± 20%
2	Leakage Inductance	(3-2)@25°C 200KHZ/0.1V shorted other pins	1.5uH MAX
3	DCR	(3-2)@25°C	180mΩ MAX.
4		(8,9-6,7)@25°C	15mΩ MAX.
5		(4-5)@25°C	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

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



SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER	HANWHA VISION		
客户料号 MODEL NO	EP07-004281		
产品名称 PART NAME	COMMON MODE CHOKE		
产品型号 PART TYPE	CM4-472NAS		
版 本 REV	X0		
签名 SIGNATUER	制作: PREPARED BY	审核: CHECKED BY	批准: APPROVED BY
	联泰兴 2025-10-23 JLYe	联泰兴 2025-10-23 weifeng. Luo	联泰兴 2025-10-23 Jiang. Wang
CUSTOMER APPROVAL	承认印: SIGNET 签 名: SIGNATURE		

深圳市联泰兴电子科技有限公司

SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO., LTD

地 址：深圳市宝安区石岩街道应人石工业区伟泰路 1 栋 2-5 楼

ADD: Floor 2-5, No.1 Block, WeiTai Rd. Ying Ren Shi Industry Park, Shi Yan Sub-District, Bao'An ShenZhen, China

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E-mail:sale1@group-tek.com

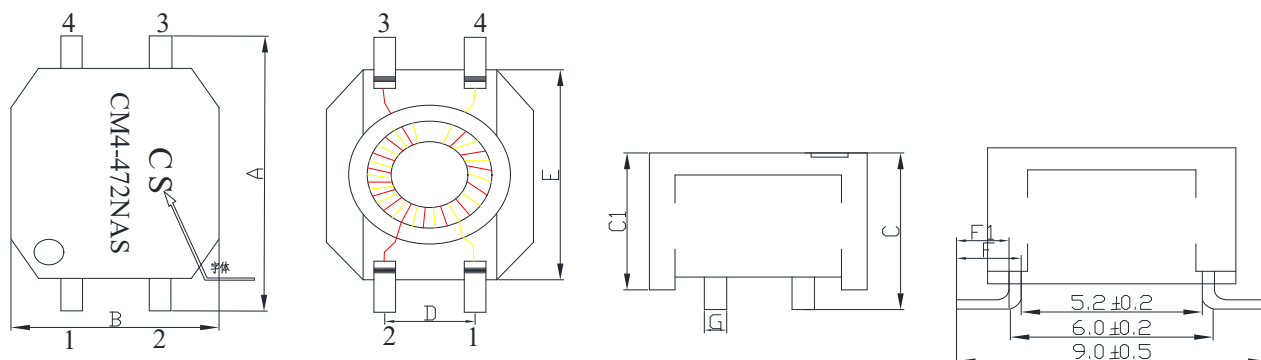
二. ELECTRICAL CHARACTERISTICS:

PART NUMBER	Turn Ratio@ (1-4):(2-3)	INDUCTANCE @10KHz,0.1V (1-4)=(2-3)	RDC (1-4)=(2-3) (ΩMax)	Rated Current IRMS△T≤40℃	HI-POT 2mA/2sec(Vrms) (1+4)-(2+3)
CM4-472NAS	1:1±3%	4.7mH +50%-30%	0.75Ω	0.7A _{Max}	1000V/AC

Operating temperature range: -40° C to +125° C

Storage temperature range: -40℃ to +125℃

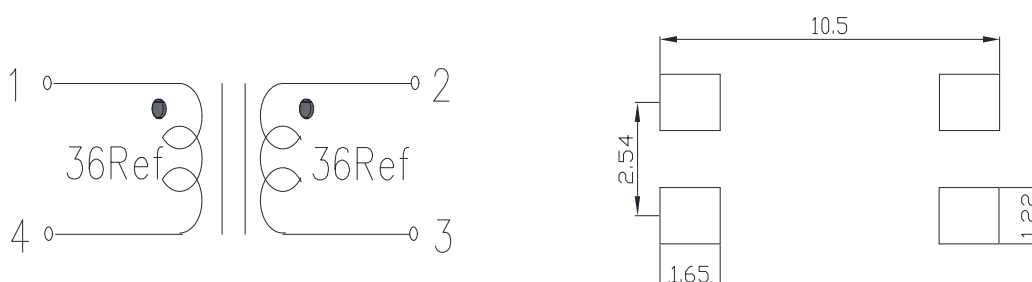
三. EXTERNAL DIMENSIONS: UNIT: mm



产品共面度<0.13mm

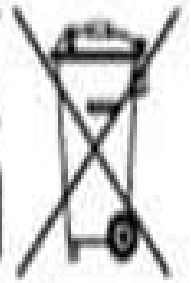
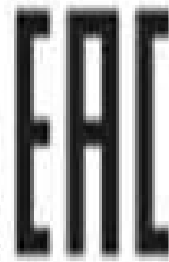
Item	A	B	C	C1	D	E	F	F1	G
mm	9.0±0.5	5.9±0.3	5.7Max	4.55±0.3	2.54±0.2	7.0±0.3	1.8±0.1	1.4±0.1	0.6

四: CIRCUIT



五. MATERIAL LIST:

NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL	UL CARD
1	CORE	Ferrite KL10	HUIZHOU KELI MAGNETICS CO,LTD	N/A
2	WIRE	POLYURETHANE ENAMELED THERMAL RATING:180° 2UEW	Shing Shun Magnet wire (hui zhou)co,Ltd	E255839
3	CASE	WH-9100	WAH HONG INDUSTRIAL CORP	E150608
4	SOLDER	Sn99.3%: cu0.7%	GAO XING STANNUMINDUSTY CO,LTD	N/A

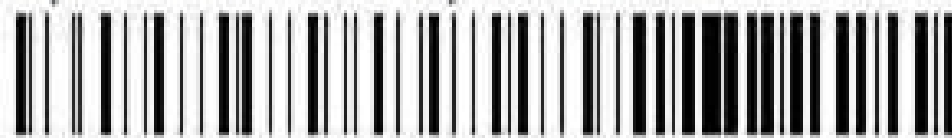


REMOTE HEAD CAMERA,XNB-A8004B

DC 12V $\overline{\text{---}}$ 0.88A/

PoE(48V $\overline{\text{---}}$) 0.22A

M/C: XNB-A8004B/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





