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

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

Please find attached the related material on Project 4789885117

For your convenience, the below describes the related updates:

Certificate of Compliance format now separates US and Canada certified Products by specified scheme and category. For revised/new documentation, please reference 2021-07-06 in the page headings. Volume(s) 1 Section(s) 41 were added.

E324690-vol1-Index
E324690-20210706-CertificateofCompliance
E324690-20210706-Description
Figure-21-Total
Illustration-14-Total
E324690-20210706-TestRecord

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Times change, Trust Remains™

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## INDEX

Model Number	Section	Requirements Evaluated to (US and/or CN)
IP9165-HP, IP9165-LPC, IP9165-HT, IP9165-HPPM, IP9165-LPCTW, IP9165-LPR	1	US and CN
1) IR Ball, 2MP 2.8mm; 2) IR Ball, 5MP 2.8mm; 3) Network Camera	2	US and CN
1) HC30WE2R3, IT9360-HNWL; 2) HC30WE5R3, IT9380-HNWL; 3) IT9360-H, IT9380-H	3	US and CN
IT9380T-HNWL and HC30WE5R2, IT9388-HT	4	US and CN
HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL, IB9360-H, IB9380-H	5	US and CN
WITHDRAWN	6	US and CN
HC30W45R2, FD9380T-HNWL	7	US and CN
FE9380-HNWL, HC30WF5R1	8	US and CN
HC30W42R3, FD9360-HNWL, HC30W45R3, FD9380-HNWL, FD9360-H, FD9380-H, CBE-28OVD-5MP	9	US and CN
HC30WB5R2, IB9380T-HNWL, IB9368-HT, IB9388-HT	10	US and CN
SNC-WL862	11	US and CN
MA9322-EHTV	12	US and CN
SD9374-XXXX (X can be any letter or number or blank; The "-" is not provided when X is blank; Suffix X defines for marketing difference)	13	US and CN
CC9381-HV	14	US and CN
MD9560-H, MD9561-H, MD9581-H, MD9561-DH	15	US and CN
FD9166-HN	16	US and CN
CD51-XXX-HW, CD41-XXX-HW, CD31-XXX-HW (X=A~Z, a~z, 0~9, blank, or "-" for marketing purpose)	17	US and CN
CD51-XXXE-HW, CD41-XXXE-HW, CD31-XXXE-HW (X=A~Z, a~z, 0~9, blank, or "-" for marketing purpose)	18	US and CN
Indoor Mini Dome Camera, CM41-XXX-HW (X=A~Z, a~z, 0~9, blank, or "-" for marketing purpose)	19	US and CN
CD61-XXXE-HW (X=A~Z, a~z, 0~9, blank, or "-" for marketing purpose)	20	US and CN
CD61-XXX-HW (X=A~Z, a~z, 0~9, space, or "-" for marketing purpose)	21	US and CN
FD9368-HTV, FD9388-HTV	22	US and CN
Network Camera	23	US and CN
IP9164-HT, IP9164-LPC	24	US and CN
ND9441P, ND9541P	25	US and CN
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IC9581-H	27	US and CN
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FE9382-EHV-v2	29	US and CN
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1) ND9424P-ALAM(8), 2) ND9424P-ALAM(16)	31	US and CN
ND9424P-ALAM(NPXX) (X= 0-9, A-Z or blank)	32	US and CN
CM41-XXXE-HW (X=A~Z, a~z, 0~9, blank, or "-" for marketing purpose)		
CC9380-HV		

## INDEX

Model Number	Section	Requirements Evaluated to (US and/or CN)
IE9111-O	33	US and CN
MD9582-H, MD9581-H-v2, MD9582-HTPM, MD9561-H-v2	34	US and CN
(1) ND9323P, (2) ND9425P	35	US and CN
IP9165-HT-v2, IP9165-LPC-v2	36	US and CN
FD9392-EHTV-O	37	US and CN
FD9369	38	US and CN
FD9167-HT-v2, FD9367-EHTV-v2	39	US and CN
<b>FE9192-H</b>	<b>40</b>	<b>US and CN</b>
<b>IB9367-EHT-v2</b>	<b>41</b>	<b>US and CN</b>

# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-2133292-0  
**Report Reference** E324690-20210706  
**Date** 7-Jul-2021

**Issued to:** VIVOTEK INC  
6TH FL, 192 LIEN CHENG RD  
CHUNG HO DISTRICT NEW TAIPEI  
Taiwan 235

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

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

**Standard(s) for Safety:** UL 62368-1, 2nd Ed., Issue Date: 2014-12-01

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

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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# CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2133292-0  
Report Reference E324690-20210706  
Date 7-Jul-2021

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

Model	Category Description
IB9367-EHT-v2	Network Camera



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-CA-2127753-0  
**Report Reference** E324690-20210706  
**Date** 7-Jul-2021

**Issued to:** VIVOTEK INC  
6TH FL, 192 LIEN CHENG RD  
CHUNG HO DISTRICT NEW TAIPEI  
Taiwan 235

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

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

**Standard(s) for Safety:** CSA C22.2 NO. 62368-1-14, 2nd Ed., Issue Date: 2014-12-01

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

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# CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2127753-0  
Report Reference E324690-20210706  
Date 7-Jul-2021

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

Model	Category Description
IB9367-EHT-v2	Network Camera



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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File E324690  
Project 4789885117

July 6, 2021

REPORT

on

Audio/Video, Information and Communication Technology Equipment

Vivotek Inc  
New Taipei, Taiwan

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**UL TEST REPORT AND PROCEDURE**

<b>Standard:</b>	UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CAN/CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
<b>Certification Type:</b>	Listing
<b>CCN:</b>	AZOT, AZOT7 (Audio/Video, Information and Communication Technology Equipment)
<b>Complementary Certification CCN</b>	N/A
<b>Product:</b>	Network Camera
<b>Model:</b>	IB9367-EHT-v2
<b>Rating:</b>	PoE 37-57 Vdc, 0.291-0.186 A or 12 Vdc, 0.77 A or 24 Vac, 0.74 A, 50-60 Hz (Optional)
<b>Applicant Name and Address:</b>	VIVOTEK INC 6TH FL, 192 LIEN CHENG RD CHUNG HO DISTRICT NEW TAIPEI, 235 TAIWAN

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 this page through to the end of the Engineering Conditions of Acceptability.

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Prepared by: Jones Chang

Reviewed by: Vincent Lai

**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
- C. Listing Mark/Recognized Component Mark Data Page - 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**

The equipment is a Network Camera, which is intended to use within audio/video, information and communication technology equipment.

The equipment consists of electronic components are mounted on PCB and housed by plastic/metal enclosures and secured lens and IRLED cover together and metal enclosure is fixed by screw. Unit must be mounted on a wall or ceiling mount.

The equipment is power supplied from the external power adaptor or Power-over-Ethernet (PoE) device which is complied with the requirement of Limited Power Source (LPS) or Power source class 2 (PS2).

**Model Differences**

N/A

**Test Item Particulars (NOT FOR FIELD REPRESENTATIVE'S USE)**

- Classification of installation and use by .....: ☒ Ordinary person ☐ Instructed person  
☐ Skilled person ☒ Children likely to be present
- Supply Connection .....: ☐ pluggable equipment ☐ type A ☐ type B  
☐ permanent connection  
☐ detachable power supply cord  
☐ non-detachable power supply cord  
☒ not directly connected to the mains
- Equipment mobility .....: ☐ movable ☐ hand-held ☐ transportable  
☒ stationary ☐ for building-in ☐ direct plug-in  
☐ rack-mounting ☒ wall-mounted
- Over voltage category (OVC) .....: ☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV  
☒ other: not directly connected to the mains
- Fundamental Frequency .....: ☐ 50/60 Hz ☐ 50 Hz ☐ 60 Hz ☒ other: for AC and DC sources are not directly connected to the mains; for AC source is 50-60 Hz.
- Class of equipment .....: ☐ Class I ☐ Class II ☒ Class III  
☐ Not classified
- Access location .....: ☐ restricted access location ☒ N/A
- Pollution degree (PD) .....: ☐ PD 1 ☒ PD 2 ☐ PD 3
- IP protection class .....: ☒ IP X0 ☐ IP \_\_\_\_
- Tested for IT power systems .....: ☐ Yes ☒ No
- IT testing, phase-phase voltage (V) .....: ☐ \_\_\_\_ ☒ N/A
- Altitude during operation (m) .....: ☒ Up to 2,000 ☐ Up to \_\_\_\_

Altitude of test laboratory (m) .....	<input checked="" type="checkbox"/> Less than 2,000	<input type="checkbox"/> Approximately _____
Mass of equipment (kg) .....	Max. 2.02 kg.	



**Technical Consideration (NOT FOR FIELD REPRESENTATIVE'S USE)**

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 60°C
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual.
- The product was intended to be supplied by an UL Listed power supply suitable for used at Tma 60 degree C, whose output meets ES1 (or SELV) and PS2 (or LPS), and rated PoE 37-57 Vdc, 0.291-0.186 A or 12 Vdc, 0.77 A or 24 Vac, 0.74 A, 50-60 Hz
- LEDs provided in the product are considered low power devices: Yes
- IR LED provided in the product has been tested and complied with the requirement of Exempt Group according to standard IEC 62471.
- The product is only to be connected to PoE network without routing to outside plant.
- The outdoor equipment/enclosure was evaluated for use in an ambient range of: -40°C to 60°C
- The product was also investigated to the following additional standards: CAN/CSA-C22.2 No. 60950-22 Information technology equipment - Safety - Part 22: Equipment to be installed outdoors Edition 2 - Issue Date 2017-03 & UL60950-22 INFORMATION TECHNOLOGY EQUIPMENT - SAFETY - PART 22: EQUIPMENT TO BE INSTALLED OUTDOORS Edition 2 Issue Date - 2017-03-31.
- The equipment must be installed by skilled person.

**[ ] Engineering Conditions of Acceptability (NOT FOR FIELD REPRESENTATIVE'S USE)**

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- [ ] The following product-line tests are conducted for this product: [ ] Earthing Continuity [ ] Electric Strength
- [ ] The end-product Electric Strength Test is to be based upon a maximum working voltage of: [ ] Primary – Earthed Dead Meal: \_\_\_\_ Vrms, \_\_\_\_ Vpk; [ ] Primary-Secondary: \_\_\_\_ Vrms, \_\_\_\_ Vpk
- [ ] The following output circuits are at [ ] ES1 [ ] ES2 [ ] ES3 energy levels:
- [ ] The following output circuits are at [ ] PS1 [ ] PS2 [ ] PS3 energy levels:
- [ ] The maximum investigated branch circuit rating is: [ ] 20 A [ ] \_\_\_\_ A
- [ ] The investigated Pollution Degree is: [ ] 1 [ ] 2 [ ] 3
- [ ] The front bezel complies with the requirements for [ ] V-1 [ ] HB flame rating
- [ ] Proper bonding to the end-product main protective earthing termination is: [ ] Required [ ] Not required
- [ ] An investigation of the protective bonding terminals has: [ ] been conducted [ ] not been conducted
- [ ] The following input terminals/connectors must be connected to the end-product supply neutral:
- [ ] The following end-product enclosures are required: [ ] Mechanical [ ] Electrical [ ] Fire
- [ ] The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C):
- [ ] The following components require special consideration during end-product Thermal (Heating) tests due to the indicated maximum temperature measurements during component-level testing: \_\_\_\_ (\_\_\_\_°C)
- [ ] The maximum continuous power supply output (Watts) relied on forced air cooling from: \_\_\_\_ W fan (\_\_\_\_) at \_\_\_\_ cfm (\_\_\_\_ cmm) applied to \_\_\_\_ (location/orientation of fan)
- [ ] The following input terminals were evaluated as suitable for direct connection to the DC Mains Supply:
- [ ] The equipment is suitable for direct connection to: [ ] AC mains supply [ ] DC mains supply [ ] AC and/or DC mains supply
- [ ] The power supply was evaluated to be used at altitudes up to: [ ] 2,000 m [ ] 5,000 m [ ] \_\_\_\_ m

**Additional Information**

N/A

**Additional Standard**

The product fulfils the requirements of: N/A

<b>Markings, instructions and instructional safeguards</b>						
<b>Clause Title</b>		<b>Marking or Instruction Details</b>				
		English		French		
Equipment identification marking – Manufacturer identification		Listee's or Recognized company's name, Trade Name, Trademark or File Number				
Equipment identification marking – model identification		Model Number				
Equipment rating marking –ratings (optional)		Input Ratings (voltage, frequency/dc, current/power)				
Inter-connecting cables - External detachable		Listee's Name and Part number (Marking or Instruction)				
Protective earthing is used as a safeguard		Ensure to connect the power supply to a socket-outlet with earthing connection, or equivalent.				
<b>Special Instructions to UL Representative</b> <p>Please verify the standard revision of UL Report of power adaptor which was / were certified by the following revision (UL 60950-1, 2nd Edition, dated 2014-10-14 or UL 62368-1, 2nd Edition, dated 2014-12-01 or latest).</p> <p>Please verify the Manufacturer has a method to manage distribution of all products with Canadian certification mark not intended include the dual markings.</p>						
<b>Production-Line Testing Requirements</b> <u><b>Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.</b></u>						
Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
--	--	--	--	--	--	--
<u><b>Earthing Continuity Test Exemptions - This test is not required for the following models:</b></u>						
All models						
<u><b>Electric Strength Test Exemptions - This test is not required for the following models:</b></u>						
All models						
<u><b>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:</b></u>						
N/A						
<u><b>Sample and Test Specifics for Follow-Up Tests at UL</b></u>						
Model	Component	Material	Test	Sample(s)	Test Specifics	
--	--	--	--	--	--	

4.1.2	TABLE: list of critical components					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Power source (Optional)	Interchangeable	Interchangeable	O/P: 37-57 Vdc, 0.291-0.186 A or 12 Vdc, 0.77 A min. or 24 Vac, 0.74 A min, 50-60 Hz, 60 degree C minimum, LPS or PS2	NWGQ/7, QGGQ/7, AZOT/7, QQJQ/7	UL	--
02. Enclosure	--	--	--	--	--	--
02-1. Lens cover (Outer)	SABIC INNOVATIVE PLASTICS B V	940(f1)	HB minimum. 1.5 mm thick min. 120 degree C min. See enclosure Illustration ID 01 for details.	QMFZ2	UL	--
02-2. Lens cover (Center)	TEIJIN LIMITED RESIN AND PLASTIC	L-1225Z(#1)(f1)	HB minimum. 1.5 mm thick min. 115 degree C min. See enclosure Illustration ID 01 for details.	QMFZ2	UL	--
02-3. Metal enclosure	Interchangeable	Interchangeable	Aluminium alloy, 2.4 mm thickness min. See enclosure Illustration ID 02 and 11 for details.	--	--	--
03. Breathable membrane	The Chemours Company FC, LLC	6(#), 6-J(#) 7A(#), 7C(#), 8(#), 8A(#), 850A(#), 8B(c)(#), 9A(#), 9B(#), 807N(#)	Flammability level is ignored, when small parts (less than 4 g or less than 1750 mm <sup>3</sup> ). See Illustration ID 13 for details.	QMFZ2	UL	--
03-1. Adhesive for breathable membrane	3M	9495LE	--	--	--	--
04. Gasket, O-Ring (For card slot cover)	MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C	TSE2186U(aq), TSE221-5U(ad)	HB minimum, Silicone rubber. See enclosure Illustration ID 03 for details.	QMFZ2	UL	--
05. Gasket, O-Ring (For Lens cover)	MOMENTIVE PERFORMANCE MATERIALS JAPAN	TSE2186U(aq), TSE221-5U(ad)	HB minimum, Silicone rubber. See enclosure Illustration ID 04 for details.	QMFZ2	UL	--

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	L L C					
06. Gasket, O-Ring (For junction box)	MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C	TSE2186U(aq), TSE221-5U(ad)	HB minimum, Silicone rubber. See enclosure Illustration ID 05 for details.	QMFZ2	UL	--
07. Rubber gland for cable used	MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C	TSE2186U(aq), TSE221-5U(ad)	HB minimum, Silicone rubber. See enclosure Illustration ID 06 for details.	QMFZ2	UL	--
08. Rubber gland for cable used (For junction box)	MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C	TSE221-5U(ad)	HB minimum, Silicone rubber. See enclosure Illustration ID 07 for details.	QMFZ2	UL	--
09. RTC battery (BT2)	Seiko Instruments Inc.	MS621T	Max Charging Current: 300 mA	BBCV2	UL	--
10. PWB	Interchangeable	Interchangeable	V-1 minimum, 105 degree C minimum	ZPMV2	UL	--
11. PoE transformer (T1) (On PWR board)	Matrix Electronics Co., Ltd.	MTSF064	105 degree C min. See enclosure Illustration ID 08 for details.	--	--	--
12. IRLED (LED1, LED2) (For short focal lens)	High Power Lighting Corporation	H40DJ1C4	Wavelength: 850 nm. Exempt Group	--	--	--
13. IRLED (LED3, LED4) (For short focal lens)	Lextar	PR35F0A	Wavelength: 850 nm. Exempt Group	--	--	--
14. IRLED (LED1, LED2) (For long focal lens)	High Power Lighting Corporation	H40DJ1C3	Wavelength: 850 nm. Exempt Group	--	--	--
15. IRLED (LED3, LED4) (For long focal lens)	Lextar	PR35V21 V0	Wavelength: 850 nm. Exempt Group	--	--	--
16. Stepping motor (Focus)	Interchangeable	Interchangeable	DC 3.3-5 V, 105 degree C min. See enclosure Illustration ID 09 to 10 for details	--	--	--
17. Stepping motor (Zoom)	Interchangeable	Interchangeable	DC 3.3-5 V, 105 degree C min. See enclosure Illustration ID	--	--	--

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			09 to 10 for details			
18. Stepping motor (Iris)	Interchangeable	Interchangeable	DC 2.6-5.25 V, 105 degree C min. See enclosure Illustration ID 09 to 10 for details	--	--	--
19. Wall mount plate (Optional)	Interchangeable	Interchangeable	Aluminium alloy, 2.5 mm thick min. See enclosure Illustration ID 12 for details.	--	--	--
20. Thermal pad (Between mainboard board and internal metal part)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (less than 4 g or less than 1750 mm <sup>3</sup> )	--	--	--
20a. Thermal pad (Between sensor board and internal metal part) (Alternate)	Interchangeable	Interchangeable	V-2 min. or HF-2 min.	QMFZ2	UL	--
21. Internal plastic parts/material (Optional)	Interchangeable	Interchangeable	HB or HBF minimum	QMFZ2	UL	--
21a. Internal Plastic Part Materials (Optional) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (1750 mm <sup>3</sup> maximum) are mounted on V-1 class material	--	--	--
21b. Internal Plastic Part Materials (Optional) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4 g maximum or 1750 mm <sup>3</sup> max.) are separated from electrical parts (other than insulated wires and cables) by at least 13 mm of air or by a solid barrier of V-0 class material.	--	--	--
22. Label	Interchangeable	Interchangeable	70 degree C if maximum surface temperature not specified.	PGDQ2, PGJ12	UL	--
22a. Permanency of Marking (Alternate)	--	--	Engraved laser marking.	--	--	--
22b. Permanency of Marking (Alternate)	--	--	Permanently ink-stamped, silk-screened, molded in, or in self-	--	--	--

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			adhesive labels.			
23. Interconnecting Cable (Optional)	Interchangeable	Interchangeable	Minimum 60 degree C, minimum 57 V, maximum 3.05 m long, jacketed, VW-1 or FT-1	AVLV2, DVPJ	UL	--
23a. Interconnecting Cable (Optional) (Alternate)	Interchangeable	Interchangeable	Maximum 3.05 m long, jacketed, type CMP, CMR, CMG, CM, CMX, CMUC, or CMH.	DUZX, DUXR/2	UL	--
24. Wiring, internal ES1 circuits (Optional)	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; min 57 V, 60 degree C.	AVLV2	UL	--
25. Connectors and Receptacles (ES1 circuits)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 minimum	QMFZ2	UL	--
25a. Connectors and Receptacles (ES1 circuits) (alternate)	Interchangeable	Interchangeable	Minimum 57 V.	ECBT2	UL	--
25b. Connectors and Receptacles (ES1 circuits) (alternate)	Interchangeable	Interchangeable	--	DUXR2	UL	--
26. Plastic Material of Flexible Printed Wiring (Optional)	Interchangeable	Interchangeable	V-2 min. or HF-2 min. when no components mounted on surface.	QMFZ2 or QMTS2	UL	--
26a. Plastic Material of Flexible Printed Wiring (Alternate) (Optional)	Interchangeable	Interchangeable	V-2 min. or HF-2 min. when no components mounted on surface.	ZPMV2 or ZPXK2	UL	--
26b. Plastic Material of Flexible Printed Wiring (Alternate) (Optional)	Interchangeable	Interchangeable	V-1 min. or VTM-1 min. when components mounted on surface existed.	ZPMV2 or ZPXK2	UL	--
26c. Plastic Material of Flexible Printed Wiring (Alternate) (Optional)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4 g maximum or 1750 mm <sup>3</sup> max.) when no components mounted on surface.	--	--	--

Only those products bearing the UL Mark should be considered as being covered by UL.

## **ENCLOSURES**

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	01	External view 1
	02	External view 2
	03	Internal view 1
	04	Internal view 2
	05	Internal view 3
	06	IO board view 1
	07	IO board view 2
	08	Extend board view 1
	09	Extend board view 2
	10	Power board view 1
	11	Power board view 2
	12	Main board view 1
	13	Main board view 2
	14	Sensor board view 1
	15	Sensor board view 2
	16	LED board 1 view 1
	17	LED board 1 view 2
	18	LED board 2 view 1
	19	LED board 2 view 2
	20	Internal bracket view 1
	21	Internal bracket view 2
Illustrations	01	Plastic Lens cover drawing
	02	Metal enclosure drawing
	03	Gasket, O-Ring (For card slot cover)
	04	Gasket, O-Ring (For Lens cover)
	05	Gasket, O-Ring (For junction box)
	06	Rubber gland for cable
	07	Rubber gland for cable (For junction box)
	08	PoE transformer (T1) (On PWR board)
	09	Stepping motor diagram
	10	Stepping motor diagram (alternate)
	11	Metal Junction box drawing
	12	Wall mount plate drawing
	13	Breathable membrane drawing
	14	Manual





Figure-1 Page-1

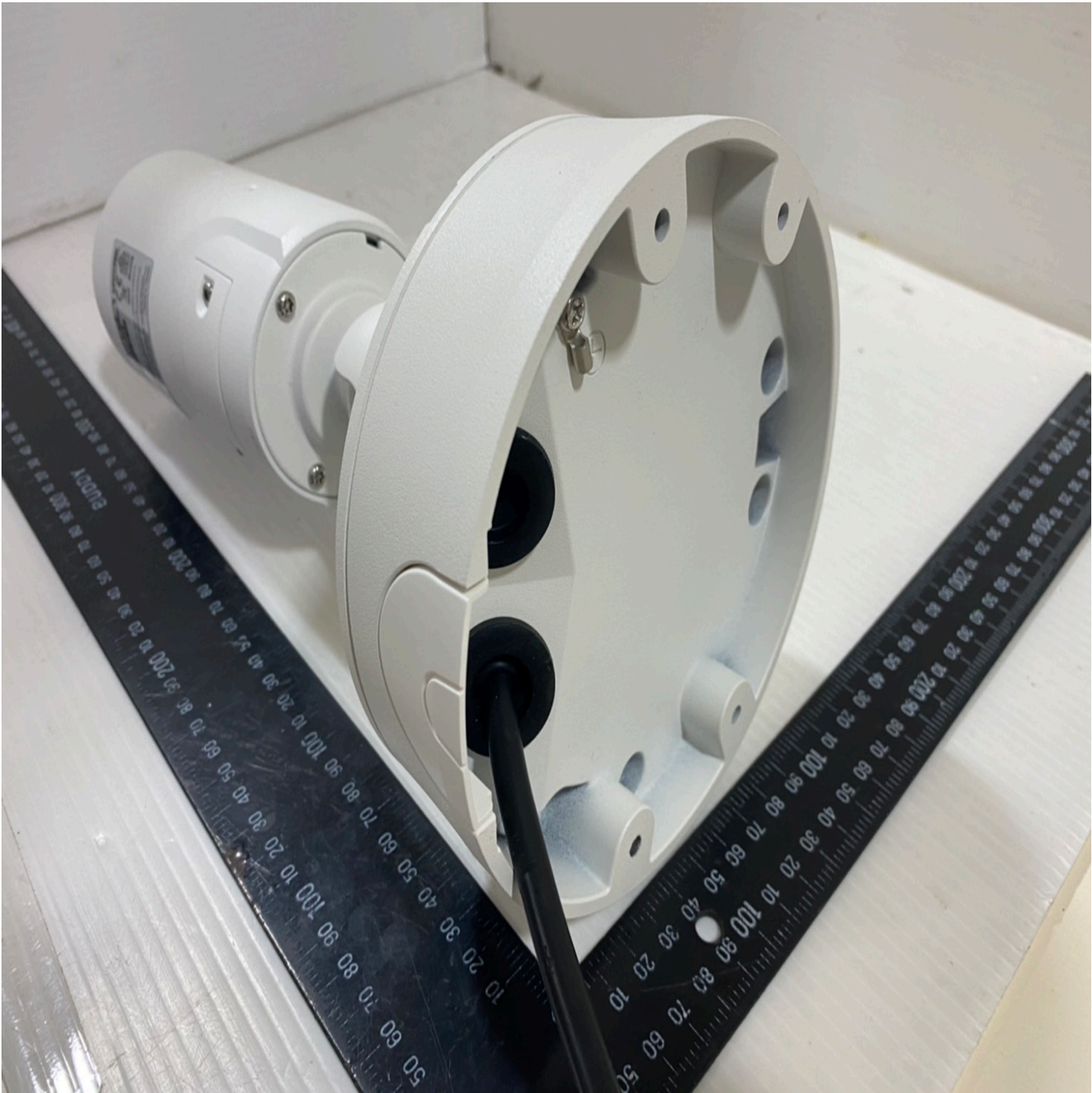


Figure-2 Page-1

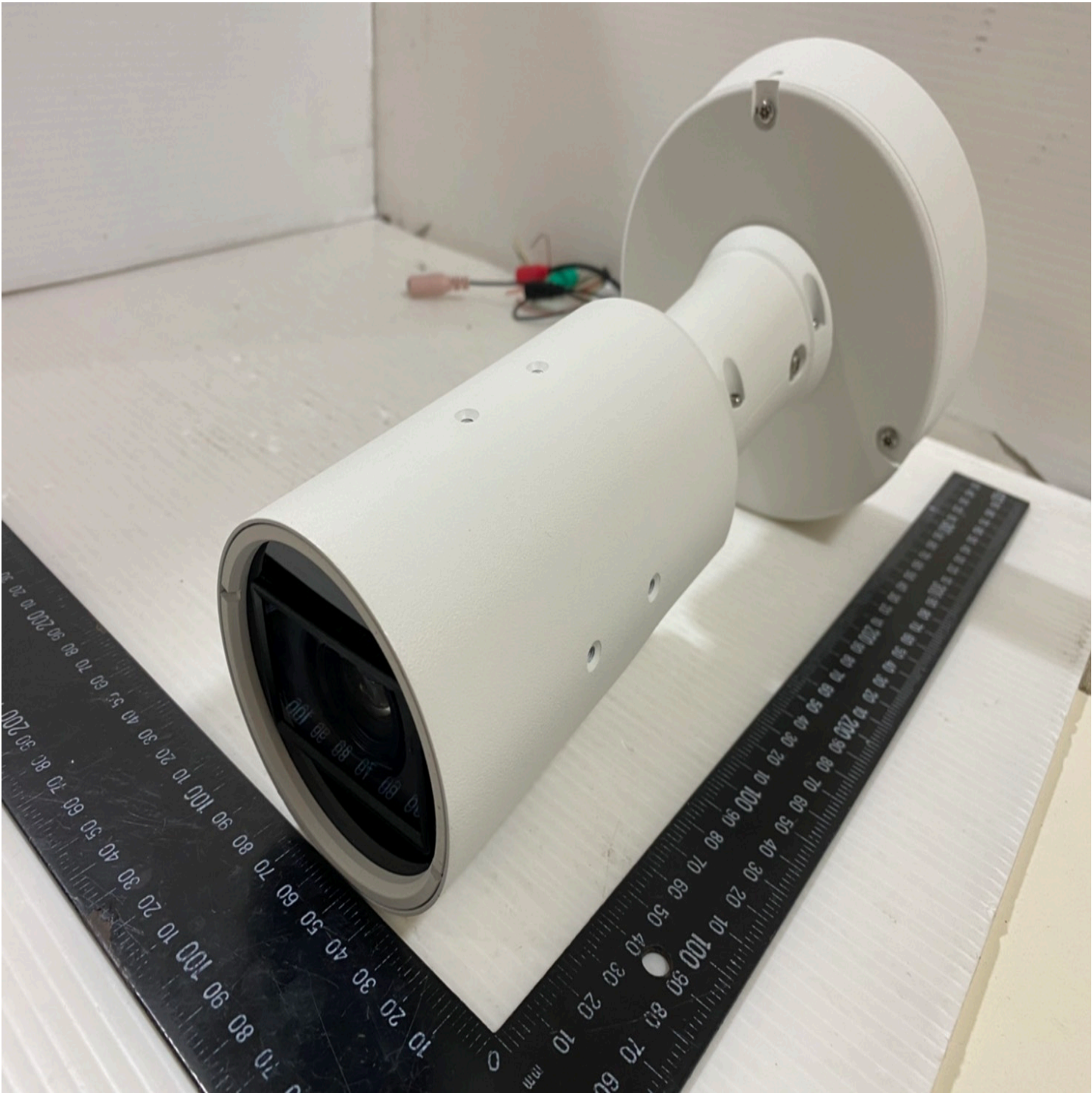




Figure-3 Page-1

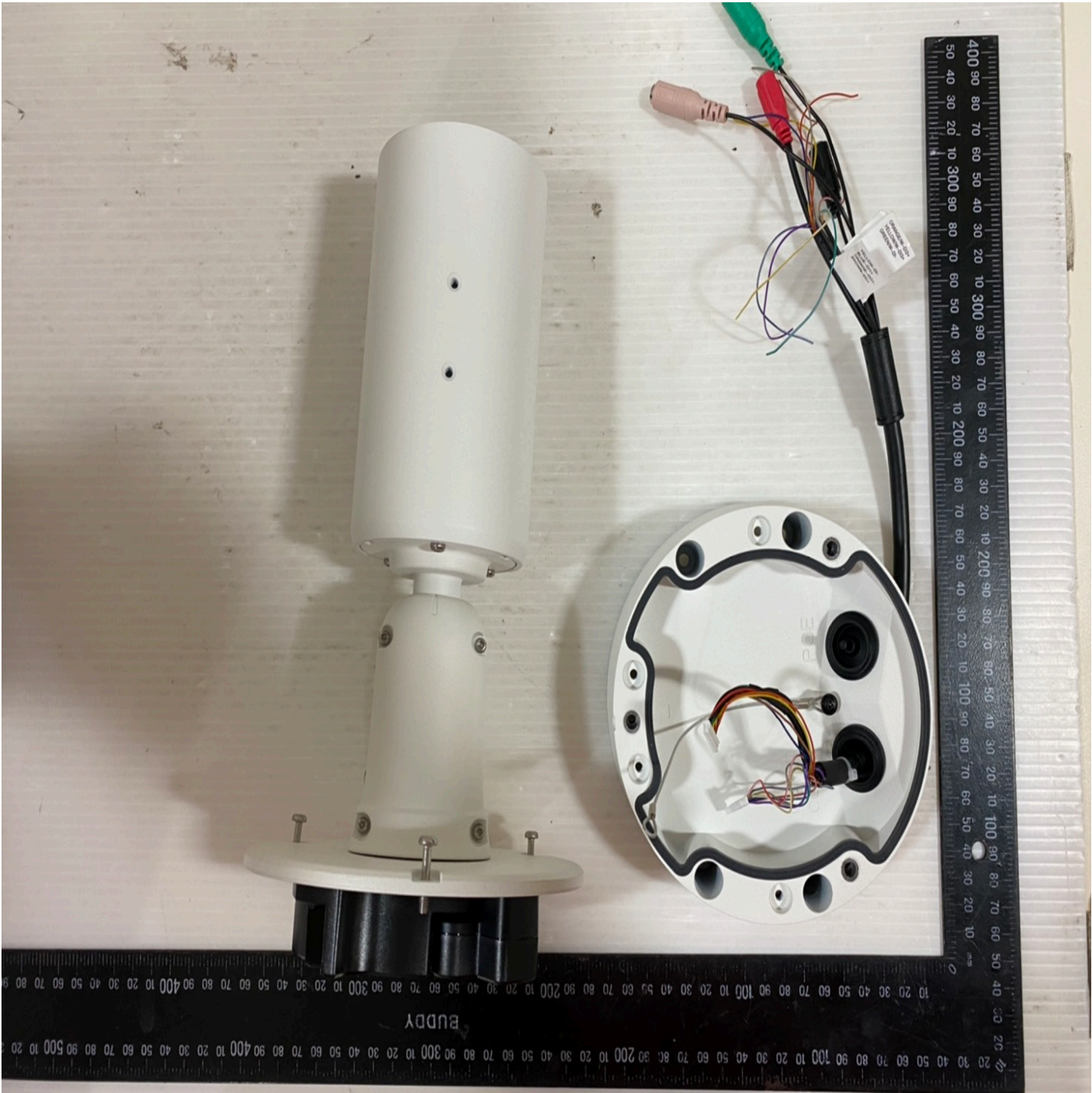


Figure-4 Page-1

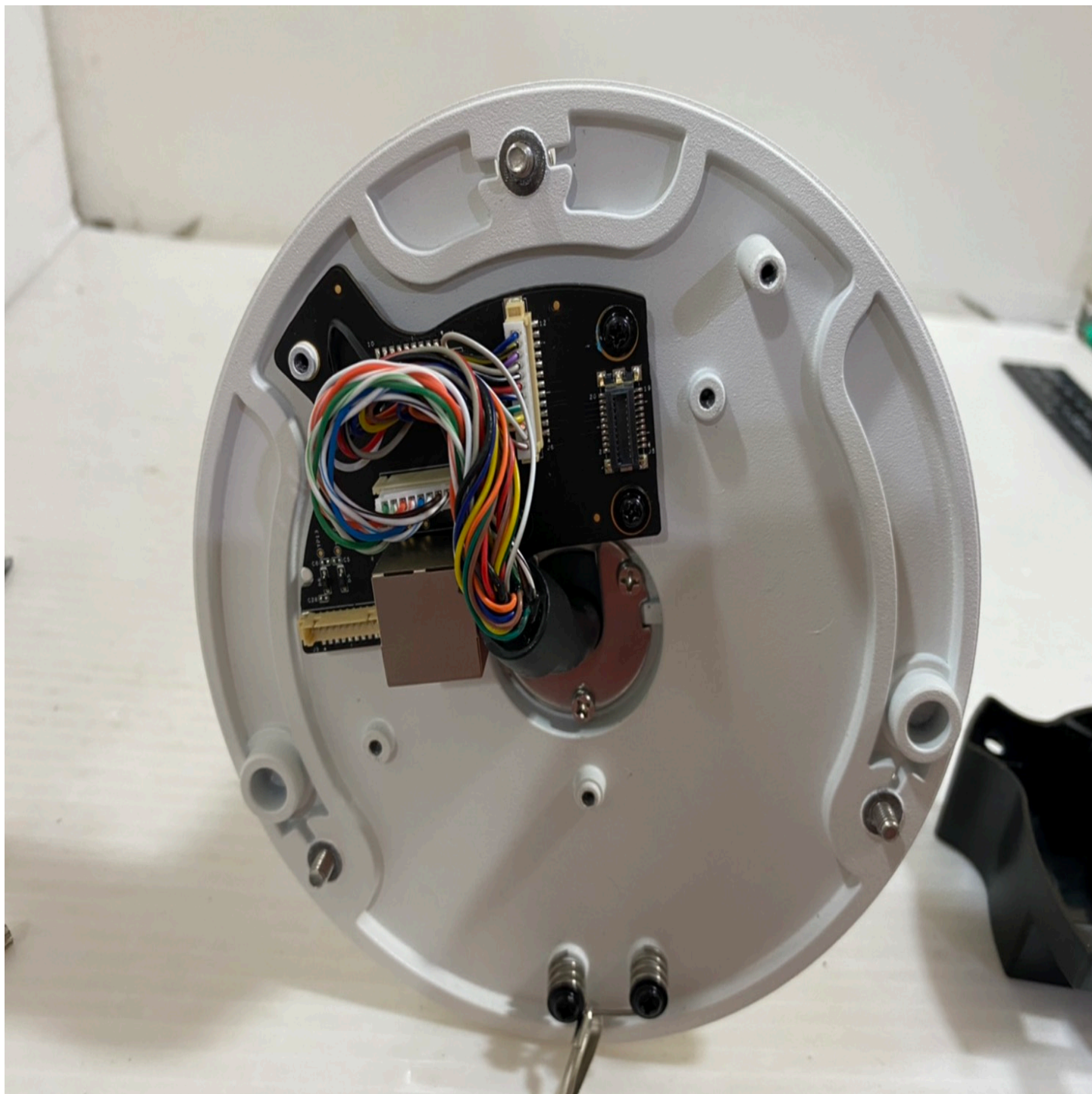




Figure-5 Page-1

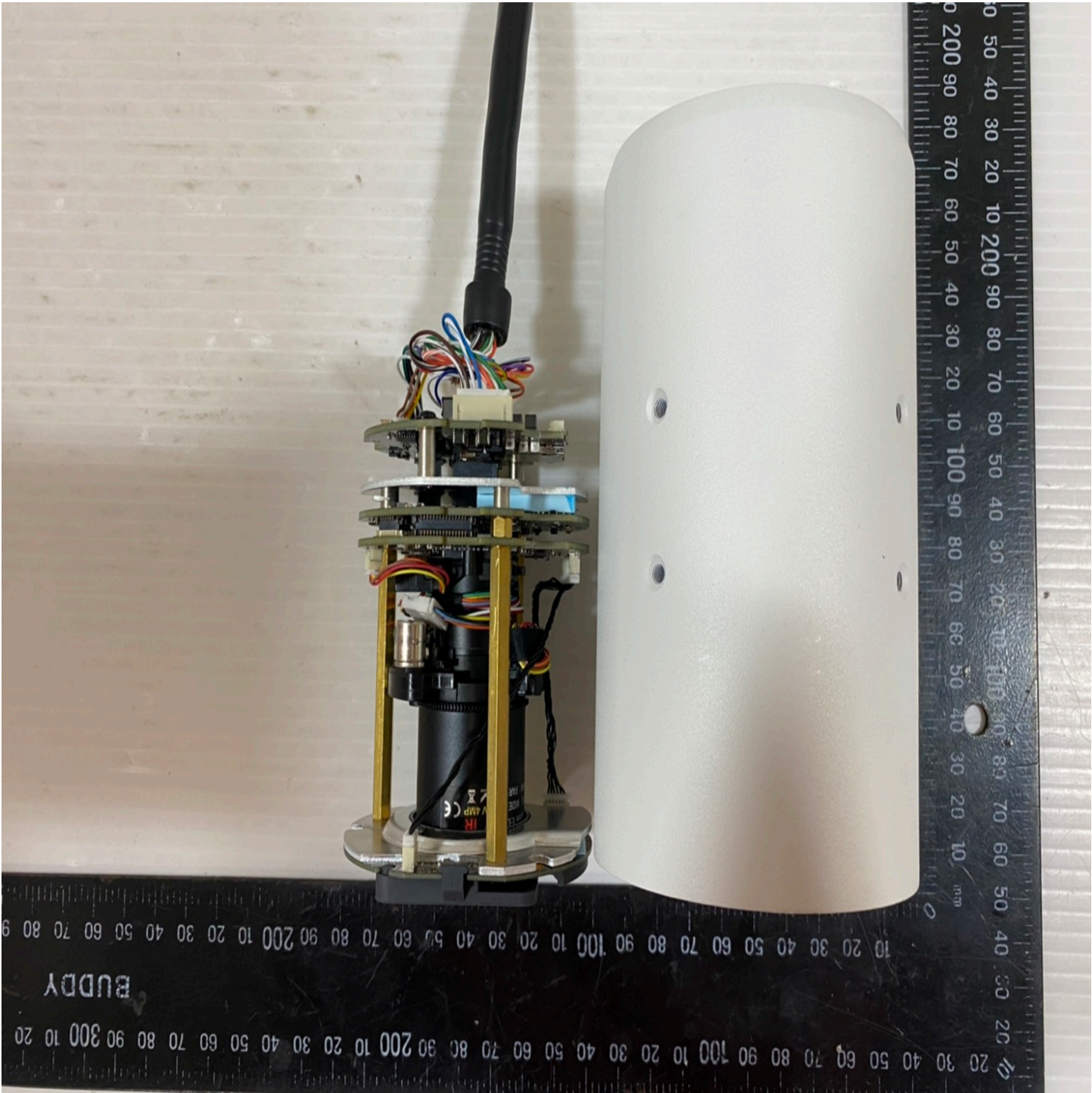


Figure-6 Page-1

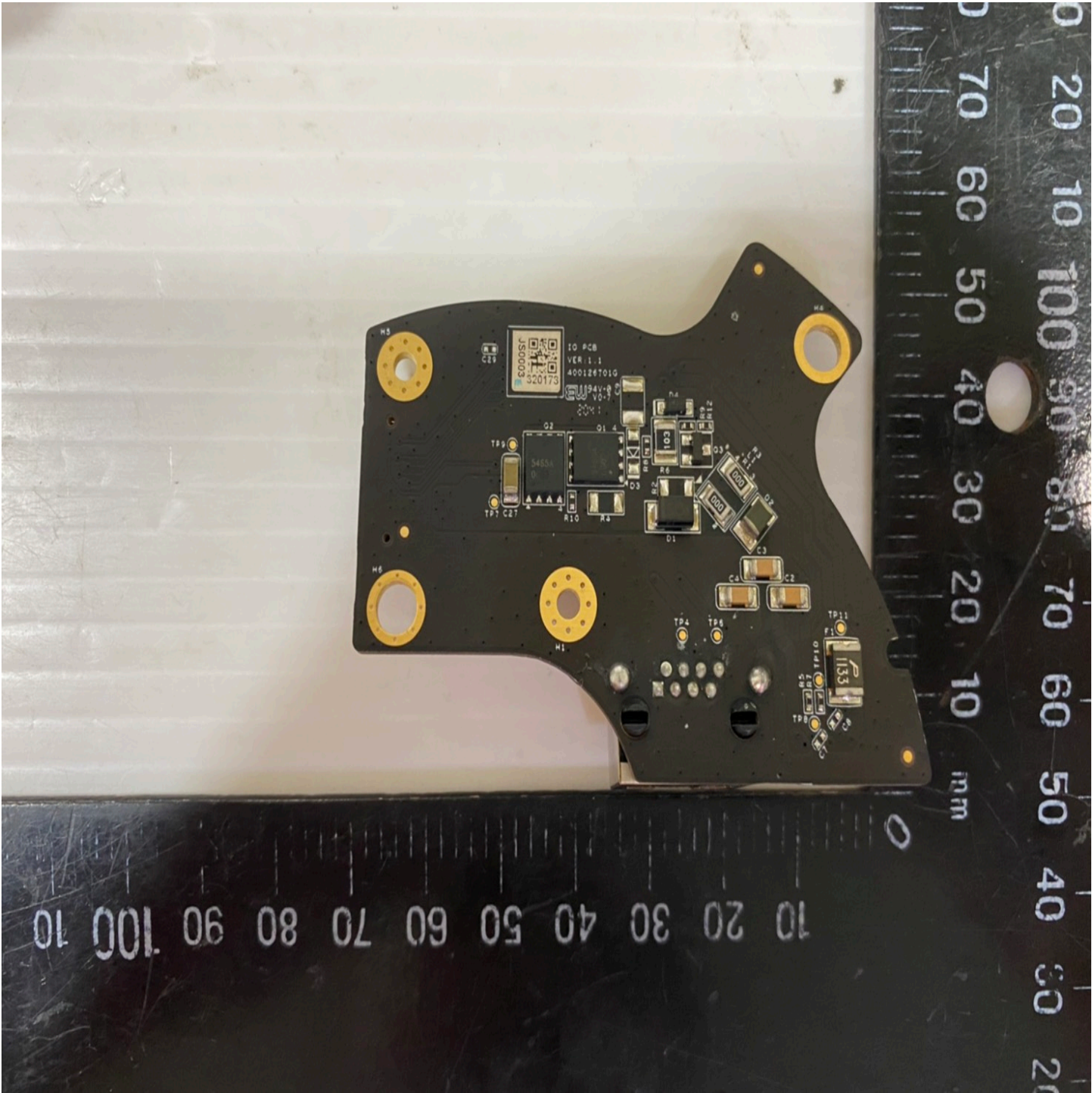




Figure-7 Page-1

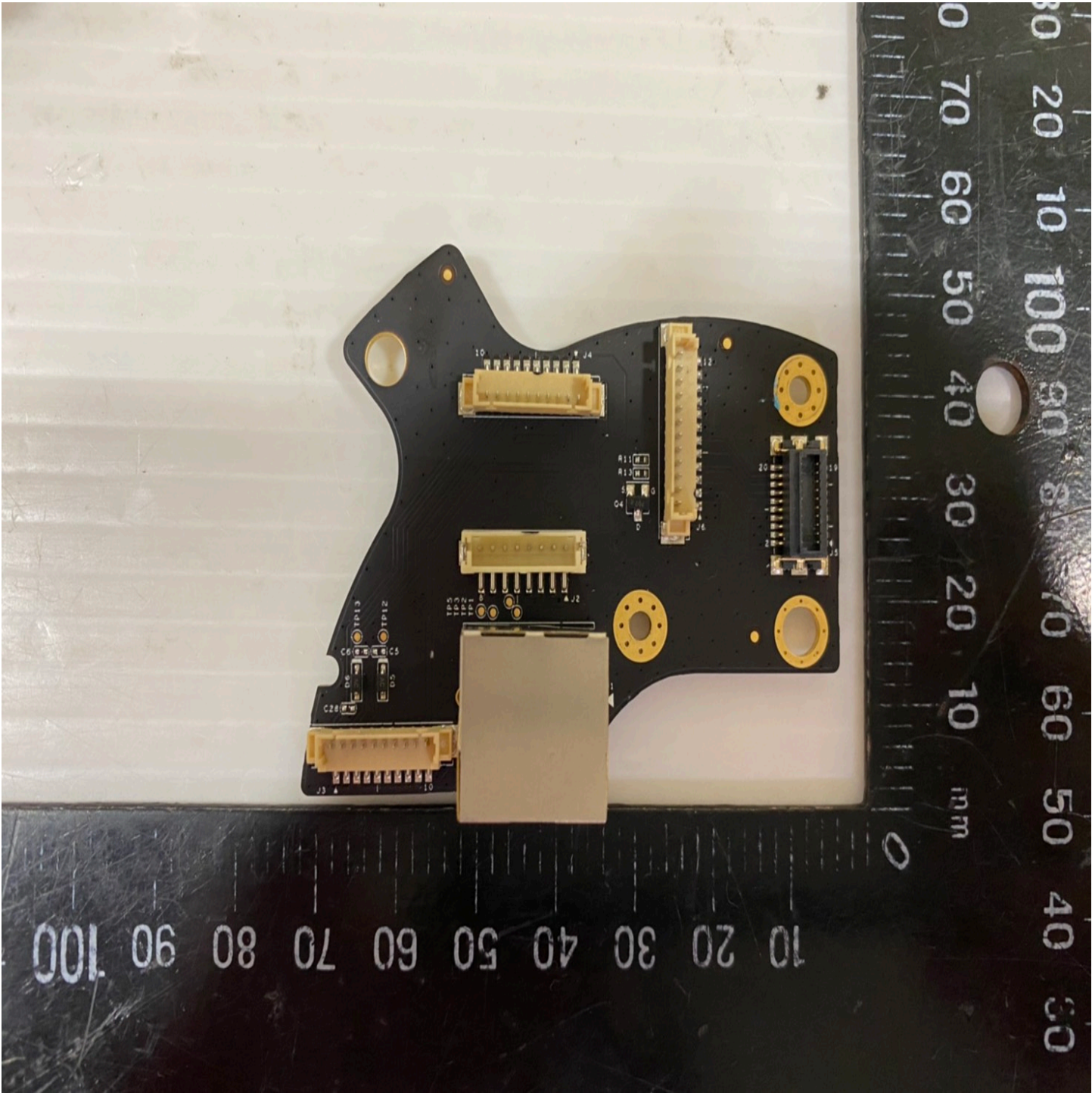




Figure-8 Page-1



Figure-9 Page-1

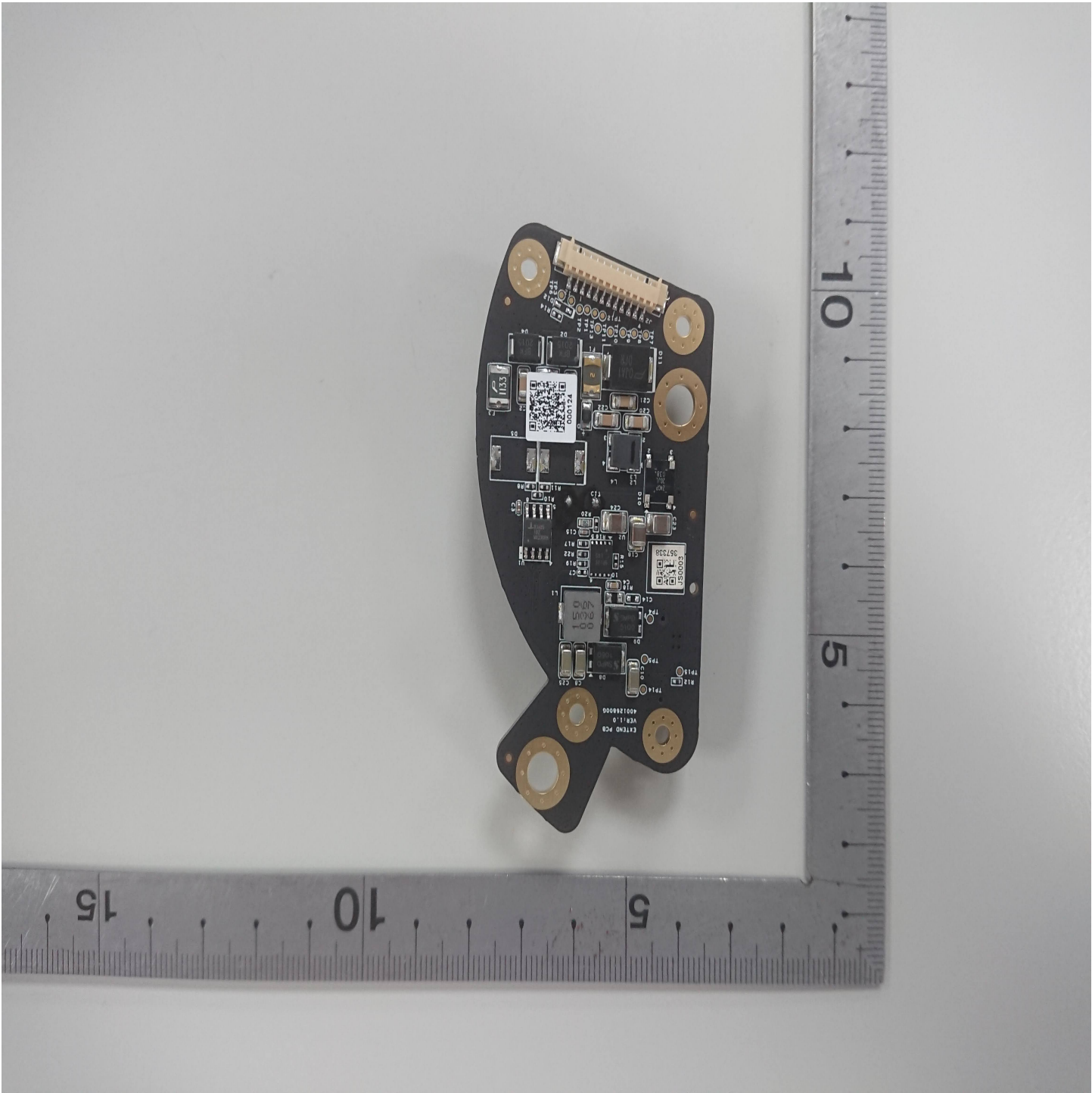




Figure-10 Page-1

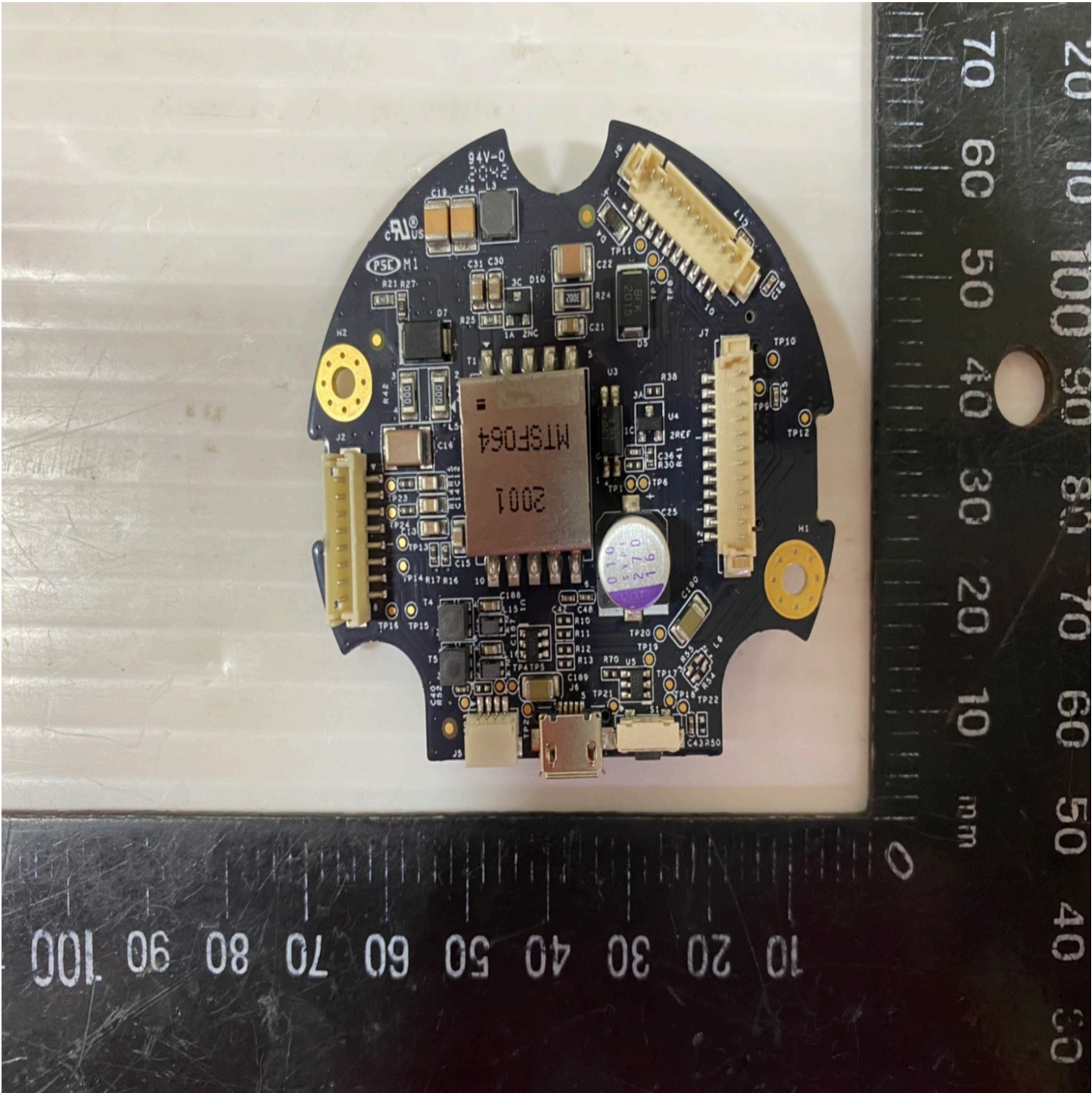




Figure-11 Page-1

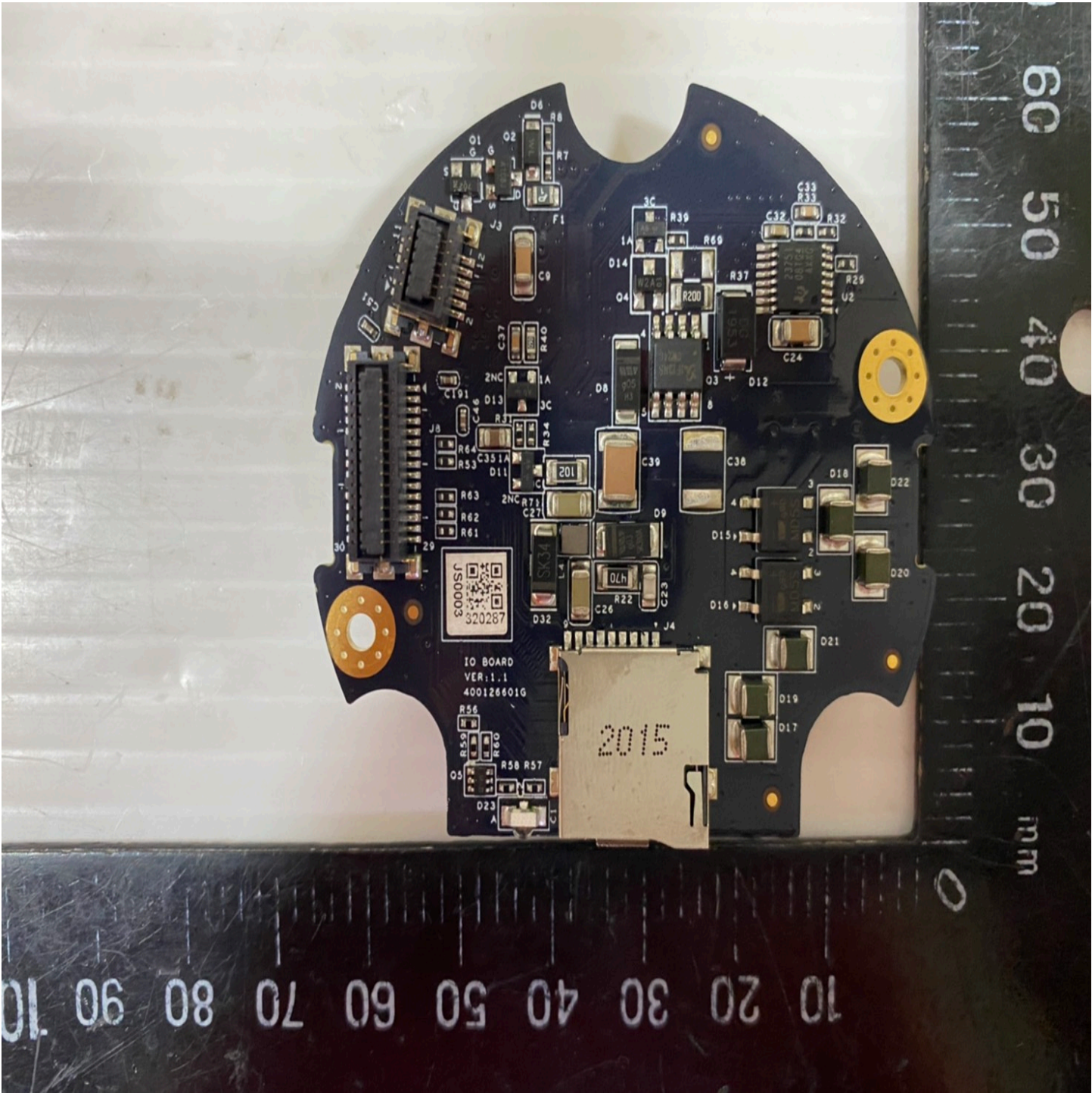




Figure-12 Page-1

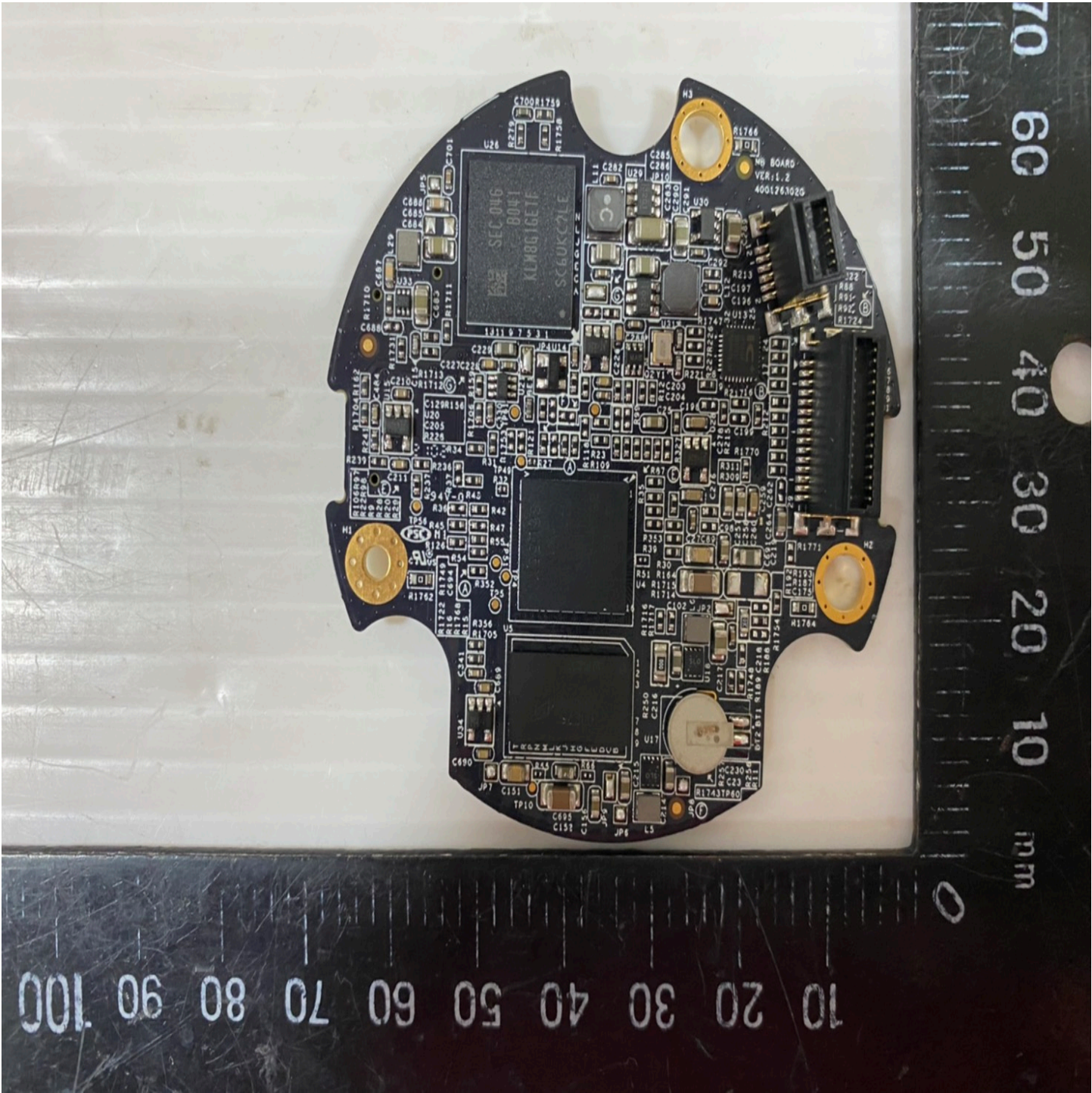




Figure-13 Page-1

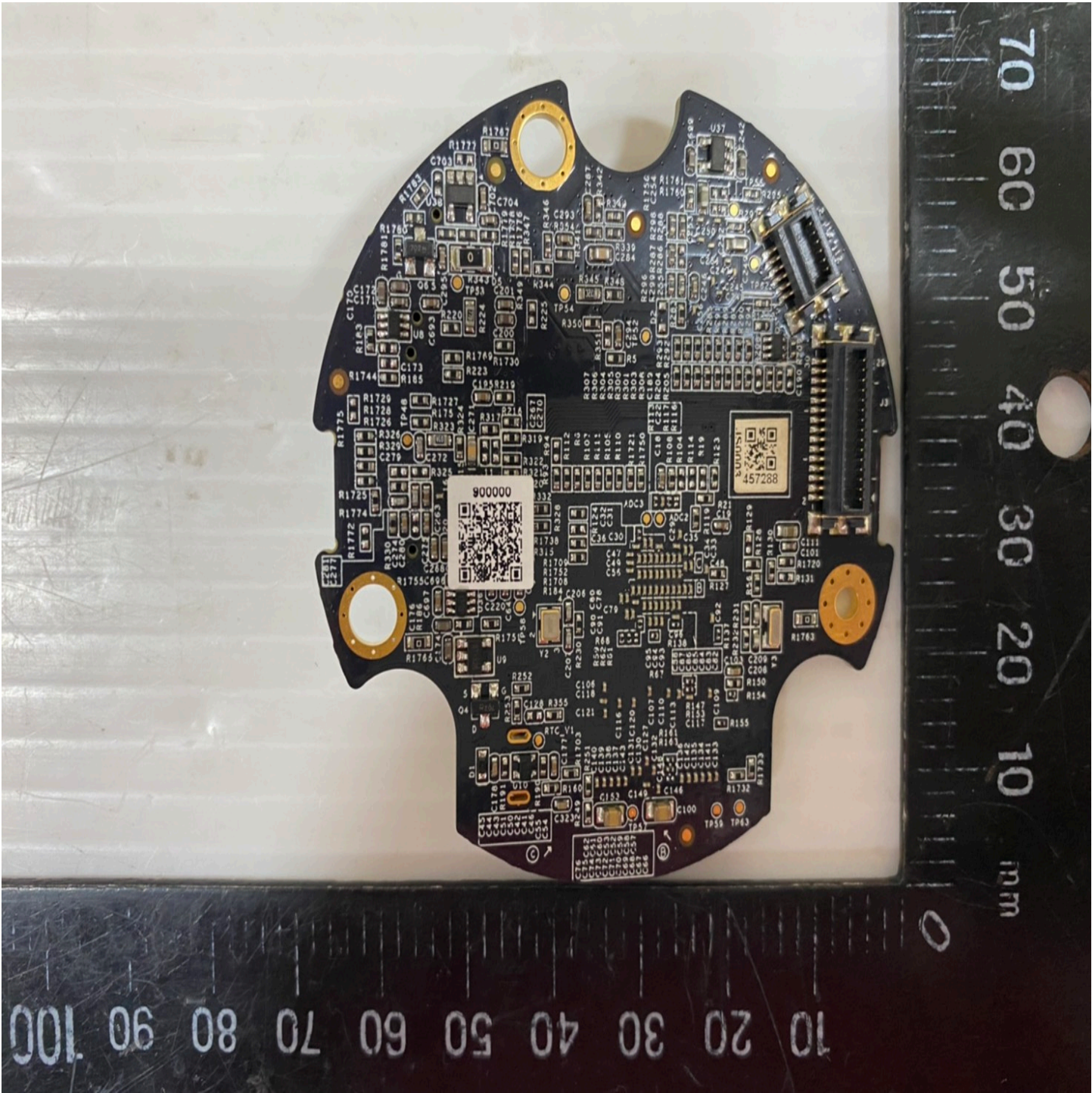




Figure-14 Page-1

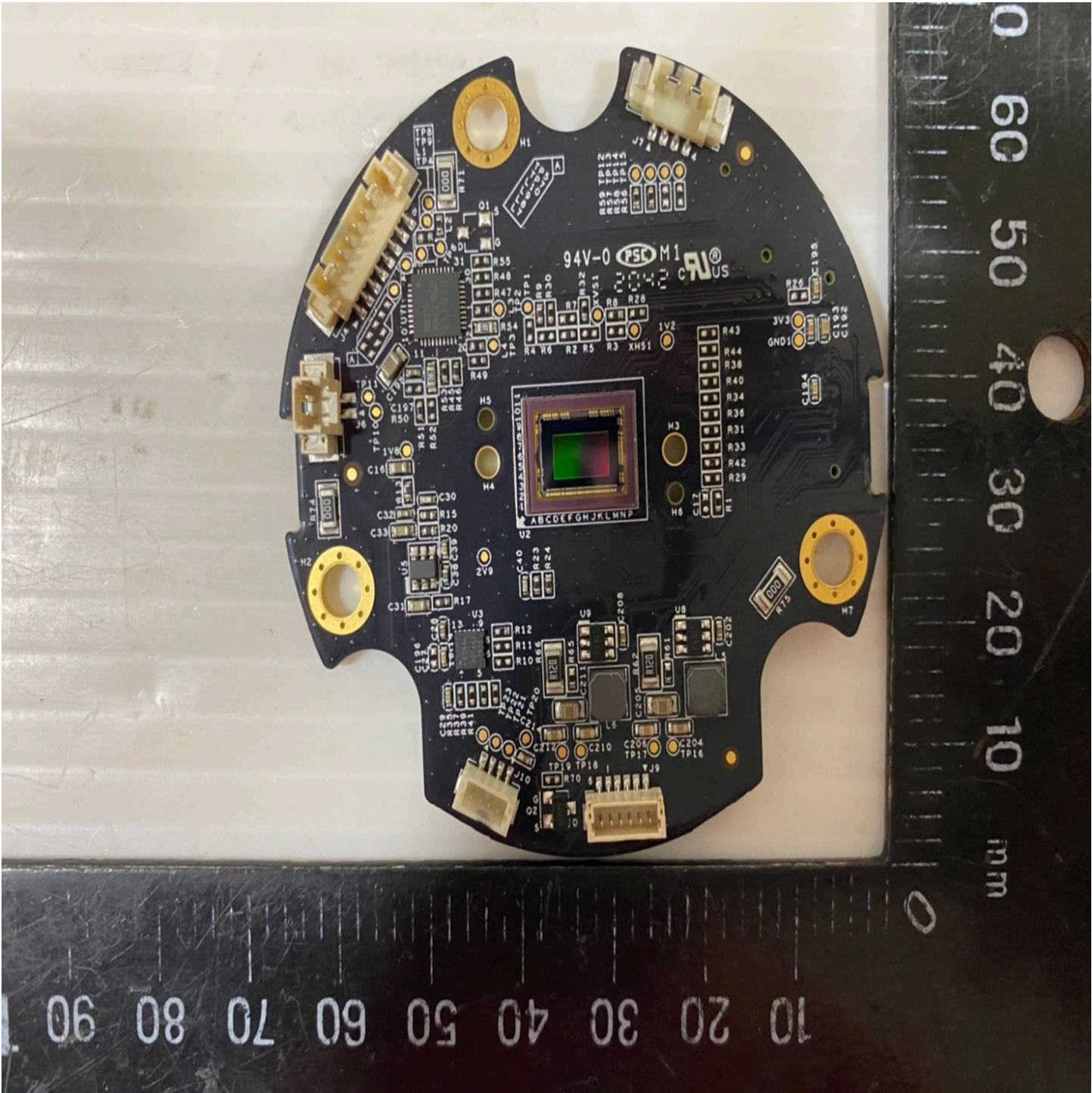




Figure-15 Page-1

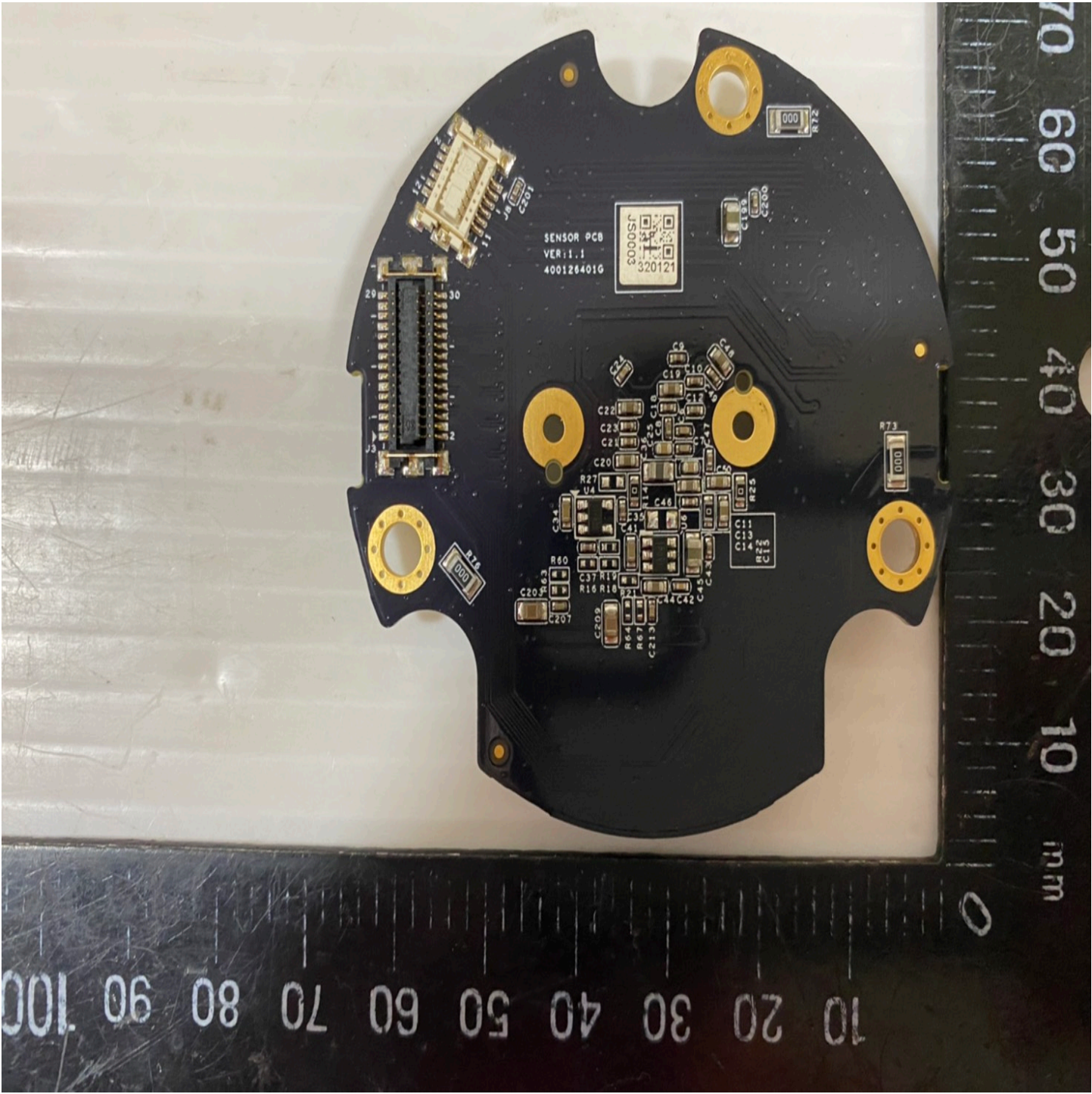




Figure-16 Page-1

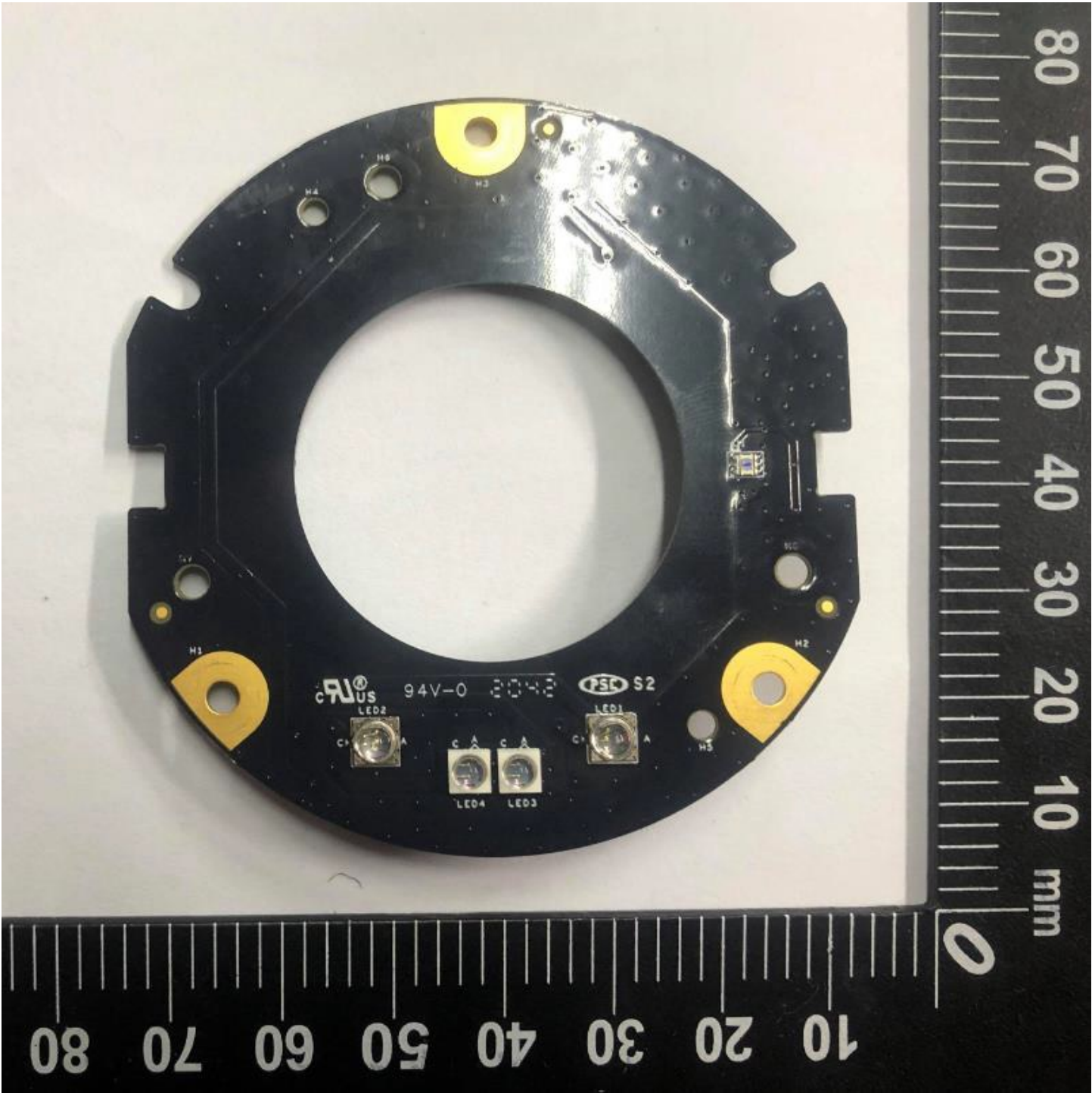


Figure-17 Page-1

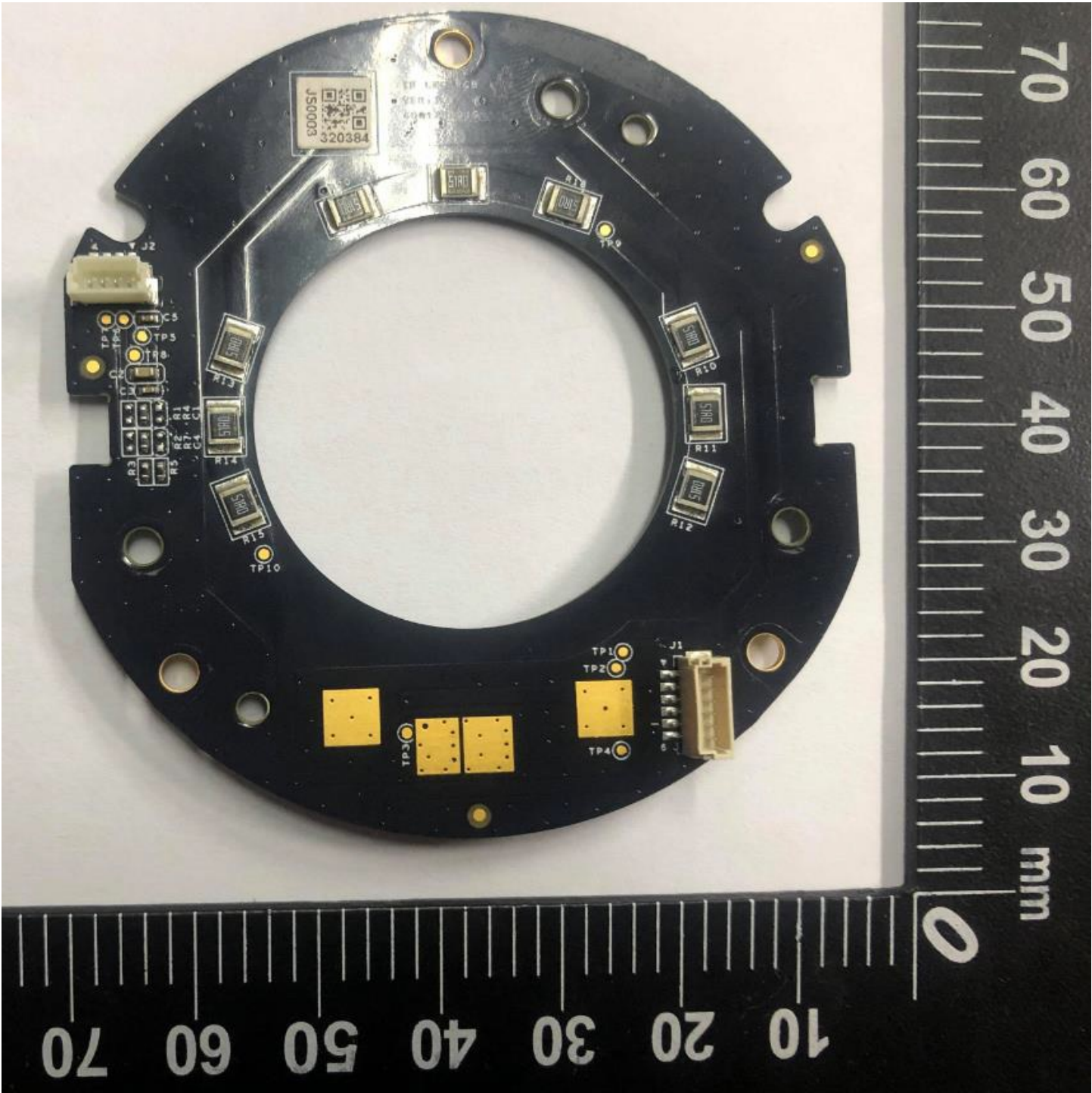


Figure-18 Page-1

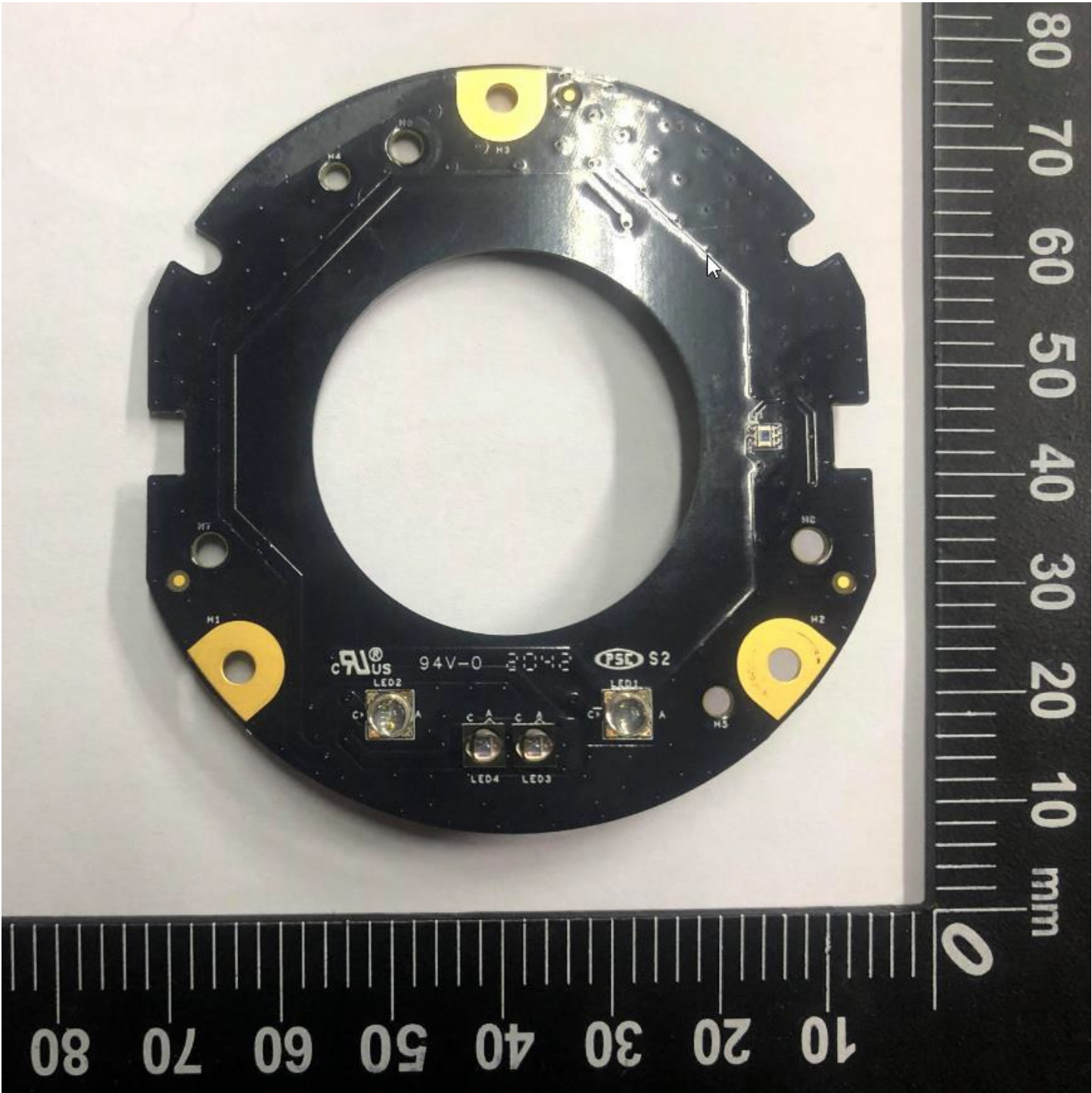




Figure-19 Page-1

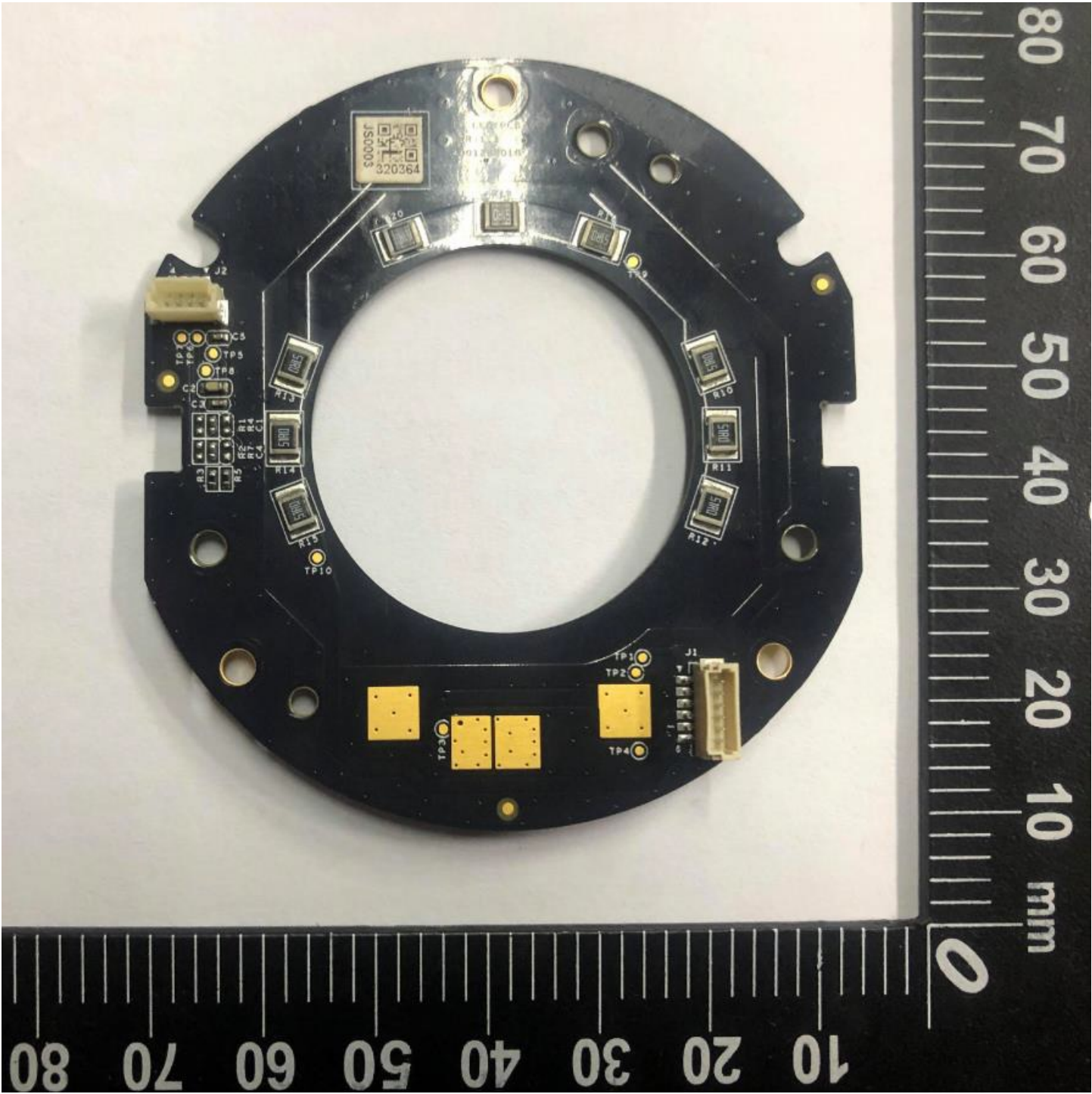
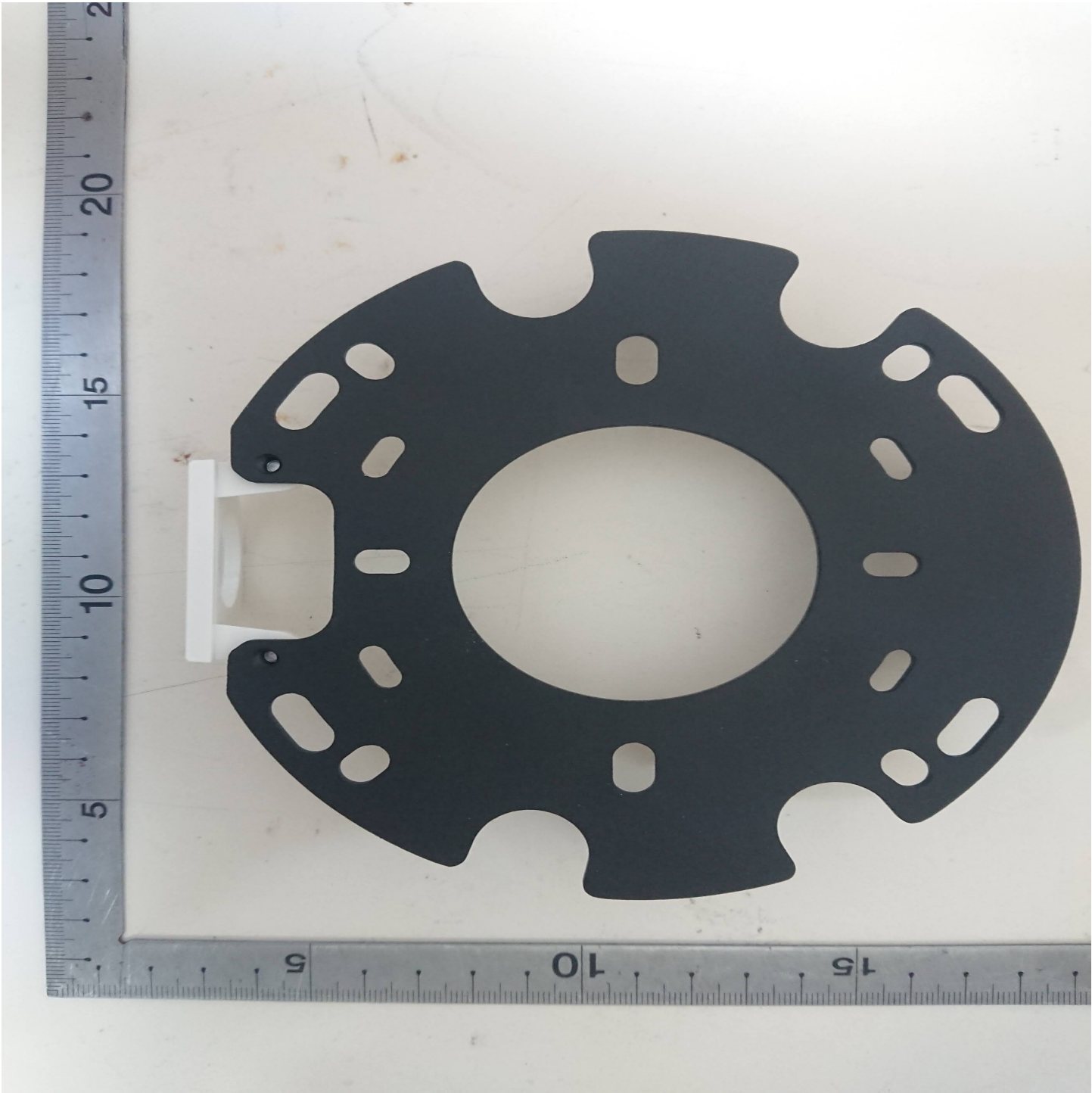


Figure-20 Page-1



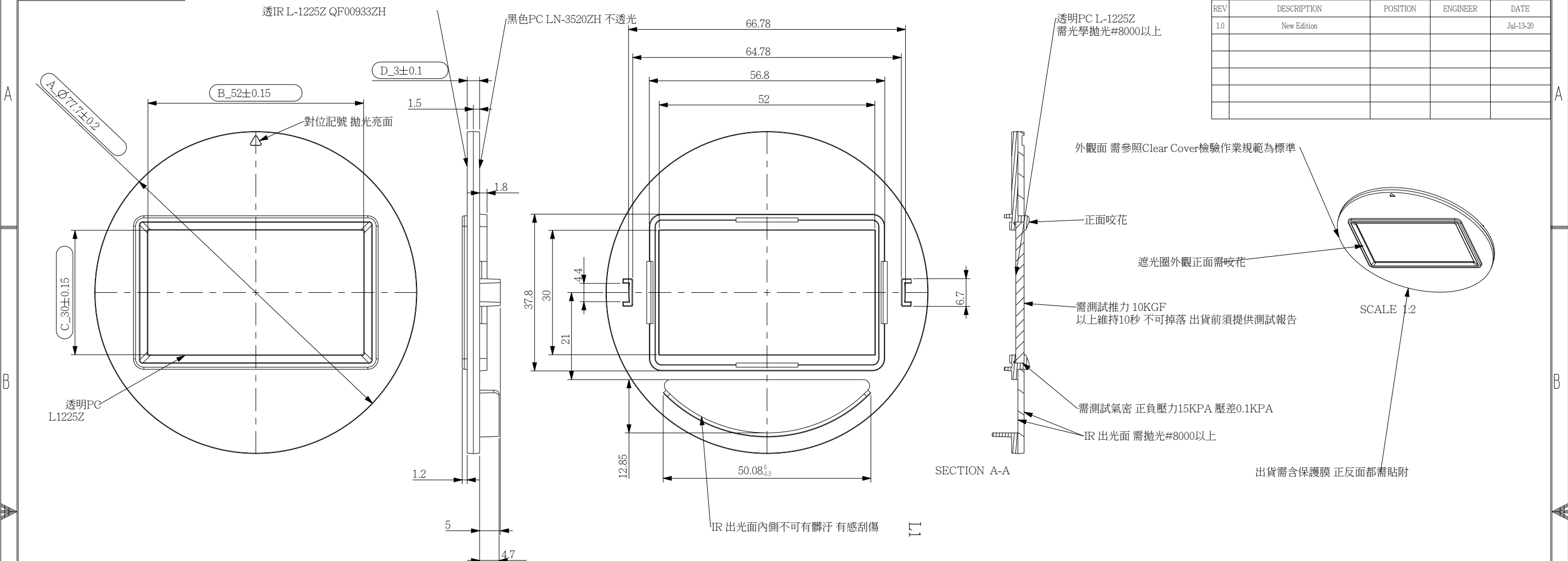
Figure-21 Page-1



The following Page(s) are related to Illustration-1. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

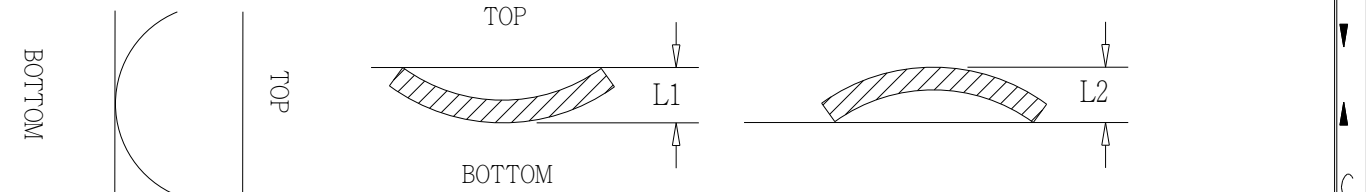


機密|CONFIDENTIAL





REVISIONS				
REV	DESCRIPTION	POSITION	ENGINEER	DATE
1.0	New Edition			Jul-13-20

- 注意事項:
- 材質:PC L-1225Z QF00933ZH, 平均肉厚:2.0mm  
顏色:黑+透明 需符合UL 94V-0 (F1)
  - 部品內PC含HC製程, 外透IR PC 不須HC 出貨需用光譜儀測試IR穿透 760-940 NM 85%以上 並提供穿透率報告
  - 部品表面不需要咬花 表面需要拋光, 拋光番號為8000# 使用光學研磨
- 注意事項
- 材質:PC940-701 不透光 具UL防火(94HB)與耐候(II)等級
  - 顏色:黑
  - 部品表面需要咬花
- 注意事項:
- 材質L1225Z 具UL防火(94HB)與耐候(II)等級
  - 平均肉厚:2.0mm, 成品重量(3D Model根據估算/成品實測):
  - 表面需硬化處理(Hard Coating), 硬度值>1H 透光率88%以上
  - H.C.吊柄剪斷後, 缺口需確保平整或凹陷
  - 成品需加貼保護膠膜(需耐溫70度/48hrs, 無殘留痕跡)
  - 成品色差請依據PANTONE或參考色樣為標準, dE<1.5(請於生產前提供L,A,B和delta E的數據最少30pcs)
  - 成品表面不可有成型不良痕跡、破損、油污、殘料、積漆與毛邊、刮傷、髒汙、雜點, 外觀級別請參閱圖面標示, 相關檢驗細則, 請依據[CLEAR COVER類檢驗作業規範]為標準
  - 橢圓符號框尺寸為重點檢驗尺寸
  - 變形量請依圖面標示,或尺寸<0.25%定義
  - \*符號為CPK量測尺寸(量測數量最少為30pcs)
  - 毛邊<0.1mm
  - 所有料件、組裝配件(例如銅釘等等)以及包裝之材質都需符合RoHS環保規範,需符合歐盟2011/65/EU法規之有害物質限制含量以下規定且不接受任何排除條款,如此才符合我司G料號的判定標準
  - 包裝規範:包裝的設計不可讓產品在運送過程中,有碰刮傷,甚至撞傷或是噴漆毀損剝落刮傷等等,包裝材質不可用報紙等...產品上不可有油污、雜質和髒汙,高光部品需要有保護膜保護外觀
  - 噴漆檢驗規範(尺寸):不可以影響各部位尺寸,圖面標柱的尺寸公差階為噴漆後的尺寸規範
  - 噴漆檢驗規範(外觀):B級面,內構件,不可積漆粉塵異物沾黏沙孔掉漆漏底材等不良,未提及的部分請依照我司入料件驗規範為主
  - 絕不可使用二次料,就算是部品本身的料頭也不允許當做二次料使用,若有需要,客戶端有權要求廠商提供MI值報告,廠商則有義務free support並於3天內提供測試報告
  - 所有檢驗報告都需要在2年以內,反之廠商有責任義務於一周內提供2年內的檢驗報告
  - 所有未標柱之尺寸都需要符合公差等級F內的公差表
  - 兩面外觀的料件,公模面,頂針和分模線不可有模具油污或是毛穴
  - 頂針不可高於產品面,只能低於產品面under 0.1mm
  - 模具資訊,模具壽命:30萬以上,模具穴數:1穴,廠商有義務提供模具3D圖和IDFM REPORT(幾板模?公母模水陸位置?進料點方式?頂針位置?模具噸數?公母模仁材質?模座材質?分模線?原料規格書?模具刻字位置?穴號位置?)和模具2D圖給品審確認



DIRECTION	L1	L2
FRONT VIEW	UNACCEPTABLE	< 0.8mm
BACK VIEW	< 0.8mm	UNACCEPTABLE
LEFT VIEW	UNACCEPTABLE	< 0.8mm
RIGHT VIEW	< 0.8mm	UNACCEPTABLE

正式圖面

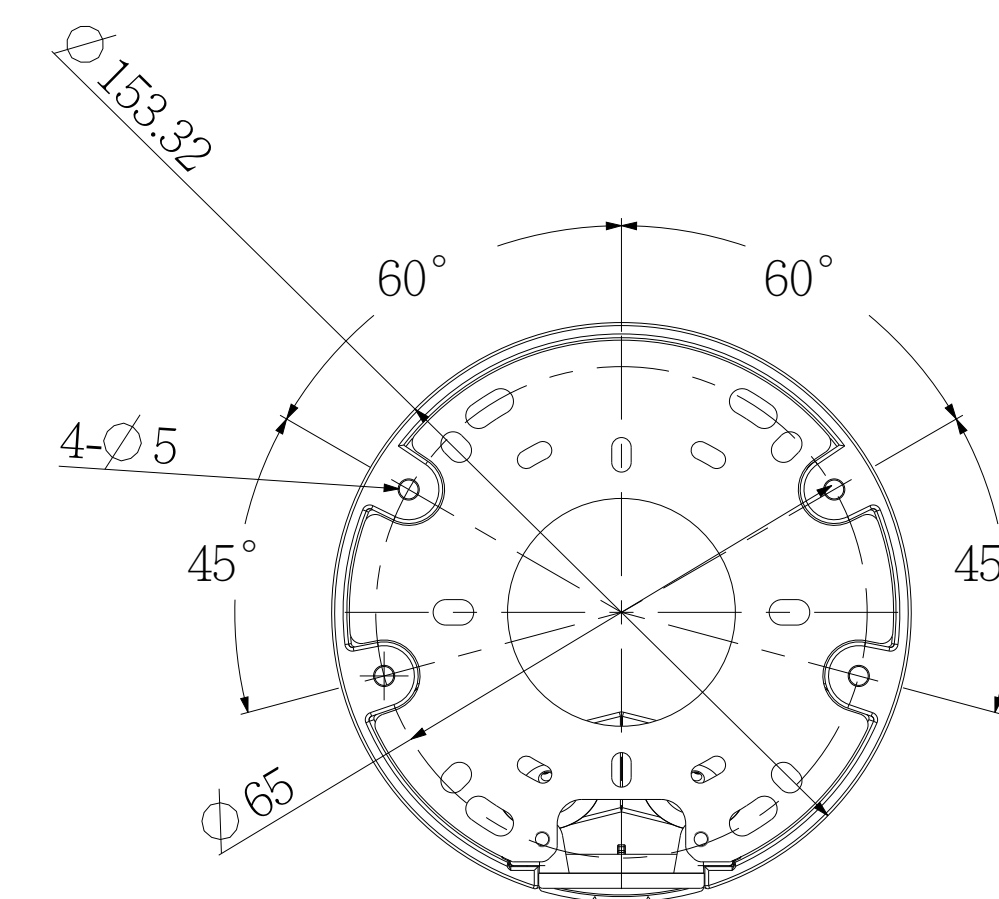
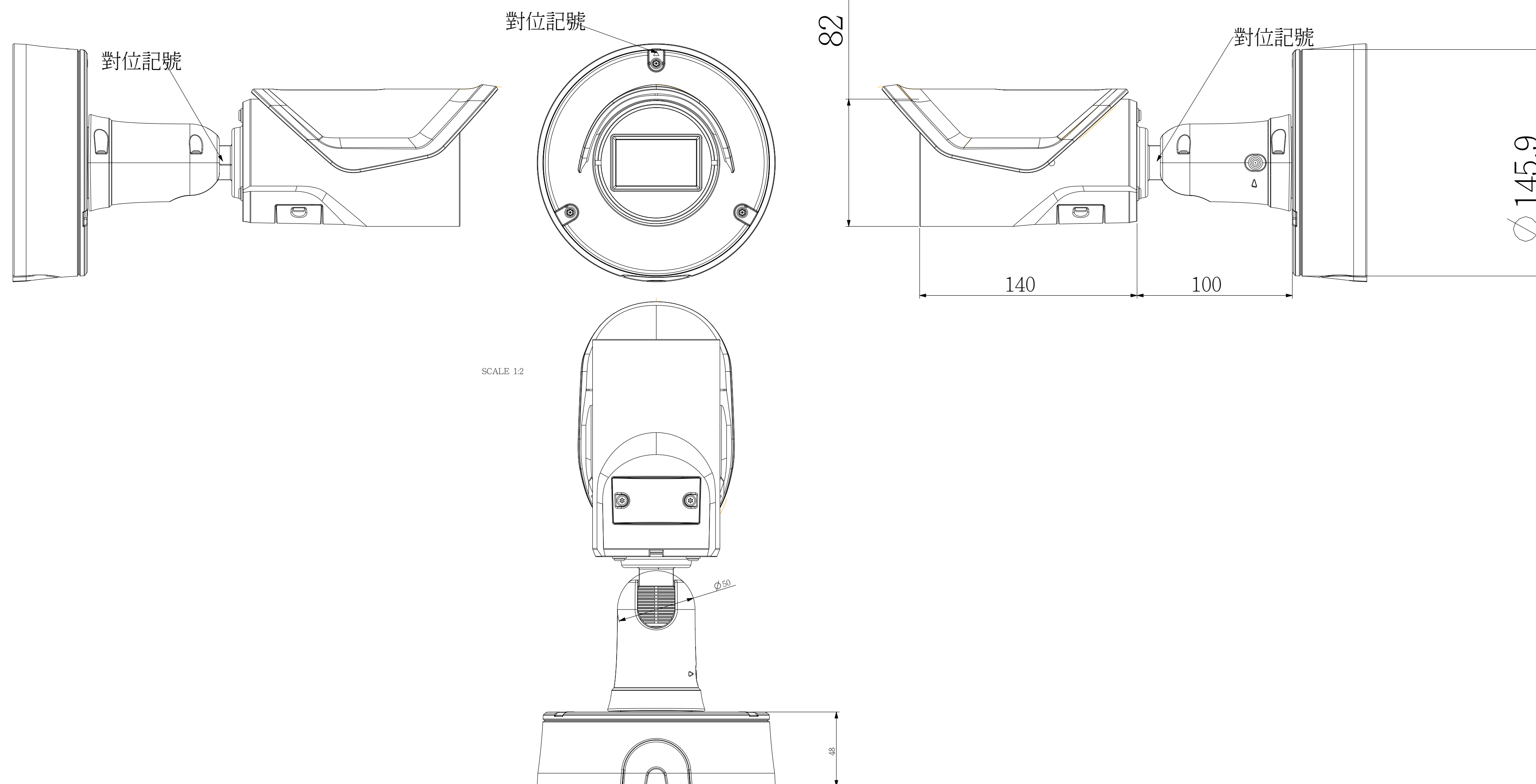
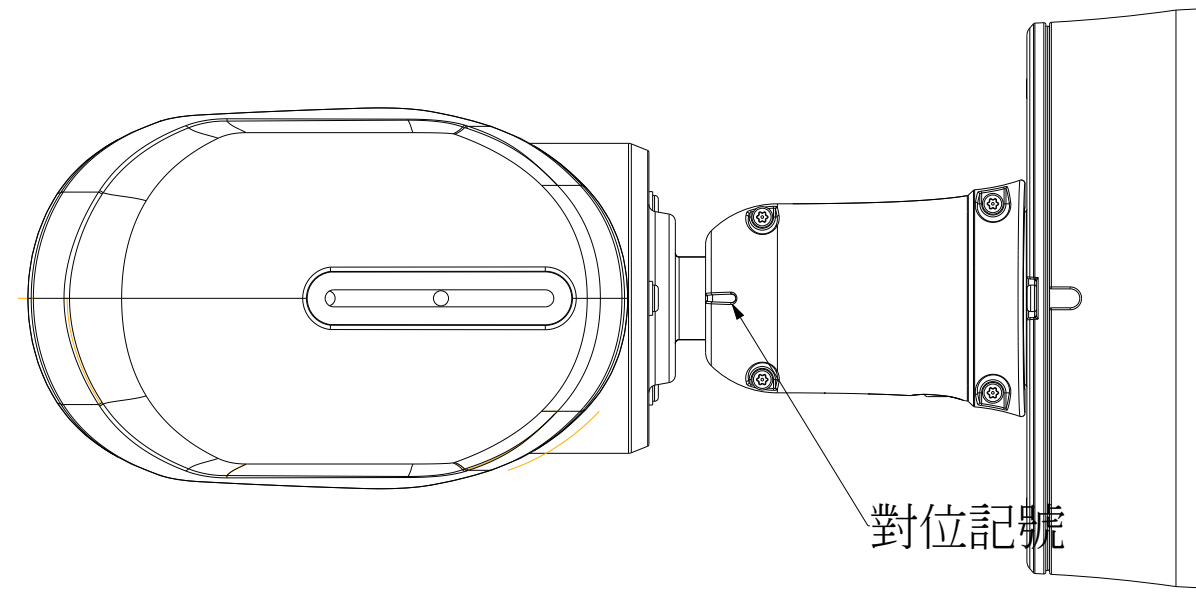
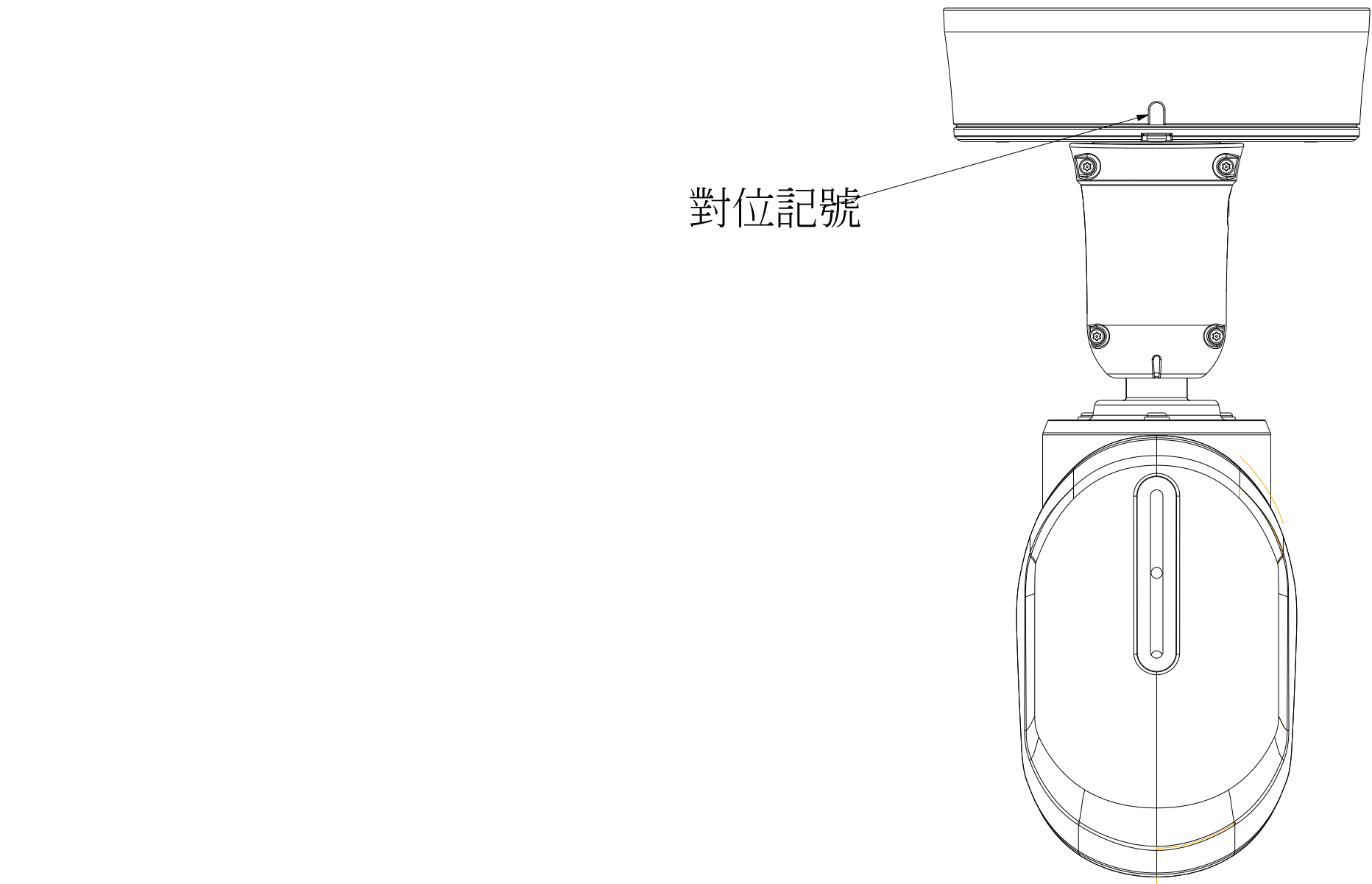
All dimension without tolerance should conform to the grade on table F						
公差等級	線性尺寸允許偏差 (Range/mm)					
名稱	0.5-3	3-6	6-30	30-120	120-400	400-1000
F	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3
M	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2
USER						
公差等級	圓錐角所七角內的相應的角度偏差 (Range/arcmin)					
名稱	≤10	10-50	50-120	120-400	>400	
F	±1°	±1° 30'	±1° 20'	±1° 10'	±1° 5'	
M	±1°	±1° 30'	±1° 20'	±1° 10'	±1° 5'	
C	±1° 30'	±1°	±1° 30'	±1° 15'	±1° 10'	
USER						
<div><div>VIVOTEK</div><div>VIVOTEK Incorporated</div><div>THIS DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO VIVOTEK INC. AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT VIVOTEK'S CONSENT.</div><div>CP02-WI-014-01-6</div></div>						
PART NO.		610142600G				
ENGR	Howard	MODEL	IB9367-HT-V2			
DRN	Howard	DRAWING TITLE	IB9367-HT-V2-DOUBLE-PC-Z7135			
CHK	KIMI	ISSUE DATE	Jul-13-20	REVISION	1.0	
M'TL	L-1225Z QF00933ZH	SCALE	1:1	UNIT	mm	
FINISH	HC+光學拋光	SIZE	A3	SHEET	1 OF 1	
 第三角法						






The following Page(s) are related to Illustration-2. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

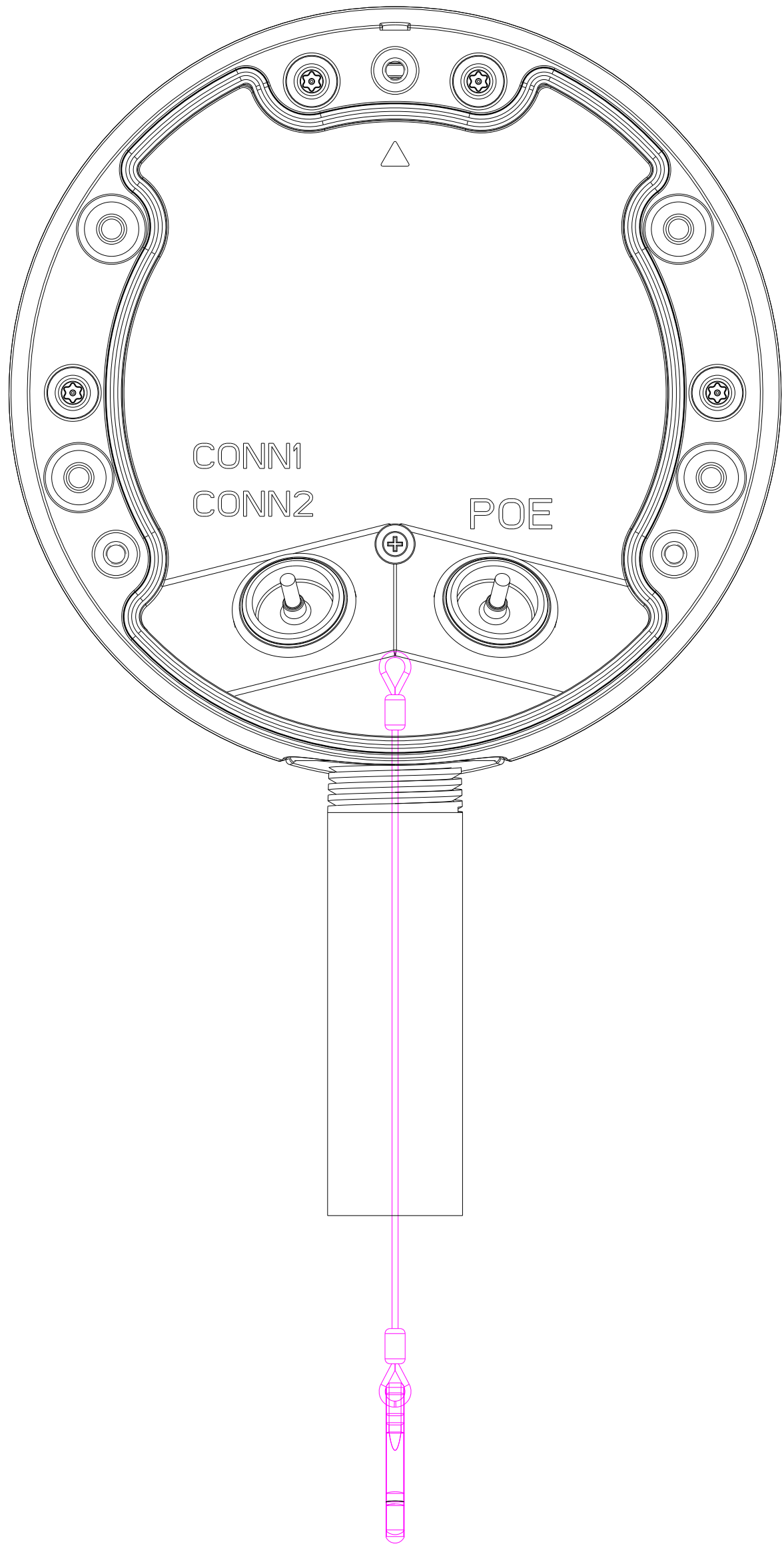
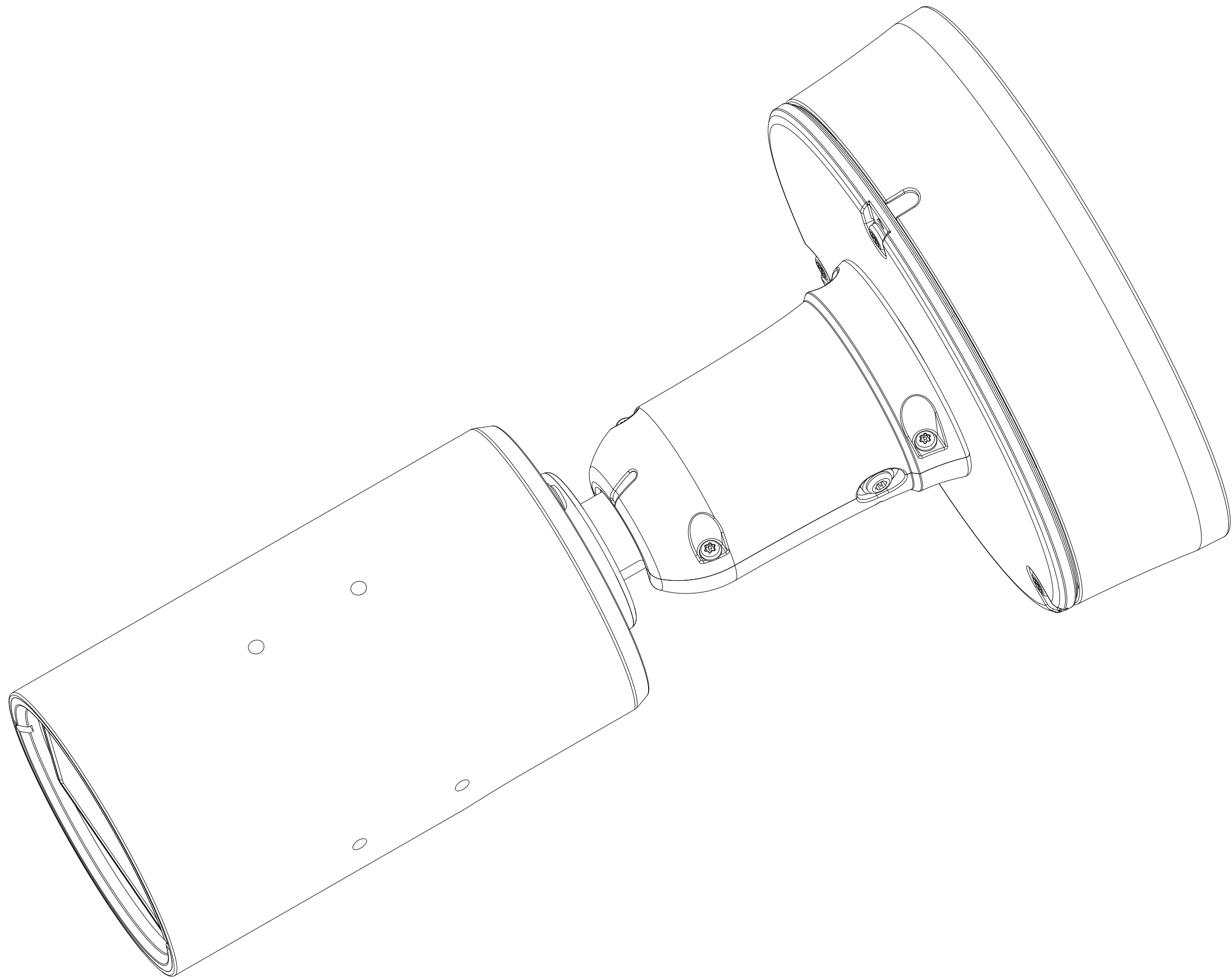
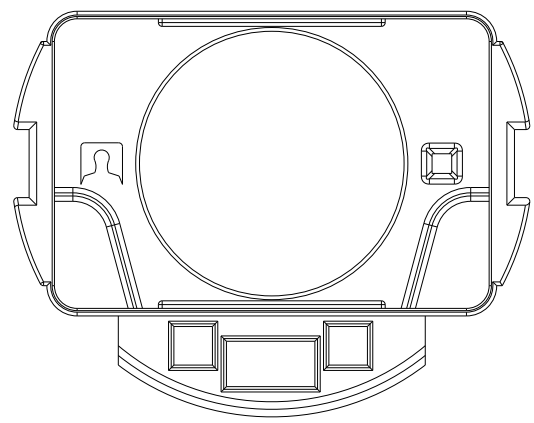
REVISIONS				
REV	DESCRIPTION	POSITION	ENGINEER	DATE
1.0	New Edition			Jul-31-20

[illegible]

PART NO.					
ENGR	Howard	MODEL	IB9367-HT-V2		
DRN	Howard	DRAWING TITLE	IB9367-HT-V2_6VIEW		
CHK	KIMI				
MTL		ISSUE DATE	1-1-83	REVISION	1.0
FINISH		SCALE	1:1	UNIT	mm
 第三角法		SIZE	A1	SHEET	1 OF 2

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REVISIONS				
REV	DESCRIPTION	FORITEN	ENGINEER	DATE
1.0	New Edition			Jan-07-21



DIMENSIONS (Unit: mm)					
ITEM	1	2	3	4	5
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2	10.0	10.0	10.0	10.0	10.0
3	10.0	10.0	10.0	10.0	10.0
4	10.0	10.0	10.0	10.0	10.0
5	10.0	10.0	10.0	10.0	10.0

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VIVOTEK Incorporated	
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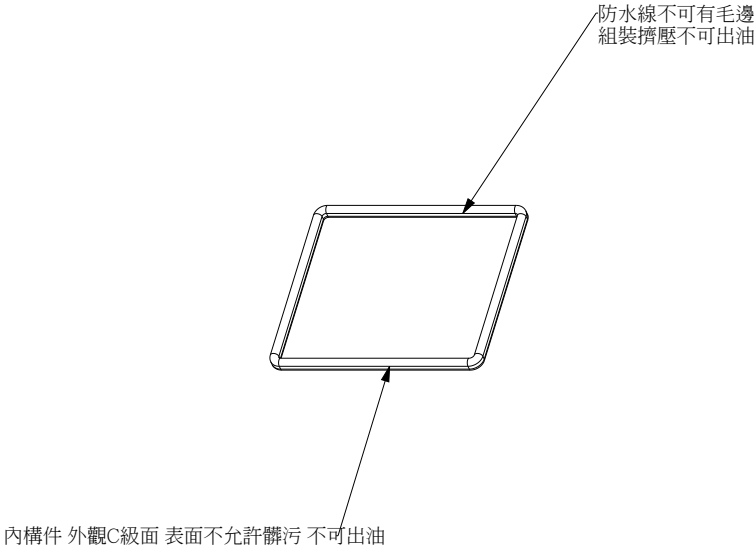
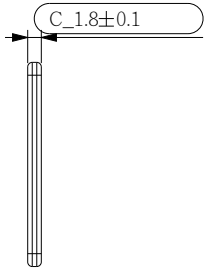
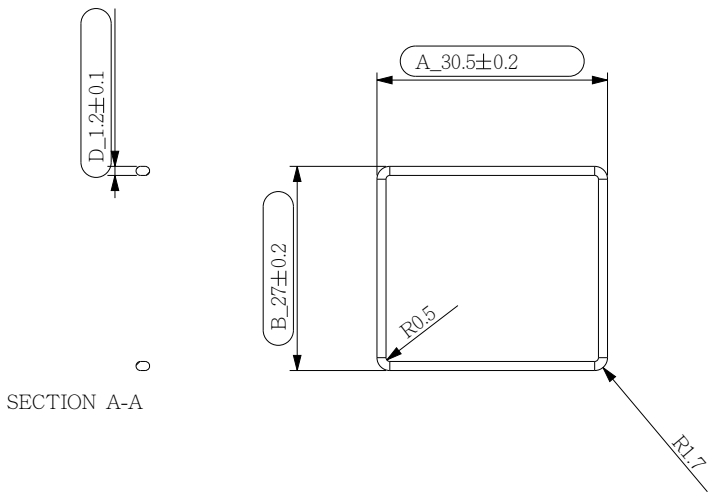
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DRN	Howard	DRAWING	IB8067-4T-V2_01VIEW
CHK	KIMI	TITLE	
MTL		ISSUE DATE	Jan-07-21
FINISH		SCALE	1:1
SIZE	A1	UNIT	mm
第三角法		SHEET	1 OF 2



The following Page(s) are related to Illustration-3. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

機密|CONFIDENTIAL

REVISIONS				
REV	DESCRIPTION	POSITION	ENGINEER	DATE
1.0	New Edition			Jul-24-20



- 注意事項:
- 材質:SILICON(TSE21869U)・具UL防火等級(94V-0)與UL 60950-22戶外環境使用規範
  - 顏色:原色
  - 硬度:60±5(Shore A)
  - 重量:0.2g(3D Model模擬估算/成品實測)
  - 成品色差請依據PANTONE或參考色樣為標準，dE<1.5
  - 成品表面不可有:成型不良痕跡、破損、油污、積漆與毛邊，外觀級別請參照圖面標示，相關檢驗細則，請依據(塑膠機構類檢驗作業規範)為標準
  - 橢圓符號框選尺寸為重點檢驗尺寸(成品尺寸，非素材數值)，請依據圖面標示量測
  - 參考尺寸以配合組裝為主要考量，必要時需要額外實配檢驗
  - 所有料件、組裝配件以及包裝之材質都需符合RoHS環保規範,需符合歐盟2011/65/EU法規之有害物質限制含量以下規定且不接受任何排除條款,如此才符合我司G料號的判定標準
  - 所有檢驗報告都需要在2年以內, 反之廠商有責任義務於一週內提供2年內的檢驗報告
  - 所有未標柱之尺寸都需要符合2D內的公差等級M公差表
  - 包裝規範:包裝的設計不可讓產品在運送過程中, 有碰刮傷,甚至撞傷或是噴漆毀損剝落刮傷等等,包裝材質不可用報紙等...產品上不可有油污,雜質和髒汙

All dimension without tolerance should conform to the grade on table F					
公差等級	線性尺寸允許偏差 (mm)				
名稱	0.5-3	3-6	6-30	30-120	120-400
F	±0.05	±0.05	±0.1	±0.15	±0.2
M	±0.1	±0.1	±0.2	±0.3	±0.5
C	±0.2	±0.3	±0.5	±0.8	±1.2
公差等級	圓錐角與所允許角度的偏差 (mm)				
名稱	≤10	10-50	50-120	120-400	>400
F	±1°	±1° 30'	±1° 20'	±1° 10'	±1° 5'
M	±1° 30'	±1°	±0° 30'	±0° 15'	±0° 10'
C	±1° 30'	±1°	±0° 30'	±0° 15'	±0° 10'
USER					

PART NO.		612112800G			
ENGR	Howard	MODEL	IB9367-HT-V2		
DRN	Howard	DRAWING TITLE	IB9367-HT-V2_SD_RUB		
CHK	KIMI	ISSUE DATE	Jul-24-20	REVISION	1.0
M'TL	TSE2186U	SCALE	1:1	UNIT	mm
FINISH	N/A	SIZE	A3	SHEET	1 OF 1
CP02-WI-014-01-6		第三角法			

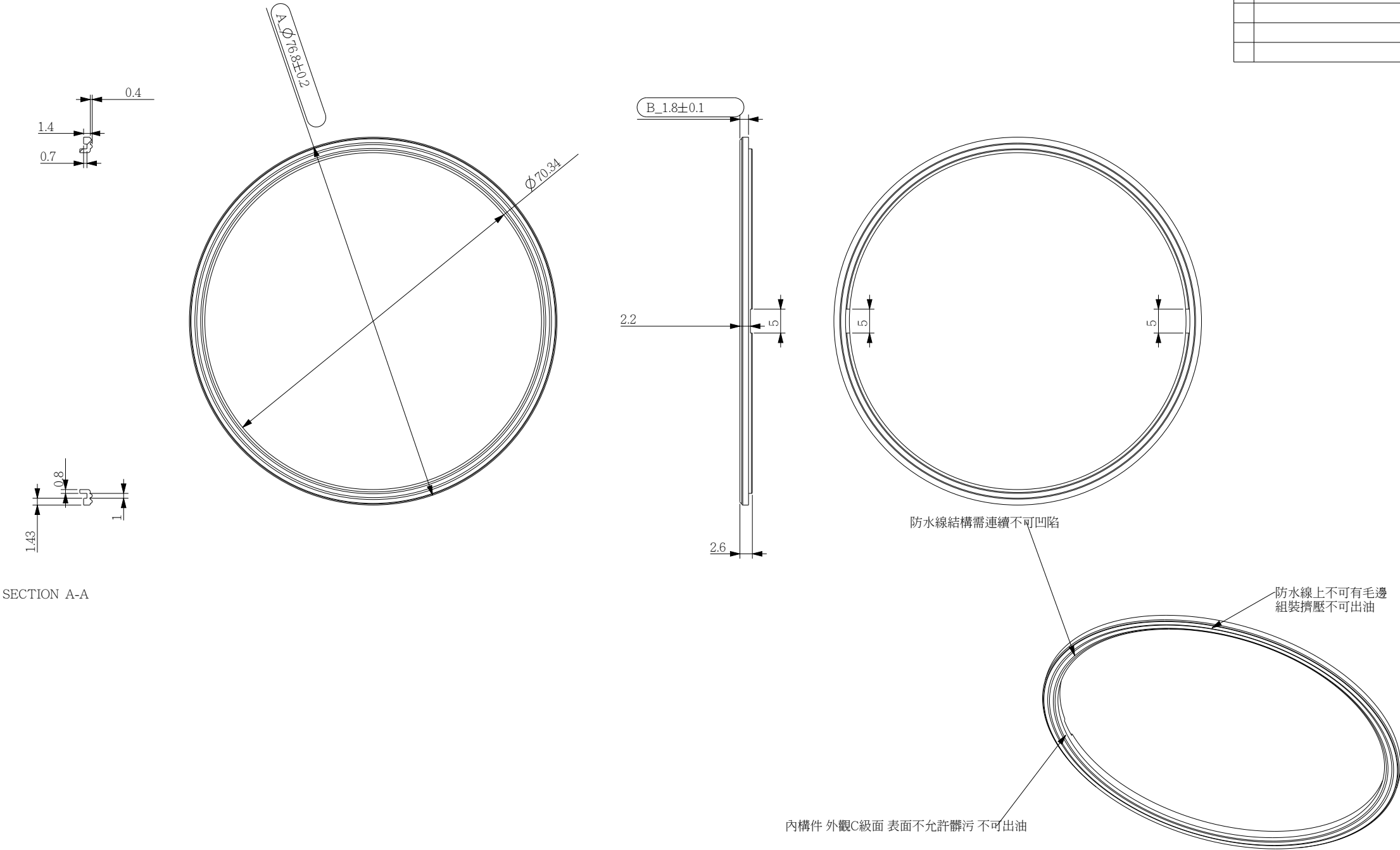




The following Page(s) are related to Illustration-4. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

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REVISIONS				
REV	DESCRIPTION	POSITION	ENGINEER	DATE
1.0	New Edition			Jul-24-20



SECTION A-A

- 注意事項:
- 材質:SILICON(TSE21869U)，具UL防火等級(94V-0)與UL 60950-22戶外環境使用規範
  - 顏色:原色
  - 硬度:60±5(Shore A)
  - 重量:g(3D Model模擬估算/成品實測)
  - 成品色差請依據PANTONE或參考色樣為標準，dE<1.5
  - 成品表面不可有:成型不良痕跡、破損、油汙、積漆與毛邊，外觀級別請參照圖面標示，相關檢驗細則，請依據[塑膠機構類檢驗作業規範]為標準
  - 橢圓符號框選尺寸為重點檢驗尺寸(成品尺寸，非素材數值)，請依據圖面標示量測
  - 參考尺寸以配合組裝為主要考量，必要時需要額外實配檢驗
  - 所有料件、組裝配件以及包裝之材質都需符合RoHS環保規範,需符合歐盟2011/65/EU法規之有害物質限制含量以下規定且不接受任何排除條款,如此才符合我司G料號的判定標準
  - 所有檢驗報告都需要在2年以內, 反之廠商有責任義務於一周內提供2年內的檢驗報告
  - 所有未標柱之尺寸都需要符合2D內的公差表
  - 包裝規範:包裝的設計不可讓產品在運送過程中, 有碰刮傷,甚至撞傷或是噴漆毀損剝落刮傷等等,包裝材質不可用報紙等...產品上不可有油汙,雜質和髒汙

All dimension without tolerance should conform to the grade on table F						
公差等級	樣性尺寸允許偏差 (mm)					
名稱	0.5-3	3-6	6-30	30-120	120-400	400-1000
F	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3
M	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2
USER						
名稱	圓錐角與倒角允許角的角度偏差 (mm)					
F	±10°	10-30°	30-120°	120-400°	>400°	
M	±1°	±1° 30'	±1° 20'	±1° 10'	±1° 5'	
C	±1° 30'	±1°	±0° 30'	±0° 15'	±0° 10'	
USER						

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	ENGR	Howard	MODEL	IB9367-HT-V2		
	DRN	Howard	DRAWING TITLE	IB9367-HT-V2_FCOVER_ORING		
	CHK	KIMI	ISSUE DATE	Jul-24-20	REVISION	1.0
	M'TL	TSE2186U	SCALE	1:1	UNIT	mm
FINISH		TBD	SIZE	A3	SHEET	1 OF 1
CP02-WI-014-01-6		第三角法				

正式圖面



The following Page(s) are related to Illustration-5. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

機密|CONFIDENTIAL

REVISIONS				
REV	DESCRIPTION	POSITION	ENGINEER	DATE
1.0	New Edition			Jul-24-20

A

B

C

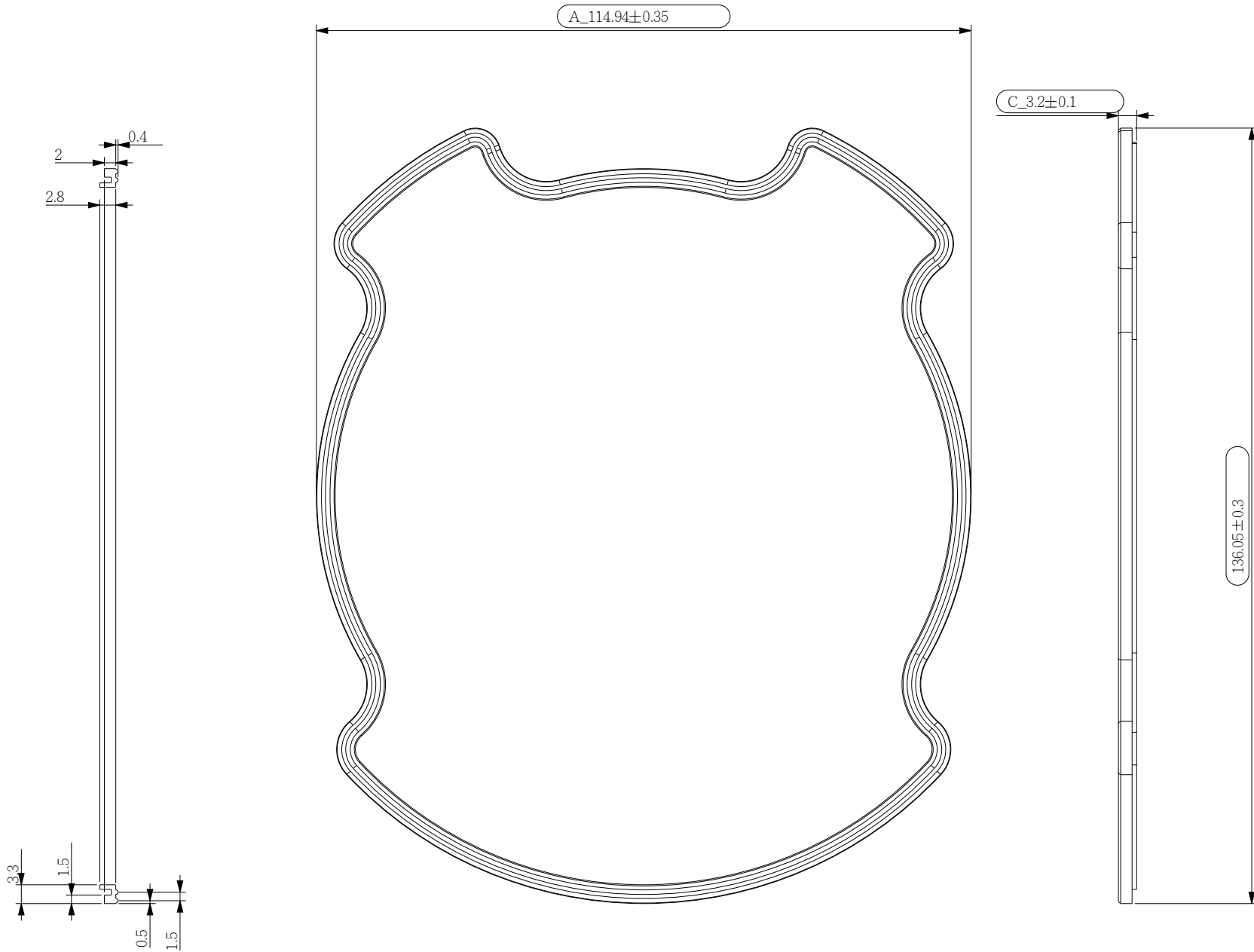
D

A

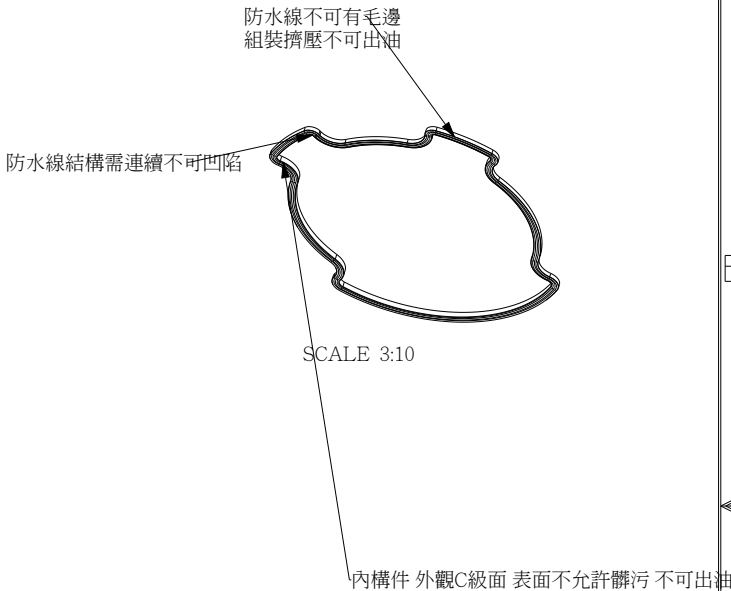
B

C

D



SECTION A-A



- 注意事項:
- 材質:SILICON(TSE21869U)，具UL防火等級(94V-0)與UL 60950-22戶外環境使用規範
  - 顏色:原色
  - 硬度:60±5(Shore A)
  - 重量:4.2g(3D Model模擬估算/成品實測)
  - 成品色差請依據PANTONE或參考色樣為標準，dE<1.5
  - 成品表面不可有:成型不良痕跡、破損、油汙、積漆與毛邊，外觀級別請參照圖面標示，相關檢驗細則，請依據[塑膠機構類檢驗作業規範]為標準
  - 橢圓符號框選尺寸為重點檢驗尺寸(成品尺寸，非素材數值)，請依據圖面標示量測
  - 參考尺寸以配合組裝為主要考量，必要時需要額外實配檢驗
  - 所有料件、組裝配件以及包裝之材質都需符合RoHS環保規範,需符合歐盟2011/65/EU法規之有害物質限制含量以下規定且不接受任何排除條款,如此才符合我司G料號的判定標準
  - 所有檢驗報告都需要在2年以內, 反之廠商有責任義務於一周內提供2年內的檢驗報告
  - 所有未標柱之尺寸都需要符合2D內的公差等級M公差表
  - 包裝規範:包裝的設計不可讓產品在運送過程中, 有碰刮傷,甚至撞傷或是噴漆毀損剝落刮傷等等,包裝材質不可用報紙等...產品上不可有油汙,雜質和髒汙


All dimension without tolerance should conform to the grade on table F							
公差等級	線性尺寸允許偏差 (mm)						
名稱	0.5-3	3-6	6-30	30-120	120-400	400-1000	
F	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	
M	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	
USER							
判定標準	角度公差 (度) 允許偏差 (mm)						
	≤10	10-50	50-120	120-400	>400		
	F	±1°	±1° 30'	±1° 20'	±1° 10'	±1° 5'	
	M	±1° 30'	±1°	±0° 30'	±0° 15'	±0° 10'	
	C	±1° 30'	±1°	±0° 30'	±0° 15'	±0° 10'	
	USER						



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CP02-WI-014-01-6

PART NO.		612113000G				
ENGR	Howard	MODEL	IB9367-HT-V2			
DRN	Howard	DRAWING TITLE	IB9367-HT-V2_JUNCTION_BOX_RUB			
CHK	KIMI					
M'TL	TSE2186U	ISSUE DATE	Jul-24-20	REVISION	1.0	
FINISH	TBD	SCALE	1:1	UNIT	mm	
	第三角法	SIZE	A3	SHEET	1 OF 1	





The following Page(s) are related to Illustration-7. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

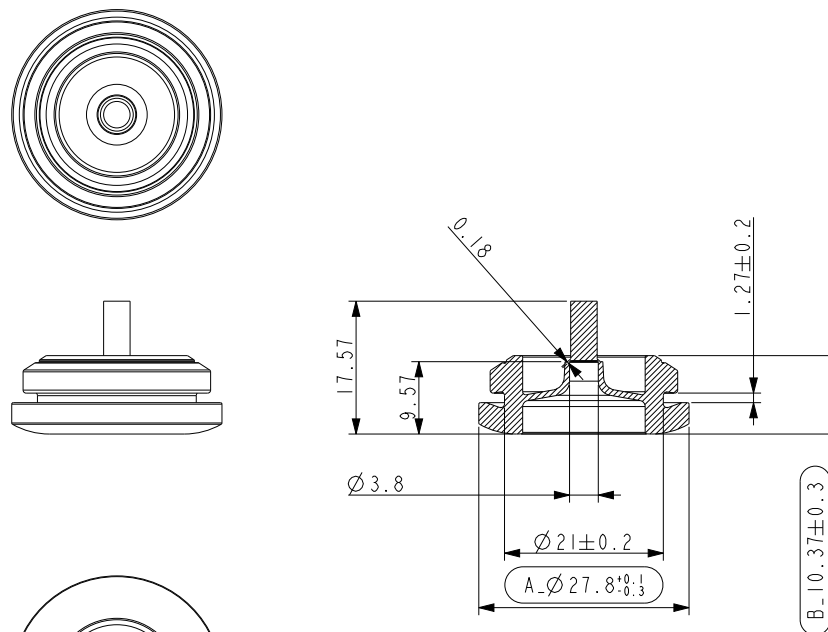
機 密 | CONFIDENTIAL

## REVISIONS

REV	DESCRIPTION	POSITION	ENGINEER	DATE
1.0	New Edition			Sep-06-19

注意事項:

1. 材質: TSE221-5U5 潤滑50度
2. 顏色: 黑
3. 硬度: 50±5 (Shore A)
4. 成品表面不可有: 成型不良痕跡、破損、油污、精漆與毛邊, 外觀級別請參照圖面標示, 相關檢驗細則, 請依據[塑膠機構類檢驗作業規範]為標準
5. 橢圓符號框選尺寸為重點檢驗尺寸(成品尺寸, 非素材數值), 請依據圖面標示量測
6. 參考尺寸以配合組裝為主要考量, 必要時需要額外實配檢驗
7. 所有料件、組裝配件以及包裝之材質都需符合RoHS環保規範, 需符合歐盟2011/65/EU法規之有害物質限制含量以下規定且不接受任何排除條款, 如此才符合我司G料號的判定標準
8. 所有檢驗報告都需要在2年以內, 反之廠商有責任義務於一周內提供2年內的檢驗報告
9. 所有未標註之尺寸都需要符合2D內的公差表
10. 包裝規範: 包裝的設計不可讓產品在運送過程中, 有碰刮傷, 甚至撞傷或是噴漆毀損剝落刮傷等等, 包裝材質不可用報紙等... 產品上不可有油污, 雜質和髒汙



需過UL  
TSE221-5U5 潤滑50度

正式圖面

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS ARE IN mm

TOLERANCE ON:  
LINEAR : <30 ±0.10  
30-50 ±0.15  
50-100 ±0.18  
100-200 ±0.20  
200-300 ±0.25  
>300 ±0.30

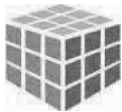
ANGULAR: X ±1°  
X.X ±0.5°

 VIVOTEK Incorporated <small>THIS DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO VIVOTEK INC. AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT VIVOTEK'S CONSENT.</small> CP02-WI-014-01-5	PART NO.		612101200G			
	ENGR	Amy	MODEL	FE9380-HV		
	DRN	Amy	DRAWING TITLE	防水橡膠 - IO CABLE		
	CHK	Kimi				
	M'TL	TSE221-5U5	ISSUE DATE	Sep-06-19	REVISION	1.0
	FINISH		SCALE	1:1	UNIT	mm
		第三角法	SIZE	A4	SHEET	1 OF 1





The following Page(s) are related to Illustration-8. The next supplement, if applicable, will be identified with a new Supplement Page Heading.



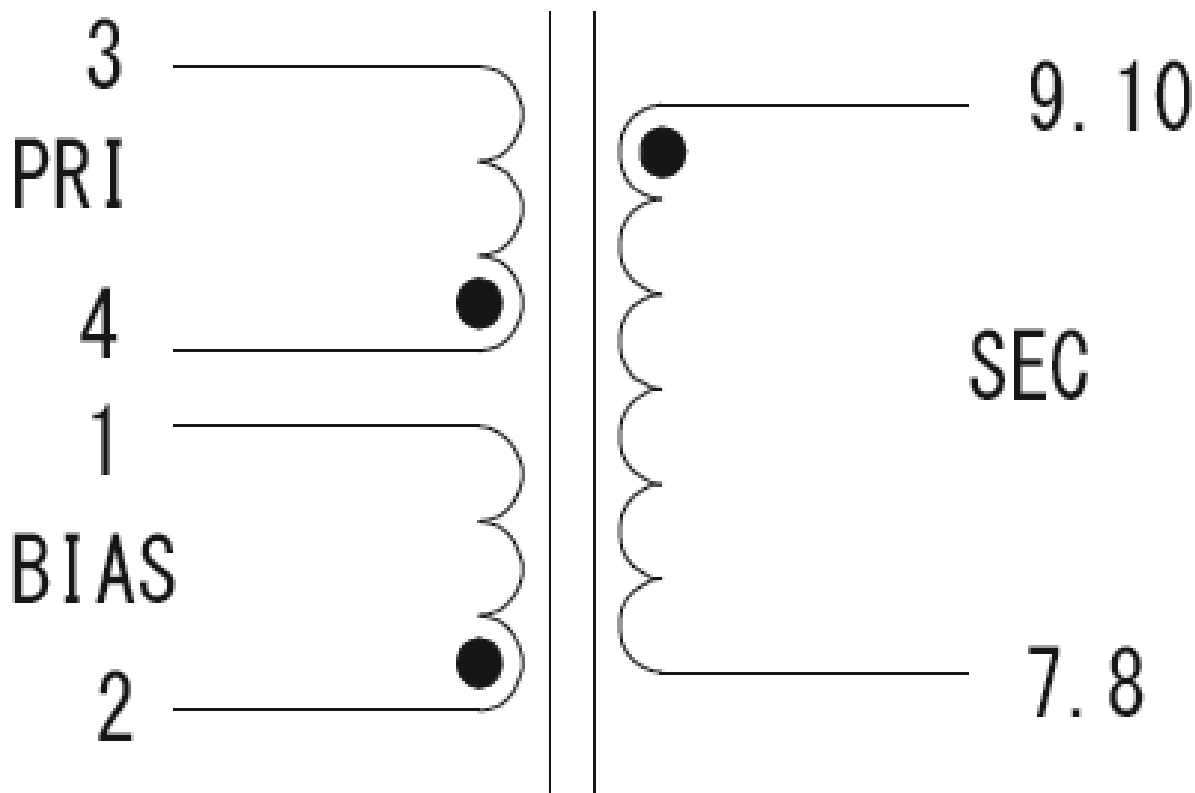
## Feature

- Flyback Transformer
- RoHS Compliance Product
- Surface Mount Device Providing Compact Footprint
- Operating temperature range:-40°C to +125°C

### Electrical Specifications @ 25°C

Part Number	Turns Ratio	OCL @100KHz 0.1V	LK @100KHz 0.1V	DCR			Hi-Pot (VAC 5mA 3Sec)
	4-3:2-1:7,8-9,10	4-3	4-3(tie all)	2-1	4-3	10-8	PRI. TO SEC.
MTSF064	1:0.48:0.56±3%	95uH ±10%	1.0 uH max	0.2ΩMAX	0.15ΩMAX	0.1ΩMAX	500

## Schematic

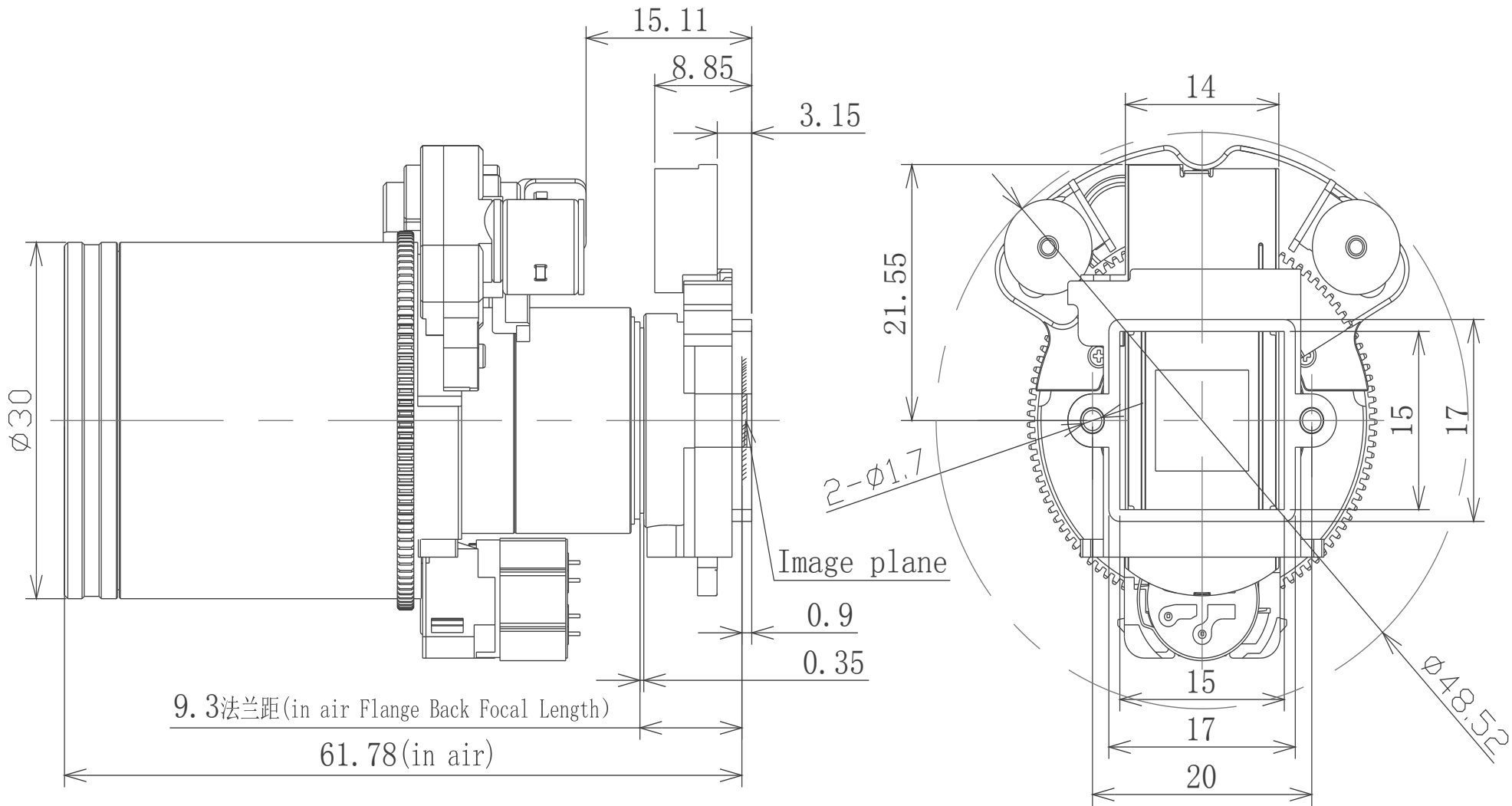




The following Page(s) are related to Illustration-9. The next supplement, if applicable, will be identified with a new Supplement Page Heading.



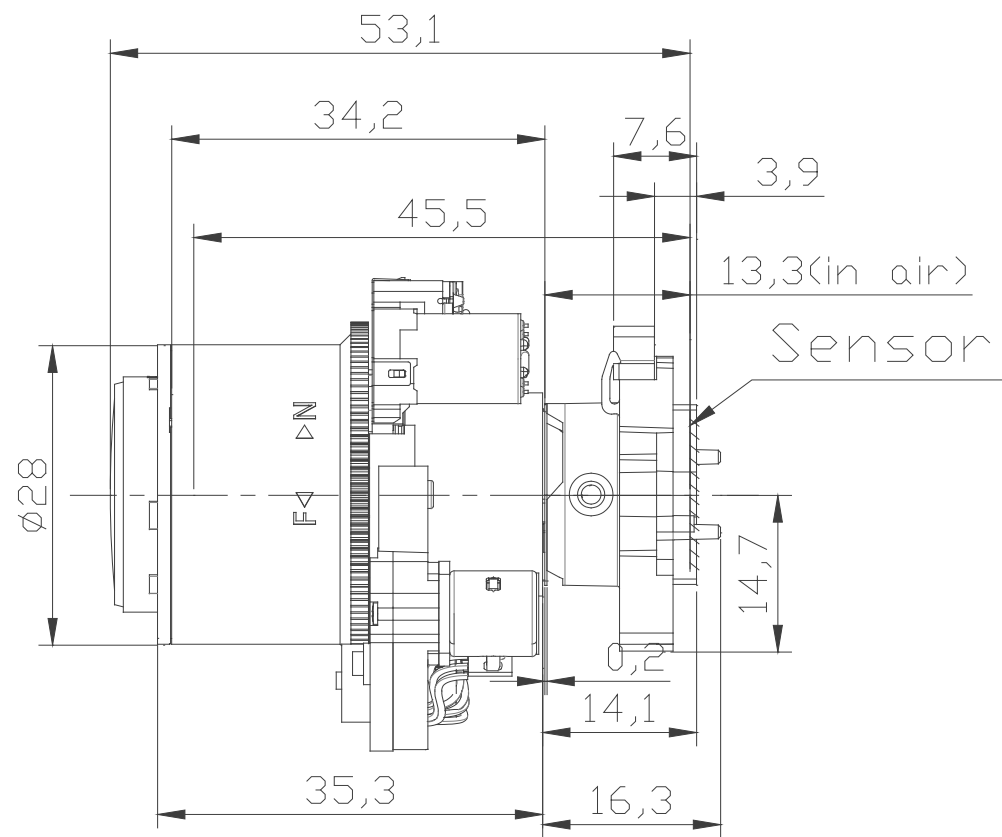
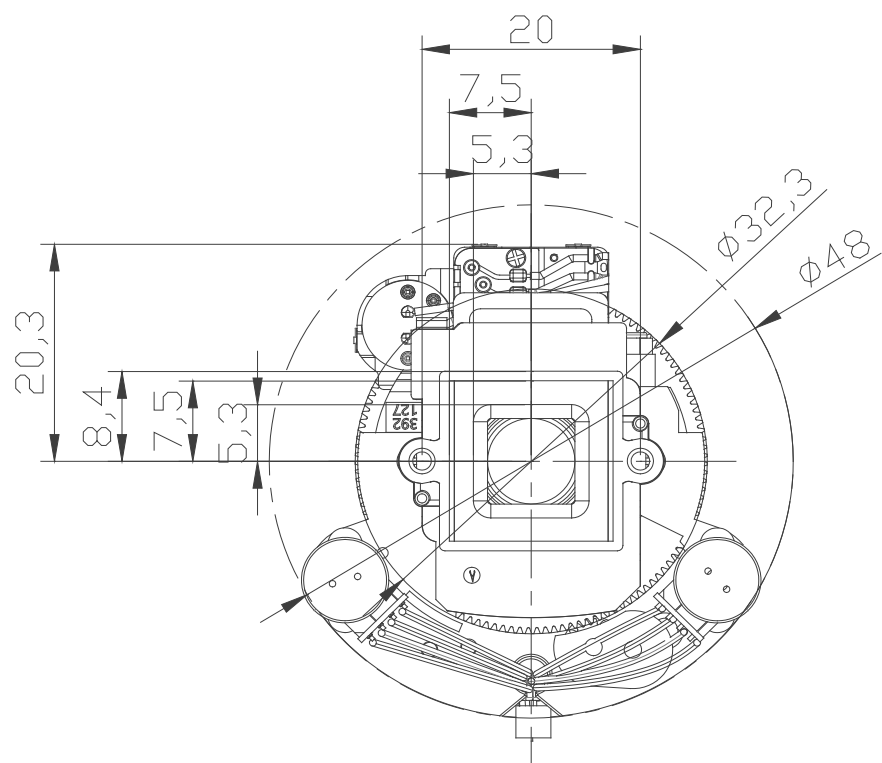
5.2.1 外形尺寸图 （ Dimension Figure） ○



5.2.2 视点图 （Viewpoint Figure） ○



The following Page(s) are related to Illustration-10. The next supplement, if applicable, will be identified with a new Supplement Page Heading.







The following Page(s) are related to Illustration-11. The next supplement, if applicable, will be identified with a new Supplement Page Heading.



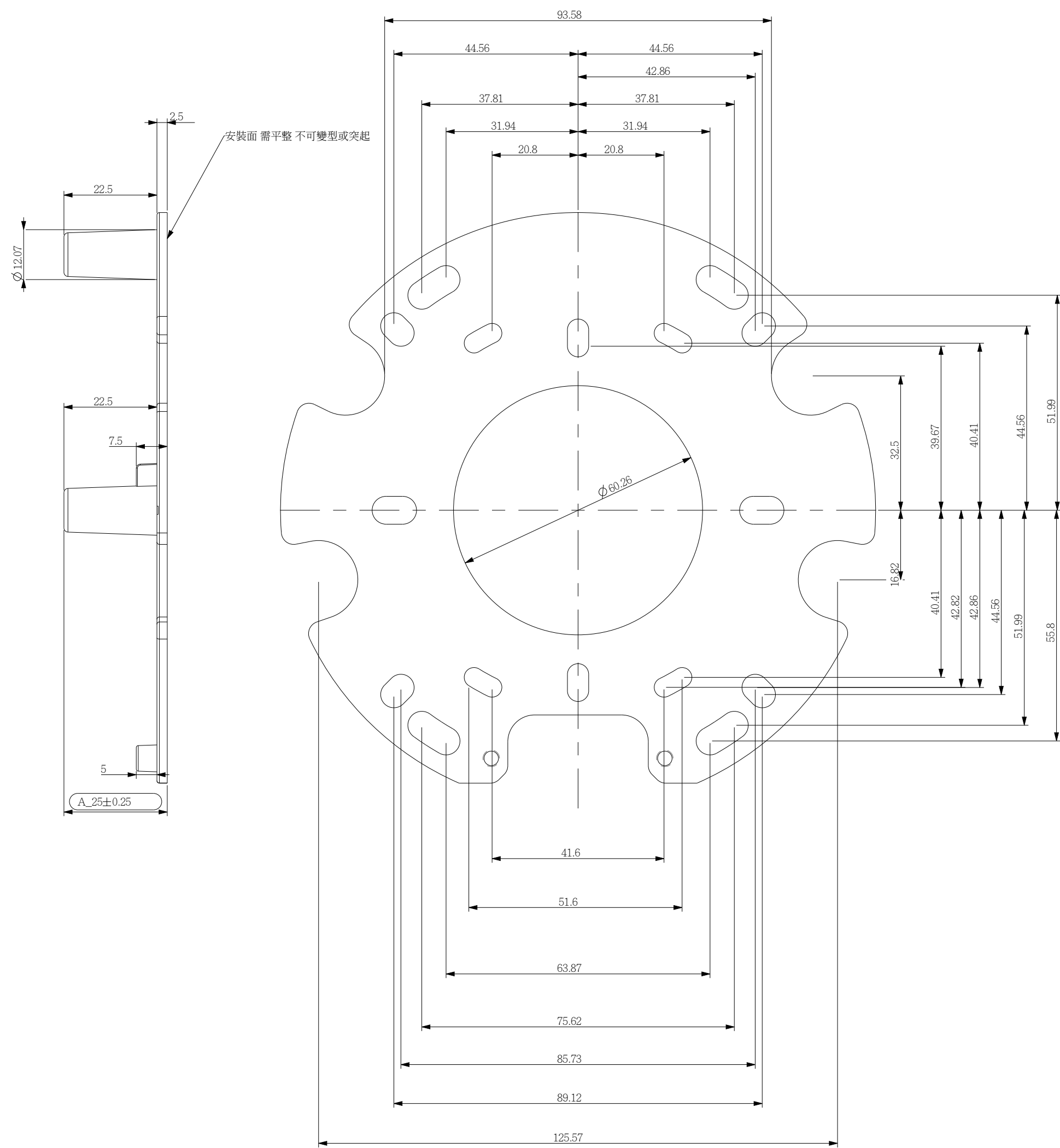
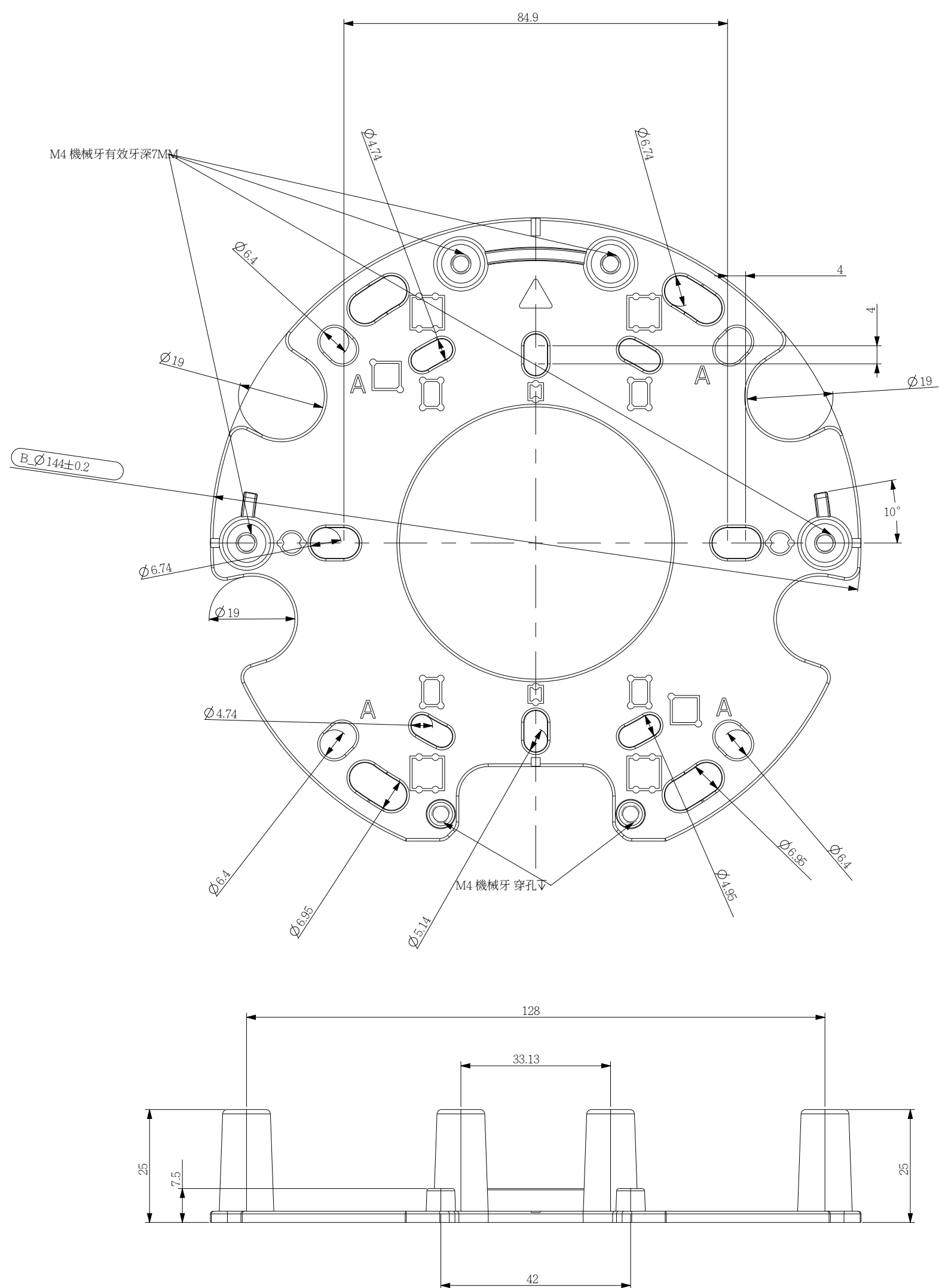


The following Page(s) are related to Illustration-12. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

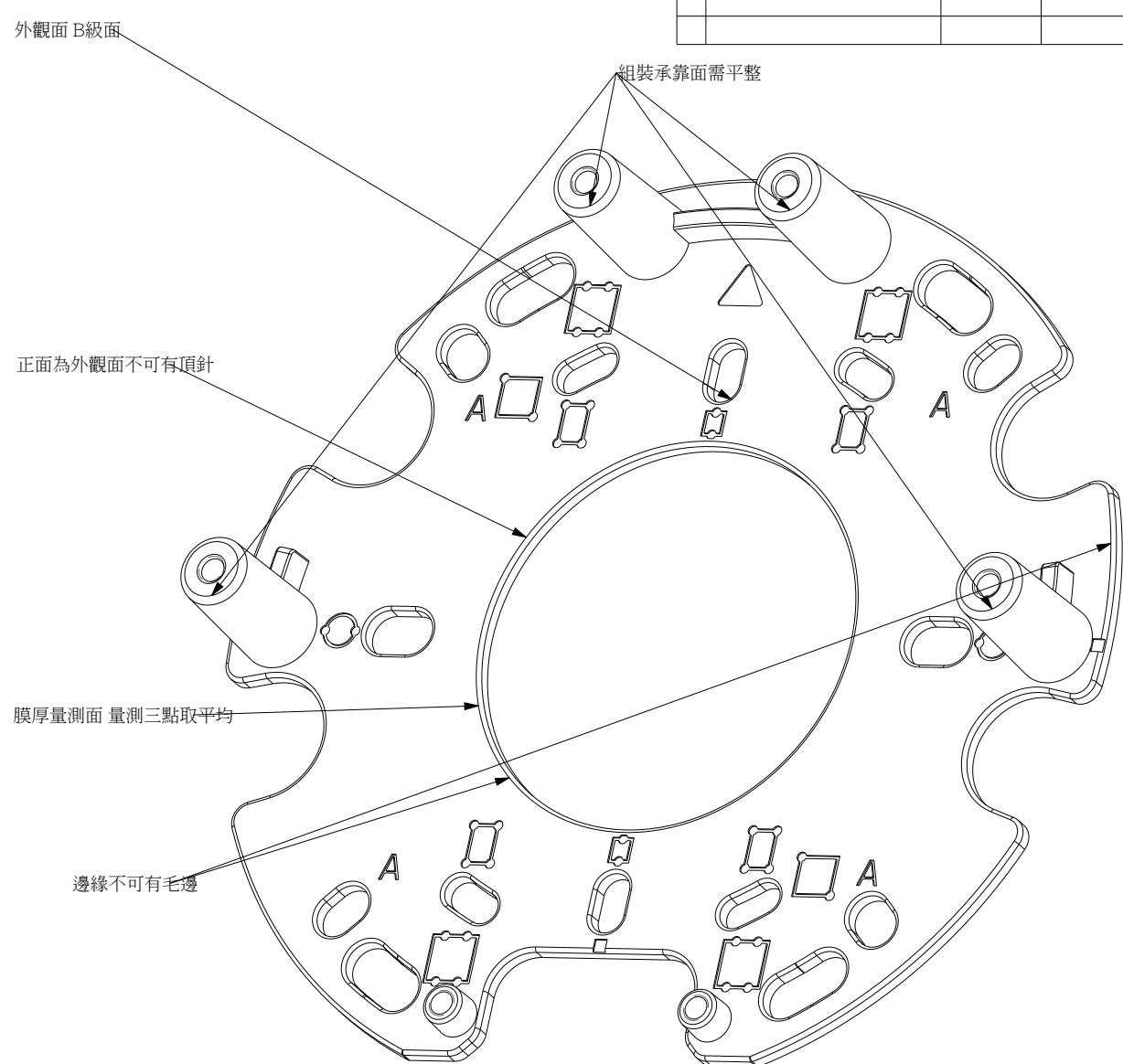


機密|CONFIDENTIAL

REVISIONS				
REV	DESCRIPTION	POSITION	ENGINEER	DATE
10	New Edition			Jul-21-20



SECTION A-A



注意事項:

- 1.材料:ALADICI21, 成品直徑3D模型擬定(或成品實照)
- 2.部品必須加工, 包含部分CNC加工製程, 機殼(上)圓角, 提供繪圖顯示效果
- 3.機殼(上)圓角和厚度依照3D模型擬定, 機殼(下)圓角依照3D模型擬定, 建議機殼200mm以上
- 4.機殼不可影響組裝所有螺絲孔徑不可有干涉, 並符合材料規格
- 5.成品必須通過IPANTONE色澤參考色樣為準, 色差 $\pm 1.5$
- 6.成品表面不可有不良瑕疵(刮痕、凹坑、油汙、模痕等)及刮痕、刮痕、指紋、指紋, 外觀紋路依照繪圖顯示, 相關檢驗標準

請依以下檢驗標準動作來規範機殼為準

- 7.多少尺寸以機殼尺寸為主要尺寸, 必要時需要外部外觀檢驗
- 8.圓角圓滑無銳利尺寸為規範機殼尺寸
- 9.厚度為CPR量面厚度
- 10.彎折率依照圓角尺寸, 或 $\pm 0.25\%$ 定製
- 11.厚度 $\geq 0.2mm$ 且可彎折
- 12.所有材料、組裝部品以及包裝材料都符合RoHS環保規範, 符合歐盟2011/65/EU指令之書面資料限制含量以及不定期不定量測試報告, 如此方可使用或訂定標準
- 13.所有材料、組裝部品以及包裝材料都符合REACH規範, 符合歐盟REACH指令限制含量, 並提供測試報告等類等, 包裝材料不可用紙類
- 14.上/下包不可有(背)面UV背光, 高光品面必須有保護膜保光面
- 15.機殼依照CICI21尺寸, 不可以有超過各部位尺寸圖標標註的尺寸公差及環境條件等
- 16.機殼依照CICI21尺寸, 不可以有超過各部位尺寸圖標標註的尺寸公差及環境條件等, 未規定之部分請依照我司材料規格為準
- 17.所有檢驗報告必須依照IPANTONE色澤, 反-內-外-面檢驗有實況照片, 並內附機殼照片的檢驗報告
- 18.所有材料標註之尺寸都依照圖面尺寸公差等之公差表
- 19.圓角外側材料、機殼、圓角和指紋尺寸不可有機殼尺寸公差表
- 20.背板依照機殼厚度, 機殼厚度依照圓角圓滑無銳利尺寸為規範機殼尺寸, 未規定之部分請依照我司材料規格為準
- 21.圓角外側材料、機殼、圓角和指紋尺寸不可有機殼尺寸公差表

[illegible]

正式圖面



The following Page(s) are related to Illustration-13. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

EFMaflon<sup>®</sup> -2502LT-BOP240-G3

## Back View



- 1.Materials : 2502LT-BOP240-G3(T=0.24mm) / 3M 9495LE(T=0.17mm)
- 2.Temp range : -40 °C to 120 °C
- 3.Acrylic pressure sensitive adhesive : 3M 9495LE
- 4.Dimensions : mm

Tester	晶睿通訊股份有限公司		
Size	14mm(OD) × 8mm(ID)		
Part Number	EFMaflon <sup>®</sup> -2502LT-BOP240-G3		
		Design dept.	EFM-Vicky





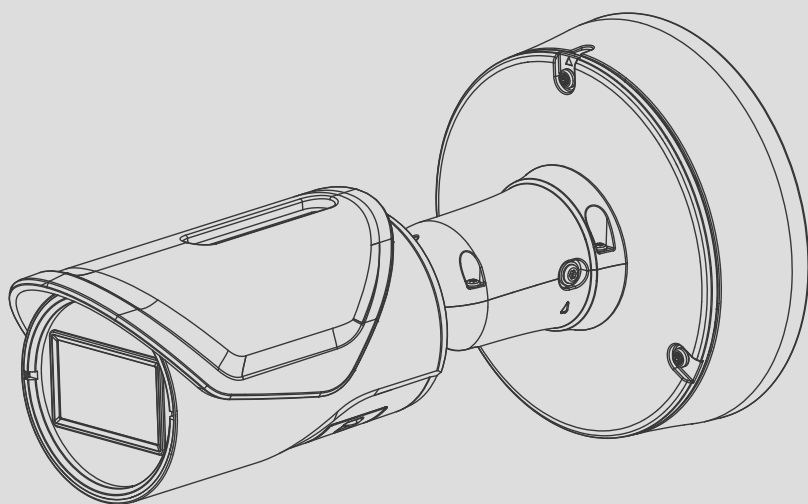
The following Page(s) are related to Illustration-14. The next supplement, if applicable, will be identified with a new Supplement Page Heading.



IB9367-EHT-v2 Bullet Network Camera

# User's Manual

2MP • Outdoor • IP66 • IK10 • Day & Night • Smart VCA  
WDR Pro • Smart Stream III • 50M Smart IR



Rev. 1.0

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## Overview

The FD9367-EHTV-v2 is an outdoor fixed dome network camera capable of 1920 x 1080 at 30 fps. With the VIVOTEK WDR Pro technology, the camera series is capable of capturing the highest quality images in both low light and high contrast environments.

The onboard IR can provide illumination in total darkness. With the Smart IR feature, the firmware automatically adjusts the IR intensity for objects that came too close, in order to avoid over-exposure.

The cameras support WDR function at the effectiveness of up to 120dB. These models support local video storage on the MicroSD cards if network service should be interrupted. The cameras also come with configurable motion detection and tampering detection with up to 5 privacy mask areas.

## Revision History

- Rev. 1.0: Initial release.

## Read Before Use

The use of surveillance devices may be prohibited by law in your country. The Network Camera is not only a high-performance web-ready camera but can also be part of a flexible surveillance system. It is the user's responsibility to ensure that the operation of such devices is legal before installing this unit for its intended use.

It is important to first verify that all contents received are complete according to the Package Contents listed below. Take note of the warnings in the Quick Installation Guide before the Network Camera is installed; then carefully read and follow the instructions in the Installation chapter to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

The Network Camera is a network device and its use should be straightforward for those who have basic networking knowledge. It is designed for various applications including video sharing, general security/surveillance, etc. The Configuration chapter suggests ways to best utilize the Network Camera and ensure proper operations. For creative and professional developers, the URL Commands of the Network Camera section serves as a helpful reference to customizing existing homepages or integrating with the current web server.



### IMPORTANT:

1. The product must be installed and protected in a location that is not easily accessible, and is away from impacts or heavy vibration. For example, at the location where the surveillance cameras are looking down or installed at high positions such as on a wall, or at least 3 meters above the ground.
2. The camera should be installed at least 10 centimeters away from the eave of a building.
3. If powered by a power adapter, the adapter should be properly grounded.
4. Maintenance and repair work must always be carried out by qualified technical personnel.
5. Disconnect power from the unit when performing a maintenance task.
6. Please contact VIVOTEK's certified dealers for power adapters.

## Package Contents

- IB9367-EHT-v2
- Screw pack, sun shield, penetration cap, I/O combo cable, base plate.
- Alignment sticker.
- Quick Installation Guide.
- T20 wrench.



### **WARNING:**

1. IR lights emit from this product.
2. Use appropriate shielding or eye protection.

## Symbols and Statements in this Document



**INFORMATION:** provides important messages or advices that might help prevent inconvenient or problem situations.



**NOTE:** Notices provide guidance or advices that are related to the functional integrity of the machine.



**Tips:** Tips are useful information that helps enhance or facilitate an installation, function, or process.



**WARNING: or IMPORTANT::** These statements indicate situations that can be dangerous or hazardous to the machine or you.



**Electrical Hazard:** This statement appears when high voltage electrical hazards might occur to an operator.



### **IMPORTANT:**

1. The camera is only to be connected to PoE networks without routing to outside plants.
2. For PoE connection, use only UL listed I.T.E. with PoE output.

1. La caméra ne doit être raccordée qu'à des réseaux PoE, sans routage vers des installations extérieures.
2. Pour les raccordements PoE, utilisez uniquement un équipement de TI homologué UL, avec une sortie PoE.

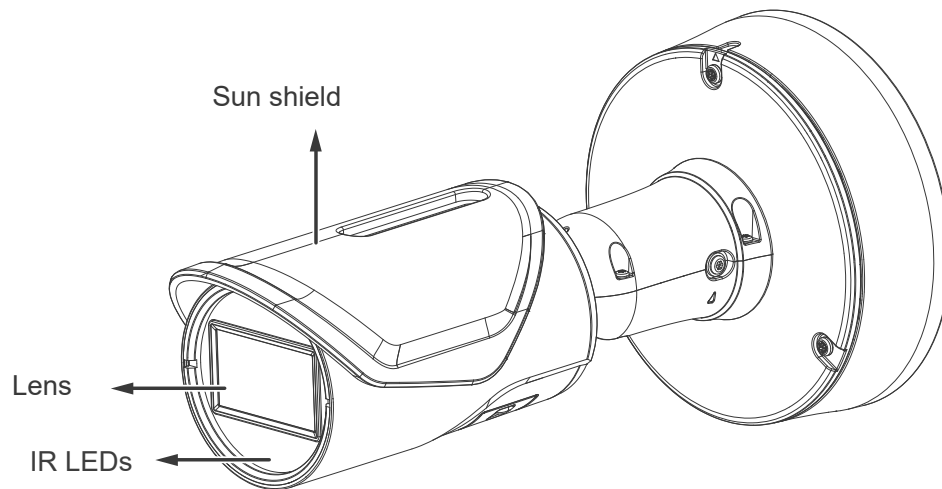
Use the camera only with a DC power supply that is UL listed, and limited power source (LPS) certified. The power supply should bear the UL listed and LPS marks. The power supply should also meet any safety and compliance requirements for the country of use.

n'utilisez la caméra qu'avec un bloc d'alimentation CC homologué UL, ainsi qu'avec une alimentation limitée (LPS) certifiée. Le bloc d'alimentation doit porter les indications d'homologation UL et LPS. Il doit également répondre aux exigences en matière de sécurité et de conformité relatives au pays d'utilisation.

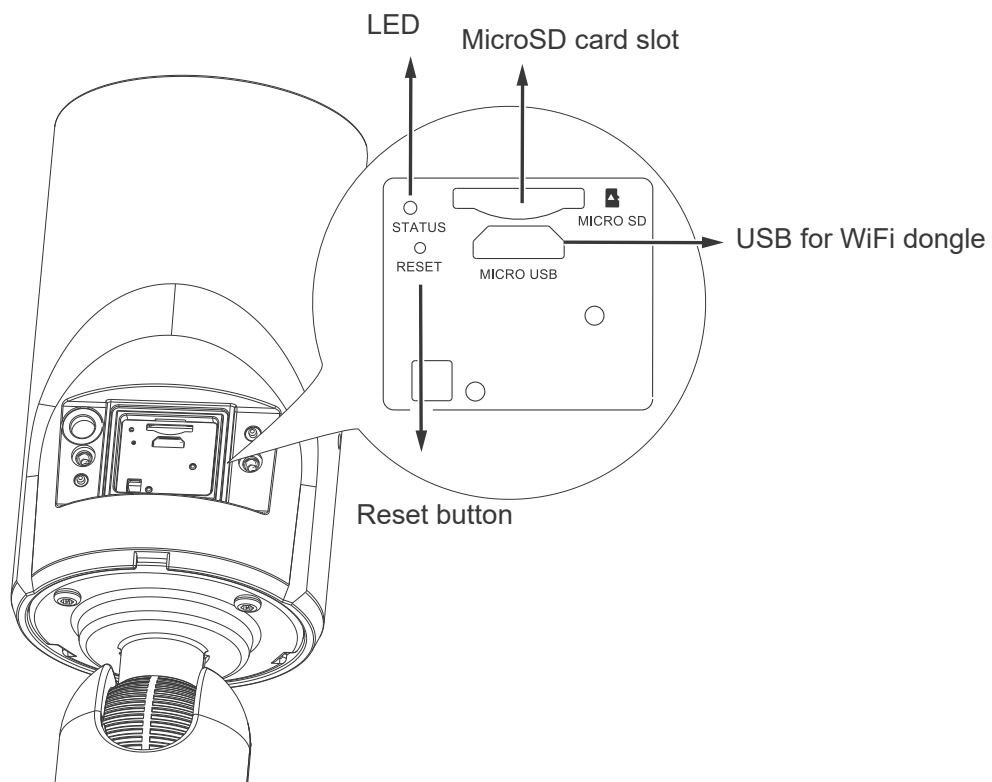


## Physical Description

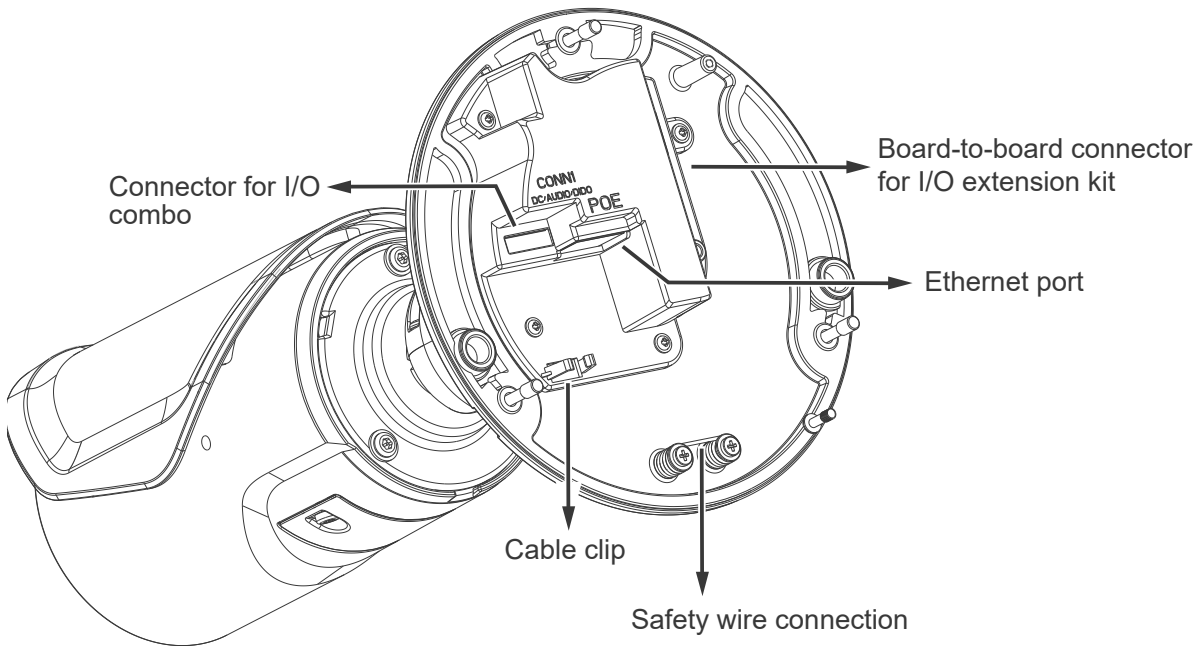
### Outer View



### Inner View



## Rear View



### NOTE:

Some of the suffix syntax used in model naming are listed below:

E	w/ heater for extreme weather
Fx	Focal length w/ number
T	w/ Remote focus lens
R	w/ PoE repeater
H	w/ High Dynamic Range functionality

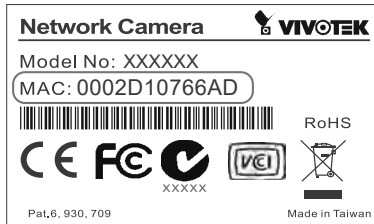


### Consumption & Power Input

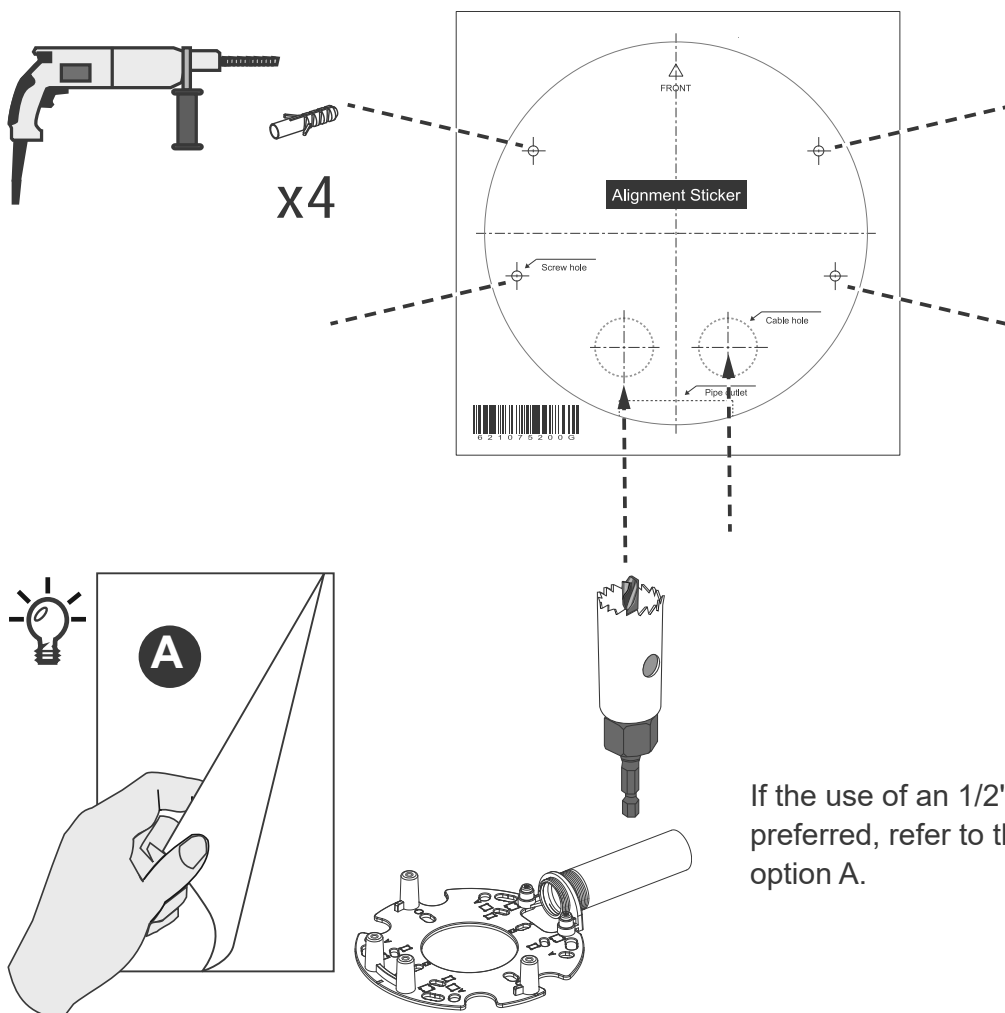
PoE 802.3af class 0 - 37V/0.291A 10.77W 57V/0.186A 10.60W (PoE mid-span or switch)  
 DC 12V input - 9.24W 0.77A;  
 AC 24V - 0.74A PF 0.58

## Hardware Installation

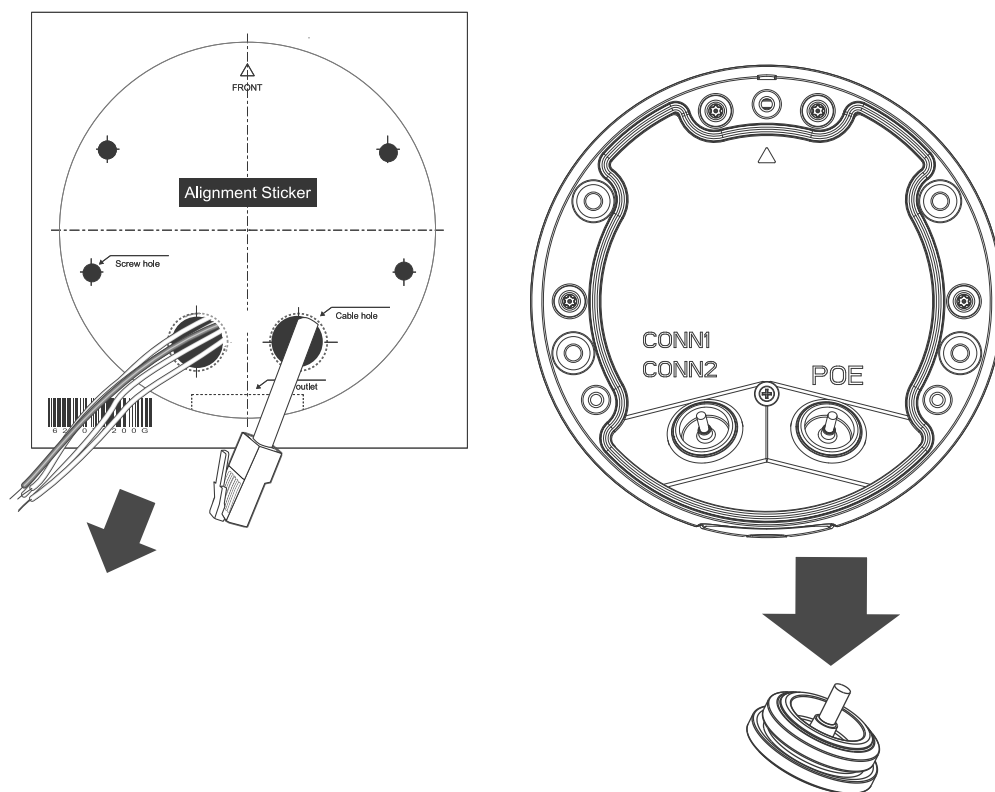
1. Jot down the camera's MAC address for later reference.



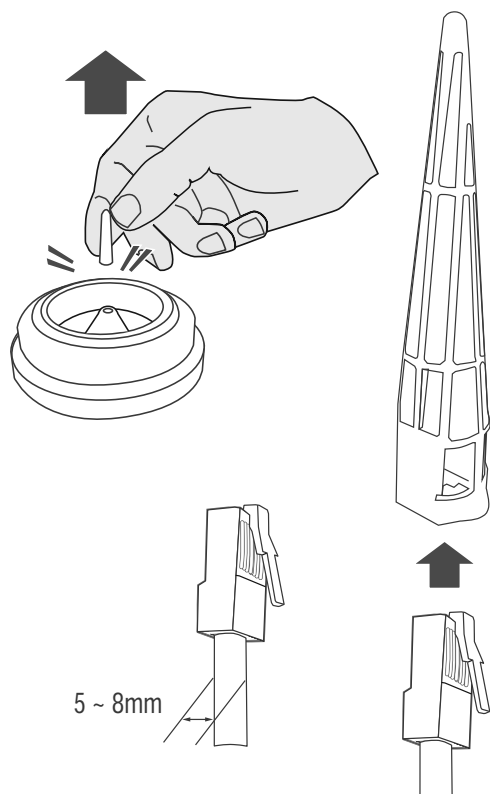
2. Use the alignment sticker to drill holes on the wall.



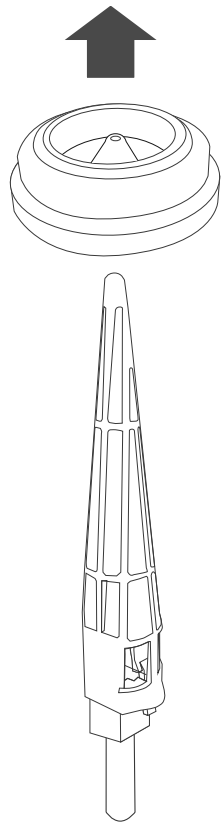
3. Route cables through the wall or ceiling, and remove the grommet on the base plate.



4. Remove the tip of the silicon grommet. Insert the RJ45 connector of your Ethernet cable into the penetration cap.

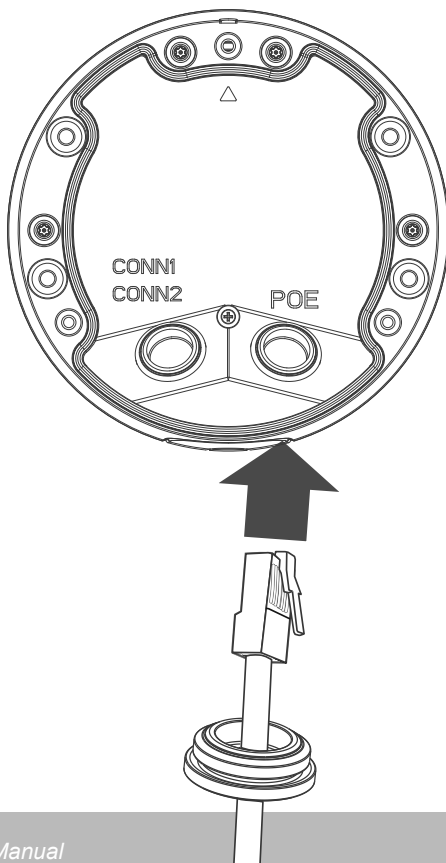


5. Insert and pass the cable through the silicon grommet.

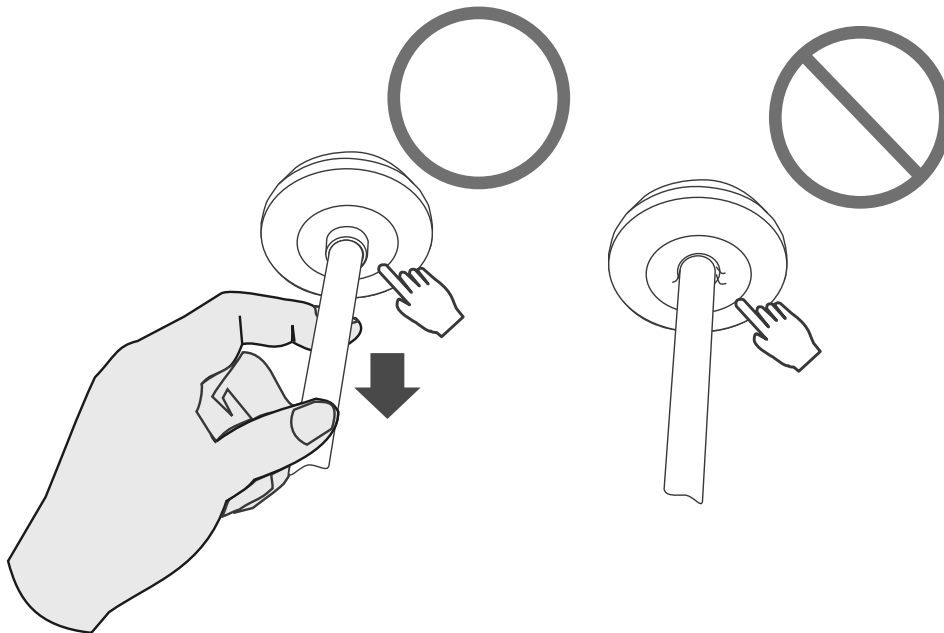


**If grommets are damaged, replace them with new ones.**

6. Install the silicone grommet to the original opening from the bottom of the base plate.

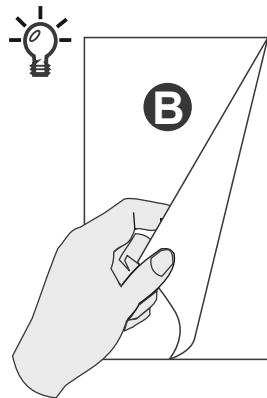
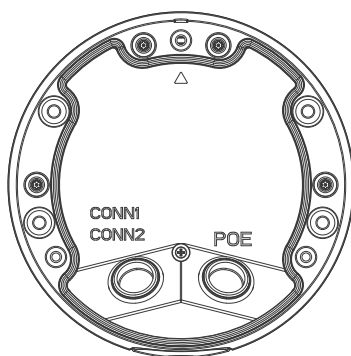


7. When installing the silicon grommet, make sure the cable is slightly pulled back to the outside. Do not leave the rim of the seal jammed in the inside of the seal.



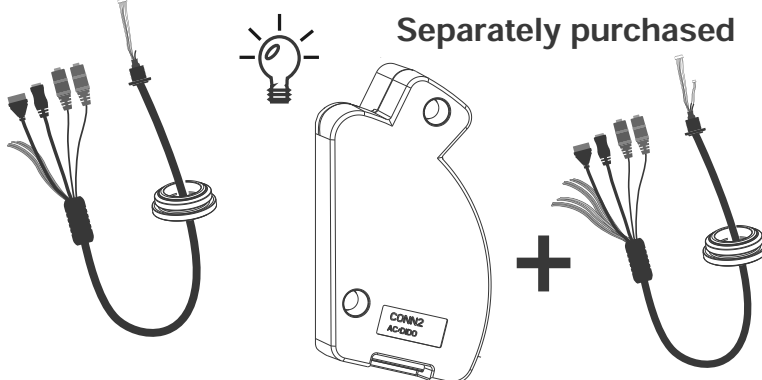
8. The I/O combo cable comes with a pre-installed grommet. Install the cable to the opening and place I/O wires in the cable clip. Note the orientation of the I/O pin headers.

Connect the I/O pin headers and the Ethernet connector to the camera.



If you want to use the extension I/O kit, refer to Installation option B.

**Extension I/O kit  
Separately purchased**





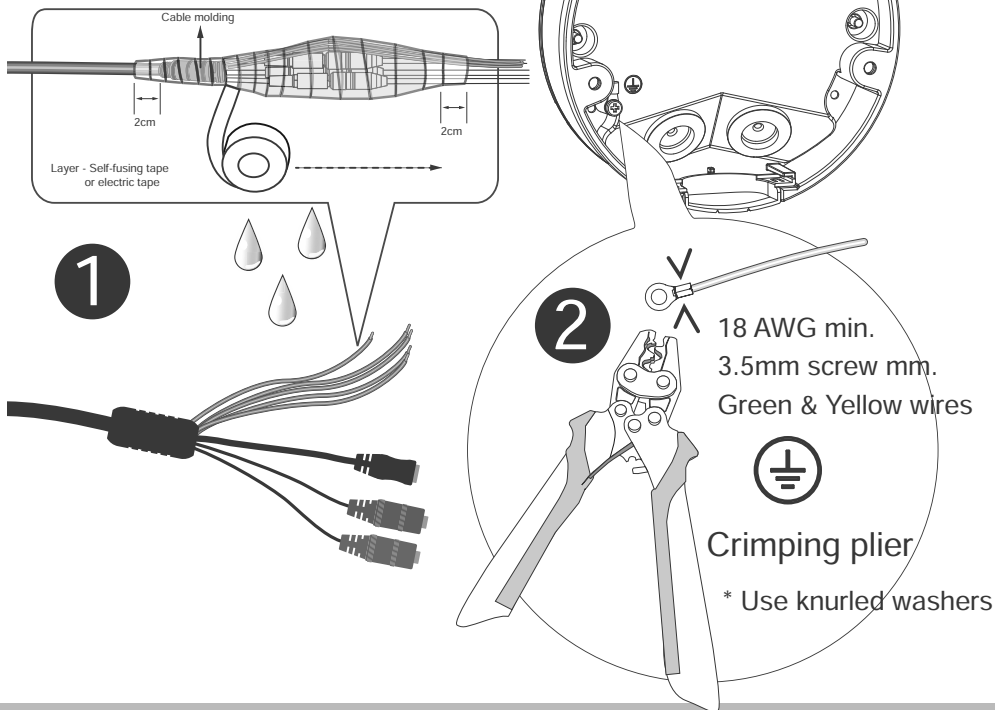
9. Below are the pinouts of the I/O combo cable. If you prefer more audio, DC, and I/O connections, you can purchase and install an extension kit. Refer to the installation option B section for more information.



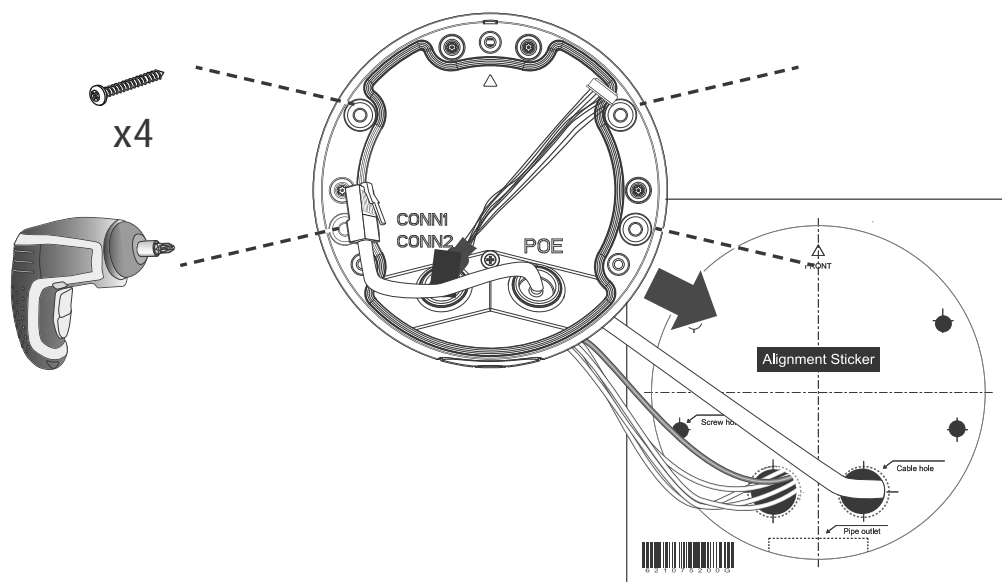
10. All cabling joints on the outside of the camera must be properly sealed for waterproofing.

Use a crimping plier to connect a grounding wire to the ground screw following the instructions below.

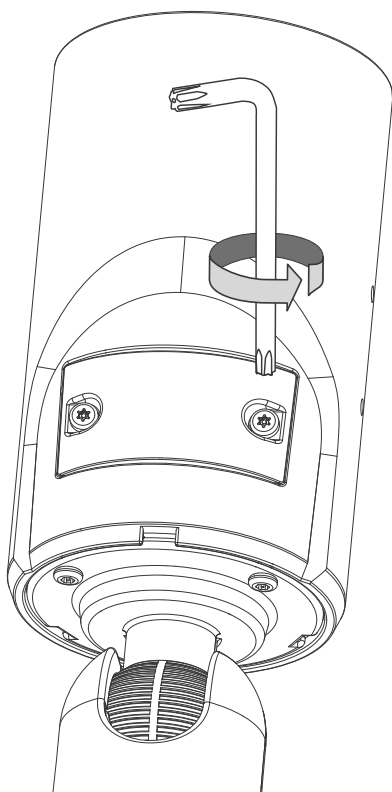
1. Stretch the waterproof tape by twice its length and wind around the cables.
2. The tape should overlap the cable joints by 20mm.
3. All connectors, whether they are used or not, should be waterproof.



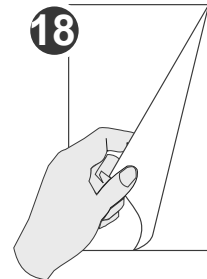
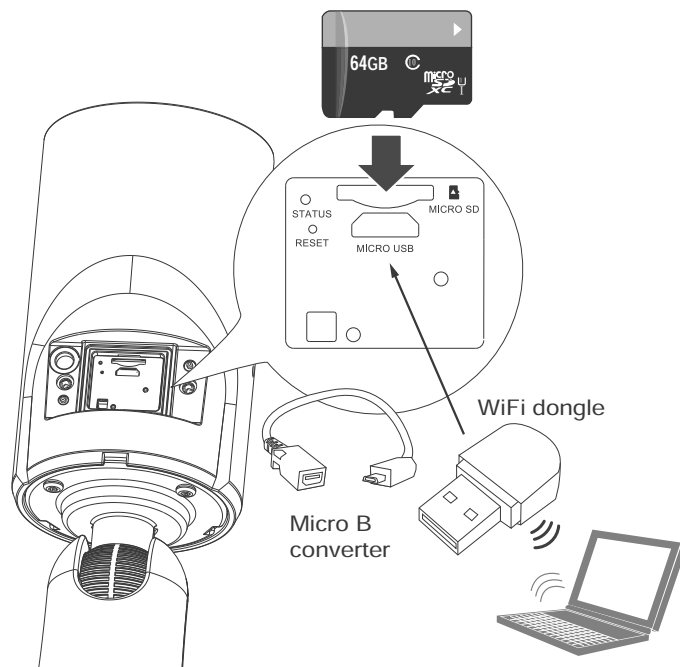
11. Install the base plate to wall by driving 4 screws.



12. Use the T20 wrench to open the panel cover on the camera.

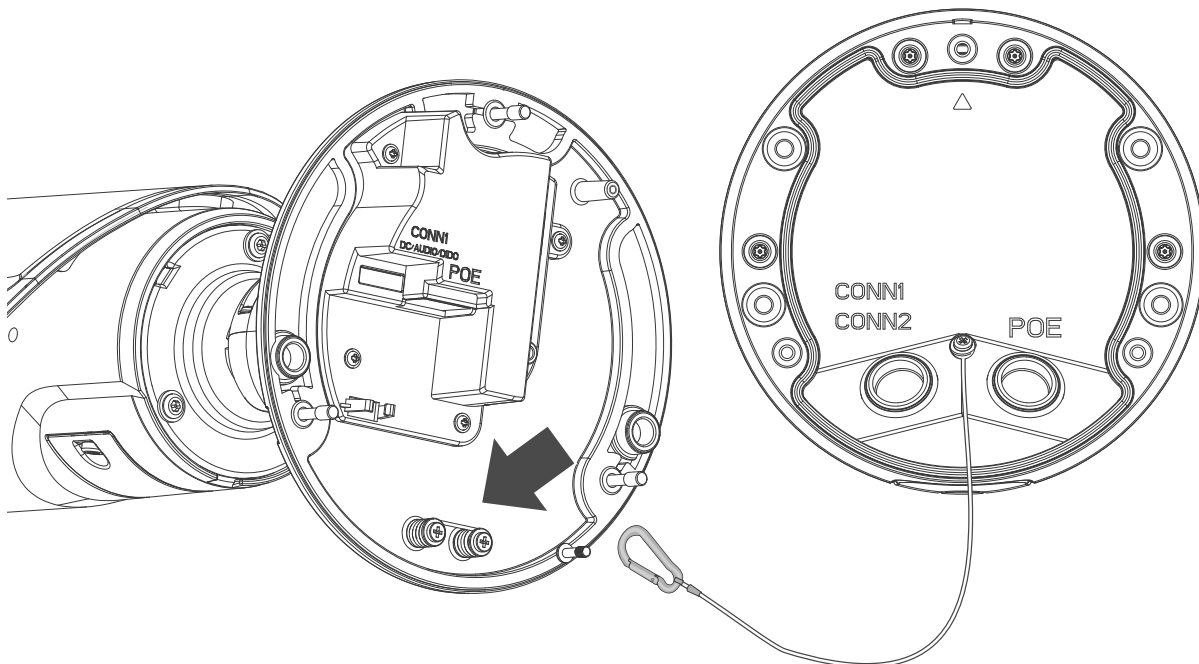


13. If preferred, install a MicroSD card to the camera. You can connect a WiFi dongle to the camera's micro USB port for an onsite adjustment of imaging and the shooting direction. You can use a notebook to connect the camera at the installation site via a wireless connection.

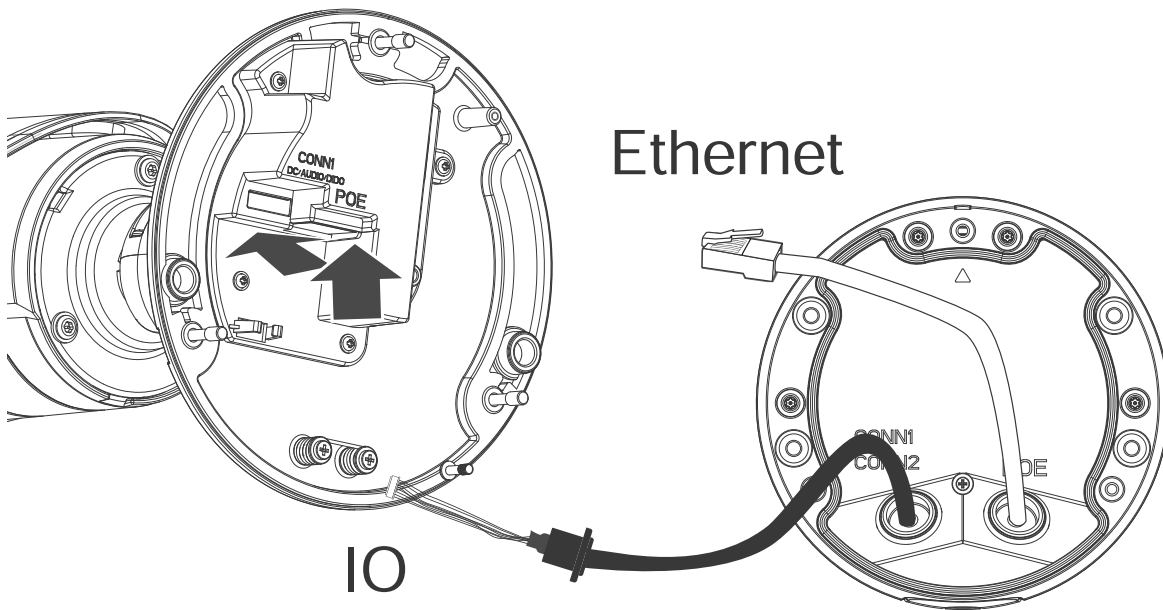


Refer to Step 18 for how to open a web console.

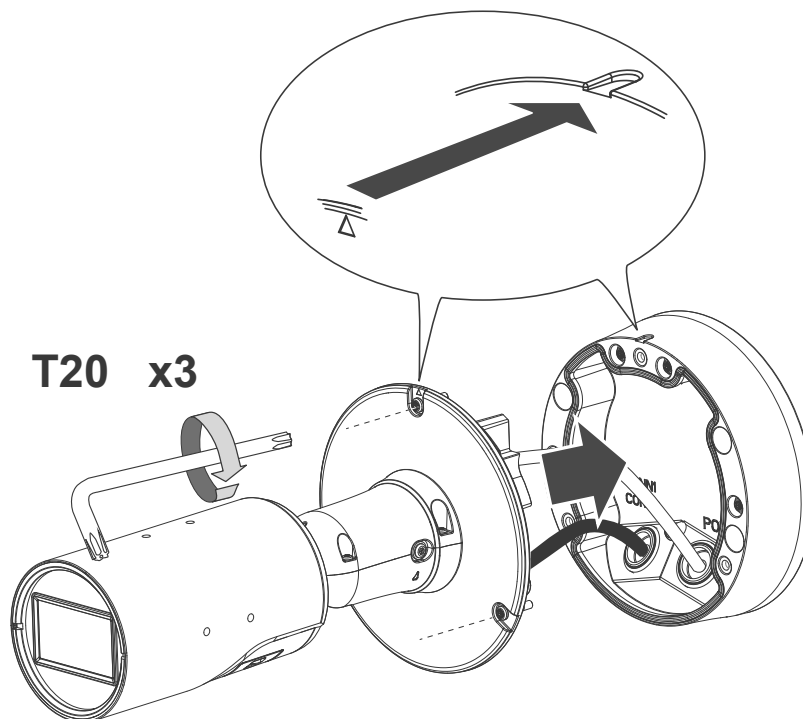
14. Connect the safety tether wire to the base of the camera.



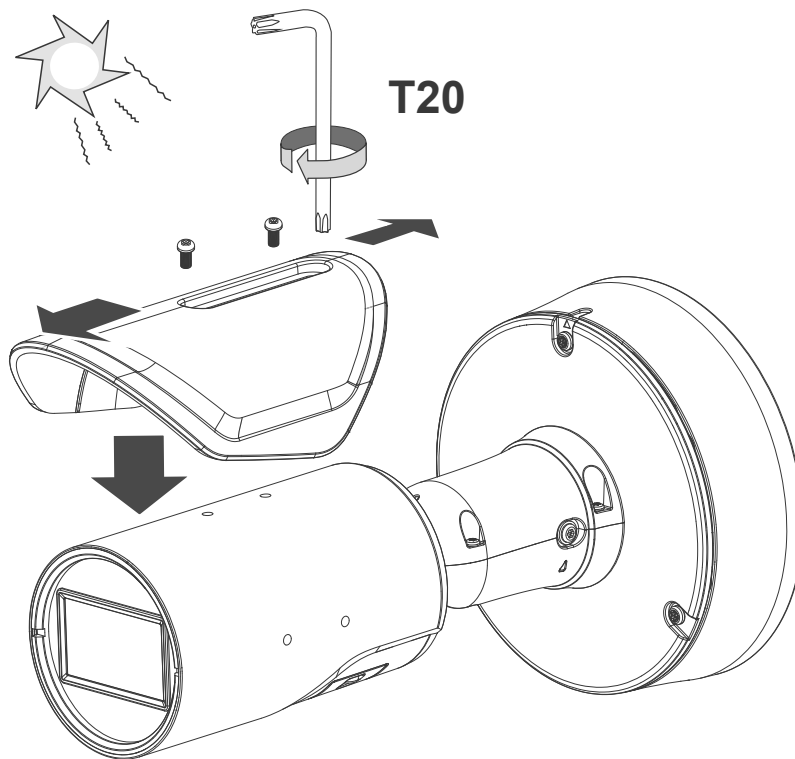
15. Connect the Ethernet and the I/O combo cable to the camera.



16. Use the alignment marks on the camera and the base plate to align and secure the camera by fastening 3 T20 anti-tamper screws.



17. Install the sun shield to camera. You can move the sun shield back and forth depending on the relative position at your installation site.

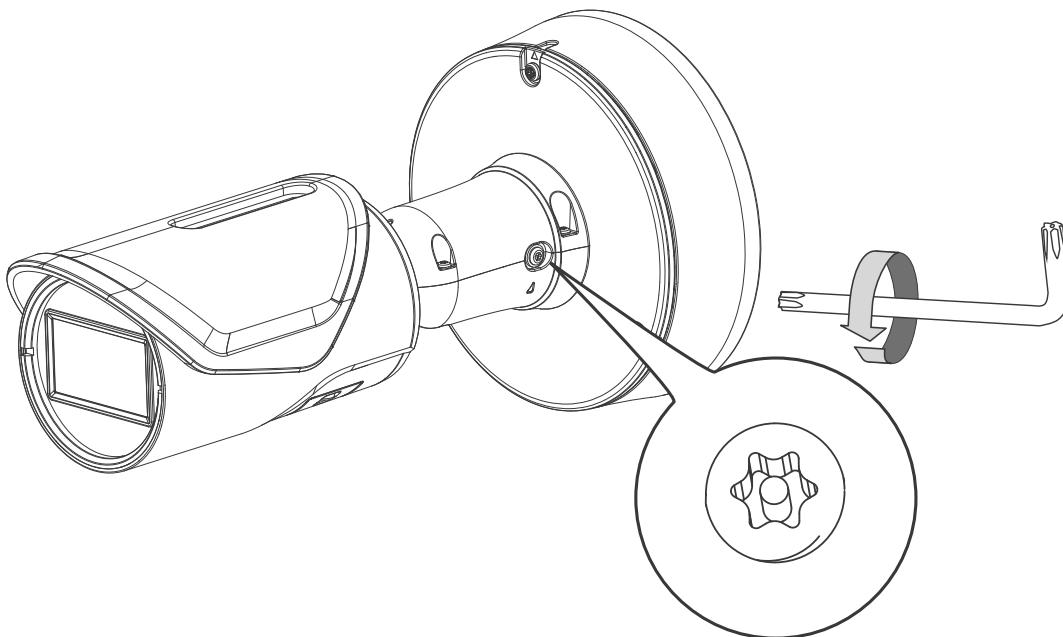


18. Please visit VIVOTEK's website to Install the "Shepherd" software utility. The program will search for VIVOTEK Video Receivers, Video Servers or Network Cameras on the same LAN.

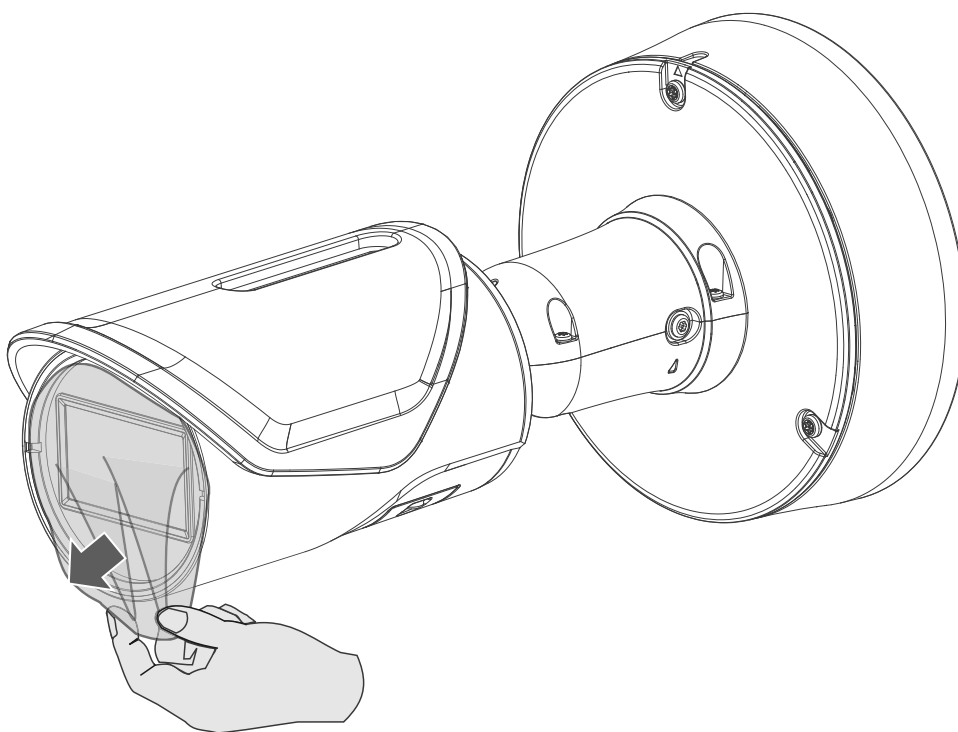
Double-click on the camera's MAC address to open a web console to the camera.



19. Loosen the retention screw on the side of camera bracket in order to adjust the camera's shooting direction.



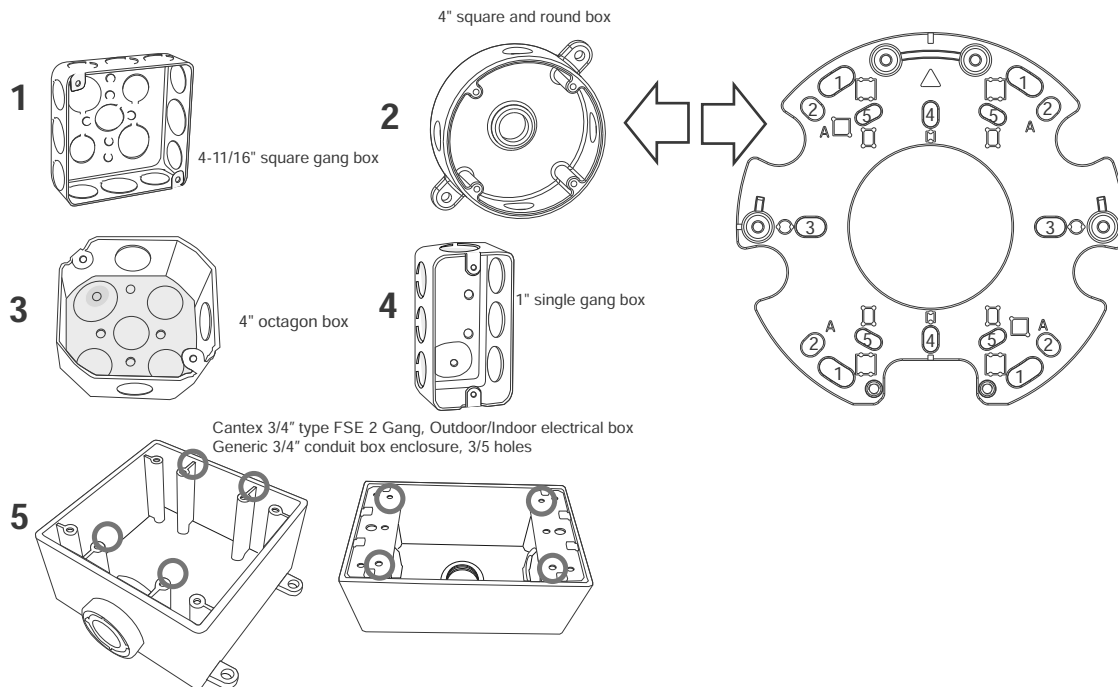
20. Remove the protective sheet on the camera lens.



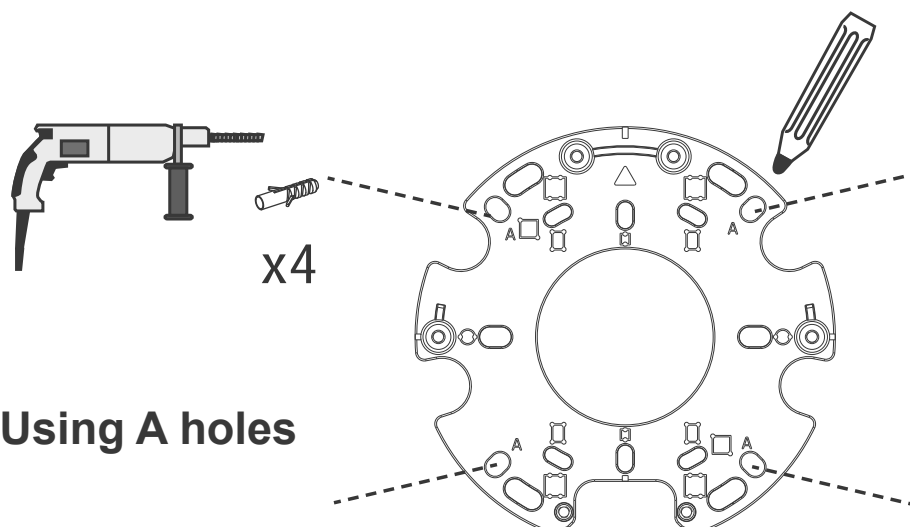


**Installation option A:**

A-1. See below for the mounting holes used with applicable conduit boxes.

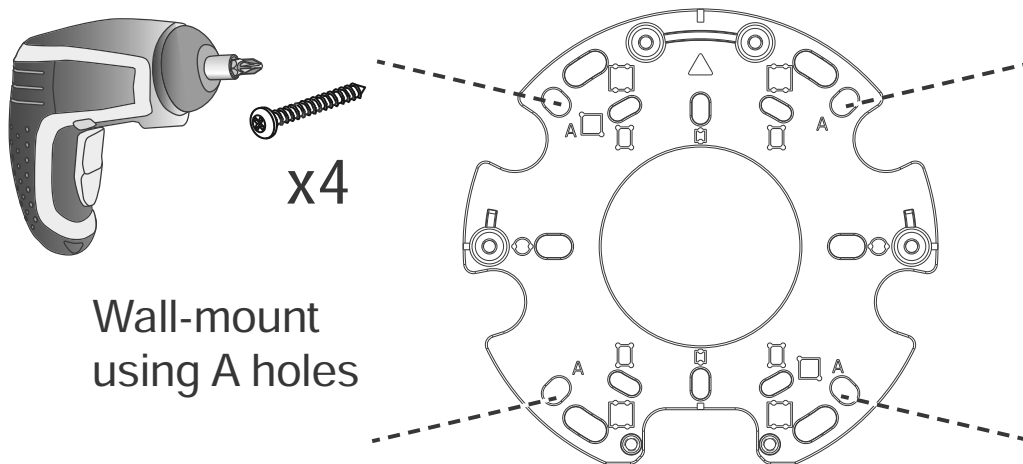


A-2. Use the A holes to mount the base plate to a wall.

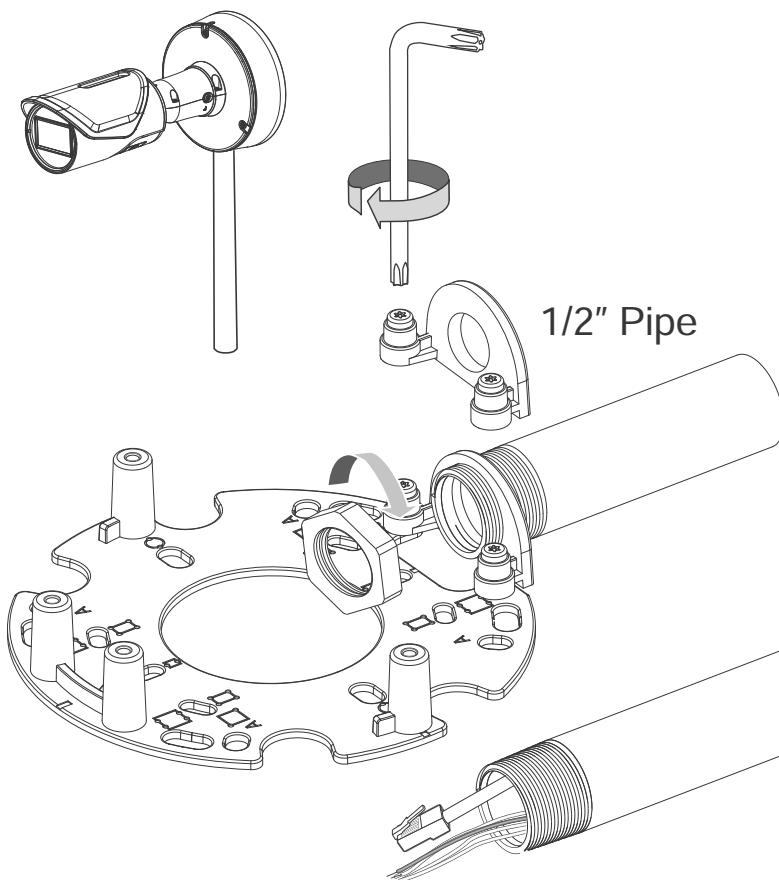


The mounting plate and conduit bracket are separately purchased. The 1/2" threaded pipe and hex nut are user-supplied.

A-3. Drive screws to secure the bracket to wall.

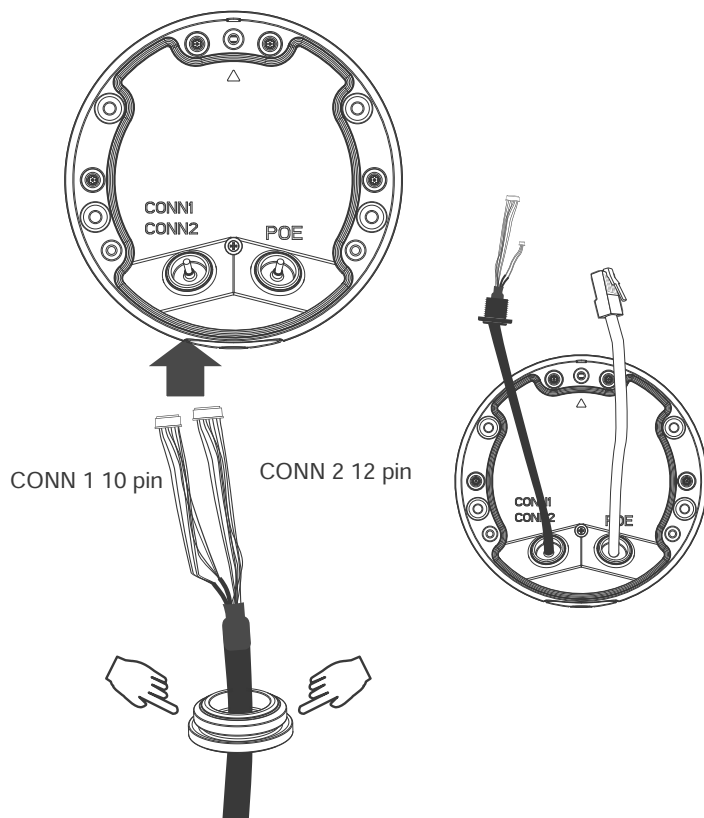


A-4. Secure the 1/2" conduit pipe using the side-routing bracket. You can then route cables and install the camera and base plate to the bracket.

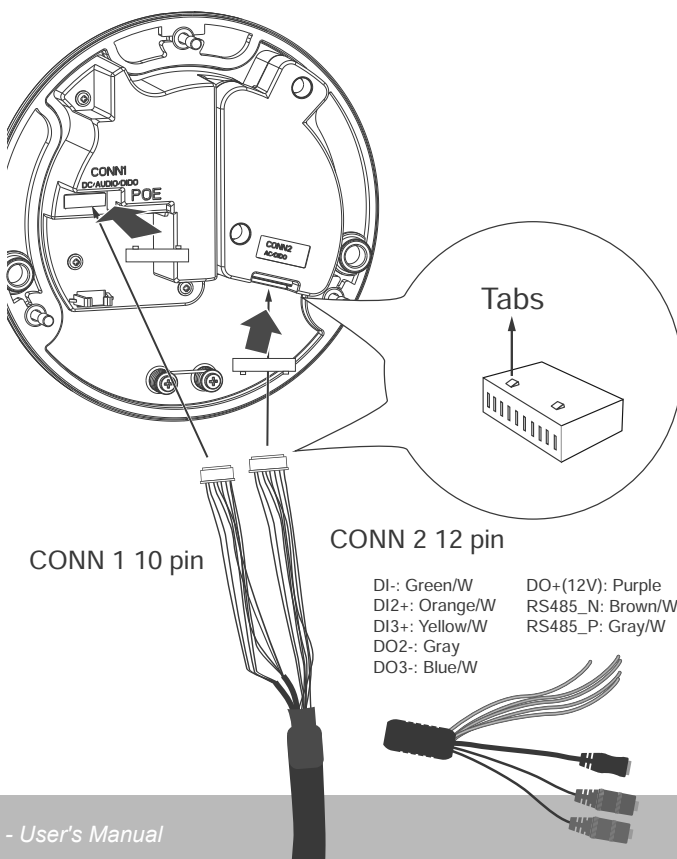


**Installation option B:**

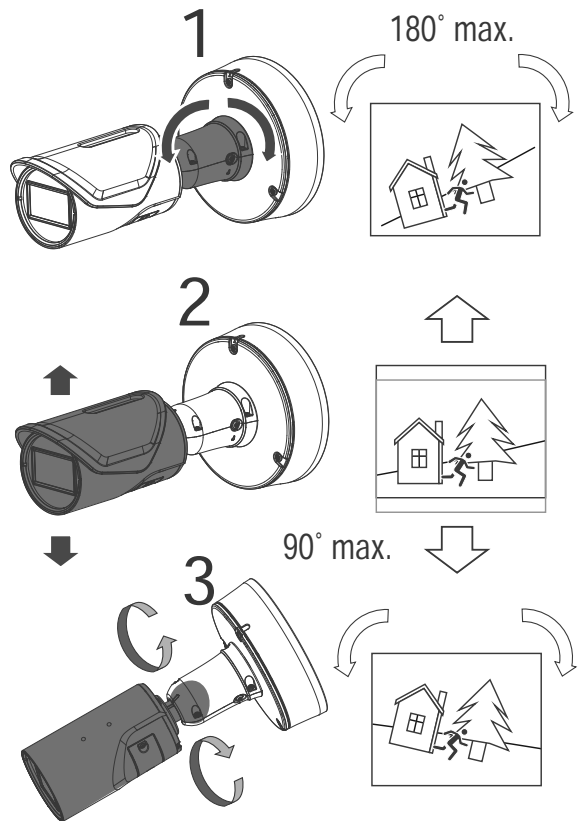
B-1. Pass the I/O extension kit cable through the cabling hole.



B-2. Connect the pin headers to the I/O extension module and that on the camera. Note the orientation of the pin headers with the positions of the tabs. Properly install the grommet as previously described.



21. Adjust the shooting direction by pan, tilt, or rotate to cover the area of your interest.

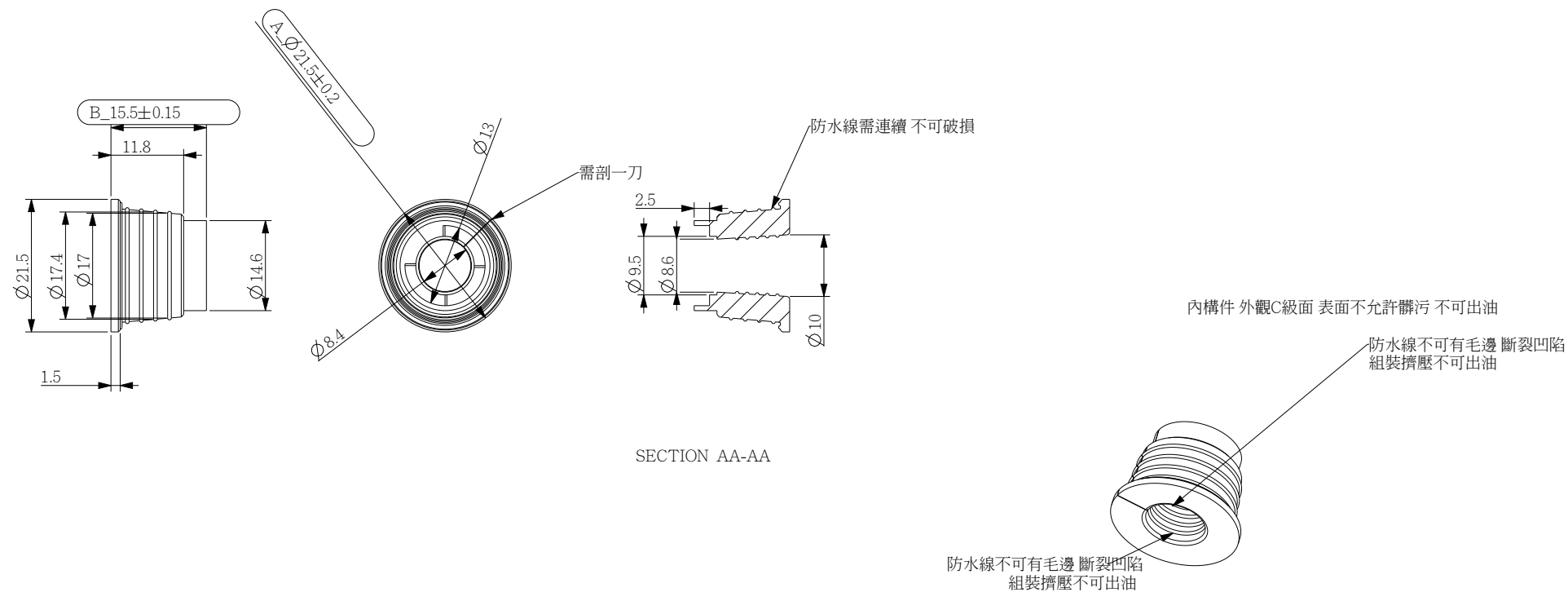




The following Page(s) are related to IllustrationFS-6. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

機密|CONFIDENTIAL

REVISIONS				
REV	DESCRIPTION	POSITION	ENGINEER	DATE
1.0	New Edition			Jul-24-20





SECTION AA-AA

正式圖面

注意事項:

- 1.材質:SILICON(TSE2186U),具UL防火等級(94V-0)與UL 60950-22戶外環境使用規範  
2.顏色:原色  
3.硬度:50±5(Shore A)  
4.重量:5g(3D Model模擬估算/成品實測)  
5.成品色差請依據PANTONE或參考色樣為標準, dE<1.5  
6.成品表面不可有:成型不良痕跡、破損、油污、積漆與毛邊,外觀級別請參照圖面標示,相關檢驗細則,請依據[塑膠機構類檢驗作業規範]為標準  
7.橢圓符號框選尺寸為重點檢驗尺寸(成品尺寸,非素材數值),請依據圖面標示量測  
8.參考尺寸以配合組裝為主要考量,必要時需要額外實配檢驗  
9.所有料件、組裝配件以及包裝之材質都需符合RoHS環保規範,需符合歐盟2011/65/EU法規之有害物質限制含量以下規定且不接受任何排除條款,如此才符合  
10.所有檢驗報告都需要在2年以內,反之廠商有責任義務於一周內提供2年內的檢驗報告  
11.所有未標柱之尺寸都需要符合2D內的公差等級M公差表  
12.包裝規範:包裝的設計不可讓產品在運送過程中,有碰刮傷,甚至撞傷或是噴漆毀損剝落刮傷等等,包裝材質不可用報紙等...產品上不可有油污,雜質和髒污

All dimension without tolerance should conform to the grade on table 1										 VIVOTEK Incorporated		PART NO.		612112900G			
公差等級 線性尺寸允許偏差 (Range/mm)												ENGR	Howard	MODEL	IB9367-HT-V2		
名稱 0-5 5-6 6-30 30-120 120-400 400-1000												DRN	Howard	DRAWING	IB9367-HT-V2_CABLE_RUBBER		
F ±0.05 ±0.05 ±0.1 ±0.15 ±0.2 ±0.3												CHK	KIMI	TITLE			
M ±0.1 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8												MTL	TSE2186U	ISSUE DATE	Jul-24-20	REVISION	1.0
E ±0.3 ±0.3 ±0.5 ±0.8 ±1.2 ±2										FINISH	50度	SCALE	1:1	UNIT	mm		
公差等級 視圖中所用角度的角度的範圍 (Range/deg)										 第三角法		SIZE	A3	SHEET	1 OF 1		
名稱 0-5 5-6 6-30 30-120 120-400 400-1000																	
F ±0.05 ±0.05 ±0.1 ±0.15 ±0.2 ±0.3																	
M ±0.1 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8																	
E ±0.3 ±0.3 ±0.5 ±0.8 ±1.2 ±2																	
公差等級 0-5 5-6 6-30 30-120 120-400 400-1000										THIS DRAWING ON THIS FRONT AND INFORMATION THEREWITH ARE PROPRIETARY TO VIVOTEK INC. AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT VIVOTEK'S CONSENT CP02-WI-014-01-6							





## TEST RECORD NO. 1

- The manufacturer submitted representing production samples of Network Camera, Model IB9367-EHT-v2 for investigation.
- Tests of the product were not considered necessary based upon previous evaluation under the CB scheme. The CB Scheme Test Certificate Ref. No. DK-114418-UL, dated 2021-06-04, and Test Report No. CB1292103157A, dated 2021-05-27, were prepared by UL (Demko).
- Test results reported relate only to the items tested.

The following tests were conducted:

Test	Testing Location/Comments
--	--

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

The following tests were waived:

Test	Rationale for Waiving
Refer to CB report	See CB Report

The following supplements are provided as a part of this Test Record. NOTE:  
These supplements are only available to the Applicant via the CDA system.

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Attachment	01	CRD

## Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the U.S. and Canadian (Bi-National) Standard for Safety of Audio/video, information and communication technology equipment - Part 1: Safety requirements CAN/CSA-C22.2 No.62368-1 2<sup>nd</sup> Edition, issued Date December, 2014, UL 62368-1 Audio/video, information and communication technology equipment - Part 1: Safety requirements, 2<sup>nd</sup> edition date December 1<sup>st</sup>, 2014. Any Information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Report by:  
Jones Chang  
Project Engineer  
Conformity Assessment Services

Reviewed by:  
Chris Kao  
Senior Project Engineer  
Conformity Assessment Services

## CONCLUSION

Samples of the product covered by this Report have been found to comply with the requirements covering the class and the products are judged to be eligible for Listing and Follow-Up Service. The manufacturer is authorized to use the Laboratories' Mark on such products which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the Laboratories' Mark are considered as Listed by Underwriters Laboratories Inc.

Report by:  
Jones Chang  
Project Engineer  
Conformity Assessment Services

Reviewed by:  
Chris Kao  
Senior Project Engineer  
Conformity Assessment Services

