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NEW TAIPEI
235 TAIWAN

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The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
	1		Revised Index Page(s) 1	2019/11/01
2019/03/28	1	3	Cert of Compliance	
2019/03/28	1	3	Description Page(s)	
2019/03/28	1	3	New Figure(s) 16,17,18,19,20,21,22,23,24,25,26,27,28	2019/11/01
2019/03/28	1	3	New Illustration(s) 8,9,10,11,12,13,14,15,16,17,18	2019/11/01
2019/03/28	1	3	New Test Record 2	2019/11/01

PO # C1291907080

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Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

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TPI File

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IT9380T-HNWL and HC30WE5R2, IT9388-HT	3	US and CN
HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL, IB9360-H, IB9380-H	4	US and CN
HN300802(XX), HN301602(XX) (X may be any alphanumeric character for HDD information)	5	US and CN
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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)	12	US and CN
CC9381-HV	13	US and CN

CERTIFICATE OF COMPLIANCE

Certificate Number 20191107-E324690
Report Reference E324690-20190328
Issue Date 2019-NOVEMBER-07

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

**This certificate confirms that
representative samples of**

AUDIO/VIDEO, INFORMATION AND COMMUNICATION
TECHNOLOGY EQUIPMENT

IR Ball, MFZ 5MP 2.8~12mm, Network Camera, IT9380T-HNWL
and HC30WE5R2, IT9388-HT

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


Standard(s) for Safety: UL 62368-1 and CSA C22.2 No. 62368-1-14-(Audio/video,
Information and Communication Technology Equipment - Part 1:
Safety Requirements)

Additional Information: See the UL Online Certifications Directory at
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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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File E324690
Project 4788901258

March 28 , 2019

REPORT

on

Audio/Video, Information and Communication Technology Equipment

VIVOTEK INC
NEW TAIPEI, 235 TAIWAN

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UL TEST REPORT AND PROCEDURE

Standard:	[X] UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) [X] CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
Certification Type:	[X] Listing [] Recognized Component [] Unlisted Component [] Listed Accessory
CCN:	[X] AZOT, [X] AZOT7 (Information Technology Equipment)
Product:	(1) IR Ball, MFZ 5MP 2.8~12mm
Model:	(2) Network Camera
Rating:	(1) IT9380T-HNWL and HC30WE5R2 (2) IT9388-HT I/P: (1) DC12 V, 0.95 A (Supplied by AC adaptor); DC 48 V, 12.95 W Max. (Supplied by PoE adaptor or PoE device) (2) DC 37-57 V, 0.27-0.17 A (Supplied by PoE adaptor or PoE device)
Applicant Name and Address:	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.

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Prepared by: Nate Hsu

Reviewed by: Chris Kao

Supporting Documentation

Altitude during operation (m): ☒ Up to 2,000 ☐ Up to _____ m

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:
Altitude of test laboratory (m): ☒ Less than 2,000 ☐ Approximately _____

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 Class III Network Camera which consists of electronic components are mounted on PCB and housed by metal enclosures and secured glass cover together with glue, and metal enclosure is fixed by screw.
- The equipment is mounted on a wall or ceiling and 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

Models IT9380T-HNWL and HC30WE5R2 are identical each other except for model designation.
Model IT9388-HT is similar to models IT9380T-HNWL and HC30WE5R2 except for product name, rating, outdoor use and model designation.

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 direct connect to mains

Fundamental Frequency.....: ☐ 50/60 Hz ☐ 50 Hz ☐ 60 Hz ☐ other _____ 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

Mass of equipment (kg)	Approx. 0.65 kg
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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 for models IT9380T-HNWL and HC30WE5R2; 55°C for model IT9388-HT
- The product is intended for use on the following power systems: ☐ TN ☐ IT ☐ TT ☐ DC mains supply ☒ No direct connection
- Considered current rating of protective device as part of the building installation (A) : ☐ 15 ☐ 20 ☐ _____ ☒ N/A
- Mains supply tolerance (%) or absolute mains supply values : ☐ +10%, -10% ☐ DC Mains: +20%, -15% ☐ +____%, -____% ☒ No direct connection
- ☐ The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS):
- ☒ The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual.
- 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.
- Based upon the product specification provided by the manufacturer, this unit is intended to be supplied by an UL Listed power supply suitable for use at Tma 60 degree C whose output meets ES1, LPS (or PS2) and is rated 12Vdc, 0.95A min.; or PoE 48Vdc, 12.95W min. for models IT9380T-HNWL and HC30WE5R2.
- Based upon the product specification provided by the manufacturer, this unit is intended to be supplied by an UL Listed power supply suitable for use at Tma 55 degree C whose output meets ES1, LPS (or PS2) and is rated 37-57Vdc, 0.27-0.17A min. for model IT9388-HT.
- 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: -20°C to 55°C for model IT9388-HT.
- UL60950-22, 9.1, ANNEX B - WATER SPRAY TEST only evaluated wall mounting direction for model IT9388-HT.

Additional Information

N/A

Additional Standard

The product fulfills the requirements of: UL 60950-22, Information Technology Equipment - Safety - Part 22: Equipment to be Installed Outdoors, Edition 1, including Revision Date December 19, 2011

Markings, instructions and instructional safeguards						
Clause Title		Marking or Instruction Details				
		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		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 cord to a socket-outlet with earthing connection, or equivalent.				
Special Instructions to UL Representative <p>(1) If the Power Supply does not mark with "LPS" or "Limited Power Source", please check the UL report for Power Supply and confirm whether it complies with Limited Power Source or PS2 in Technical Consideration.</p> <p>(2) For adaptor without listing manufacturer and model (Various/Interchangeable) in critical component table, the Field Representative should verify the Tma (maximum ambient temperature) is minimum 60 degree C from the updated version of power adaptor(s) UL Certification reports per the latest revision or report revision (UL 60950-1, 2nd Edition, dated 2014-10-14 or UL 62368-1, 2nd Edition, dated 2014-12-01) (provided from customer) for models IT9380T-HNWL and HC30WE5R2.</p> <p>(3) For adaptor without listing manufacturer and model (Various/Interchangeable) in critical component table, the Field Representative should verify the Tma (maximum ambient temperature) is minimum 55 degree C from the updated version of power adaptor(s) UL Certification reports per the latest revision or report revision (UL 60950-1, 2nd Edition, dated 2014-10-14 or UL 62368-1, 2nd Edition, dated 2014-12-01) (provided from customer) for model IT9388-HT.</p>						
Production-Line Testing Requirements <u>Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.</u>						
Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
--	--	--	--	--	--	--
<u>Earthing Continuity Test Exemptions - This test is not required for the following models:</u>						
All models						
<u>Electric Strength Test Exemptions - This test is not required for the following models:</u>						
All models						
<u>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:</u>						
--						
<u>Sample and Test Specifics for Follow-Up Tests at UL</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
For models IT9380T-HNWL and HC30WE5R2	--	--	--	--	--	--
01. DC power source (Optional)	Interchangeable	Interchangeable	O/P: 48 Vdc, 12.95 W minimum or 12 Vdc, 0.95 A minimum. Comply with PS2 or LPS. Tma 60 degree C.	NWQQ/7, QQQQ/7, AZOT/7, QQJQ/7	UL	--
02. Enclosure	--	--	--	--	--	--
02-1. Glass IR LED cover	Interchangeable	Interchangeable	Glass 1.1 mm thick minimum. See enclosure ID Illustration-1 for details.	--	--	Illustration-1
02-2. Glass lens cover	Interchangeable	Interchangeable	Glass 1.1 mm thick minimum. See enclosure ID Illustration-2 for details.	--	--	Illustration-2
02-3. Top metal enclosure	Interchangeable	Interchangeable	Aluminum alloy, 2.0 mm thick minimum. See enclosure ID Illustration-3 for details.	--	--	Illustration-3
02-4. Bottom metal enclosure	Interchangeable	Interchangeable	Aluminum alloy, 2.0 mm thick minimum. See enclosure ID Illustration-4 for details.	--	--	Illustration-4
03. Electric Double Layer Capacitors (BT1)	ELNA CO., LTD.	DSK-3R3K204T614-KL	Rated 3.3 Vdc, 0.2 F	--	--	--
04. IR LED (Two provided)	Lextar Electronics Corporation	PR88F01	850nm, 280 mW/sr for each. Exempt Group	--	--	--

05. POE transformer (T1) (On the I/O board)	Interchangeable	Interchangeable	105 degree C minimum. See enclosure ID Illustration-5 for details.	--	--	Illustration-5
06. Mounting base	Interchangeable	Interchangeable	Aluminum alloy. See enclosure diagram Illustration-6 for details.	--	--	Illustration-6
07. Internal plastic parts/material	Interchangeable	Interchangeable	HB or HBF minimum	QMFZ2	UL	--
07a. Internal Plastic Part Materials (Optional) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when one or more layers of thin insulating material, used directly on any surface of V-2 class material within the fire enclosure	--	--	--
07b. Internal Plastic Part Materials (Optional) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (1750mm ³ maximum) are mounted on V-1 class material	--	--	--
07c. Internal Plastic Part Materials (Optional) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4g maximum or 1750mm ³ max.) are separated from electrical parts (other than insulated wires and cables) by at least 13mm of air or by a solid barrier of V-1 class material.	--	--	--
08. PWB	Interchangeable	Interchangeable	V-1 minimum, 105 degree C minimum.	ZPMV2	UL	--
09. Plastic Material of Flexible Printed Wiring (Optional)	Interchangeable	Interchangeable	HB min. or HBF min. when no components mounted on surface.	QMFZ2 or QMTS2	UL	--
09a. Plastic Material of Flexible Printed Wiring (Alternate) (Optional)	Interchangeable	Interchangeable	HB min. or HBF min. when no components mounted on surface.	ZPMV2 or ZPKX2	UL	--

09b. 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	--
10. Label	Interchangeable	Interchangeable	80 degree C if maximum surface temperature not specified.	PGDQ2, PGJI2	UL	--
10a. Permanency of Marking (Alternate)	Interchangeable	Interchangeable	Engraved laser marking.	--	--	--
10b. Permanency of Marking (Alternate)	Interchangeable	Interchangeable	Permanently ink-stamped, silk-screened, molded in, or in self-adhesive labels.	--	--	--
11. Interconnecting Cable (Optional)	Interchangeable	Interchangeable	Minimum 80 degree C, minimum 48V, maximum 3.05 m long, jacketed, VW-1 or FT-1	AVLV2, ZPFW2, DVPJ	UL	--
11a. Interconnecting Cable (Optional) (Alternate)	Interchangeable	Interchangeable	Maximum 3.05 m long, jacketed, type CMP, CMR, CMG, CM, CMX, CMUC, or CMH.	DUZX, ZPFW2, DUXR/2	UL	--
12. Wiring, internal ES1 circuits (Optional)	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; min 48 V, 80 degree C.	AVLV2	UL	--
13. Connectors and Receptacles (ES1 circuits)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 minimum	QMFZ2	UL	--
13a. Connectors and Receptacles (ES1 circuits) (alternate)	Interchangeable	Interchangeable	Minimum 48 V.	ECBT2, RTRT2	UL	--

13b. Connectors and Receptacles (ES1 circuits) (alternate)	Interchangeable	Interchangeable	--	DUXR2	UL	--
14. Stepper motor (On the lens module, connect to J15 of IO board)	Fujian Forecam Optics Co., Ltd.	Molex 51021-0200	5.5 Vdc, 25 mA	--	--	--
15. Stepper motor (On the lens module, connect to J4 of IO board)	Fujian Forecam Optics Co., Ltd.	Molex 51021-0400	3.3 Vdc, 100 mA	--	--	--
16. Stepper motor (On the lens module, connect to J13 of IO board)	Fujian Forecam Optics Co., Ltd.	Molex 51021-0800	3.3 Vdc, 50 mA	--	--	--
17. Thermal Pad (Between MB board and internal metal part) (One provided)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4g maximum or 1750mm ³ max.), dimension approx. 11 by 8 by 1 mm thickness.	--	--	--
18. Thermal Pad (Between internal metal part and bottom metal enclosure) (One provided)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4g maximum or 1750mm ³ max.), dimension approx. 13 by 13 by 1.5 mm thickness.	--	--	--

For model IT9388-HT	--	--	--	--	--	--
01. DC power source (Optional)	Interchangeable	Interchangeable	O/P: 37-57 Vdc, 0.27-0.17 A, 55 degree C minimum. Comply with PS2 or LPS.	NWGQ/7, QGGQ/7, AZOT/7, QQJQ/7	UL	--
02. Enclosure	--	--	--	--	--	--
02-1. Top glass lens cover	Interchangeable	Interchangeable	Glass 1.1 mm thick minimum. See enclosure ID Illustration-8 for details.	--	--	Illustration-8
02-2. Top glass IR LED cover	Interchangeable	Interchangeable	Glass 1.1 mm thick minimum. See enclosure ID Illustration-9 for details.	--	--	Illustration-9
02-3. Top metal enclosure	Interchangeable	Interchangeable	Aluminum alloy, 2.0 mm thick minimum. See enclosure ID Illustration-10 for details.	--	--	Illustration-10
02-4. Bottom metal enclosure	Interchangeable	Interchangeable	Aluminum alloy, 2.0 mm thick minimum. See enclosure ID Illustration-11 for details.	--	--	Illustration-11
03. Mounting device	Interchangeable	Interchangeable	Aluminum alloy. See enclosure ID Illustration-12 for details.	--	--	Illustration-12
04. Adhesive (Between top metal enclosure and top glass lens cover)	Taiwan Cemedine Co., Ltd	Super-X NO.8008	--	--	--	--
05. Adhesive (Between top metal enclosure and top glass IR LED cover)	Taiwan Cemedine Co., Ltd	Super-X NO.8008	--	--	--	--
06. Adhesive (Between bottom metal enclosure and cable)	ITW Engineered Polymers	116FR	HB minimum.	QMFZ2/8	UL	--
07. Gasket (O-ring) (Between top metal enclosure and bottom metal enclosure)	Momentive Performance Materials Japan L L C	TSE2186U(aq)	HB minimum, Silicone rubber. See enclosure ID Illustration-13 for details.	QMFZ2/8	UL	Illustration-13

08. Gasket (O-ring) (On the bottom screw)	Momentive Performance Materials Japan L L C	TSE2186U(aq)	HB minimum, Silicone rubber. See enclosure ID Illustration- 14 for details.	QMFZ2/8	UL	Illustration-14
09. Electric Double Layer Capacitor (BT1) (On the Main board)	ELNA CO., LTD.	DSK- 3R3K204T614-KL	Rated 3.3 Vdc, 0.2 F	--	--	--
10. IR LED (Two provided)	Lextar Electronics Corporation	PR88F01	850nm, 280 mW/sr for each. Comply with IEC 62471 Exempt Group	--	--	--
11. PoE transformer (T1) (On the I/O board)	Interchangeable	Interchangeable	105 degree C minimum. See enclosure ID Illustration-15 for details.	--	--	Illustration-15
12. Stepper motor (On the lens module, connect to J15 of IO board) (Optional)	Fujian Forecam Optics Co., Ltd.	Molex 51021- 0200	5 Vdc max., 105 degree C	--	--	--
13. Stepper motor (On the lens module, connect to J13 of IO board) (Optional)	Fujian Forecam Optics Co., Ltd.	Molex 51021- 0800	5 Vdc max., 105 degree C	--	--	--
14. Thermal pad (Between main board and internal metal part)	T-GLOBAL TECHNOLOGY CO LTD	TG4040	V-2 minimum. See enclosure ID Illustration-16 for details.	QMFZ2	UL	Illustration-16
15. Internal plastic parts/material	Interchangeable	Interchangeable	HB or HBF minimum	QMFZ2	UL	--

15a. Internal Plastic Part Materials (Optional) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when one or more layers of thin insulating material, used directly on any surface of V-2 class material within the fire enclosure	--	--	--
15b. Internal Plastic Part Materials (Optional) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (1750mm ³ maximum) are mounted on V-1 class material	--	--	--
15c. Internal Plastic Part Materials (Optional) (Alternate)	Interchangeable	Interchangeable	Flammability level is ignored, when small parts (4g maximum or 1750mm ³ max.) are separated from electrical parts (other than insulated wires and cables) by at least 13mm of air or by a solid barrier of V-1 class material.	--	--	--
16. PWB	Interchangeable	Interchangeable	V-1 minimum, 105 degree C minimum.	ZPMV2	UL	--
17. Label	Interchangeable	Interchangeable	70 degree C if maximum surface temperature not specified.	PGDQ2, PGJI2	UL	--
17a. Permanency of Marking (Alternate)	Interchangeable	Interchangeable	Engraved laser marking.	--	--	--
17b. Permanency of Marking (Alternate)	Interchangeable	Interchangeable	Permanently ink-stamped, silk-screened, molded in, or in self-adhesive labels.	--	--	--
18. Interconnecting Cable (Optional)	Interchangeable	Interchangeable	Minimum 70 degree C, minimum 57 V, maximum 3.05 m long, jacketed, VW-1 or FT-1	AVLV2, ZPFW2, DVPJ	UL	--
18a. Interconnecting Cable (Optional)	Interchangeable	Interchangeable	Maximum 3.05 m long, jacketed, type CMP, CMR,	DUZX, ZPFW2, DUXR/2	UL	--

(Alternate)			CMG, CM, CMX, CMUC, or CMH.			
19. Wiring, internal ES1 circuits (Optional)	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; min 57 V, 70 degree C.	AVLV2	UL	--
20. Connectors and Receptacles (ES1 circuits)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 minimum	QMFZ2	UL	--
20a. Connectors and Receptacles (ES1 circuits) (alternate)	Interchangeable	Interchangeable	Minimum 57 V.	ECBT2, RTRT2	UL	--
20b. Connectors and Receptacles (ES1 circuits) (alternate)	Interchangeable	Interchangeable	--	DUXR2	UL	--

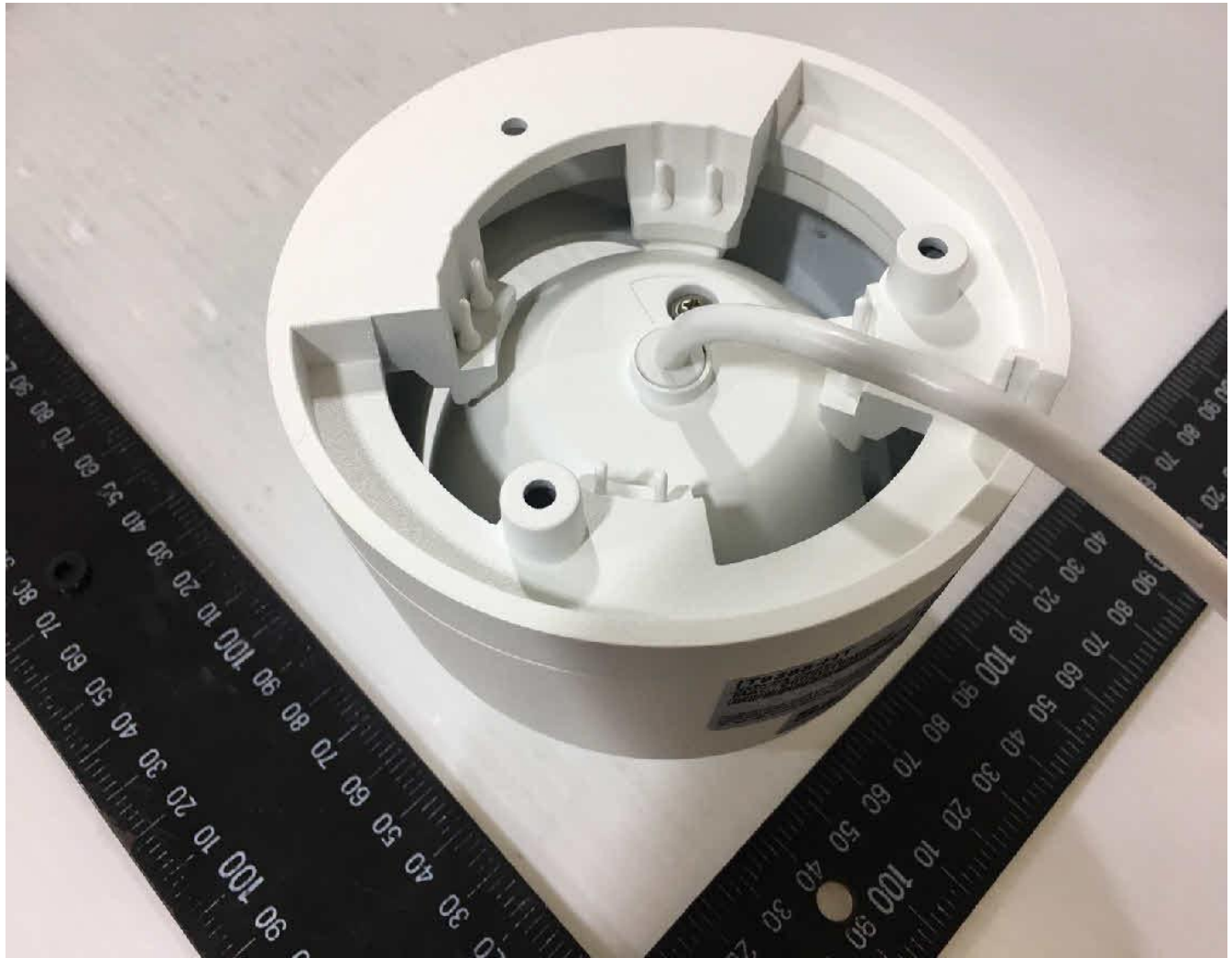
ENCLOSURES

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	Figure-1	Overall view-1 (For models IT9380T-HNWL and HC30WE5R2)
	Figure-2	Overall view-2 (For models IT9380T-HNWL and HC30WE5R2)
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	Figure-8	Internal view-4 (For models IT9380T-HNWL and HC30WE5R2)
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	Illustration-2	Glass lens cover drawing (For models IT9380T-HNWL and HC30WE5R2)
	Illustration-3	Top Metal enclosure drawing (For models IT9380T-HNWL and HC30WE5R2)
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	Illustration-16	Thermal pad (Between main board and internal metal part) (for model IT9388-HT)
	Illustration-17	Instruction/Installation/Safety (for model IT9388-HT)
	Illustration-18	Part 22 TRF (for model IT9388-HT)



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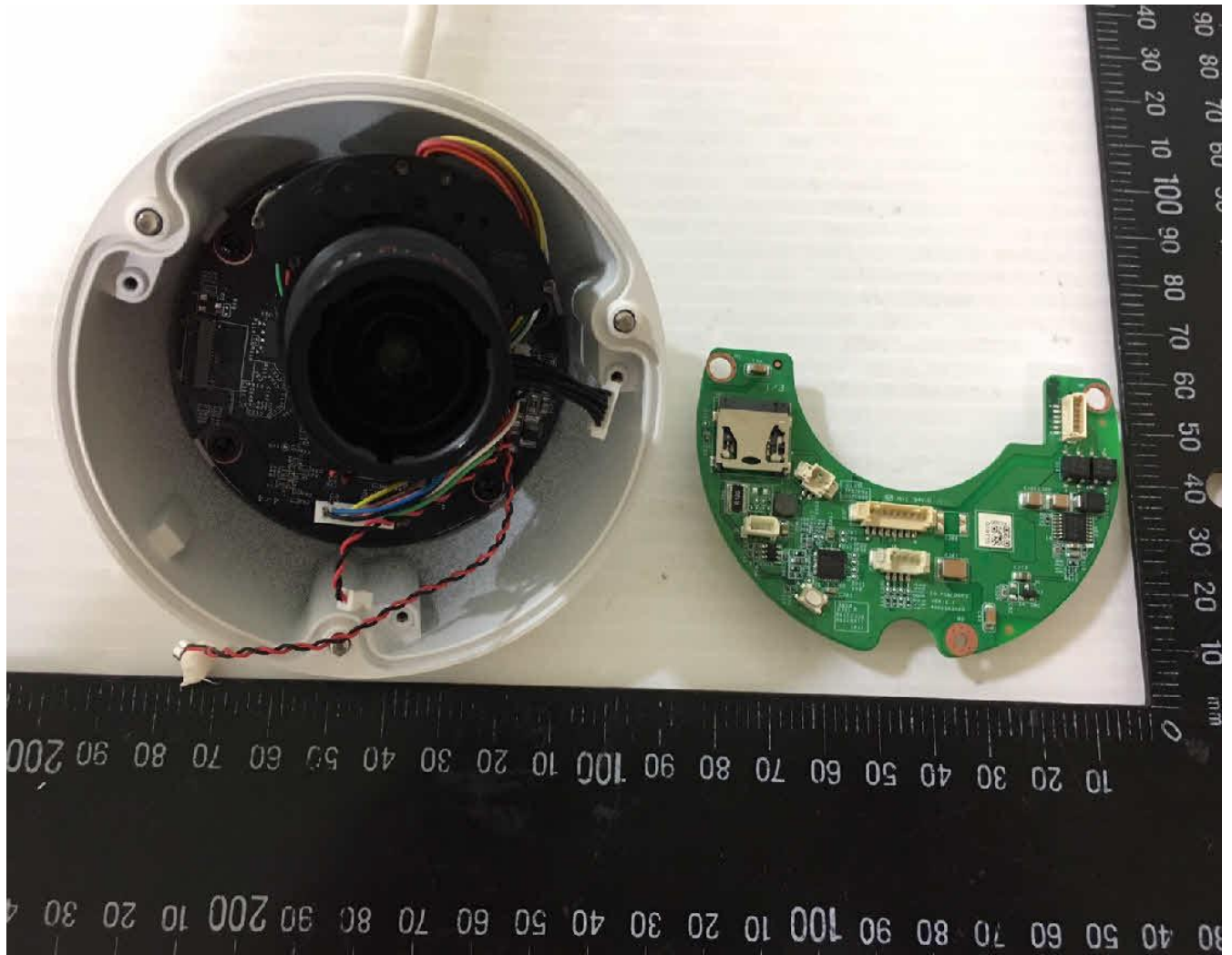
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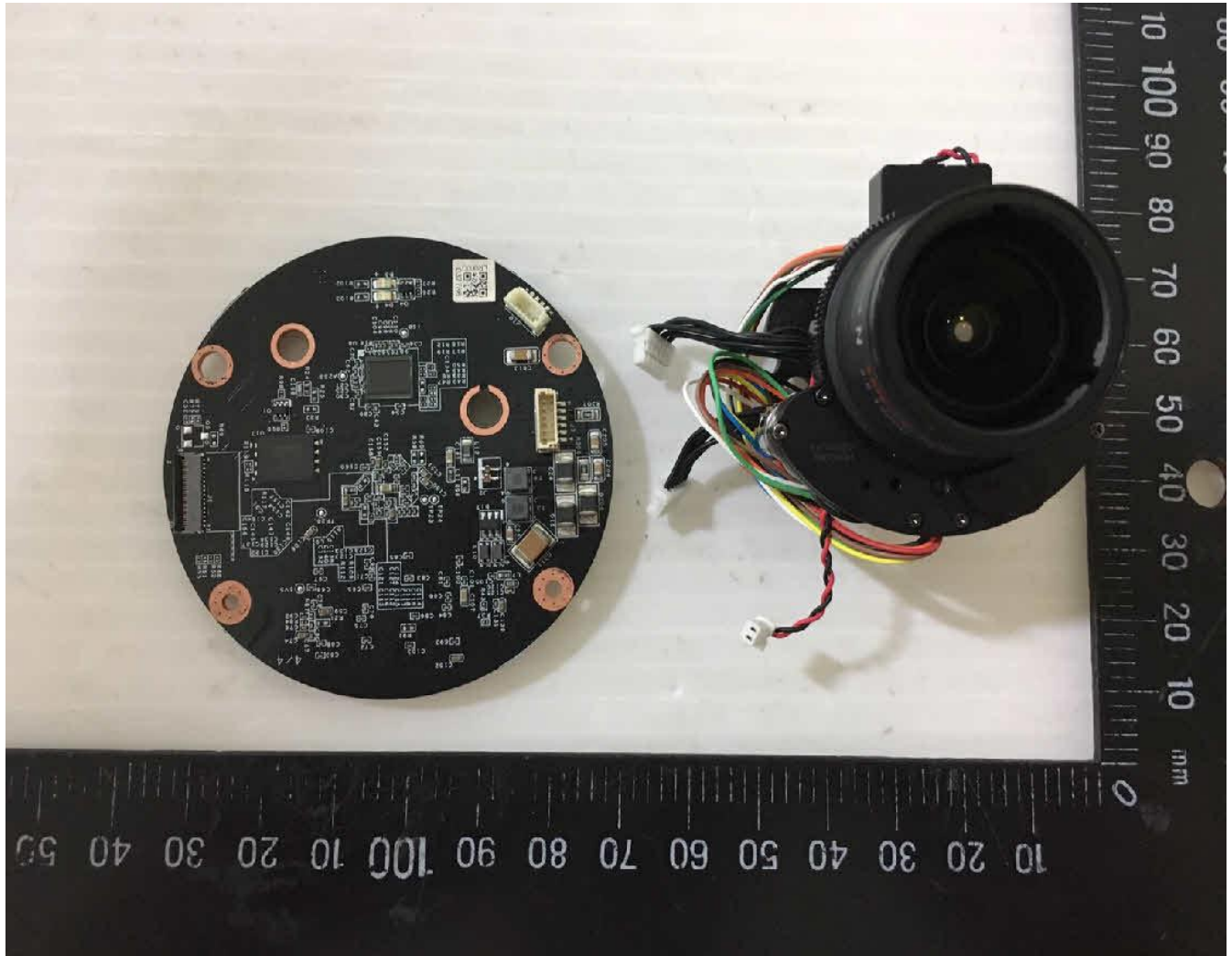
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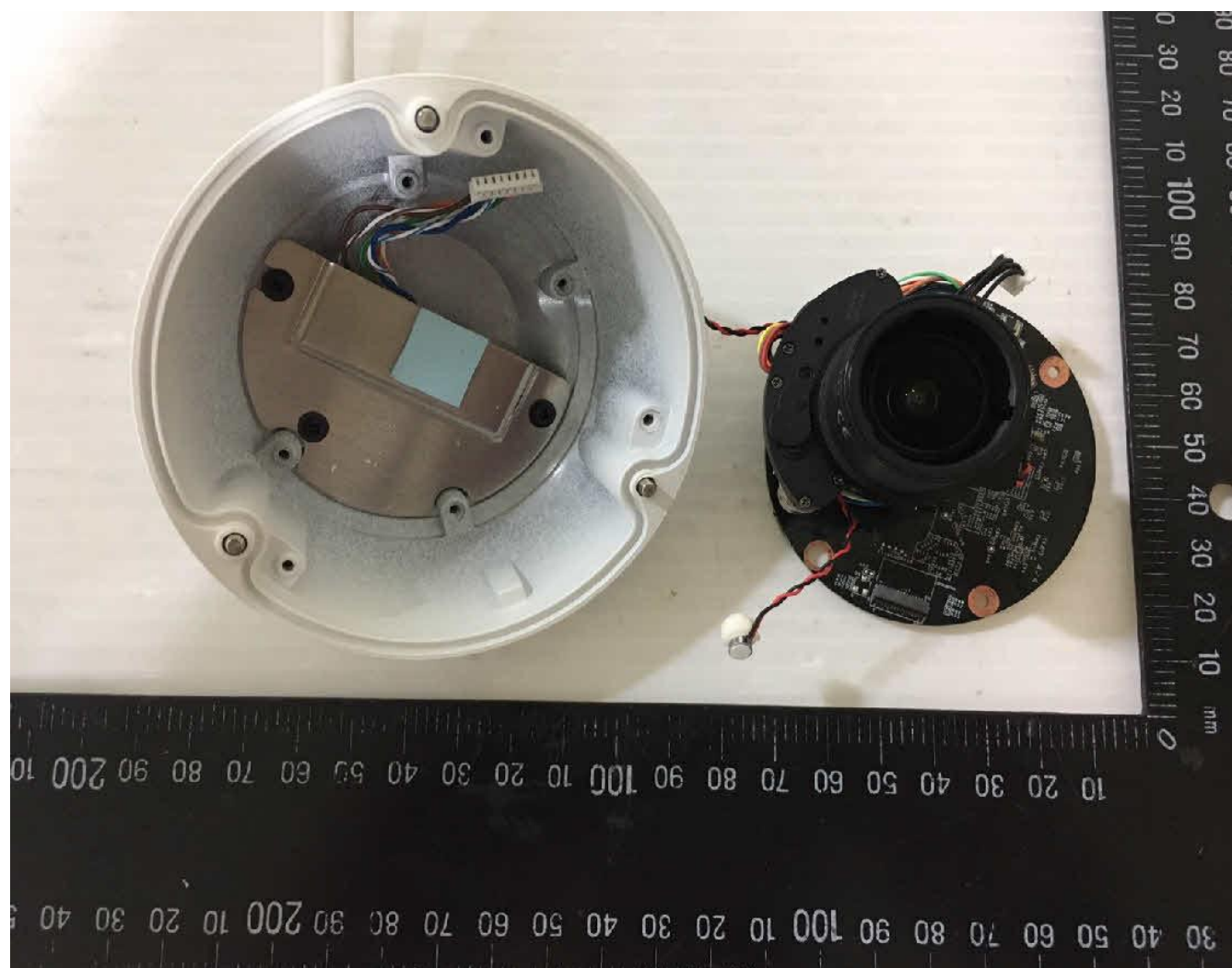
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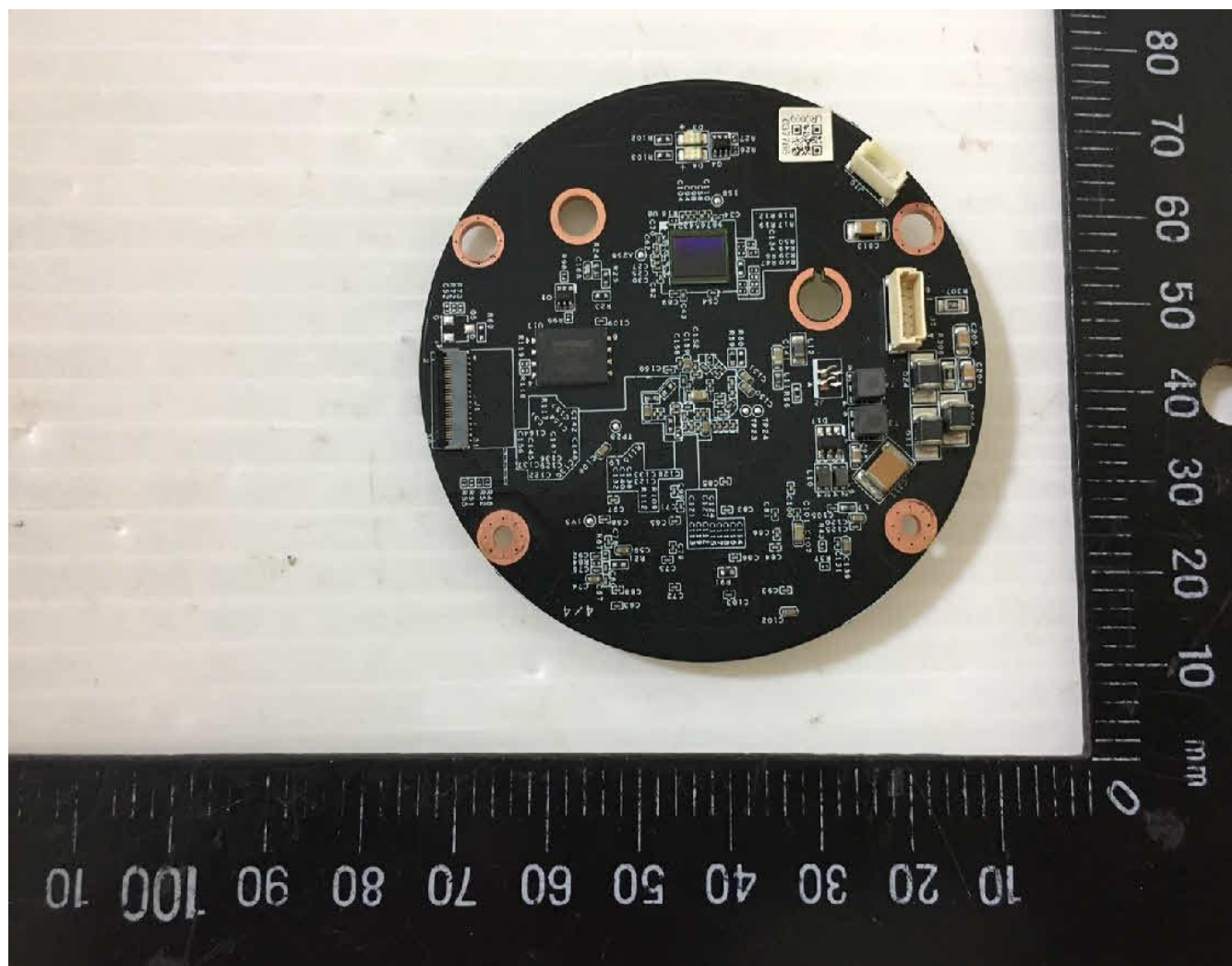
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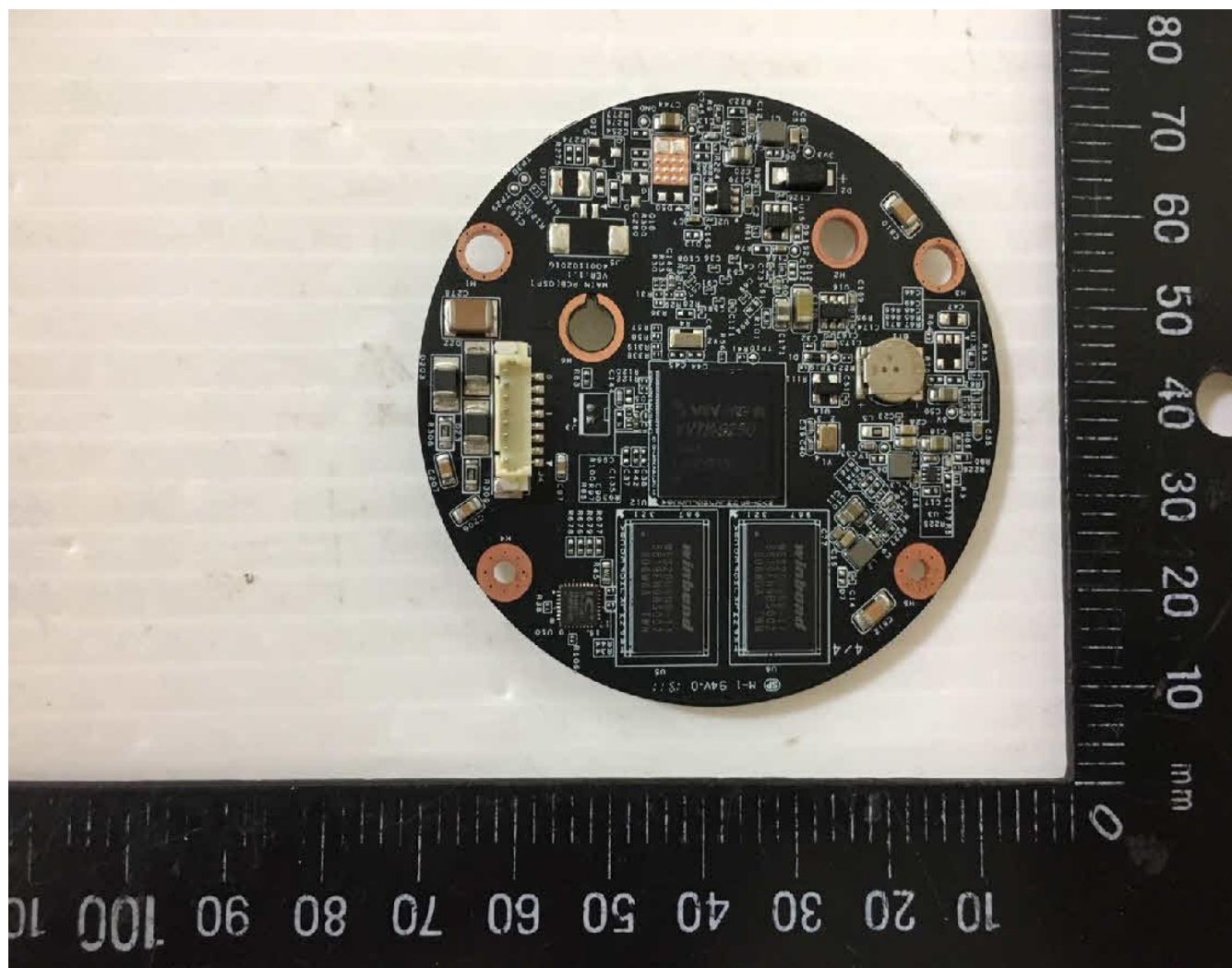
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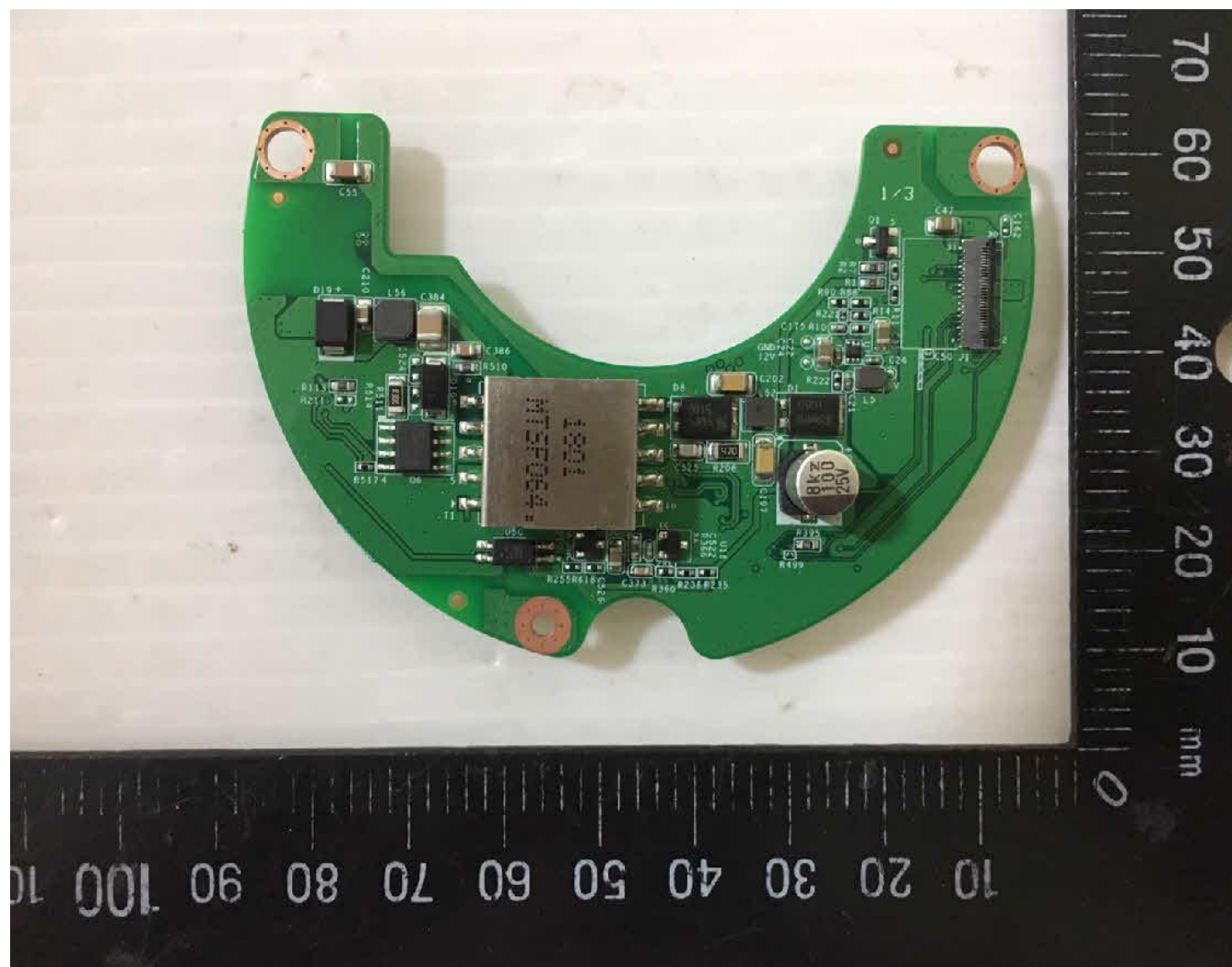
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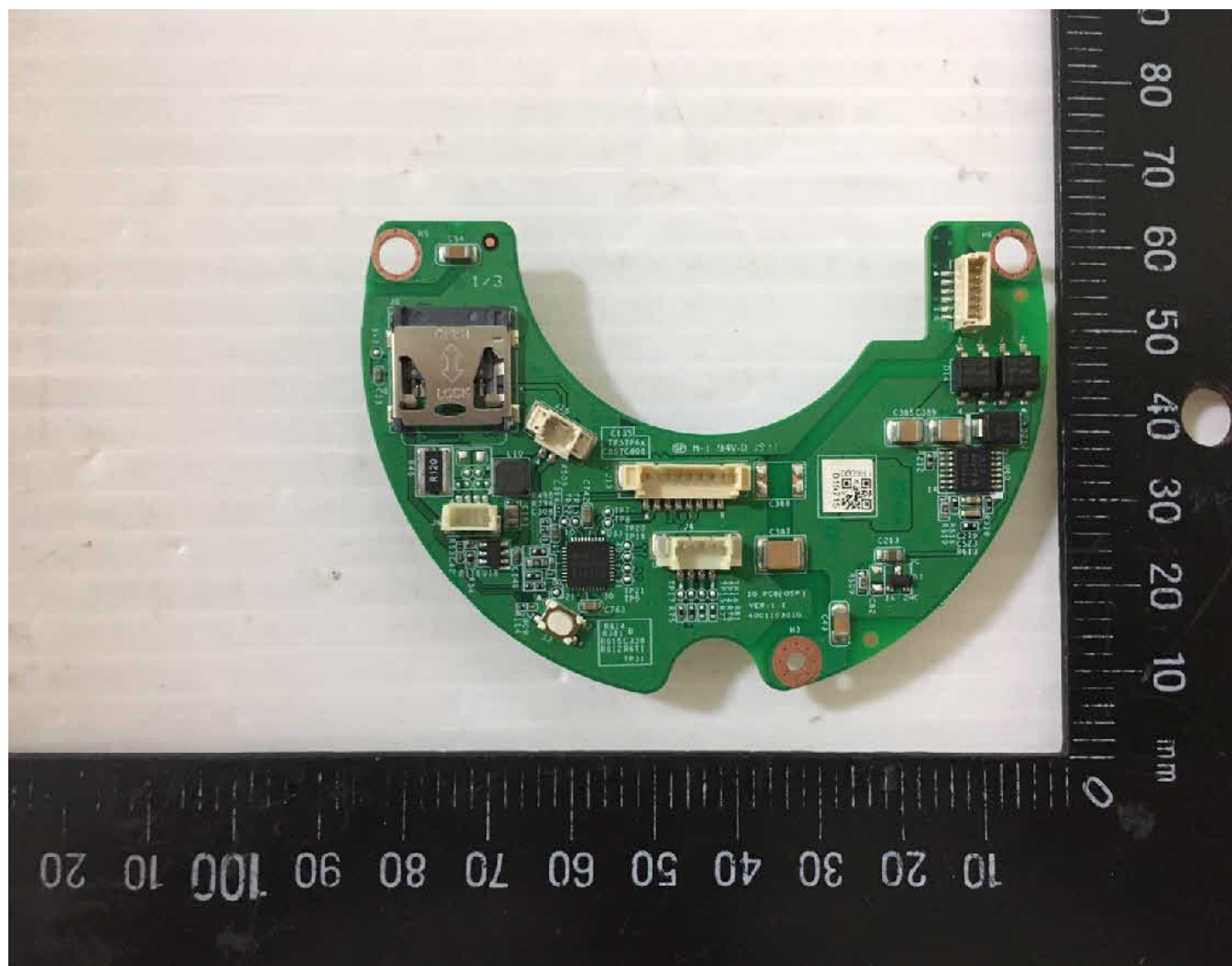
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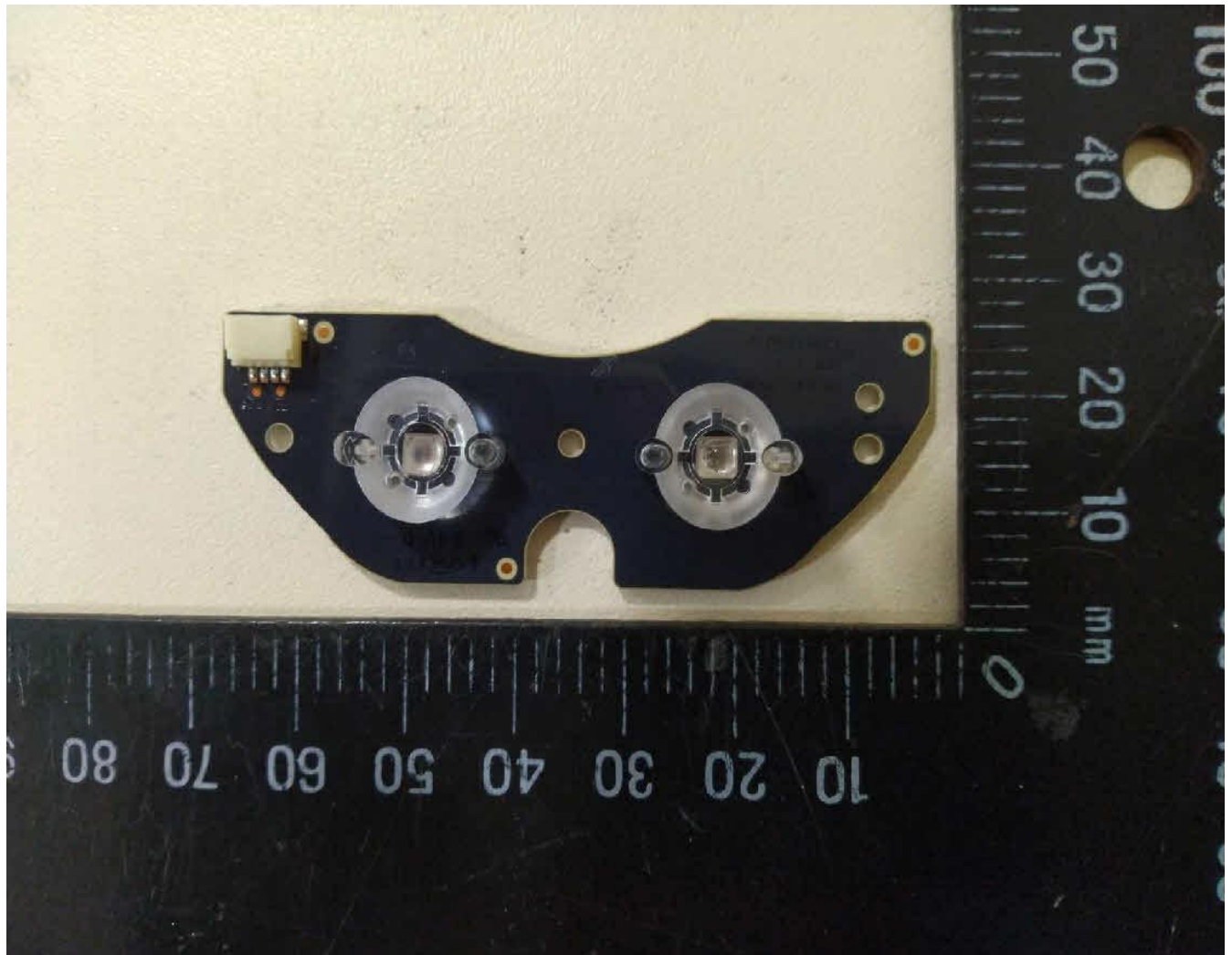
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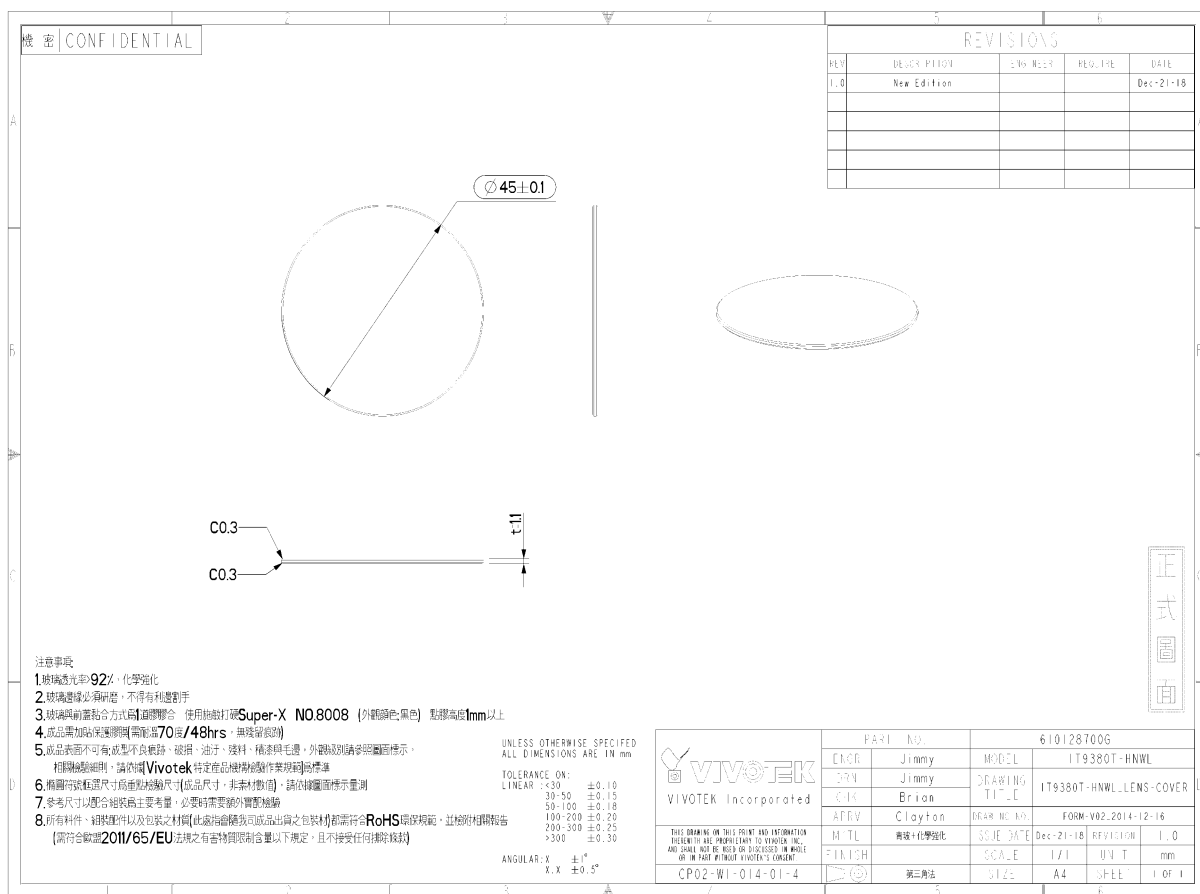
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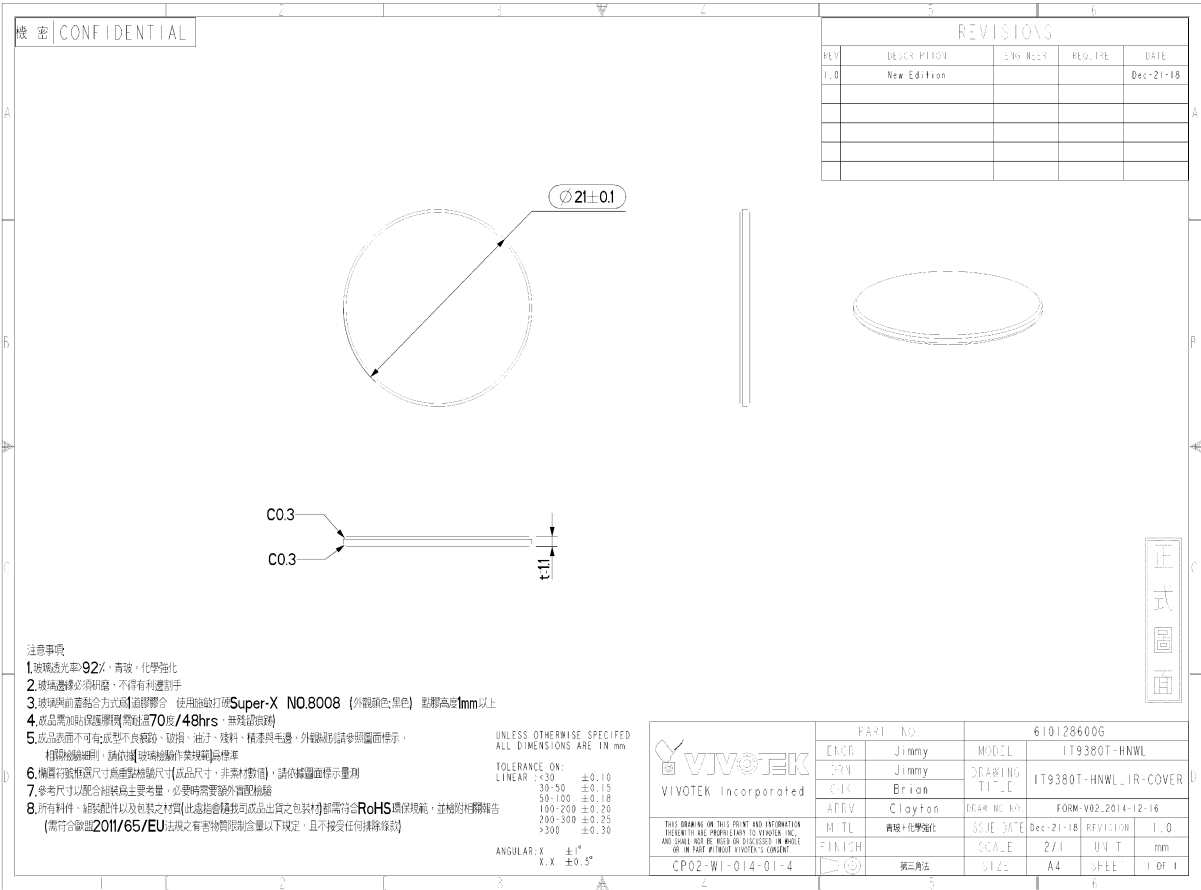
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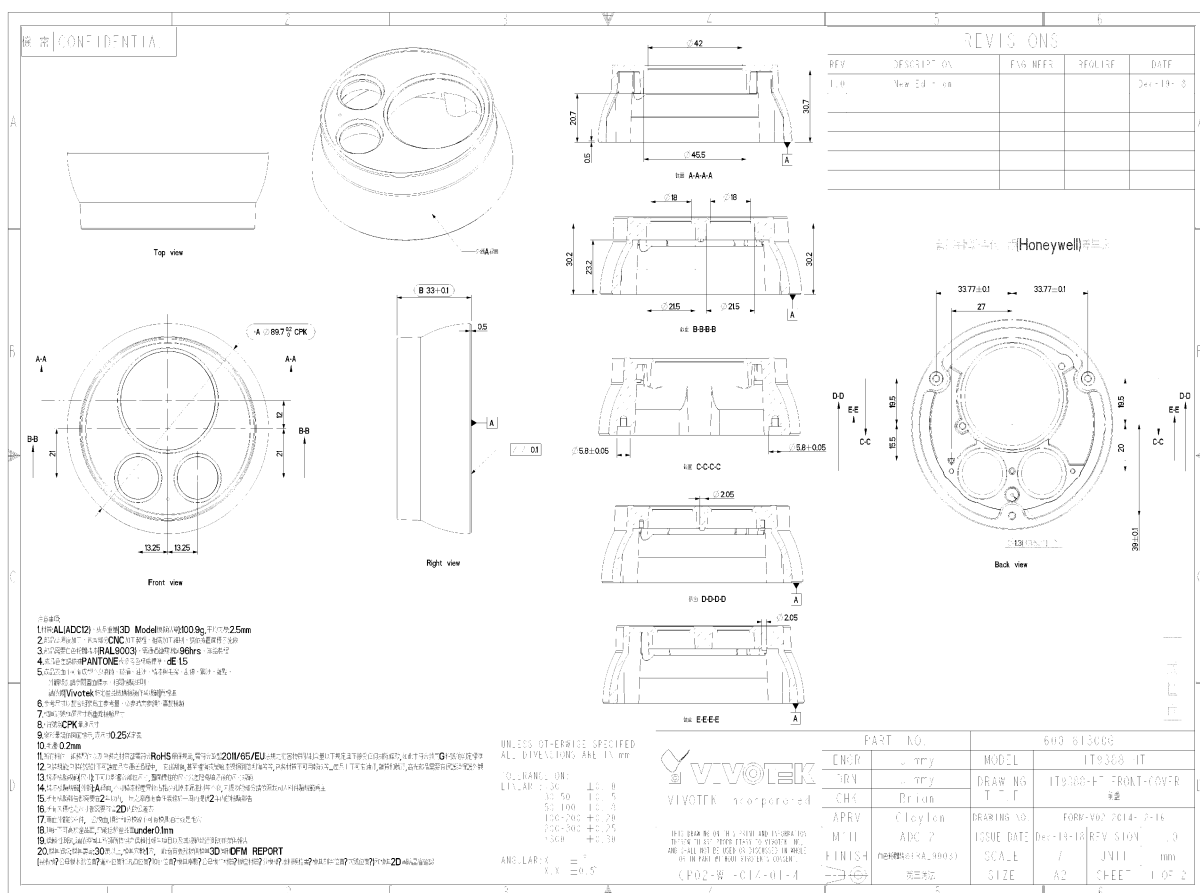
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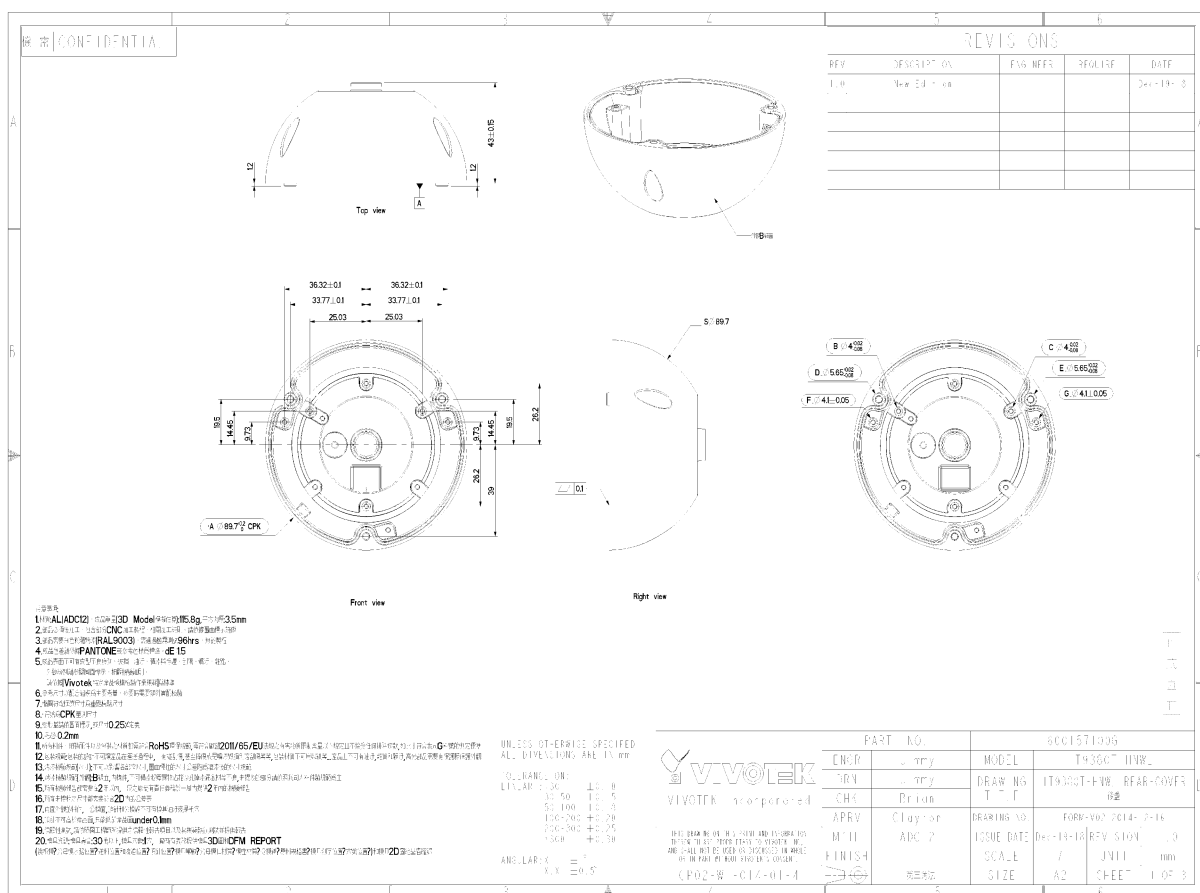
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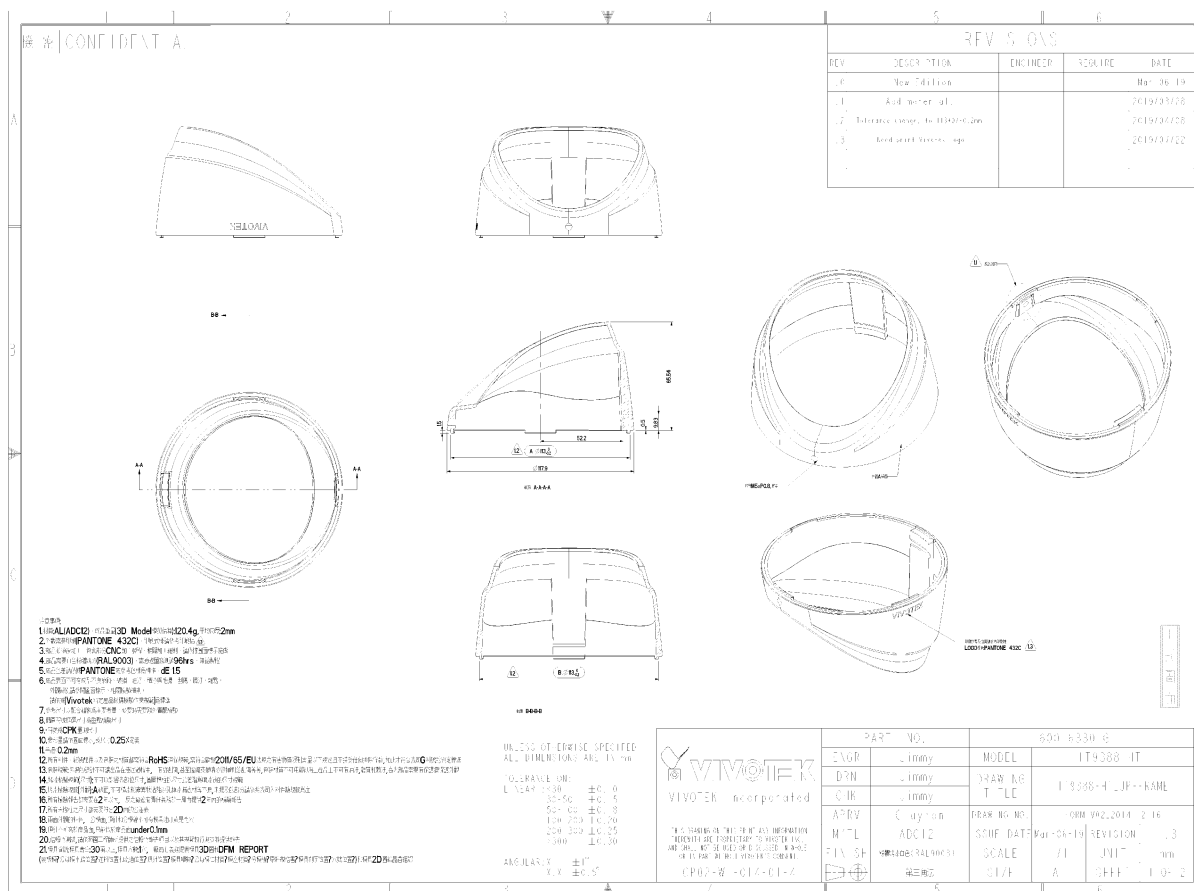
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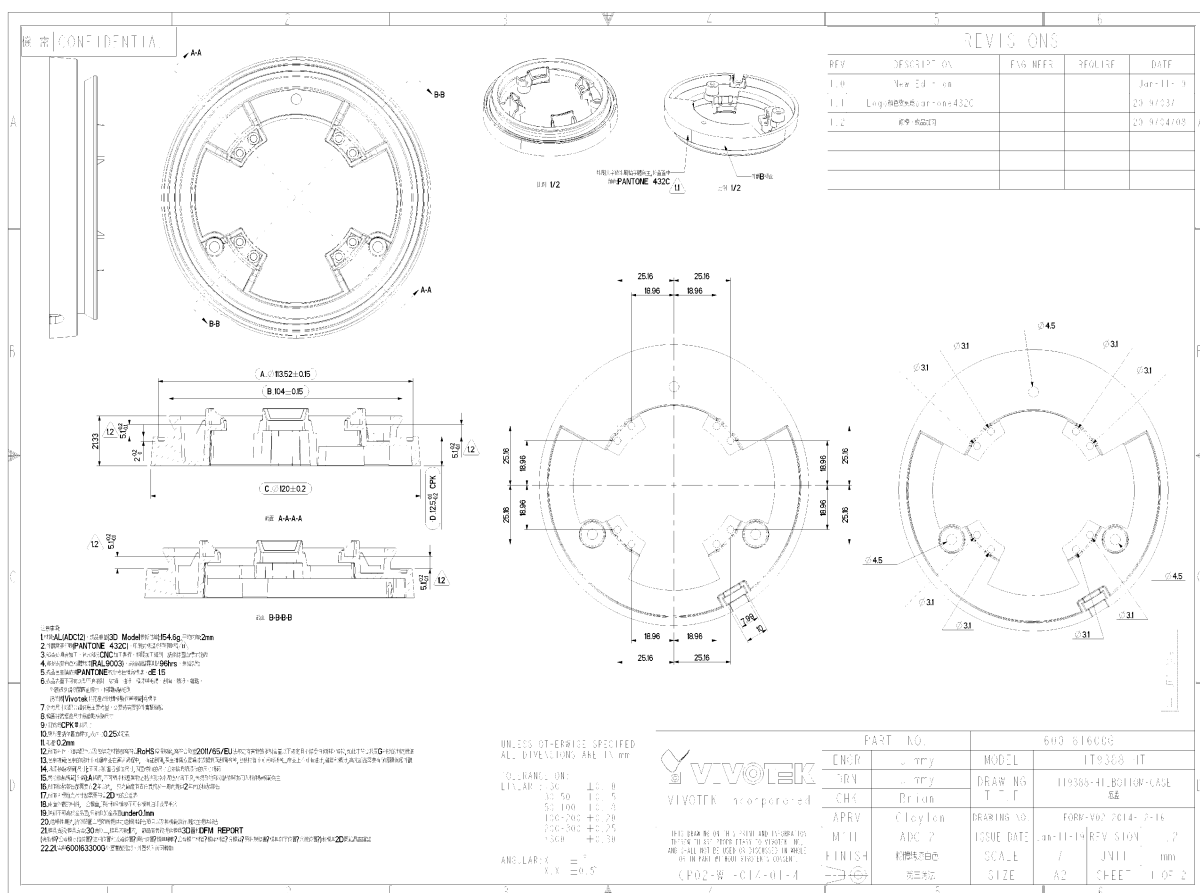
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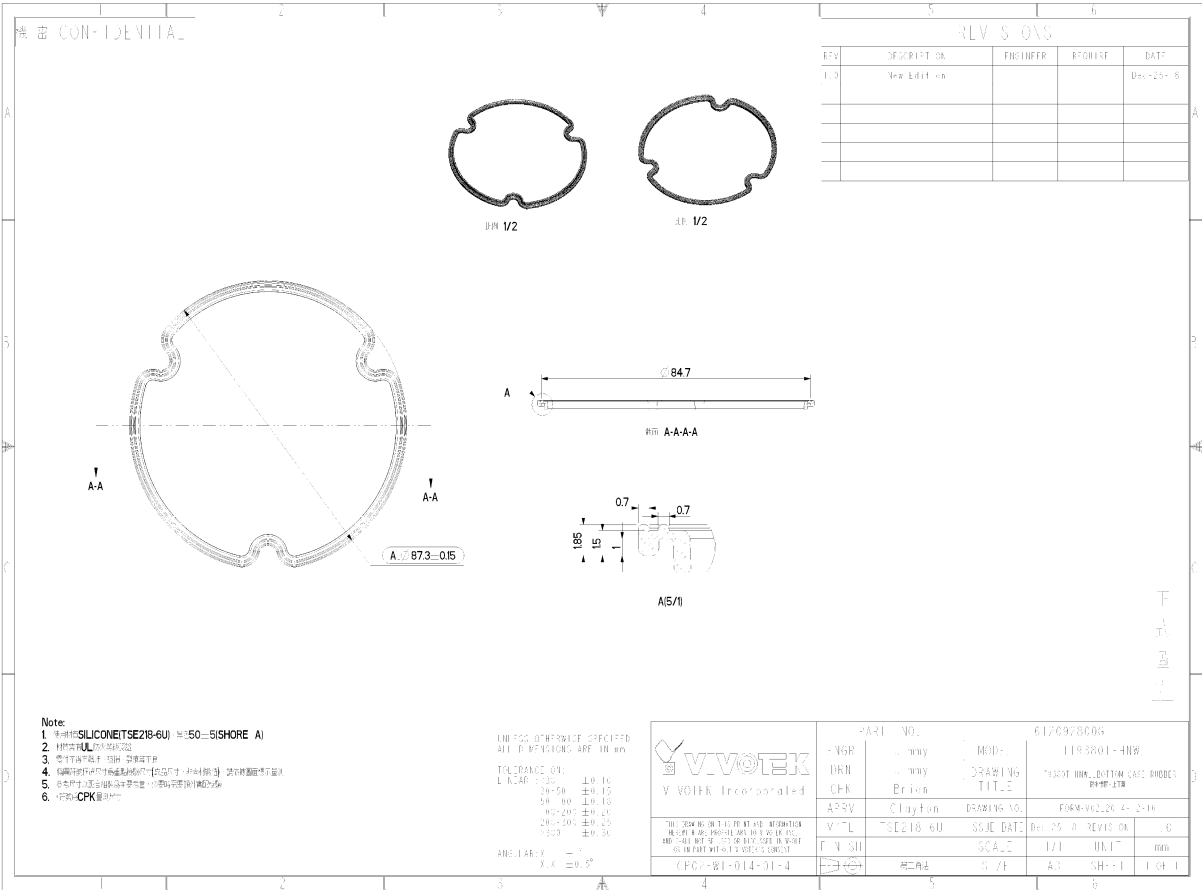
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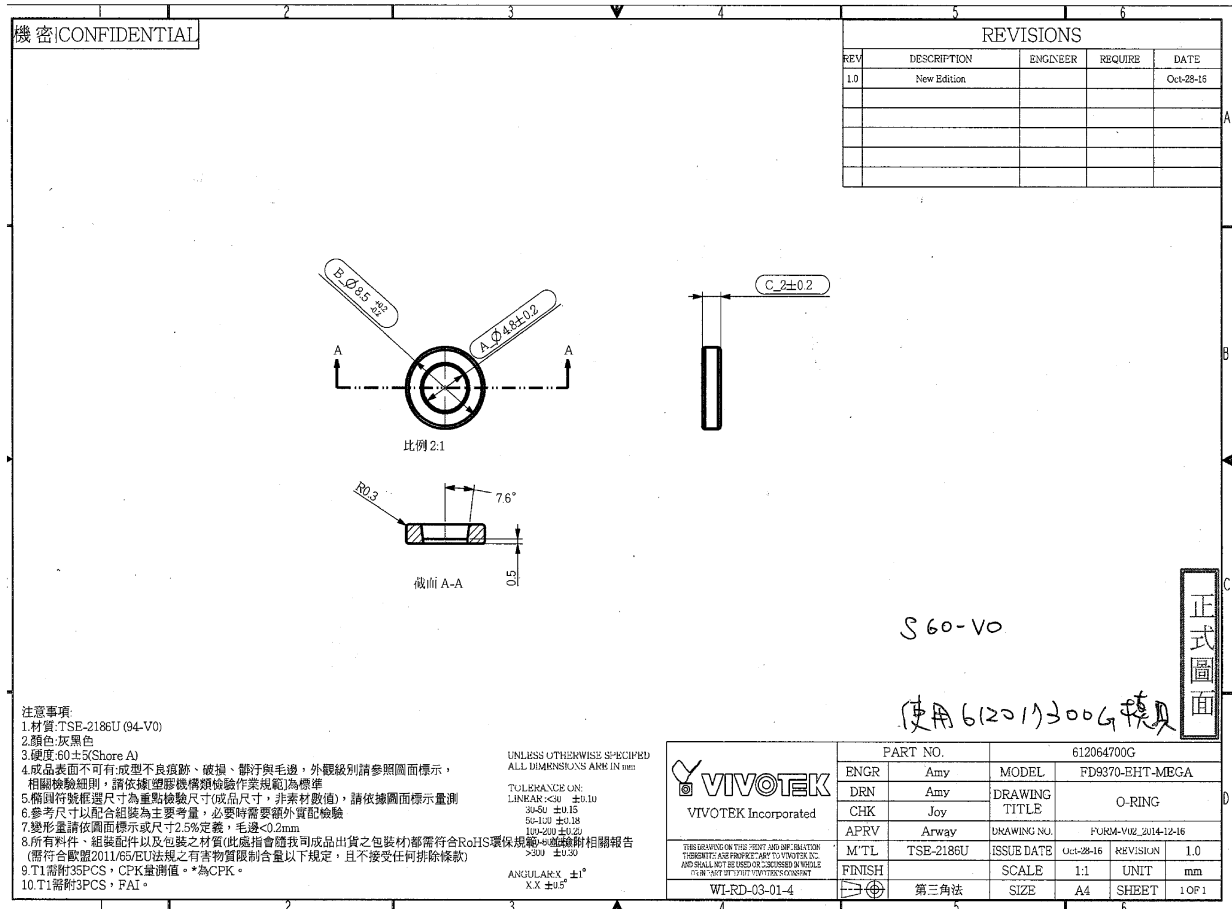
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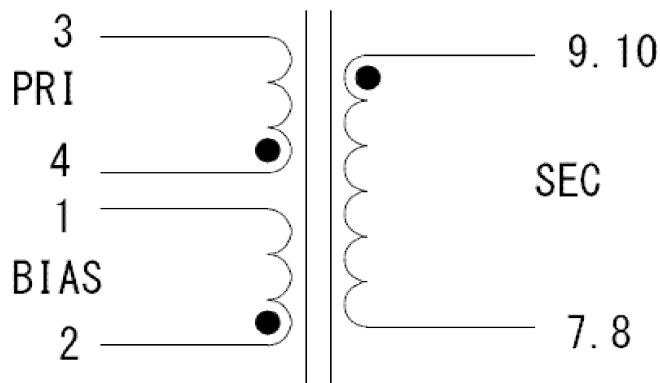
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Flyback Transformer Surface Mount Magnetics
P/N: MTSF064
1 / 2**Feature**

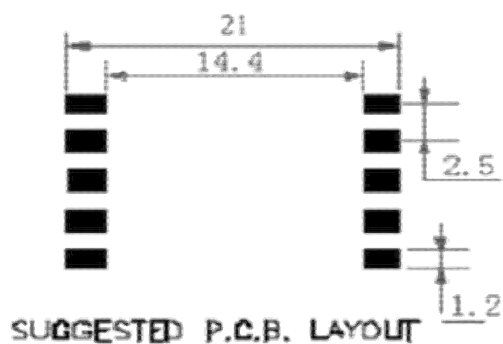
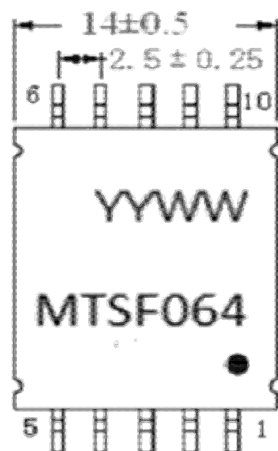
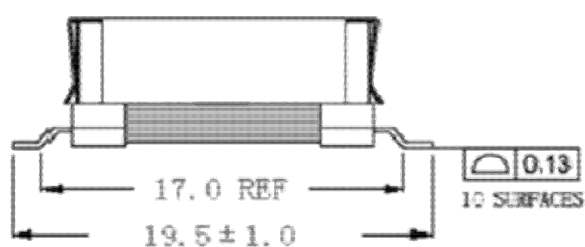
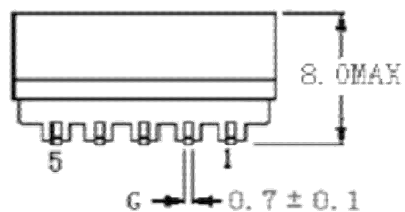
- Flyback Transformer
- RoHS Compliance Product
- Surface Mount Device Providing Compact Footprint
- Operating temperature range:-40°C to +125°C

Electrical Specifications @ 25°C

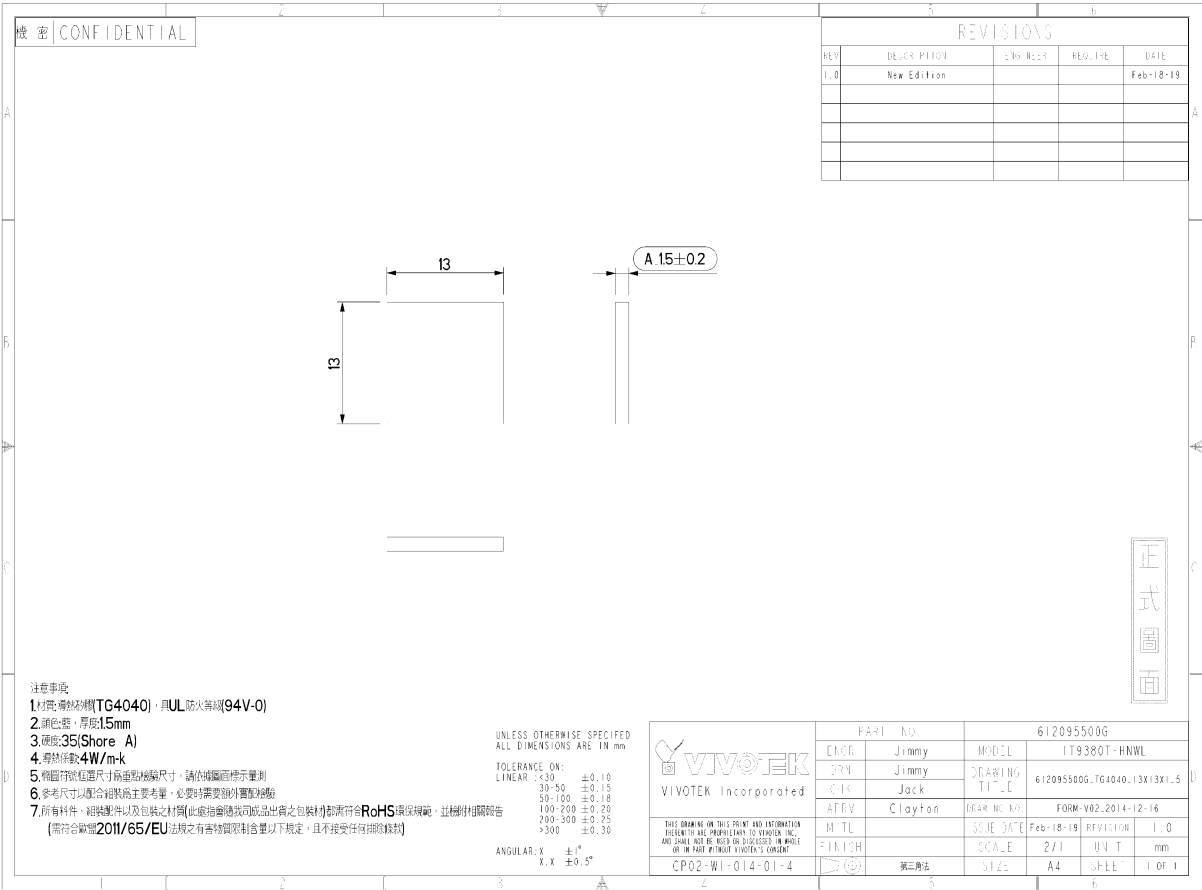
Part Number	Turns Ratio	OCL @100KHz 0.1V	LK @100KHz 0.1V	DCR			Hi-Pot (VAC 5mA 3Sec)
	4-3:2-1:7,8-9,10	4-3	4-3(tie all)	2-1	4-3	10-8	PRI. TO SEC.
MTSF064	1:0.48:0.56±3%	95uH ±10%	1.0 uH max	0.2ΩMAX	0.15ΩMAX	0.1ΩMAX	500

Schematic

4-3	2UEWH 0.16mm*2P	26TS
	0.025*7.0mm	1.0TS
2-1	2UEWH 0.18mm*2P	13.0TS
	0.025*7.0mm	1.0TS
9.10-7.8	2UEWH 0.26mm*2P	15TS
	0.025*7.0mm	1.0TS

**Flyback Transformer Surface Mount Magnetics**
P/N: MTSF064**2 / 2****Mechanical**

Dimension: mm(inch) Unless otherwise specified , all tolerance are $\pm 0.25(0.01)$



N192013768

IT9360-H, IT9380-H, IT9388-HT
Quick Installation Guide

P/N: 625052700G



Warning Before Installation / Warnung vor der Installation / Waarschuwing voor installatie

- [illegible]



Zanim zaczniesz — zalecenia dotyczące bezpieczeństwa / Перед установкой
Upozornění před instalací

- [illegible]



インストール前注意 / 警告 / インストール前の注意

- [illegible]



Avvertenza prima dell'installazione / Kurulum Öncesi Uyarılar / Varning innan installation

- [illegible]



**Avertissement avant installation / Aviso antes da instalação /
Advertencia antes de la instalación**

- [illegible]



Advarsel inden installation / Peringatan Sebelum Pemasangan

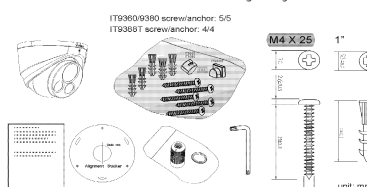
- [illegible]

Package Contents / Packungsinhalt kontrollieren / Inhoud van de verpakking

検査包装内容物 / 検査包装内容 / パッケージ内容の確認
Vérifier le contenu de l'emballage / Verifi que o conteúdo da embalagem / Compruebe el contenido del embalaje

Sprawdź zawartość pakietu / Проверка комплекта поставки / Obsah balení
 Verifi ca il contenuto della confezione / Ambeleis iindabellat Kontrol Edti

Verifi care il contenuto della confezione / Ambalajın içindekileri Kontrol Edin
Paketinnehâll / Kassens indhold / Isi Kemasan مكوّنات الحزمة



Hardware Installation / Hardwareinstallation / Hardware installeren

設備解説 / 硬件安装 / ハードウェア・インストレーション

Instalación del hardware / Instalacao de Hardware / Instalación del hardware
Instalacja sprzętu / Монтаж оборудования / Instalacja hardware

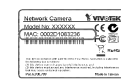
Installazione hardware / Donanim Montaji / Installation av hårdvara

Installation af hardware / Pemasangan Perangkat Keras ب. الأجهزة

①

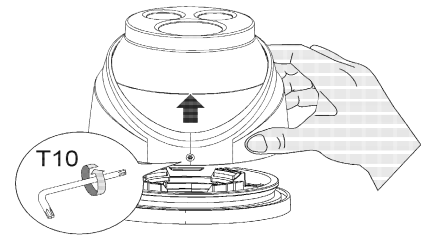


MAC



 NOTE:

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.
3. If powered by a power adapter, the adapter should be properly grounded.








Test Report issued under the responsibility of:



TEST REPORT IEC 60950-22 Information technology equipment – Safety – Part 22: Equipment to be installed outdoors	
Report Number	E324690-4789100684.1-1 Original
Date of issue	2019-09-10
Total number of pages	22
Name of Testing Laboratory preparing the Report	UNDERWRITERS LABORATORIES TAIWAN CO LTD 260 Da-Yeh Road, TW-112 Peitou, Taipei City, Chinese Taipei
Applicant's name	VIVOTEK INC
Address	6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C.
Test specification:	
Standard	IEC 60950-22(ed.2)
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No.	IEC60950_22B
Test Report Form(s) Originator	The Standards Institution of Israel
Master TRF	Dated 2016-04
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General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

N192013770

Test item description	Network Camera	
Trade Mark		
Manufacturer.....	VIVOTEK INC 6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C.	
Model/Type reference	IT9388-HT	
Ratings	(Optionally provided on marking plate) PoE 37-57 Vdc, 0.27-0.17 A	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/> CB Testing Laboratory:	UNDERWRITERS LABORATORIES TAIWAN CO LTD	
Testing location/ address	260 Da-Yeh Road, TW-112 Beitou, Taipei City, Chinese Taipei	
<input type="checkbox"/> Associated CB Testing Laboratory:		
Testing location/ address		
Tested by (name, function, signature)	Vincent Lai, Project Handler	
Approved by (name, function, signature) ..	Stanley Tsai, Reviewer	
Testing procedure: CTF Stage 1:		
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature) ..		
Testing procedure: CTF Stage 2:		
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature) ..		
Approved by (name, function, signature) ..		
Testing procedure: CTF Stage 3:		
Testing procedure: CTF Stage 4:		
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) ..		

TRF No. IEC60950_22B

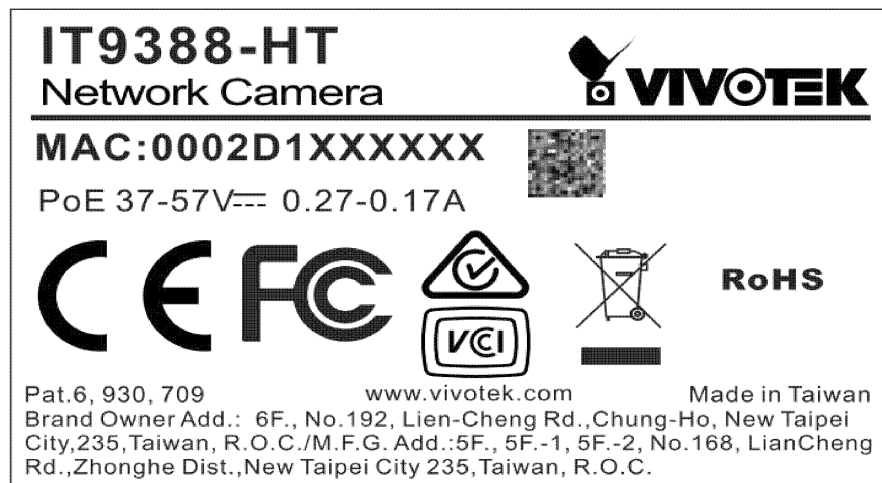
N192013770

Approved by (name, function, signature).. :		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment): - National Differences (2 pages) - Photos (2 pages)	
Summary of testing:	
Tests performed (name of test and test clause): 4.2.5, 4.2.1, PART 22 10.2 – IMPACT TEST PART 22, 9.1, ANNEX B – WATER SPRAY TEST PART 22, 8.5, ANNEX D.2 – TENSILE STRENGTH AND ELONGATION Additional tests of IEC 62368-1 for adhesive: 4.4.4.2, Annex T.5 – STEADY FORCE TEST, 250 N- IEC 62368-1:2014 (SECOND EDITION) 4.4.4.4, Annex T.6 – IMPACT TEST_ IEC 62368-1:2014 (SECOND EDITION) ANNEX P.4.2 – METALLIZED COATINGS AND ADHESIVES SECURING PARTS_ IEC 62368-1:2014 (SECOND EDITION)	Testing location: UNDERWRITERS LABORATORIES TAIWAN CO LTD/ 260 Da-Yeh Road, TW-112 Peitou, Taipei City, Chinese Taipei
Summary of compliance with National Differences (List of countries addressed): Countries outside the CB Scheme membership may also accept this report. List of countries addressed: CA, US, EU. <input checked="" type="checkbox"/> The product fulfils the requirements of _ EN 60950-22:2017_	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Test item particulars :	
Temperature range : -20 to 55 degree C	
Overvoltage category : <input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV	
IP protection class : N/A	
Possible test case verdicts:	
- test case does not apply to the test object: N/A	
- test object does meet the requirement.....: P (Pass)	
- test object does not meet the requirement: F (Fail)	
Testing :	
Date of receipt of test item..... : 2019-07-23	
Date (s) of performance of tests : 2019-07-25 to 2019-08-13	
General remarks:	
<p>"(See Enclosure #)" refers to additional information appended to the report.</p> <p>"(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p> <p>This Test Report Form is intended for the investigation of safety of equipment to be installed outdoors in accordance with IEC 60950-22. It can only be used together with the IEC 60950-1 requirements.</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60950-22:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : VIVOTEK INC. 5F, No.168, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C	
General product information:	
Report Summary:	
All applicable tests according to the referenced standard(s) have been carried out.	
Product Description:	
This product is a Camera and intended for used in indoor or outdoor.	
Model Difference:	
N/A	

IEC 60950-22			
Clause	Requirement + Test	Result - Remark	Verdict
4	CONDITIONS FOR OUTDOOR EQUIPMENT		Pass
4.1	Ambient air temperature		Pass
	Suitability for use at any temperature in the range specified by the manufacturer. If not specified by the manufacturer, the range is taken as -33°C to +40°C	-20 to 55 °C	Pass
4.2	Mains supply		N/A
4.2.1	General	Class III equipment.	N/A
	Suitability for the highest mains transient voltage expected in the installation location		N/A
	Components within outdoor equipment that reduce mains transient voltage or the prospective fault current comply with IEC 61643-series		N/A
4.2.2	Mains transient voltage on AC mains supply		N/A
4.2.3	Mains transient voltage on DC mains supply		N/A
4.3	Rise of earth potential		
	Special earthing conditions	Class III equipment.	N/A
	Reference to installation instructions		N/A
5	MARKING AND INSTRUCTIONS		Pass
	Special installation features for protection from conditions in the outdoor location (see 1.7.2 of IEC 60950-1:2005)		Pass
	outdoor enclosure classification according to IEC 60529 (IP Code)		N/A
6	PROTECTION FROM ELECTRICAL SHOCK IN AN OUTDOOR LOCATION		Pass
6.1	Voltage limits of user-accessible parts in outdoor locations (2.2.2 and 2.2.3 of IEC 60950-1:2005/AMD2:2013 with voltage limits of IEC60950-22)		Pass
	Voltages under normal conditions (V)	Accessible parts are less than 21.2 Vp or 30Vdc and are classified as SELV.	Pass
	Voltages under fault conditions (V)	Single fault did not cause excessive voltage in accessible SELV circuits. Limits of 15 V a.c., 21,2 V peak, or 30 V d.c. for longer than 0,2 s under single fault conditions.	Pass
6.2	Limited current circuits in outdoor locations		P
	The requirements of 2.4 of IEC60950-1:2005/AMD1:2009/AMD2:2013 apply without change	(see separate test report IEC 60950-1)	P
6.3	Protection for socket-outlet in outdoor locations		N/A

IEC 60950-22			
Clause	Requirement + Test	Result - Remark	Verdict
	Use of residual current protective device (RCD) with rated residual operating current not exceeding 30 mA in the mains supply to socket-outlets intended for general use and with a rated current not exceeding 20 A.	Not directly connected to mains.	N/A
	RCD is an integral part of the equipment		N/A
	RCD is part of the building installation (installation instructions)		N/A
7	WIRING TERMINALS FOR CONNECTION OF EXTERNAL CONDUCTORS		N/A
	The mains supply terminations powered via the normal building installation wiring are as specified in 3.3 of IEC 60950-1:2005/AMD2:2013	Not directly connected to mains.	N/A
	The mains supply terminations powered directly from the mains distribution system are as specified in IEC 60364		N/A
8	CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES		Pass
8.1	General		Pass
	Protection against corrosion by use of suitable materials or by application of a protective coating	Enclosure was made of Metal.	Pass
	Parts serving as a functional part of an outdoor enclosure (e.g., dials, connectors, etc.) comply with the same environmental protection requirements as for the outdoor enclosure	All relevant parts comply with applicable requirements	Pass
	Use of outdoor enclosure to carry current during normal operation	Outdoor enclosure does not carry current during normal operation.	Pass
	Connection of a conductive part of an outdoor enclosure to protective earth for carrying fault currents (see 2.6 of IEC60950-1:2005/AMD1:2009/AMD2:2013 and 8.3 of this standard)		N/A
8.2	Resistance to ultra-violet radiation		N/A
	Resistance of non-metallic parts of an outdoor enclosure to degradation by ultra-violet (UV) radiation	Enclosure was made of: Metal Lens cover: Glass	N/A
	Parts providing mechanical support:		N/A
	Tensile strength test (ISO 527)		N/A
	Flexural strength test (ISO 178)		N/A
	Parts providing impact resistance:		N/A
	Charpy impact test (ISO 179)		N/A
	Izod impact test (ISO 180)		N/A
	Tensile impact test (ISO 8256)		N/A
	All parts:		N/A

IEC 60950-22			
Clause	Requirement + Test	Result - Remark	Verdict
	Flammability classification (1.2.12 and annex A of IEC 60950-1:2005)		N/A
8.3	Resistance to corrosion		Pass
8.3.1	General	Metallic enclosure was made of aluminum and after evaluated/reviewed the data provided from manufacturer, the construction complied with requirements.	Pass
	Resistance of metallic parts of an outdoor enclosure to the effects of water-borne contaminants		N/A
	Alternate method for 8.3.2-8.3.4 (IEC 61587-1)		N/A
8.3.2	Test apparatus		N/A
	Salt-spray test (IEC 60068-2-11)		N/A
	Test in a water-saturated sulphur dioxide atmosphere (water-saturated sulphur dioxide atmosphere as described in Annex A; chamber as described in ISO 3231)		N/A
8.3.3	Test procedure		N/A
	Alternate test procedure		N/A
8.3.4	Compliance criteria:		
	No rust other than surface corrosion of the protective coating; no cracking or other deterioration that will jeopardize the safety aspects as follows:		N/A
	– continued protection against access to hazardous parts, including after mechanical strength tests; and		N/A
	– continued protection against ingress of dust and water; and		N/A
	– continued provision of earth continuity		N/A
8.4	Bottoms of fire enclosures		N/A
	Comply with 4.6.2 of IEC 60950-1:2005	No bottom opening.	N/A
	Bottom of fire enclosure of outdoor equipment mounted directly and permanently on a non-combustible surface (e.g., concrete or metal)		N/A
8.5	Gaskets		Pass
8.5.1	General	Annex D.2 Mfr: MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C Model: TSE2186U(aq)	Pass
8.5.2	Oil resistance		N/A

IEC 60950-22			
Clause	Requirement + Test	Result - Remark	Verdict
8.5.3	Securing means		Pass
9	PROTECTION OF EQUIPMENT WITHIN AN OUTDOOR ENCLOSURE		Pass
9.1	Protection from moisture		Pass
	Adequate protection from the effect of moisture on the enclosed equipment (see Table 2)	After test, no water has entered to enclosure.	Pass
9.2	Protection from plants and vermin		N/A
	Adequate protection if entry by plants and vermin is a consideration	No openings on the enclosure.	N/A
9.3	Protection from excessive dust		N/A
9.3.1	General		N/A
	Adequate protection against the ingress of the dust through the use of an appropriately rated IP5X or IP6X enclosure, or equivalent		N/A
9.3.2	IP5X equipment		N/A
9.3.3	IP6X equipment		N/A
10	MECHANICAL STRENGTH OF ENCLOSURES		Pass
10.1	General		Pass
	Adequate mechanical strength and protection against access to energized parts and other hazards within the equipment throughout the intended ambient operating range		Pass
10.2	Impact test (4.2.5 of IEC 60950-1)		Pass
	Low temperature conditioning for polymeric enclosures	Metallic enclosure	N/A
	Compliance criteria:	Conduct Impact test for enclosure except glass lens cover before Water spray. (Equipment is installed at least 10 feet above the ground)	Pass
	- after test the level of protection remains in accordance with 9.1 of this standard		Pass
	- after test the requirements of 4.2.1 of IEC 60950-1: 2005/ AMD1:2009/AMD2:2013 are met		Pass
11	OUTDOOR EQUIPMENT CONTAINING VENTED BATTERIES		N/A
11.1	Risk of explosion from lead acid, NiCd and NiMH batteries		N/A
	Adequate ventilation in the compartment housing a valve regulated or vented battery, where gassing is possible during normal usage or over-charging	No such battery was provided.	N/A
	Protection against the risk of ignition of local concentrations of hydrogen and oxygen in a compartment containing both a battery and electrical components		N/A

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IEC 60950-22			
Clause	Requirement + Test	Result - Remark	Verdict
	Construction of the ventilation system to ensure explosive gases venting in case of any potential fault, including distortion of the battery cases due to overheating or thermal runaway		N/A
	Ventilation tubes used for conducting explosive gas from the battery cases to the outside air		N/A
	Adequate ventilation under single-fault failure conditions in case of mechanical or forced-air ventilation		N/A
	Enclosures with mechanical or electromechanical dampers		N/A
11.2	Ventilation preventing an explosive gas concentration		N/A
	Comply with M.7 of IEC 62368-1:2014		N/A
11.3	Ventilation test		N/A
	Measured hydrogen gas concentration (% by volume)		—
	Max. allowed gas concentration for the mixture location in proximity to an ignition source (% by volume) : $\leq 1\%$ by volume		—
	Max. allowed gas concentration for the mixture location not in proximity to an ignition source (% by volume) : $\leq 2\%$ by volume		—
	Overcharging of rechargeable battery (see 4.3.8 of IEC 60950-1:2005/AMD2:2013)	(see separate test report IEC 60950-1)	N/A
A	ANNEX A, WATER-SATURATED SULPHUR DIOXIDE ATMOSPHERE (see 8.3.2 and 8.3.3)		N/A
	Test chamber		N/A
	Test method		N/A
B	ANNEX B, WATER SPRAY TEST (see 9.1)		Pass
	Test apparatus		Pass
	Test method		Pass
C	ANNEX C, ULTRAVIOLET LIGHT CONDITIONING TEST (see 8.2)		N/A
C.1	Test apparatus		N/A
C.2	Mounting of test samples		N/A
C.3	Carbon-arc light-exposure apparatus		N/A
C.4	Xenon-arc light-exposure apparatus		N/A
D	ANNEX D, GASKET TESTS (see 8.5)		Pass
D.1	Gasket tests		Pass

IEC 60950-22			
Clause	Requirement + Test	Result - Remark	Verdict
D.2	Tensile strength and elongation tests (for gaskets that can stretch)	Test conducted on below materials: Mfr: MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C Model: TSE2186U(aq)	Pass
	Tensile strength (%)	not less than 75%	Pass
	Elongation (%)	not less than 60%	Pass
	Visible deterioration, deformation, melting, cracking or hardening of the material.....	No deterioration.	Pass
D.3	Compression test (for gaskets with closed cell construction)	Not closed cell construction.	N/A
	Initial thickness of the specimen (mm)		N/A
	Thickness of the specimen after test a) (mm), compression set after test a) (%).....		N/A
	Thickness of the specimen after test b) (mm), compression set after test b) (%).....		N/A
	Thickness of the specimen after test c) (mm), compression set after test c) (%).....		N/A
	Visible cracks or deterioration		N/A
D.4	Oil immersion test		N/A
	Swelling (%)		N/A
	Shrinking (%)		N/A
E	ANNEX E, RATIONALE		—
E.1	General		—
E.2	Electric shock		—
E.3	Energy related hazards		—
E.4	Fire		—
E.5	Mechanical hazards		—
E.6	Heat related hazards		—
E.7	Radiation		—
E.8	Chemical hazards		—
E.9	Biological hazards		—
E.10	Explosion hazards		—

IEC 60950-22			
Clause	Requirement + Test	Result - Remark	Verdict

TABLE: Critical components information						Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
(see separate test report IEC 60950-1)						
Supplementary information:						
¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.						

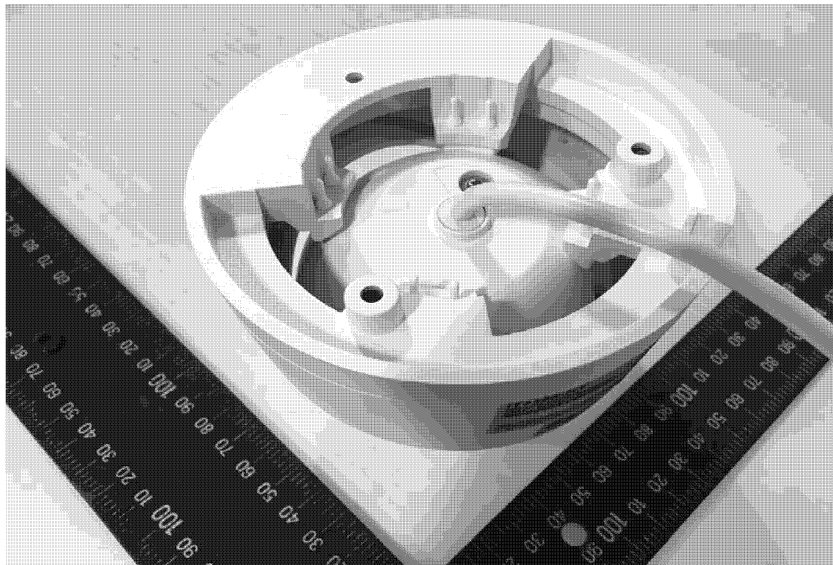
List of test equipment used:

A completed list of used test equipment shall be provided in the Test Reports when a Manufacturer Testing Laboratory according to CTF stage 1 or CTF stage 2 procedure has been used.

Note: This page may be removed when CTF stage 1 CTF stage 2 are not used. See also clause 4.8 in OD 2020 for more details.

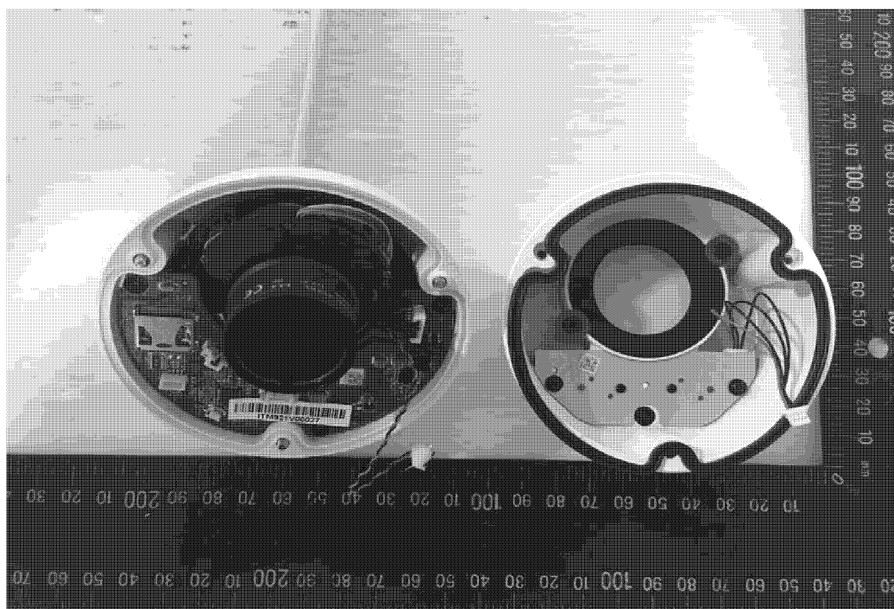
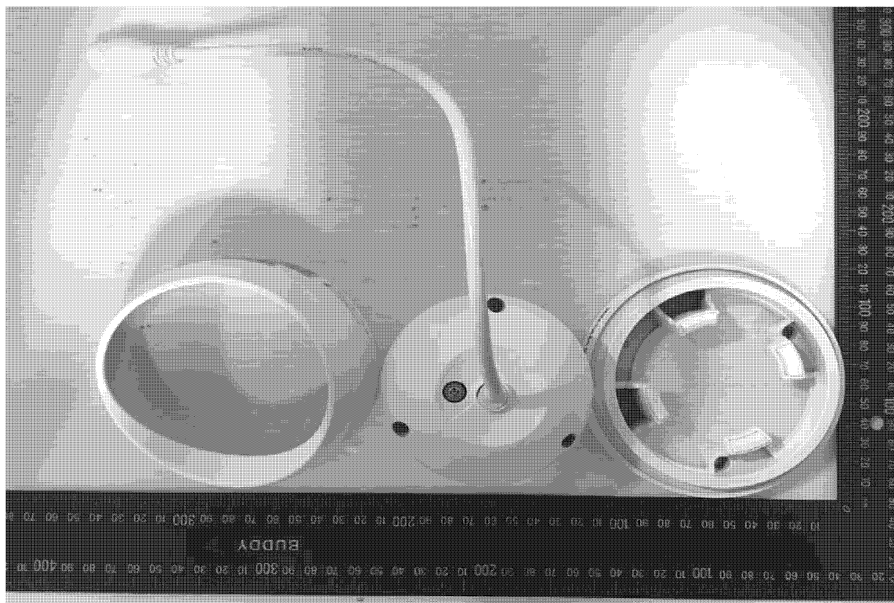
Clause	Measurement / testing	Testing / measuring equipment / material used, (Equipment ID)	Range used	Last Calibration date	Calibration due date

Attachment
Photos



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Attachment



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Attachment

ATTACHMENT

CSA/UL 60950-22:2007 first edition for Canada and USA; - SPECIAL NATIONAL CONDITIONS			
Clause	Requirement + Test	Result - Remark	Verdict
4	Applicable parts of Chapter 8 of the NEC and Rules 54 and 60 of the CEC may be applicable to ITE installed outdoors with connections to communication systems.		P
4.2	Power supply cords are to be suitable outdoor use type as required by Section 400-4 of the NEC and Rule 4-012 of the CEC, i.e., marked "water resistant," "outdoor," "W" or "W-A."		N/A
4.2	Surge Arrestors and Transient Voltage Surge Suppressors installed external to the ITE are required to comply with the appropriate NEC and CEC requirements.		N/A
5	Outdoor Enclosures are required to be classified and marked in accordance with UL 50 and CAN/CSA C22.2 No. 94.		N/A
7	Applicable parts of the NEC, NFPA 70; the National Electrical Safety Code, ANSI/IEEE C2; and Canadian Electrical Code, Part I, CSA C22.1; Canadian Electrical Code, Part III, CSA C22.3, are required, as appropriate.		N/A
7	Wiring terminals intended to supply Class 2 outputs are required per Article 725 of the NEC and Rule 16 of the CEC to be marked.		N/A
11	Requires stationary installations of storage batteries external to the ITE to comply with Article 480 of the NEC and Rule 26-540 of the CEC.		N/A
OTHER DIFFERENCES			
1.2	For protection of ITE against direct lightning strikes, reference is made to NFPA 780 and CAN/CSA-B72-M87 (R2003) for additional requirements.		P
2	All references to IEC 60950-1 in this standard are replaced by the equivalent UL 60950-1 and CSA 60950-1 Standards. All relevant Standards referenced in the Part 1 Standard (Annex P, including P.1 and P.2) also apply to this Part 22 Standard and are not listed below. All references to clauses and subclauses in IEC 60950-1 are to the second edition. If the relevant clause or subclause has been renumbered in IEC 60950-1, second edition, the first edition reference is identified in parentheses directly after the second edition reference.		P

Attachment

EN 60950-22:2006/A11:2008 – COMMON MODIFICATIONS			
Contents	Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions		N/A
General	Delete all the “country” notes in the reference document according to the following list: 4.1 Note 3 4.3 Note 8.5 Note 10.2 Note D.3 Note D.4 Note		N/A
ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
ZB	SPECIAL NATIONAL CONDITIONS		N/A
4.1	In Finland, Norway and Sweden , the temperature in winter may be extremely low. For OUTDOOR EQUIPMENT this will demand special design so that the equipment can withstand transport, erection and operation/service at temperatures down to -50°C	This National Condition has been removed in EN 60950-22:2017.	N/A
10.2	In Finland, Norway and Sweden there are additional requirements for the minimum ambient temperature. See 4.1 of this annex.	This National Condition has been removed in EN 60950-22:2017.	N/A
D.3	In Finland, Norway and Sweden there are additional requirements for the minimum ambient temperature. See 4.1 of this annex.	This National Condition has been removed in EN 60950-22:2017.	N/A

Test Record No. 2

The manufacturer submitted representative production samples of IR Ball, MFZ 5MP 2.8~12mm, Models IT9380T-HNWL and HC30WE5R2 employing the following:

- (1) Add new model name: IT9388-HT
- (2) Add new product name: Network Camera for new model use
- (3) Add rating for new model use
- (4) Add 60950-22 accordance for new model

Testing was not considered necessary based upon previous evaluation under the CB Scheme. The CB Scheme Test Certificate DK-88591-UL dated 2019-10-16 and Report Ref. CB1291907080B dated 2019-10-14 were prepared by UL International Demko A/S.

The Construction Review Datasheets were not considered necessary, since the construction review had been completed during the CB certification. Also, sample was reviewed at the client side during the investigation of witness trip.

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
--	--

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.

Type	Supplement Id	Description
Attachment	2-01	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 2nd Edition, issued Date December, 2014, UL 62368-1 Audio/video, information and communication technology equipment - Part 1: Safety requirements, 2nd edition date December 1st, 2014. Any Information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Test Report by:
Nate Hsu
Associate Project Engineer

Reviewed by:
Chris Kao
Senior Project Engineer

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc