

235

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晶睿通訊股份有限公司

JOANNE CHANG



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

Date: 2019/10/16  
Subscriber: 100504413  
PartySite: 125336  
File No: E324690  
Project No: 4789100558  
PD No: 19056449  
Type: R  
PO Number: C1291907078

Subject: **Procedure And/Or Report Material**

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	2019/10/14
2019/03/29	1	4	Cert of Compliance	
2019/03/29	1	4	Description Page(s)	
2019/03/29	1	4	New Figure(s) 15,16,17,18,19,20	2019/10/14
2019/03/29	1	4	New Illustration(s) 13,14,15,16,17,18,19,20,21,22	2019/10/14
2019/03/29	1	4	New Test Record 2	2019/10/14

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.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://ul.com/aboutul/locations>.

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TPI File

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Model Number	Section	Requirements Evaluated to (US and/or CN)
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IT9380T-HNWL and HC30WE5R2	3	US and CN
HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL, <b>IB9360-H, IB9380-H</b>	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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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20191016-E324690  
**Report Reference** E324690-20190329  
**Issue Date** 2019-OCTOBER-16

**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

1) IR Bullet, 2MP 3.6mm; 2) IR Bullet, 5MP 3.6mm; 3)  
Network Camera

1) HC30WB2R1, IB9360-HNWL; 2) HC30WB5R1, IB9380-  
HNWL; 3) IB9360-H,IB9380-H

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

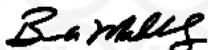
**Standard(s) for Safety:** UL 62368-1/ CAN/CSA-C22.2 No.62368-1 - Audio/video,  
information and communication technology equipment -  
Part 1: Safety requirements

**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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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



File E324690  
Project 4788906519

March 29, 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**

<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
<b>Product:</b>	1) IR Bullet, 2MP 3.6mm; 2) IR Bullet, 5MP 3.6mm; <b>3) Network Camera</b>
<b>Model:</b>	1) HC30WB2R1, IB9360-HNWL; 2) HC30WB5R1, IB9380-HNWL; <b>3) IB9360-H, IB9380-H</b>
<b>Rating:</b>	I/P: 1) DC 12 V, 0.48 A (Supplied by AC adaptor) 2) DC 48 V, 6.49 W Max. (Supplied by PoE adaptor or PoE device) <b>3) PoE 37-57 V, 0.17-0.11 A</b>
<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: **Terence She**

Reviewed by: **Chris Kao**

**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 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 **HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL** are identical except for model designation, product name and sensor type.

**Models IB9360-H, IB9380-H are similar to Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL except for product name, input rating, enclosure slightly different for outdoor use, sensor type and model designation.**

**Models IB9360-H, IB9380-H are similar except for sensor type and model designation.**

Model	HC30WB2R1, IB9360-HNWL	HC30WB5R1, IB9380-HNWL	IB9360-H	IB9380-H
Product name	IR Bullet, 2MP 3.6mm	IR Bullet, 5MP 3.6mm	<b>Network Camera</b>	<b>Network Camera</b>
Sensor type	2M	5M	<b>2M</b>	<b>5M</b>

**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 .....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IT testing, phase-phase voltage (V) .....	<input type="checkbox"/> _____ <input checked="" type="checkbox"/> N/A
Altitude during operation (m) .....	<input checked="" type="checkbox"/> Up to 2,000 <input type="checkbox"/> Up to ____ m
Altitude of test laboratory (m) .....	<input checked="" type="checkbox"/> Less than 2,000 <input type="checkbox"/> Approximately _____
Mass of equipment (kg) .....	Approx. 0.53 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 for **Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL**; 55°C for **Models IB9360-H, IB9380-H**.
- The product is intended for use on the following power systems: No direct connection
- Considered current rating of protective device as part of the building installation (A) : N/A
- Mains supply tolerance (%) or absolute mains supply values : No direct connection
- 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, 0.48A min.; or PoE 48Vdc, 6.49W min. for **Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL**.
- **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 PoE 37-57Vdc, 0.17-0.11A min. for Models IB9360-H, IB9380-H.**
- The product is only to be connected to PoE network without routing to outside plant.
- **Models IB9360-H, IB9380-H were investigated UL/CSA/IEC 60950-22 2<sup>nd</sup> edition - Equipment to be Installed Outdoors.**
- **The outdoor equipment/enclosure for Models IB9360-H, IB9380-H was evaluated for use in an ambient range of: -30°C to 55°C.**

**Additional Information**

N/A

**Additional Standard**

N/A

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.				
<b>POE instruction</b>		<b>The product is only to be connected to PoE network without routing to outside plant or equivalent.</b>				
<b>Special Instructions to UL Representative</b> (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.  *(2) For <b>DC power source</b> without listing manufacturer and model (Various/Interchangeable) in critical component table, the Field Representative should verify the Tma (maximum ambient temperature) is minimum 60 <b>degree C (for Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL), 55 degree C (for Models IB9360-H, IB9380-H)</b> 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 <b>UL 62368-1, 2<sup>nd</sup> Edition, dated 2014-12-01</b> ) (provided from customer).  (3) Please verify the Manufacturer has a method to manage distribution of all products with Canadian certification mark not intended include the dual markings						
<b>Production-Line Testing Requirements</b>						
<b><u>Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.</u></b>						
Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
--	--	--	--	--	--	--
<b><u>Earthing Continuity Test Exemptions - This test is not required for the following models:</u></b>						
All models						
<b><u>Electric Strength Test Exemptions - This test is not required for the following models:</u></b>						
All models						
<b><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></b>						
--						
<b><u>Sample and Test Specifics for Follow-Up Tests at UL</u></b>						
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. DC power source <b>(For model HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)</b> (Optional)	Interchangeable	Interchangeable	O/P: 48 Vdc, 6.49 W minimum or 12 Vdc, 0.48 A minimum. Tma = 60 degree C. Marked with "LPS" or "Limited Power Source" or complied with "Limited Power Source" or PS2 checked by inspection.	NWGG, QGGQ, AZOT, QQJQ	UL	
02. Enclosure <b>(For model HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)</b>	--	--	--	--	--	
*02-1. Glass lens cover	--	--	Glass 1.1 mm thick minimum. See enclosure diagram Illustration-1 for details.	--	--	
02-2. Front plastic IRLED cover	Interchangeable	Interchangeable	HB minimum. 0.75 mm thick minimum. See enclosure diagram Illustration-2 for details.	QMFZ2/8	UL	
*02-3. Front and bottom metal enclosure	--	--	Aluminum alloy, 2.0 mm thick minimum. See enclosure diagram Illustration-3 and Illustration-4 for details.	--	--	
*02-4. SD <b>card</b> plastic cover	Interchangeable	Interchangeable	HB minimum. 1.5 mm thick minimum. See enclosure diagram Illustration-5 for details.	QMFZ2/8	UL	
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	PR35F0B	850nm, 205 mW/sr for each LED. Comply IEC 62471	--	--	

			Exempt Group			
05. Choke(T1) (On the I/O board)	Interchangeable	Interchangeable	105 degree C minimum. See enclosure diagram Illustration-11 for details.	--	--	
*06. Mounting base ( <b>For model HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )	--	--	Aluminum alloy. See enclosure diagram Illustration-10 for details.	--	--	
07. Internal plastic part materials (Optional)	Interchangeable	Interchangeable	HB or HBF minimum	QMFZ2	UL	
*07a. Internal Plastic Part Materials (Optional) (Alternate)	--	--	Flammability level is ignored, when small parts (1750mm <sup>3</sup> maximum)	--	--	
<b>07b. Internal Plastic Part Materials (Optional) (Alternate)</b>	<b>Interchangeable</b>	<b>Interchangeable</b>	<b>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</b>	--	--	
<b>07c. Internal Plastic Part Materials (Optional) (Alternate)</b>	<b>Interchangeable</b>	<b>Interchangeable</b>	<b>Flammability level is ignored, when small parts (1750mm<sup>3</sup> maximum) are mounted on V-1 class material</b>	--	--	
<b>07d. Internal Plastic Part Materials (Optional) (Alternate)</b>	<b>Interchangeable</b>	<b>Interchangeable</b>	<b>Flammability level is ignored, when small parts (4g maximum or 1750mm<sup>3</sup> 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.</b>	--	--	

08. PWB	Interchangeable	Interchangeable	V-1 minimum, 105 degree C minimum.	ZPMV2	UL	
09. Label <b>(For model HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)</b>	Interchangeable	Interchangeable	75 degree C if maximum surface temperature not specified.	PGDQ2, PGJI2	UL	
09a. Permanency of Marking (Alternate)	<b>Interchangeable</b>	<b>Interchangeable</b>	Engraved laser marking.	--	--	
09b. Permanency of Marking (Alternate)	<b>Interchangeable</b>	<b>Interchangeable</b>	Permanently ink-stamped, silk-screened, molded in, or in self-adhesive labels.	--	--	
10. Interconnecting Cable (except for PoE cable) (Optional)	Interchangeable	Interchangeable	Maximum length 3.05 m. FEP, PTFE, PVC, TFE, neoprene, polyimide or rated VW-1 or FT-1. Minimum 75 degree C, minimum 30 V.	AVLV2, ZPFW2, DVPJ	UL	
<b>10a.</b> Interconnecting Cable (Optional)	<b>Interchangeable</b>	<b>Interchangeable</b>	Max. length 3.05 m. FEP, PTFE, PVC, TFE, neoprene, polyimide or rated VW-1 or FT-1. Minimum 75 degree C, minimum 60 V.	AVLV2, ZPFW2, DVPJ	UL	
<b>*10b.</b> Interconnecting Cable (Optional) (Alternate)	Interchangeable	Interchangeable	Type CMP or CMR or CMG or CM or CMX or CMUC or CMH, 3.05 m long maximum.	DUZX, ZPFW2, DUXR/2	UL	
11. Wiring, internal ES1 circuits <b>(For model HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)</b> (Optional)	Interchangeable	Interchangeable	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; minimum 30 V, minimum 75 degree C.	AVLV2	UL	
12. Connectors and Receptacles <b>(For model HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)</b> (ES1 circuit)	Interchangeable	Interchangeable	Minimum 30 V	ECBT2, DUXR2	UL	

(except for Lan port)						
12a. Connectors and Receptacles (ES1 circuit)	Interchangeable	Interchangeable	Minimum 60 V	ECBT2, DUXR2	UL	
*12b. Connectors and Receptacles (ES1 circuit) (Alternate)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of (QMFZ2), and V-2 minimum.	QMFZ2	UL	
Addition for Models IB9360-H, IB9380-H (similar to the above except for the following items)	--	--	--	--	--	
13. DC power source (Optional)	Interchangeable	Interchangeable	O/P: 37-57 Vdc, 0.17-0.11 A, 55 degree C minimum. Comply with PS2 or LPS.	NWGQ/7, QQGQ/7, AZOT/7, QQJQ/7	UL	
14. Enclosure	--	--	--	--	--	
14-1. Front glass lens cover	Interchangeable	Interchangeable	Glass 1.1 mm thick minimum. See enclosure Illustration-13 for details.	--	--	
14-2. Front plastic IRLED cover	TEIJIN	L-1225U(#)(f1), L-1225V(#)(f1), L-1225Z(#1)(f1)	HB minimum. 2.0 mm thick minimum. 115 degree C minimum. See enclosure Illustration-14 for details.	QMFZ2/8	UL	
14-3. Front metal enclosure	Interchangeable	Interchangeable	Aluminum alloy, 2.0 mm thick minimum. See enclosure Illustration-15 for details.	--	--	
14-4. Rear metal enclosure	Interchangeable	Interchangeable	Aluminum alloy, 2.0 mm thick minimum. See enclosure Illustration-16 for details.	--	--	
14-5. SD card plastic cover	SABIC	943A(f1)	HB minimum. 2.0 mm thick minimum. 120 degree C minimum. See enclosure Illustration-17 for details.	QMFZ2/8	UL	
15. Adhesive (Between IR LED cover and front metal enclosure)	GUANGZHOU BAIYUN CHEMICAL INDUSTRY CO LTD	SMG533	HB minimum.	QMFZ2/8	UL	
16. Adhesive (Between lens cover and metal ring)	Taiwan Cemedine Co., Ltd	Super-X NO.8008	--	--	--	

17. Adhesive (Between rear enclosure and cable)	ITW Engineered Polymers	116FR	HB minimum.	QMFZ2/8	UL	
18. Gasket (O-ring) (Between front metal enclosure and rear metal enclosure)	Momentive Performance Materials Japan L L C	TSE2186U(aq)	HB minimum, Silicone rubber. See enclosure Illustration-18 for details.	QMFZ2/8	UL	
19. Gasket (O-ring) (On the SD cover)	Momentive Performance Materials Japan L L C	TSE2186U(aq)	HB minimum, Silicone rubber. See enclosure Illustration-19 for details.	QMFZ2/8	UL	
20. Label	Interchangeable	Interchangeable	70 degree C if maximum surface temperature not specified.	PGDQ2, PGJI2	UL	
21. 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	
21a. Interconnecting Cable (if routed outdoor side) (Optional)	Interchangeable	Interchangeable	CL3P, CL3R, CL3X, marked "SUNLIGHT RESISTANT", "SUN.RES.", or "SR." and "water resistant" or "W"	QPTZ	UL	
21b. Interconnecting Cable (except for PoE 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	
22. 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	
23. Connectors and Receptacles (ES1 circuits)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 minimum	QMFZ2	UL	
23a. Connectors and Receptacles (ES1 circuits) (alternate)	Interchangeable	Interchangeable	Minimum 57 V.	ECBT2, RTRT2	UL	
23b. Connectors and Receptacles (ES1 circuits) (alternate)	Interchangeable	Interchangeable	--	DUXR2	UL	

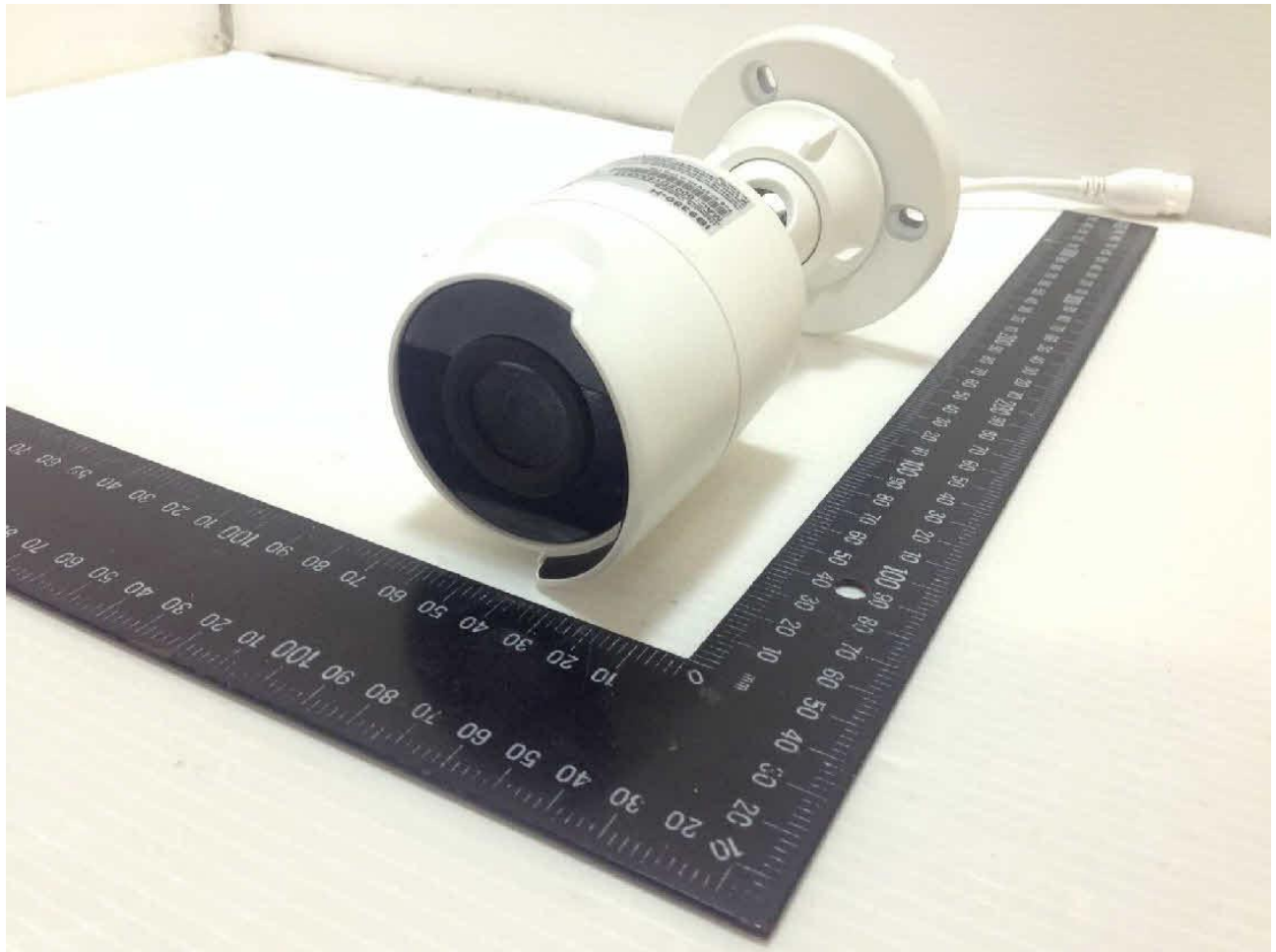
24. Mounting base	Interchangeable	Interchangeable	Aluminum alloy. See enclosure diagram Illustration-20 for details.	--	--	
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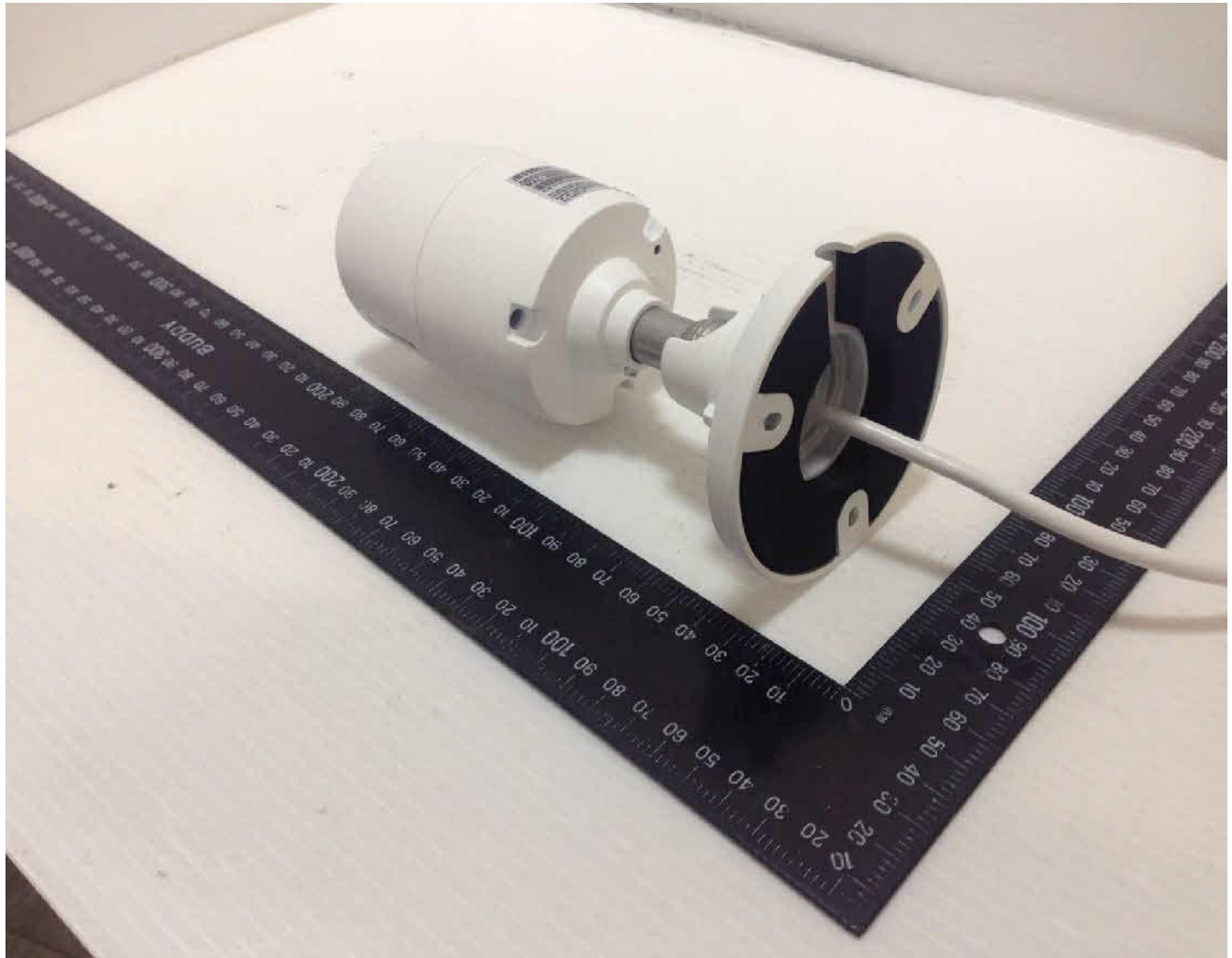
## ENCLOSURES

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	Figure-1	Overall view-1 (Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)
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	<b>Figure-16</b>	<b>Overall view-2 (Models IB9360-H, IB9380-H)</b>
	<b>Figure-17</b>	<b>Internal view-1 (Models IB9360-H, IB9380-H)</b>
	<b>Figure-18</b>	<b>Internal view-2 (Models IB9360-H, IB9380-H)</b>
	<b>Figure-19</b>	<b>Internal view-3 (Models IB9360-H, IB9380-H)</b>
	<b>Figure-20</b>	<b>Internal view-4 (Models IB9360-H, IB9380-H)</b>
Illustrations	Illustration-1	Front glass lens cover drawing (Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)
	Illustration-2	Front plastic IRLED cover drawing (Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)
	Illustration-3	Front metal enclosure drawing (Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL)

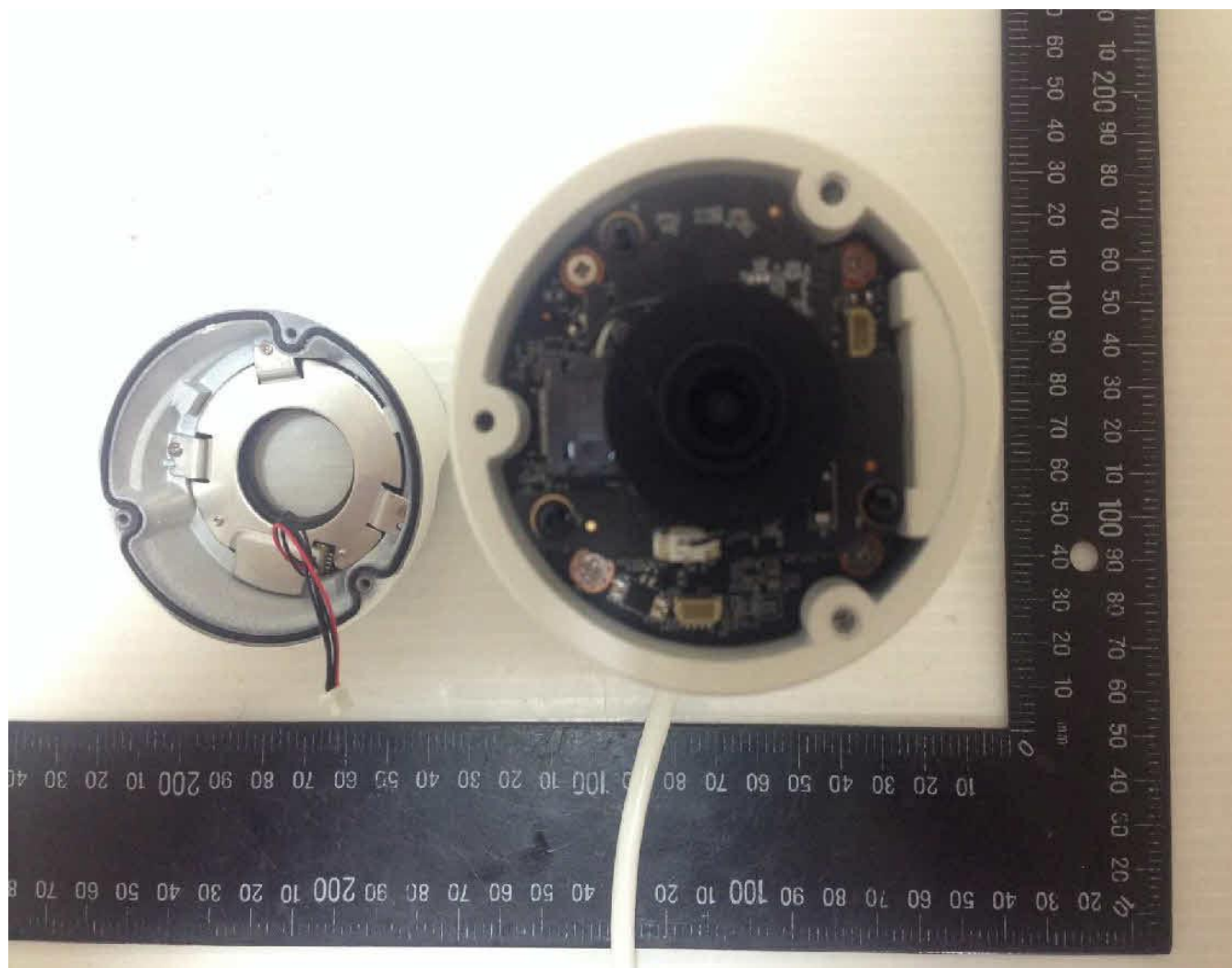
	Illustration-4	Bottom metal enclosure drawing ( <b>Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )
	Illustration-5	Plastic SD card cover drawing ( <b>Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )
	Illustration-6	Metal mounting device-frame-join drawing ( <b>Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )
	Illustration-7	Metal mounting device-foot-frame drawing ( <b>Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )
	Illustration-8	Metal mounting device-frame-core drawing ( <b>Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )
	Illustration-9	Metal mounting device-frame-nut drawing ( <b>Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )
	Illustration-10	Metal mounting device-frame-base drawing ( <b>Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )
	Illustration-11	POE transformer (T1) spec.
	Illustration-12	Instruction/Installation/Safety ( <b>Models HC30WB2R1, IB9360-HNWL, HC30WB5R1, IB9380-HNWL</b> )
	Illustration-13	Front glass lens cover drawing ( <b>Models IB9360-H, IB9380-H</b> )
	Illustration-14	Front plastic IRLED cover drawing ( <b>Models IB9360-H, IB9380-H</b> )
	Illustration-15	Front metal enclosure drawing ( <b>Models IB9360-H, IB9380-H</b> )
	Illustration-16	Bottom metal enclosure drawing ( <b>Models IB9360-H, IB9380-H</b> )
	Illustration-17	Plastic SD card cover drawing ( <b>Models IB9360-H, IB9380-H</b> )
	Illustration-18	Gasket (Between front metal enclosure and rear metal enclosure) ( <b>Models IB9360-H, IB9380-H</b> )
	Illustration-19	Gasket (On the SD cover) ( <b>Models IB9360-H, IB9380-H</b> )
	Illustration-20	Metal mounting device-overall drawing ( <b>Models IB9360-H, IB9380-H</b> )
	Illustration-21	Part 22 TRF
	Illustration-22	Instruction/Installation/Safety ( <b>Models IB9360-H, IB9380-H</b> )



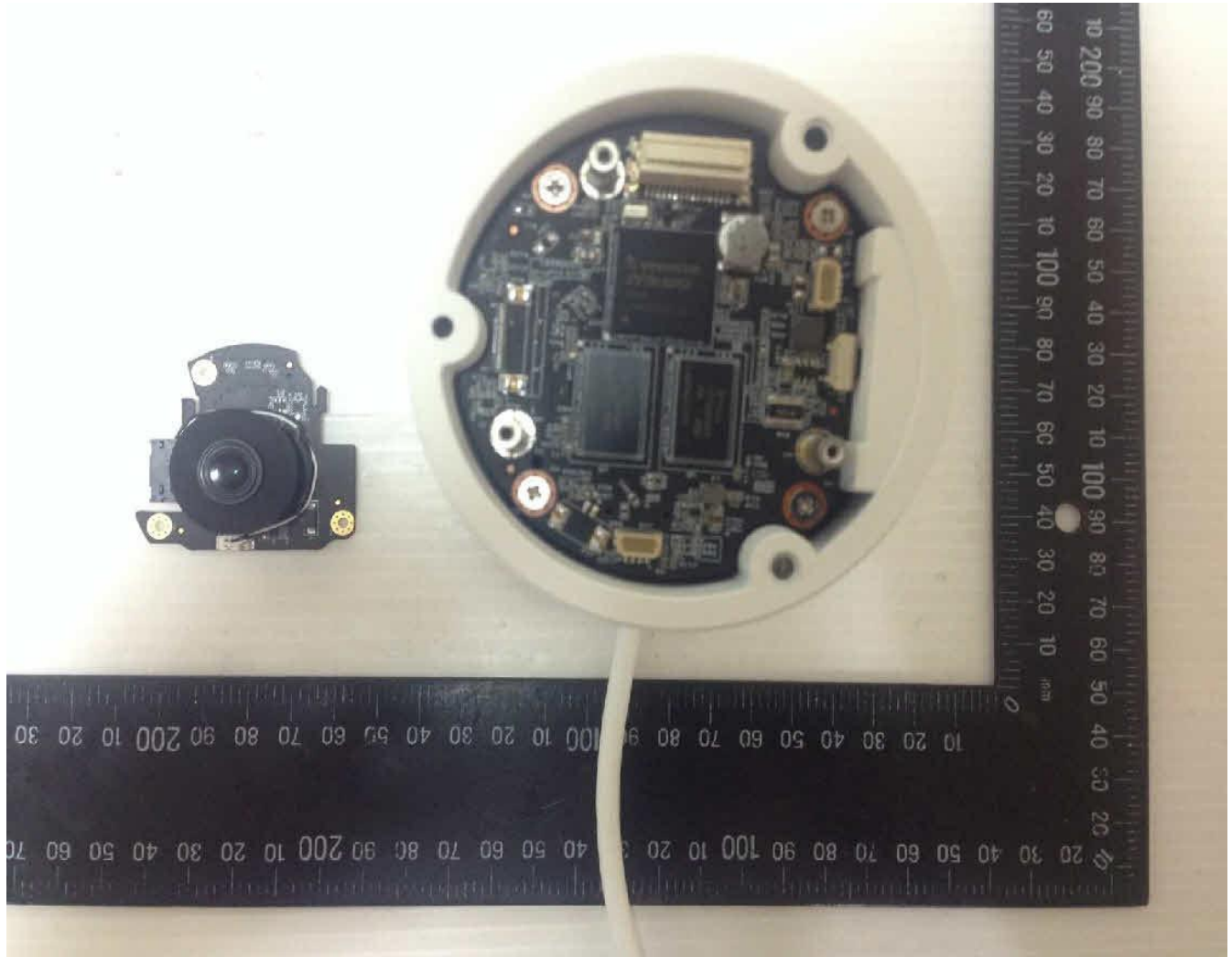
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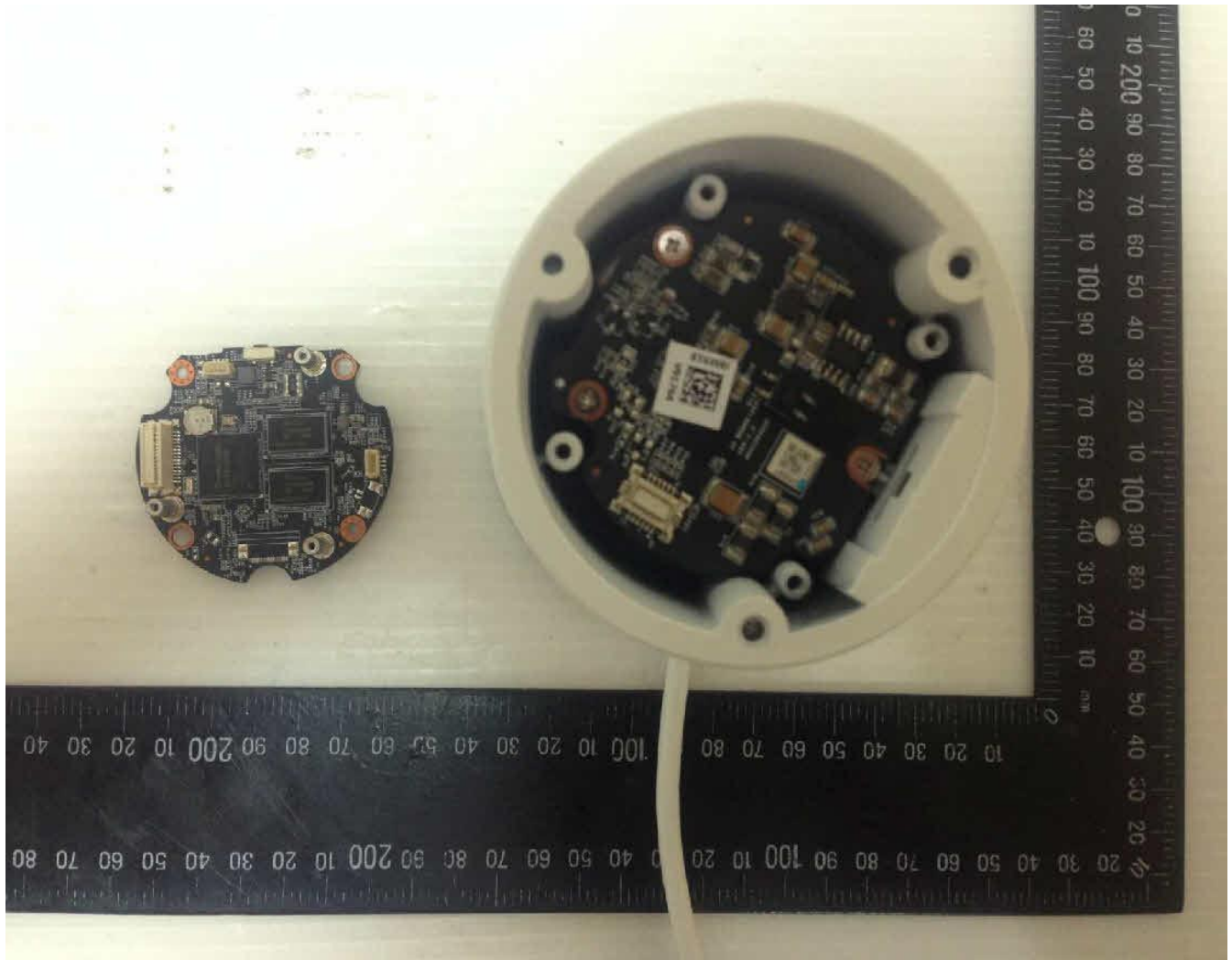
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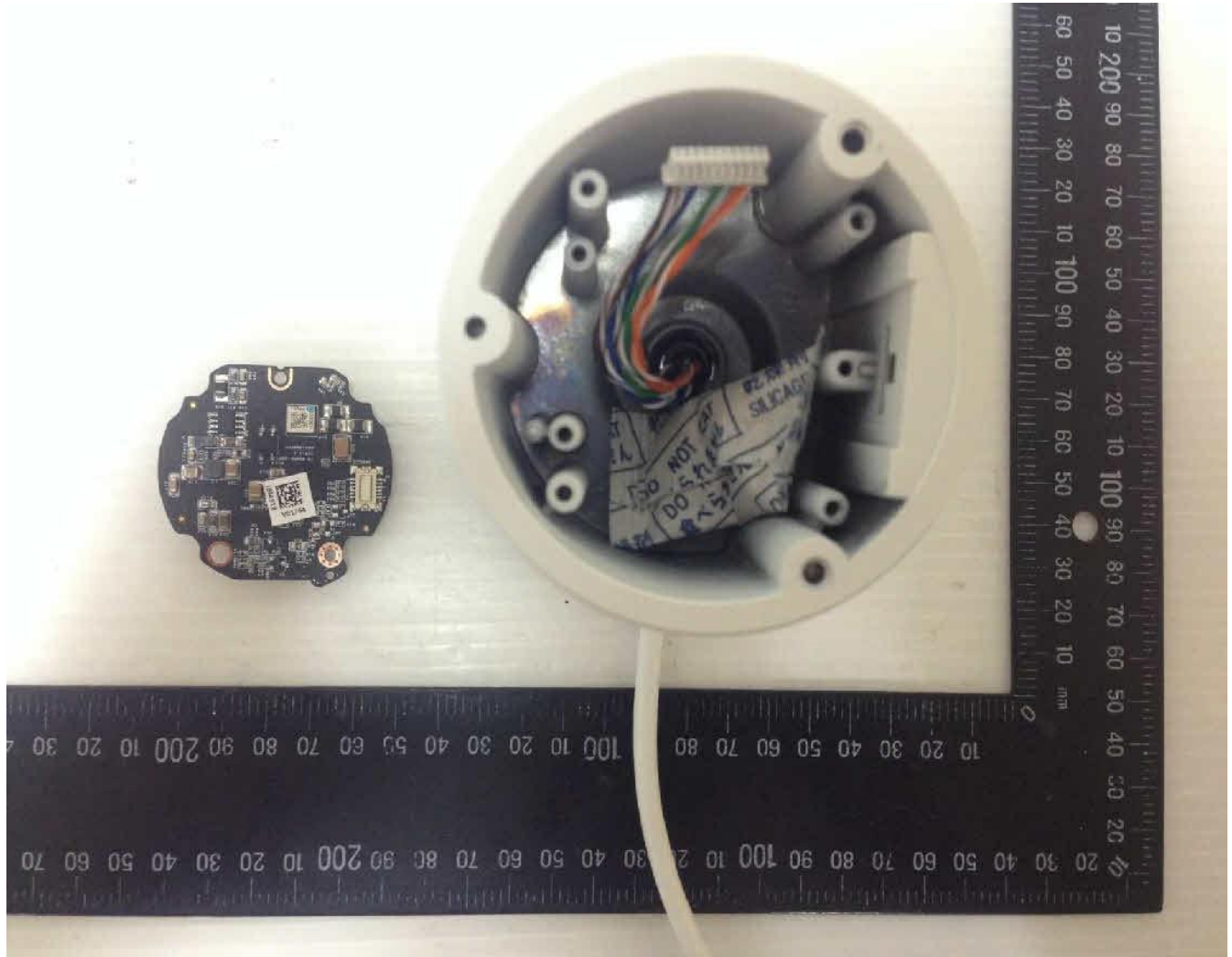


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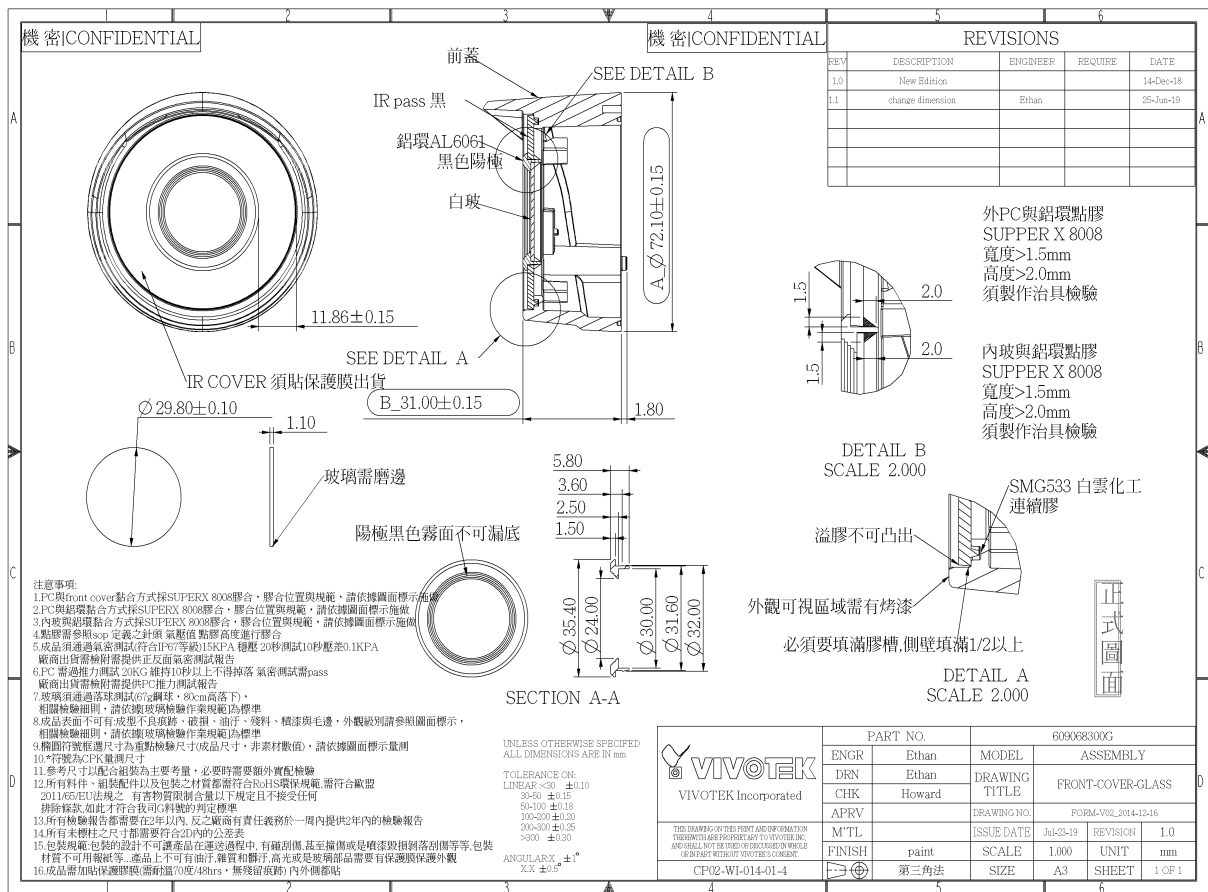
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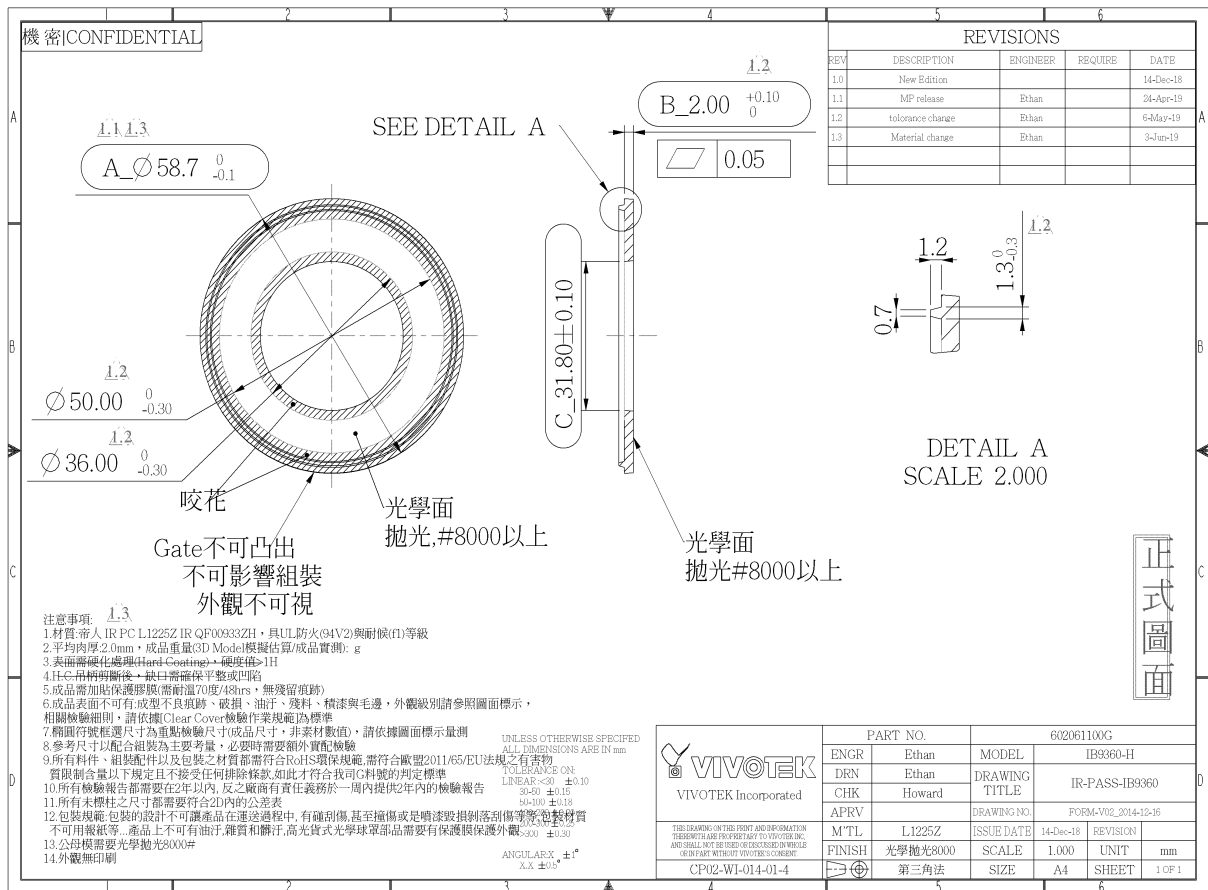


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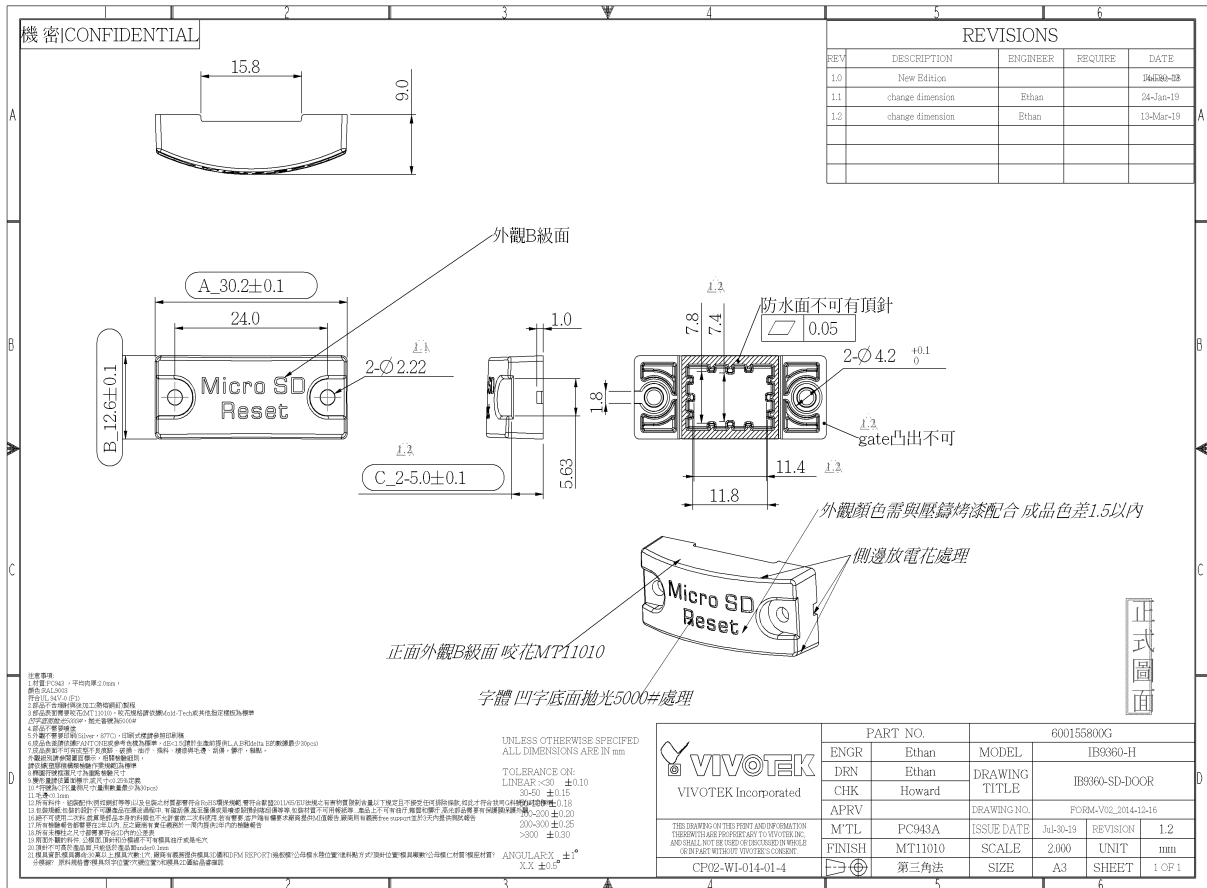
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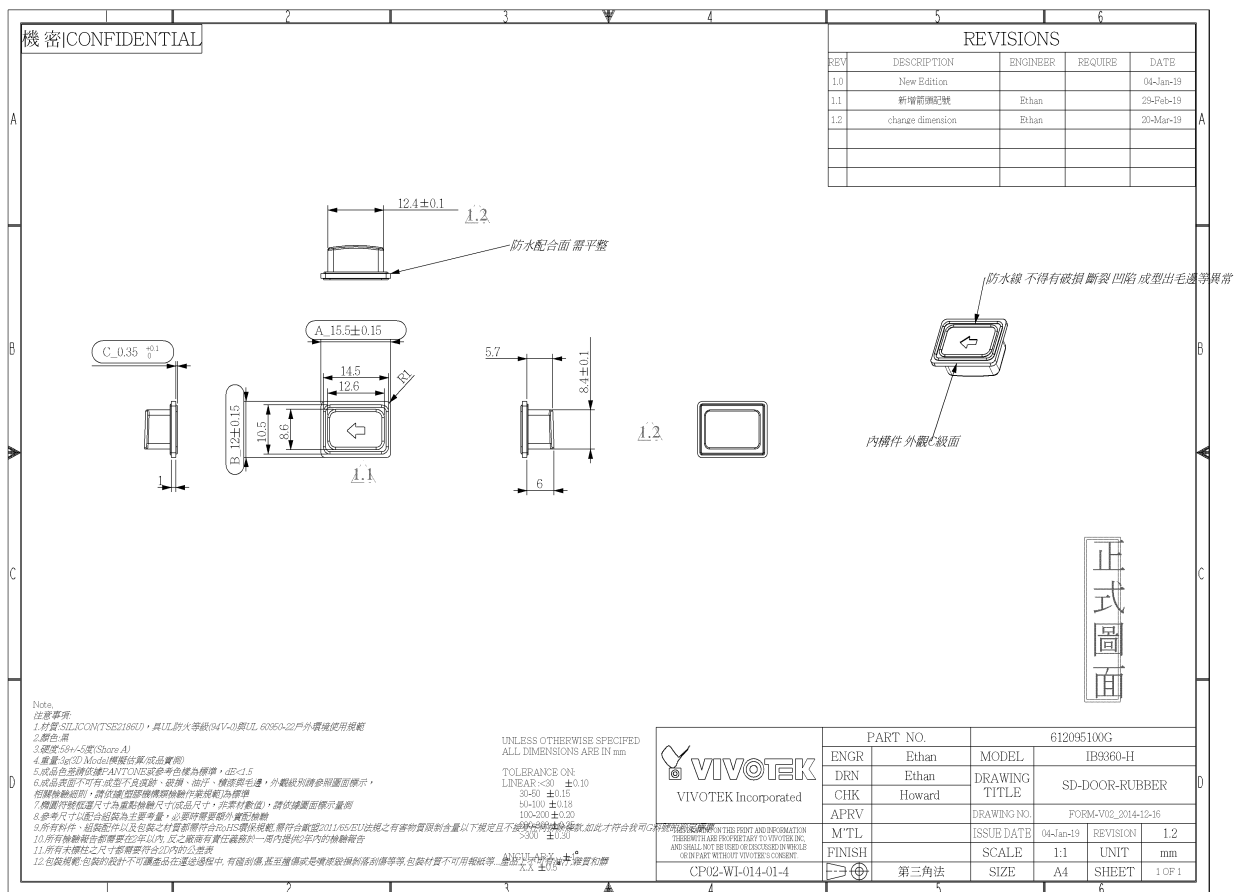
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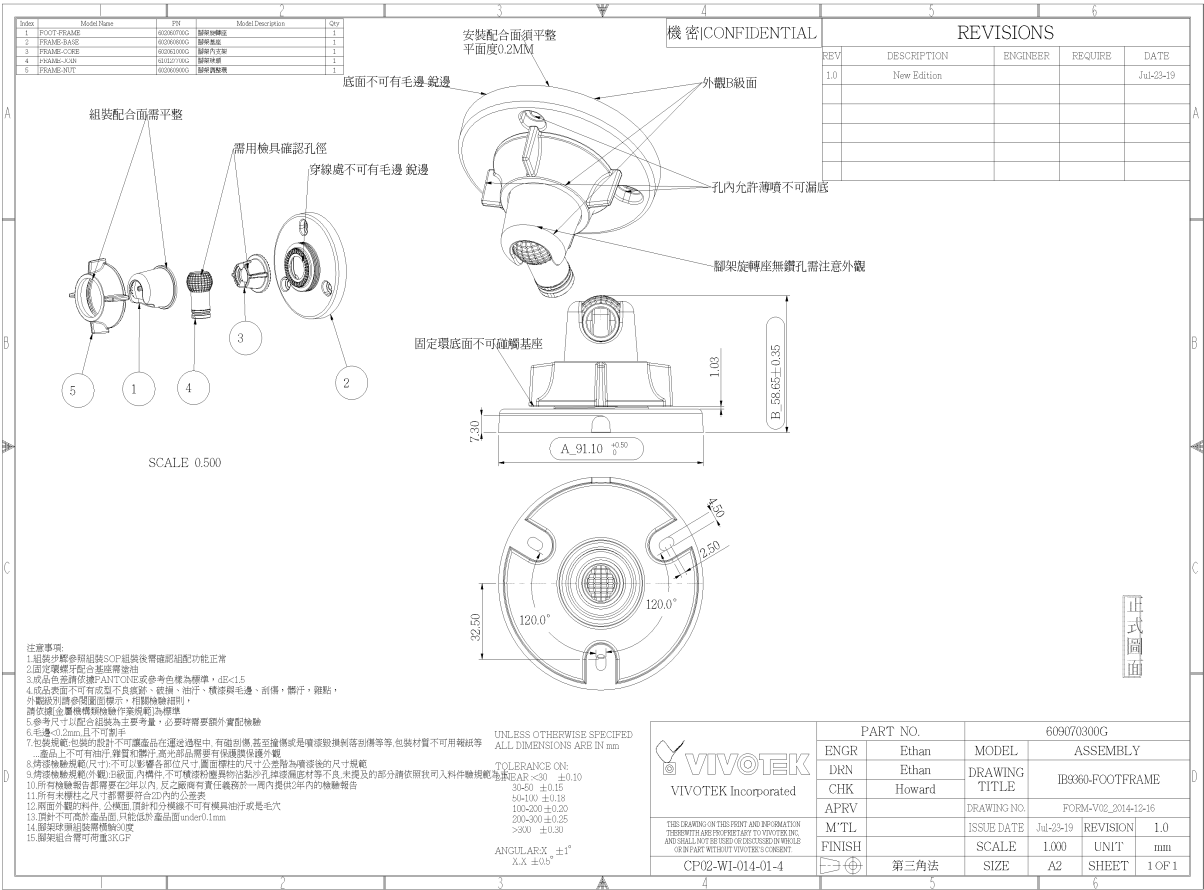


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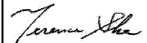
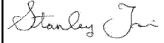


Test Report issued under the responsibility of:



<b>TEST REPORT</b> <b>IEC 60950-22</b> <b>Information technology equipment – Safety –</b> <b>Part 22: Equipment to be installed outdoors</b>	
<b>Report Number.</b> .....	E324690-4789100558.1-1 Original
<b>Date of issue</b> .....	2019-09-03
<b>Total number of pages</b> .....	21
<b>Name of Testing Laboratory preparing the Report</b> .....	UNDERWRITERS LABORATORIES TAIWAN CO LTD 260 Da-Yeh Road, TW-112 Peitou, Taipei City, Chinese Taipei
<b>Applicant's name</b> .....	VIVOTEK INC.
<b>Address</b> .....	6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C.
<b>Test specification:</b>	
<b>Standard</b> .....	IEC 60950-22(ed.2)
<b>Test procedure</b> .....	CB Scheme
<b>Non-standard test method</b> .....	N/A
<b>Test Report Form No.</b> .....	IEC60950_22B
<b>Test Report Form(s) Originator</b> .....	The Standards Institution of Israel
<b>Master TRF</b> .....	Dated 2016-04
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<b>General disclaimer:</b>	
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.	

N192002993

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 .....	IB9360-H, IB9380-H	
Ratings .....	(Optionally provided on marking plate) PoE 37-57 Vdc, 0.17-0.11 A	
<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/> CB Testing Laboratory:	UNDERWRITERS LABORATORIES TAIWAN CO LTD	
Testing location/ address.....	260 Da-Yeh Road,TW-112 Peitou, Taipei City, Chinese Taipei	
<input type="checkbox"/> Associated CB Testing Laboratory:		
Testing location/ address.....		
Tested by (name, function, signature).....	Terence She / Project Handler	
Approved by (name, function, signature)...	Stanley Tsai / Reviewer	
<input type="checkbox"/> Testing procedure: CTF Stage 1:		
Testing location/ address.....		
Tested by (name, function, signature).....		
Approved by (name, function, signature)...		
<input type="checkbox"/> Testing procedure: CTF Stage 2:		
Testing location/ address.....		
Tested by (name + signature).....		
Witnessed by (name, function, signature)...		
Approved by (name, function, signature)...		
<input type="checkbox"/> Testing procedure: CTF Stage 3:		
<input type="checkbox"/> Testing procedure: CTF Stage 4:		
Testing location/ address.....		
Tested by (name, function, signature).....		
Witnessed by (name, function, signature)...		
Approved by (name, function, signature)...		
Supervised by (name, function, signature) :		

<b>List of Attachments (including a total number of pages in each attachment):</b> - National Differences (2 pages) - Photo Documentation (1 pages)	
<b>Summary of testing:</b> - The manufacturer submitted representative production sample of Network Camera, Models IB9360-H, IB9380-H. - The results reported relate only to the items tested. - Only the tests checked in Tests performed list as below were deemed necessary.	
<b>Tests performed (name of test and test clause):</b> 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 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)	<b>Testing location:</b> UNDERWRITERS LABORATORIES TAIWAN CO LTD/ 260 Da-Yeh Road, TW-112 Peitou, Taipei City, Chinese Taipei
<b>Summary of compliance with National Differences (List of countries addressed):</b>  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_ (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable)	

**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.

<b>IB9360-H</b> Network Camera	
MAC: 0002D1XXXXXX 	   
PoE 37-57V==0.17-0.11A	 
<small>This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Brand Owner Add.: 6F., No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C. M.F.G. Add.: 5F., 5F.-1, 5F.-2, No.168, LianCheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan, R.O.C. Pat.6, 930, 709 <a href="http://www.vivotek.com">www.vivotek.com</a> Made in Taiwan</small>	

<b>IB9380-H</b> Network Camera	
MAC: 0002D1XXXXXX 	   
PoE 37-57V==0.17-0.11A	 
<small>This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Brand Owner Add.: 6F., No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C. M.F.G. Add.: 5F., 5F.-1, 5F.-2, No.168, LianCheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan, R.O.C. Pat.6, 930, 709 <a href="http://www.vivotek.com">www.vivotek.com</a> Made in Taiwan</small>	

<b>Test item particulars..... :</b>		
Temperature range ..... : -30 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		
<b>Possible test case verdicts:</b>		
- 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)		
<b>Testing .....</b>		
Date of receipt of test item..... : 2019-07-19, 2019-07-23		
Date (s) of performance of tests..... : 2019-07-24 to 2019-08-13		
<b>General remarks:</b>		
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.		
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.		
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.		
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60950-1:</b>		
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
<b>When differences exist; they shall be identified in the General product information section.</b>		
Name and address of factory (ies) ..... : VIVOTEK INC. 5F, No.168, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C		
<b>General product information:</b>		
<b>Report Summary:</b>		
All applicable tests according to the referenced standard(s) have been carried out.		
<b>Product Description:</b>		
This product is a Network Camera consists of electronic components are mounted on PCB and housed with metal, glass and plastic enclosures together by adhesive and screws. Unit it intended to be mounted on wall and installed outdoor.		
<b>Model Difference:</b>		
Models are identical except for model designation and sensor type.		
Model	IB9360-H	IB9380-H
Sensor type	2M	5M

<b>4</b>	<b>CONDITIONS FOR OUTDOOR EQUIPMENT</b>		Pass
<b>4.1</b>	<b>Ambient air temperature</b>		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	-30 to 55 °C	Pass
<b>4.2</b>	<b>Mains supply</b>		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
<b>4.3</b>	<b>Rise of earth potential</b>		
	Special earthing conditions	Class III equipment.	N/A
	Reference to installation instructions .....		N/A
<b>5</b>	<b>MARKING AND INSTRUCTIONS</b>		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
<b>6</b>	<b>PROTECTION FROM ELECTRICAL SHOCK IN AN OUTDOOR LOCATION</b>		Pass
<b>6.1</b>	<b>Voltage limits of user-accessible parts in outdoor locations</b> (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
<b>6.2</b>	<b>Limited current circuits in outdoor locations</b>		Pass
	The requirements of 2.4 of IEC60950-1:2005/AMD1:2009/AMD2:2013 apply without change	(see separate test report IEC 60950-1)	Pass
<b>6.3</b>	<b>Protection for socket-outlet in outdoor locations</b>		N/A

	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
<b>7</b>	<b>WIRING TERMINALS FOR CONNECTION OF EXTERNAL CONDUCTORS</b>		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
<b>8</b>	<b>CONSTRUCTION REQUIREMENTS FOR OUTDOOR ENCLOSURES</b>		Pass
<b>8.1</b>	<b>General</b>		Pass
	Protection against corrosion by use of suitable materials or by application of a protective coating	Enclosure was made of Aluminium, glass and plastic.	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
<b>8.2</b>	<b>Resistance to ultra-violet radiation</b>		Pass
	Resistance of non-metallic parts of an outdoor enclosure to degradation by ultra-violet (UV) radiation	IR LED cover are UL approved component (UL 746C, Sections 25 (UV Exposure) and 57 (UV Light Exposure Test) and sufficiently resistant to degradation by ultra-violet (UV) radiation.	Pass
	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
	Flammability classification (1.2.12 and annex A of IEC 60950-1:2005)		N/A
<b>8.3</b>	<b>Resistance to corrosion</b>		Pass
8.3.1	General	Metallic enclosure was made of aluminum, glass, plastic; 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
<b>8.4</b>	<b>Bottoms of fire enclosures</b>		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
<b>8.5</b>	<b>Gaskets</b>		Pass
8.5.1	General	Annex D.2 MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C, Type TSE2186U(aq)	Pass
8.5.2	Oil resistance		N/A

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8.5.3	Securing means	mechanical means used	Pass
<b>9</b>	<b>PROTECTION OF EQUIPMENT WITHIN AN OUTDOOR ENCLOSURE</b>		Pass
<b>9.1</b>	<b>Protection from moisture</b>		Pass
	Adequate protection from the effect of moisture on the enclosed equipment (see Table 2)	After test, no water has entered to enclosure.	Pass
<b>9.2</b>	<b>Protection from plants and vermin</b>		N/A
	Adequate protection if entry by plants and vermin is a consideration	No openings on the enclosure.	N/A
<b>9.3</b>	<b>Protection from excessive dust</b>		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
<b>10</b>	<b>MECHANICAL STRENGTH OF ENCLOSURES</b>		Pass
<b>10.1</b>	<b>General</b>		Pass
	Adequate mechanical strength and protection against access to energized parts and other hazards within the equipment throughout the intended ambient operating range		Pass
<b>10.2</b>	<b>Impact test (4.2.5 of IEC 60950-1)</b>		Pass
	Low temperature conditioning for polymeric enclosures	-30 °C	Pass
	Compliance criteria:	Conduct Impact test before Water spray.	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
<b>11</b>	<b>OUTDOOR EQUIPMENT CONTAINING VENTED BATTERIES</b>		N/A
<b>11.1</b>	<b>Risk of explosion from lead acid, NiCd and NiMH batteries</b>		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
	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
<b>11.2</b>	<b>Ventilation preventing an explosive gas concentration</b>		N/A
	Comply with M.7 of IEC 62368-1:2014		N/A
<b>11.3</b>	<b>Ventilation test</b>		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
<b>A</b>	<b>ANNEX A, WATER-SATURATED SULPHUR DIOXIDE ATMOSPHERE (see 8.3.2 and 8.3.3)</b>		N/A
	Test chamber .....		N/A
	Test method .....		N/A
<b>B</b>	<b>ANNEX B, WATER SPRAY TEST (see 9.1)</b>		Pass
	Test apparatus .....	Three spray heads mounted in a water supply pipe rack as Figs. B.1 and B.2	Pass
	Test method .....		Pass
<b>C</b>	<b>ANNEX C, ULTRAVIOLET LIGHT CONDITIONING TEST (see 8.2)</b>		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
<b>D</b>	<b>ANNEX D, GASKET TESTS (see 8.5)</b>		Pass
D.1	Gasket tests		Pass
D.2	Tensile strength and elongation tests (for gaskets that can stretch)	MOMENTIVE PERFORMANCE MATERIALS JAPAN L L C, Type TSE2186U(aq)	Pass
	Tensile strength (%) .....	75%	Pass
	Elongation (%) .....	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
<b>E</b>	<b>ANNEX E, RATIONALE</b>		—
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		—





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TABLE: Critical components information					N/A
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
(see separate test report IEC 60950-1)					
Supplementary information:					
<sup>1)</sup> 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**

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

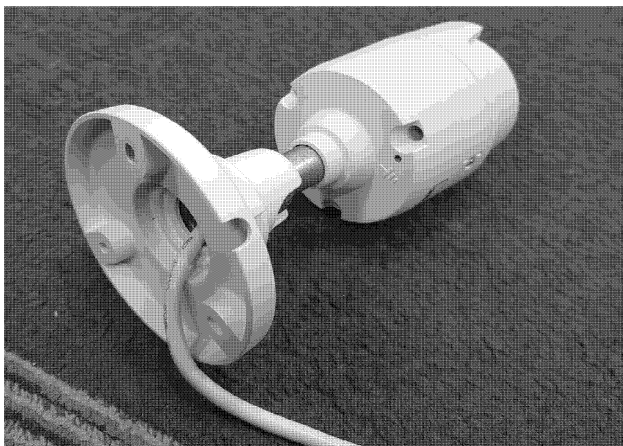
EN 60950-22:2006/A11:2008 – COMMON MODIFICATIONS			
Contents	Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions		N/A
General	Delete all the “country” notes in 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 <b>Finland, Norway and Sweden</b> , 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 <b>Finland, Norway and Sweden</b> 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 <b>Finland, Norway and Sweden</b> 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

**ATTACHMENT**

Page 1 of 1

Report No.  
E324690-4789100558.1-1 Original

Photos



TRF No. IEC60950\_22B

N192002993

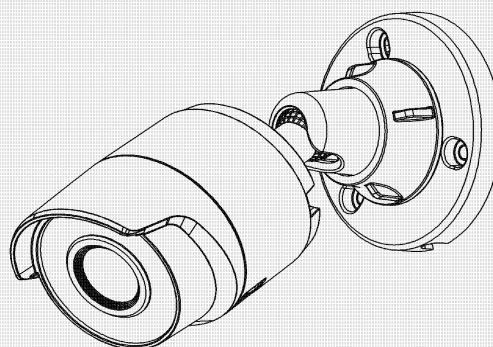




IB9360-H  
IB9380-H      Bullet Network Camera

# User's Manual

5MP/2MP • Outdoor • IP66 • IK10 • Day & Night  
WDR Pro • Smart Stream III • 30M Smart IR



Rev. 1.0

N192002994

VIVOTEK

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## Overview

The IB9360 and IB9380 is an outdoor bullet network camera capable of 1920 x 1080 at 30 fps, or 2560 x 1920 resolution at 20 fps. At the 5MP resolution and with the WDR function enabled, the frame rate is slightly reduced to 20fps. The firmware comes with another 4MP resolution mode with a 30fps frame rate. With the most updated 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.

VIVOTEK

## 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

- IB9360-H or IB9380-H
- Screw pack and side lid.
- Alignment sticker.
- Quick Installation Guide.
- Waterproof cable gland.

**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.

## Test Record No. 2

- The manufacturer submitted representative production sample of Network Camera, Models IB9360-H, IB9380-H.
- No tests were considered necessary based upon previous evaluation under CB Scheme. The CB Scheme Test Certificate Ref. No. DK-87949-UL, dated 2019-09-23 and Report Ref. No. CB1291907078B dated 2019-09-19 were prepared by UL(Demko).

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
N/A	--

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
N/A	--	--

## 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:  
Terence She  
Project Engineer  
Conformity Assessment Services

Reviewed by:  
Chris Kao  
Senior Project Engineer  
Conformity Assessment Services

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