235 台灣 新北市 中和區連城路192號6樓 晶睿通訊股份有限公司 JOANNE CHANG



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

Date: 2017/10/04 Subscriber: 100504413 PartySite: 125336 File No: E324690 Project No: 4788141888 PD No: 17Q09789

Type: R

PO Number: C1S1708140-F01

Subject: Procedure And/Or Report Material

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

Issue

Date Vol Sec Pages Revised Date

2017/04/05 X2 All2 Revised Proc/Rpt Section

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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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2017-10-02

UL TEST REPORT AND PROCEDURE

Standard: UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements) **Certification Type:** Listing CCN: NWGQ, NWGQ7 (Information Technology Equipment Including **Electrical Business Equipment) Product:** Network Camera Model: MD8565-N I/P: Rating: 7.5-48 Vdc, 0.82-0.13 A; 44-57 Vdc, 0.12-0.09 A (for PoE). (Optionally provided on marking plate)

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.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

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Prepared by: Winnie Su Reviewed by: Max Ma

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Supporting Documentation

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

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

Product Description

- The equipment is a Class III Network Camera, consists of electronic components mounted on PWB, Len module and then housed within metal/plastic enclosure. It also provides a General I/O Terminal Block, one DC jack and one internal SD card slot.
- The power source can choose to use PoE or external UL Listed power supply.

Model Differences

N/A

Technical Considerations

- Equipment mobility : fixed
- Connection to the mains : No direct connection
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC I
- Mains supply tolerance (%) or absolute mains supply values: No direct connection
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V): N/A
- Class of equipment : Class III (supplied by SELV)
- Considered current rating of protective device as part of the building installation (A): N/A
- Pollution degree (PD): PD 2
- IP protection class: IP X0
- Altitude of operation (m): Up to 2000 meters
- Altitude of test laboratory (m): less than 2000 meters
- Mass of equipment (kg): 0.41
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 55 degree
- The product was investigated to the following additional standards: UL60950-22, Information
 Technology Equipment Safety Part 22: Equipment to be Installed Outdoors, Edition 1, including

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Revision Date December 19, 2011

- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): DI-, DI+
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
- The outdoor equipment/enclosure was evaluated for use in an ambient range of: -25°C to 55°C
- LEDs provided in the product are considered low power devices: Yes, IR LED was tested and complied with the requirements of Exempt group LED product according to IEC/EN 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 55 degree C whose output meets SELV, LPS and is rated 7.5-48Vdc/0.82-0.13A or PoE 44-57Vdc/0.12-0.09A.
- All interconnection to the EUT is for indoor location, and therefore PoE network interconnected to the equipment is considered as SELV (Network Environment 0 per IEC TR62101)

Additional Information

N/A

Additional Standards

The product fulfills the requirements of: UL60950-22, Information Technology Equipment - Safety - Part 22: Equipment to be Installed Outdoors, Edition 1, including Revision Date December 19, 2011

Markings and instructions

Clause Title	Marking or Instruction Details
Inter-connecting cables - External detachable	Listee's Name and Part number (Marking or Instruction)
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Power rating - Model	Model Number
User Manual	 If the external power adapter doesn't ship with the unit, the user manual shall have the description as below or equivalent: "This product is intended to be supplied by a UL Listed Power Adapter with LPS output, rated 7.5-48 Vdc, 0.82-0.13A or PoE 44-57 Vdc, 0.12-0.09 A." User manual shall have the description as below or equivalent: "The equipment is to be connected only to PoE networks without routing to the outside plant."

Special Instructions to UL Representative

Please verify the following items for the external power adapter which is controlled with "Various" in critical component list. (Provided from Customer)

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N/A

Tma shall be minimum 55 degree C.
 Unit output shall be complied with LPS.
 Report version should be UL60950-1, 2nd edition, 2014-10-14.

Production-Line Testing Requirements										
Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for										
further infor	further information.									
		Removable		V		Test Time,				
Model	Component	Parts	Test probe location	rms	V dc	S				
Earthing Co	ntinuity Test Exem	nptions - This t	est is not required for th	ne followi	ng models:					
All models in	this test report.									
Electric Stre	ngth Test Exempt	ions - This test	t is not required for the	following	models:					
All models in	this test report.									
Electric Stre	ngth Test Compo	nent Exemption	ns - The following solid-	state con	nponents m	ay be				
disconnecte	d from the remain	der of the circu	uitry during the perform	ance of th	nis test:					
Sample and	Sample and Test Specifics for Follow-Up Tests at UL									
						Test				
Model	Component	Material	Test	Sa	ample(s)	Specifics				

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1.5.1	TABLE: list of critical components						
Object/part or Description	Manufacturer/ type/model trademark		technical data	Product Category CCN(s)			
S01. Label	Various	Various	70 degree C min.	PGDQ2 or PGJI2	UL		
S01a. Permanency of Marking (alternate)			Engraved laser marking.				
S01b. Permanency of Marking (alternate)			Permanently ink-stamped, silk- screened, molded in, or in self- adhesive labels.				
S02. Internal Plastic Part Materials	Various	Various	HB or HBF min.	QMFZ2	UL		
S03. Connectors and Receptacles (secondary SELV)	Various	Various		ECBT2 or RTRT2 or DUXR2	UL		
S03a. Connectors and Receptacles (secondary SELV) (alternate)	Various	Various	Copper alloy pins housed in bodies of plastic rated V-2 min.	QMFZ2	UL		
S04. Internal Wiring (secondary SELV) (optional)	Various	Various	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; 60 V min., 60 degree C min.	AVLV2	UL		
S05. Interconnecting Cable (optional)	Various	Various	3.05 m long max., jacketed, VW-1 or FT-1, 60 V min., 60 degree C min.	AVLV2 or ZPFW2 or DVPJ	UL		
S05a. Interconnecting Cable (optional) (alternate)	Various	Various	3.05 m long max., jacketed, type CMP, CMR, CMG, CM, CMX, CMUC, or CMH.	DUZX, ZPFW2	UL		
S05b. Interconnecting Cable (optional) (alternate)	Various	Various	3.05 m long max., jacketed, VW-1 or FT-1, 57 V min., 60 degree C min.	DUXR	UL		
S06. Printed Wiring Boards	Various	Various	V-1 min., 105 degree C min.	ZPMV2	UL		
01. Power Adaptor (optional)	Various	Various	O/P: 0.12-0.09 A, 44-57 Vdc or 0.82-0.13 A, 7.5-48 Vdc. Tma 55 degree C min., L.P.S.	QQGQ or NWGQ	UL		
02. Metal Enclosure			Aluminum, 3.15 mm thick min.			4-01	

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metal cover and microphone)	Performance Materials Japan L L C		ID 4-07 for details. (Vivotek part No. 612042700G)			
10. Desiccant (optional) 11. O-ring (between	Momentive	 TSE2186U(aq)	Mass 4 g max. V-0. See Enclosure/ Diagrams	 QMFZ2	UL	
09a. IR LED (four provided) (alternate)	Ligitek Electronics Co Ltd	1-T350-LSA	Peak Emission Wavelength: 940 nm. Power Dissipation: 1.3 W. Exempt Group. See Enclosure ID 3-14, 3-15 for details.			
09. IR LED (four provided)	Lextar Electronics Corporation	PR88F31	940 nm. 220 mW. Exempt Group. See Enclosure ID 3-12, 3-13 for details.			
08. Cable Gland	AVC Industrial Corp	S80.1(AVC)	See Enclosure/ Diagrams ID 4-06 for details. (Vivotek part No. 612031601G)	JMLU2	UL	4-06
07. O-ring (between metal cover and metal enclosure)	Momentive Performance Materials Japan L L C	TSE2186U(aq)	V-0. See Enclosure/ Diagrams ID 4-05 for details. (Vivotek part No. 612063400G)		UL	4-05
06. O-ring (between plastic cover and metal enclosure)	Momentive Performance Materials Japan L L C	TSE2186U(aq)	V-0. See Enclosure/ Diagrams ID 4-04 for details. (Vivotek part No. 612063300G)	QMFZ2	UL	4-04
05. Electric Double Layer Capacitors (BT1)	Various	Various	0.33 F, 5.5 Vdc.			
04. PoE Transformer (T1) 04-01. Coil	Various Various	Various Various	See Enclosure/ Diagrams ID 4- 03 for details. 105 degree C min.	 OBMW2	UL	4-03
03. Plastic Cover	Teijin Limited Resin And Plastic	L-1225Z(#1)(f1)	01 for details. HB, 2.5 mm thick min., 115 degree C min. See Enclosure/ Diagrams ID 4-02 for details.	QMFZ2	UL	4-02
			See Enclosure/ Diagrams ID 4-			

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12. O-ring for Anti-	Dow Corning Toray	SH881U	HB. See Enclosure/ Diagrams	QMFZ2	UL	
Tamper Screws	Co Ltd		ID 4-08 for details. (Vivotek part			
			No. 611059800G)			

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Enclosures

<u>Type</u>	Supplement Id	Description
Photographs	3-01	Overall view 1
Photographs	3-02	Overall view 2
Photographs	3-03	Connector view
Photographs	3-04	Top view with IRLED board type A
Photographs	3-05	Internal view 1
Photographs	3-06	Internal view 2
Photographs	3-07	Internal view 3
Photographs	3-08	Mainboard view 1
Photographs	3-09	Mainboard view 2
Photographs	3-10	Sensor board view 1
Photographs	3-11	Sensor board view 2
Photographs	3-12	IRLED board type A view 1
Photographs	3-13	IRLED board type A view 2
Photographs	3-14	IRLED board type B view 1
Photographs	3-15	IRLED board type B view 2
Photographs	3-16	Internal view with IRLED board type B
Photographs	3-17	Top view with IRLED board type B
Diagrams	4-01	Metal Enclosure
Diagrams	4-02	Plastic Cover
Diagrams	4-03	PoE Transformer (T1)
Diagrams	4-04	O-ring (between plastic cover and metal enclosure)
Diagrams	4-05	O-ring (between metal cover and metal enclosure)
Diagrams	4-06	Cable Gland
Diagrams	4-07	O-ring (between metal cover and microphone)
Diagrams	4-08	O-ring (for Anti-Tamper Screws)
Miscellaneous	7-01	UL 60950-22 test report

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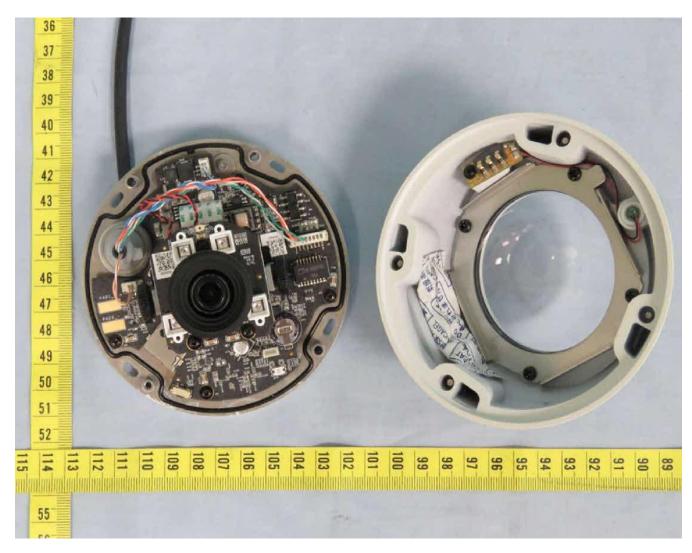
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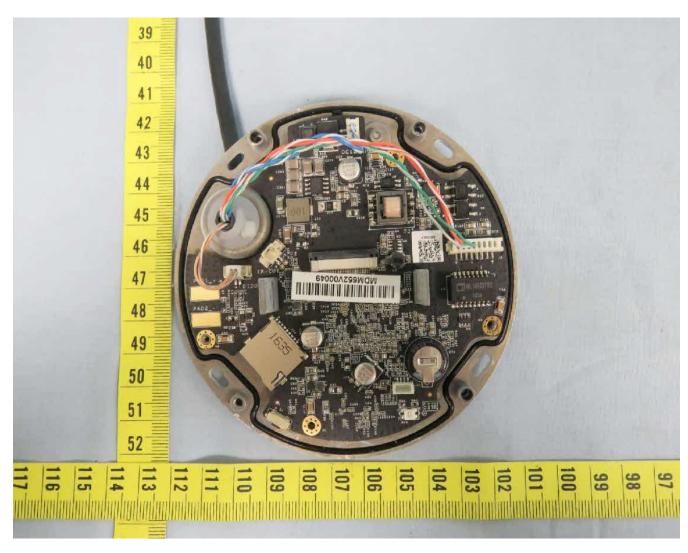
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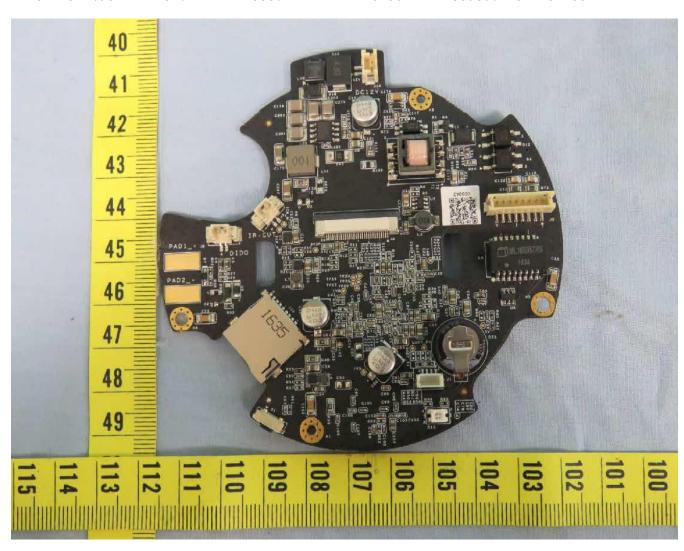
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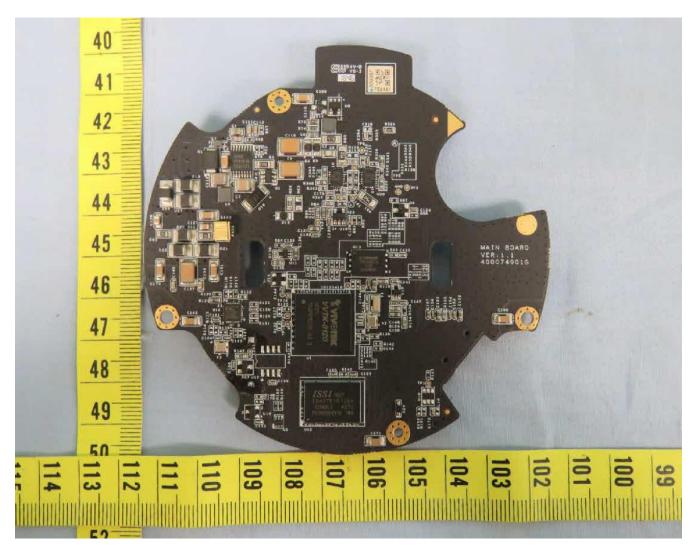
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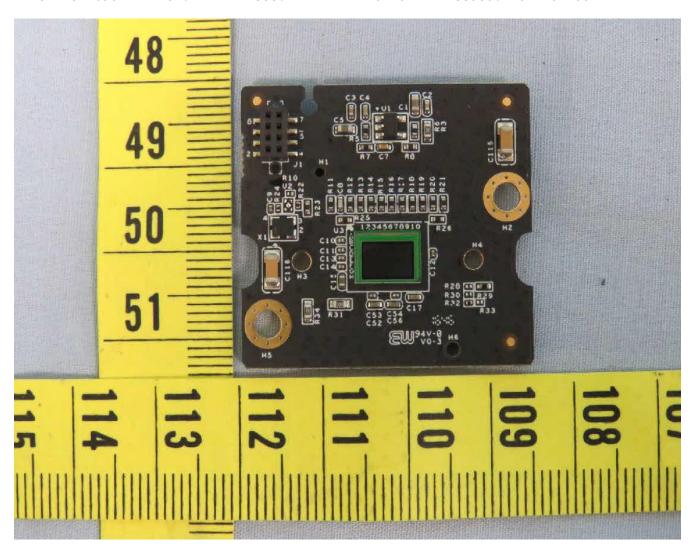
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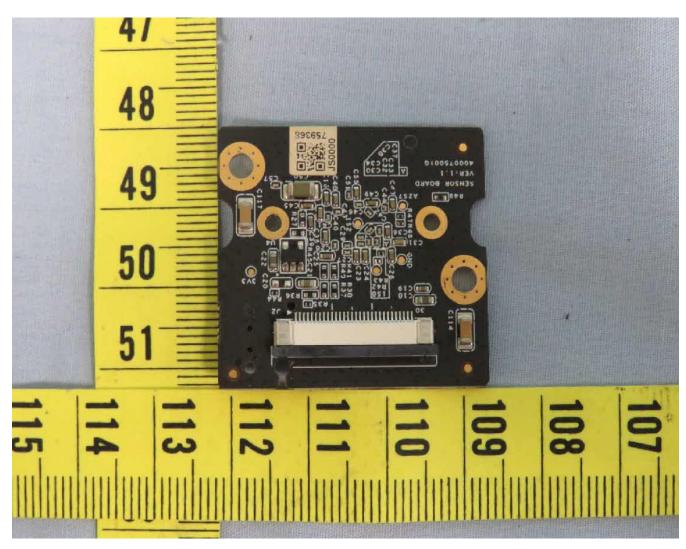
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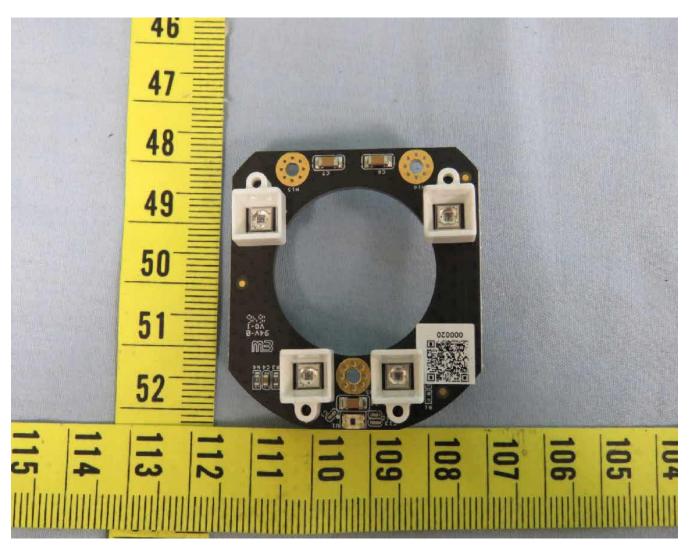
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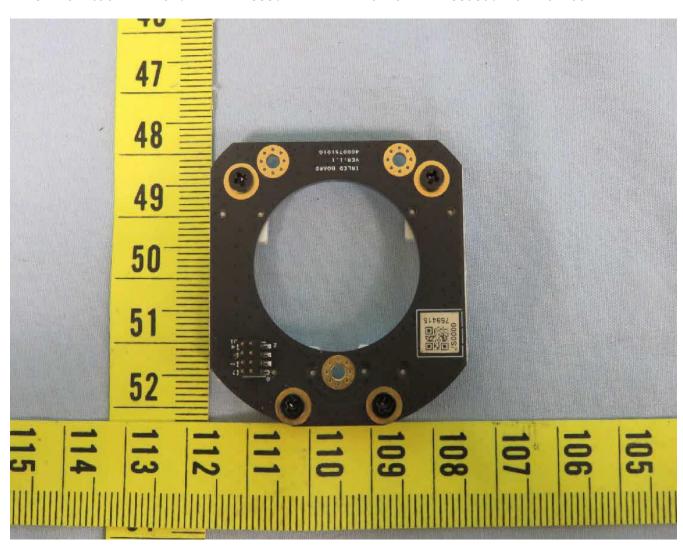
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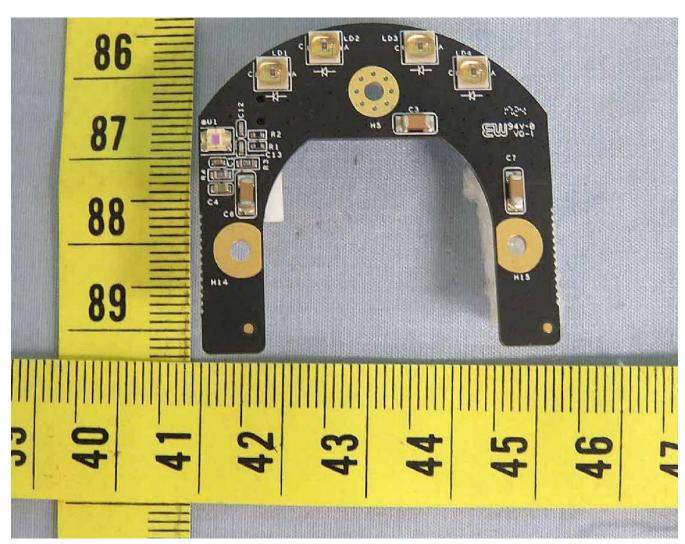
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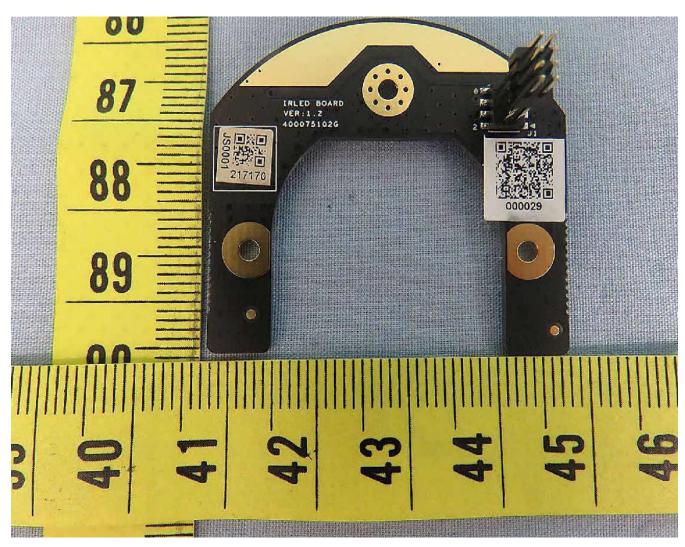
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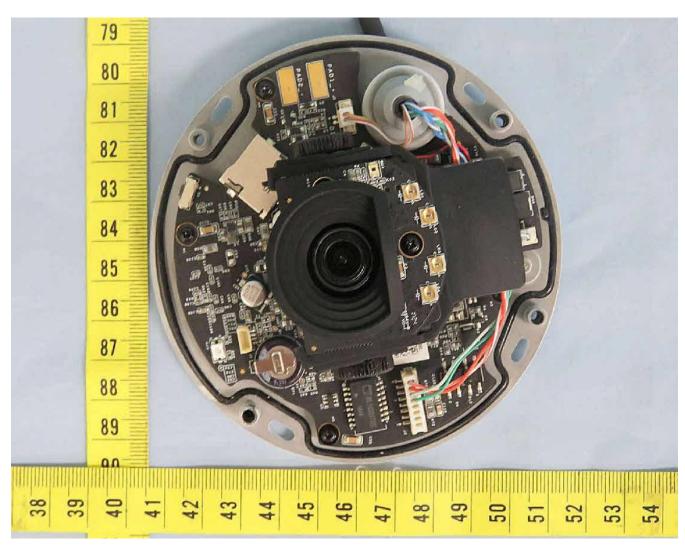
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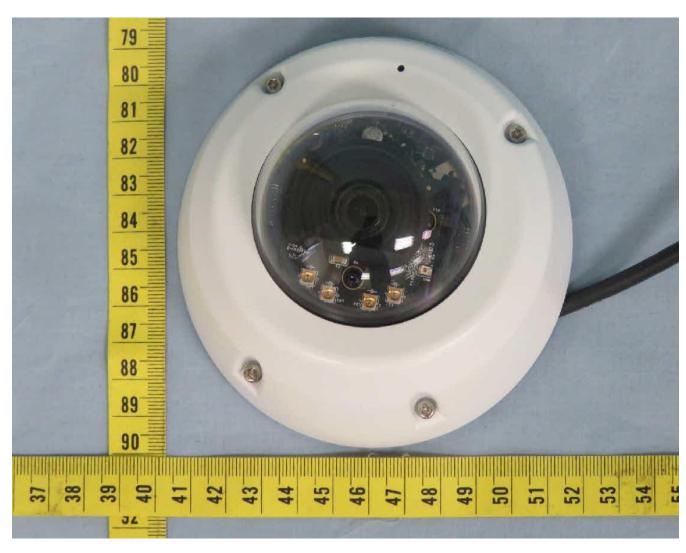
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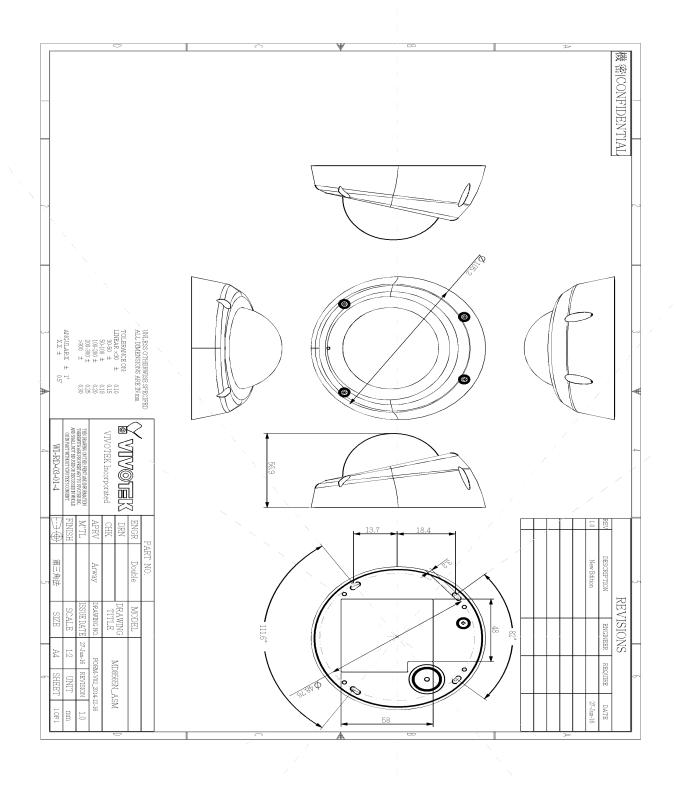


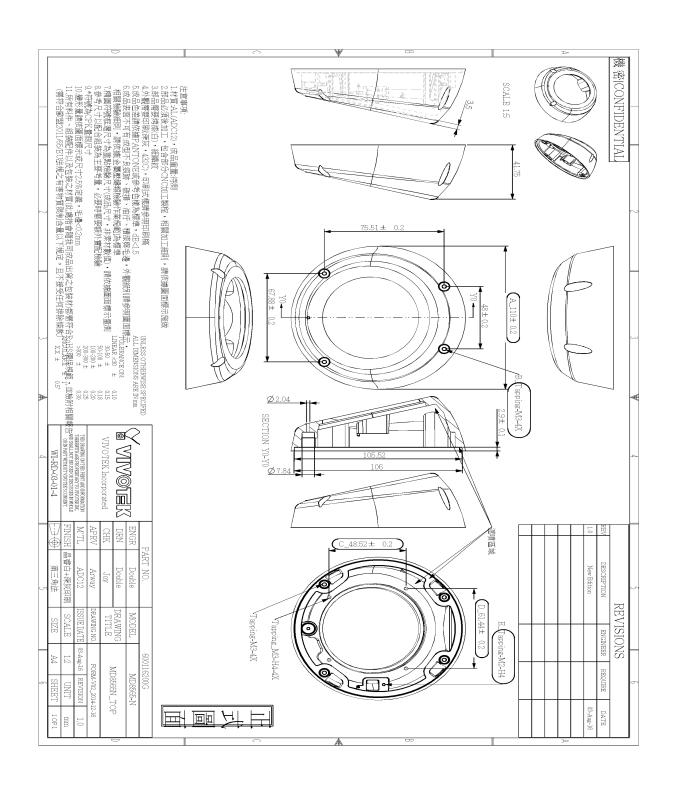
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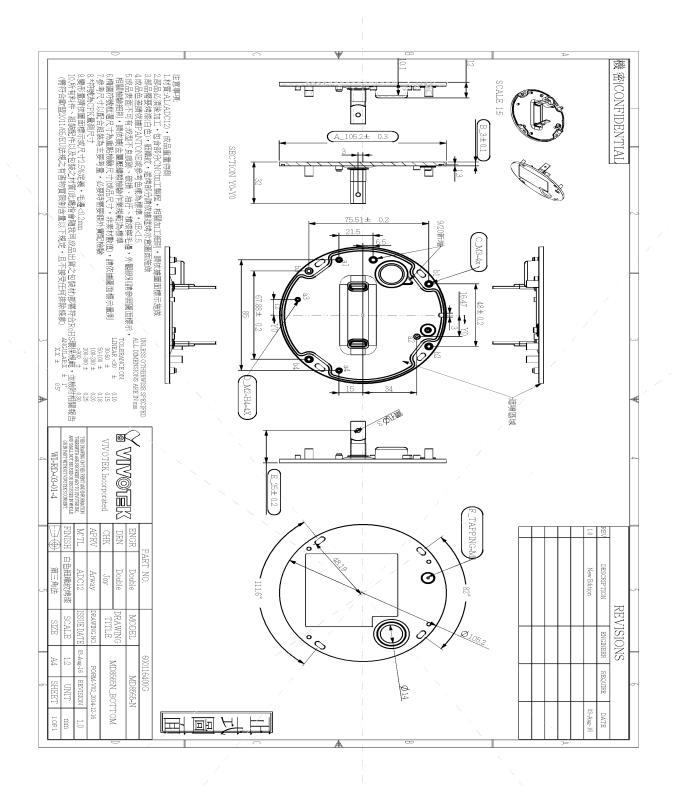


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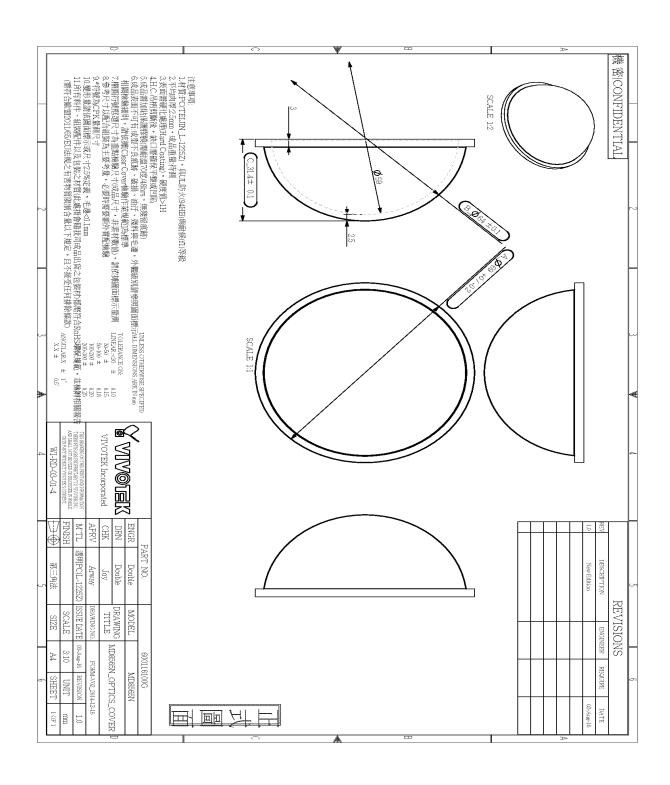


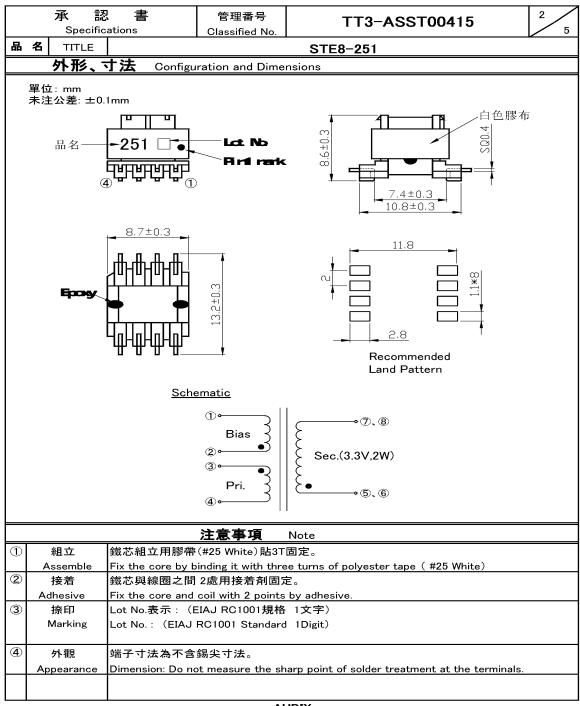






File E324690 Vol. X2 Sec. A112 DIA-02 Issued: 2017-04-05



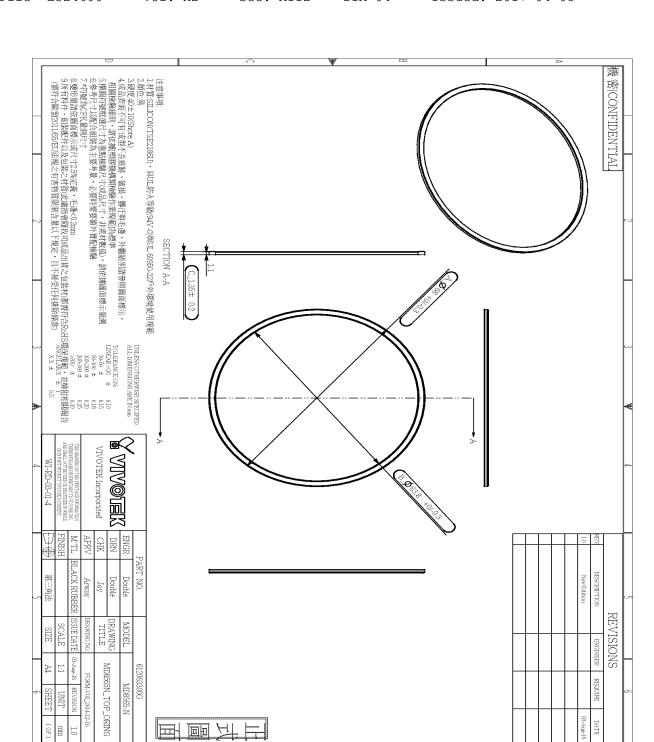


AUDIX

	承 認 書 Specifications		管理番号 Classified No.			15	3 5				
品	名 TITLE	STE8-251									
	電氣特性、檢査条件 Electric Characteristics and Test Conditions										
No.	測定項目	測定規	規格 測定条件			測定端子	測定器				
	Test Items	Specific	ations	Cor	nditions	Measuring Points	Instrum	ents			
1	電感	250 μ H	±10%	10kHz	100mVAC	4 3	LCR 測記	式儀			
	Inductance						LCR Met	ter			
							(HP4284A or 相當品				
2	漏電感	9.5 μ H	MAX	100kHz	100mVAC	43	LCR 測試儀				
	Leakage Inductance			(Short ①,	2,5,6,7,8)		LCR Meter				
			(HP4284A or 相當				相當品)				
3	直流抵抗	1.32 Ω	±20%			4 3	mΩ 測記	式儀			
	DC Resistance	47.0 m Ω	±20%			5,67,8	mΩ Met	er			
		0.50 Ω	±20%			21	(TSURUGA 356	3 or 相當品)			
4	匝數比 ★	4-3:2)-(1):(5),	6-7,8	=1:0.26:0.10)					
	Turn Rations										

- 注意 Note ★印為社内管理項目、數值不記入検査成績書。但、検査項目欄中需判定。
 - \bigstar Marks are the items of internal control, The data don't write in the inspection record. But at Inspection Item sheet must be judge.

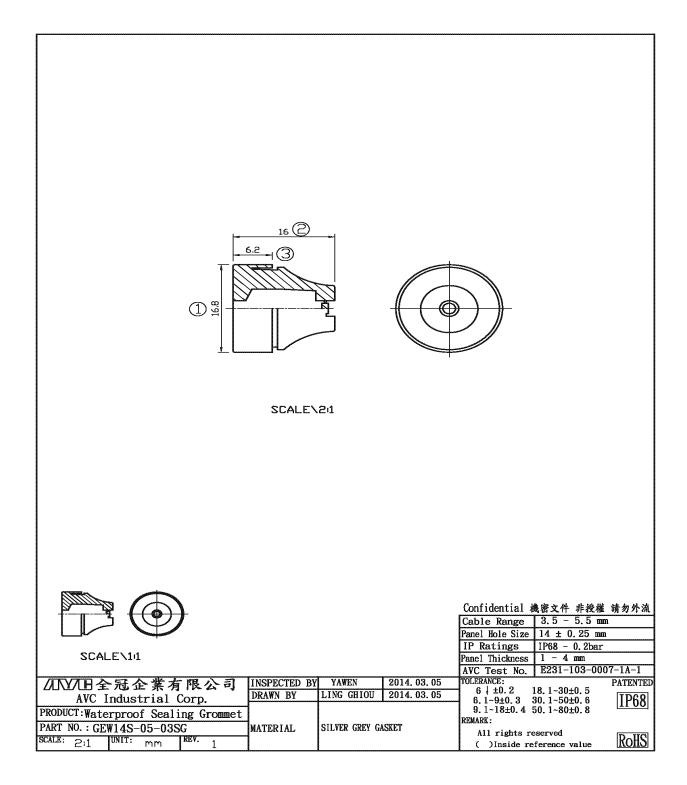
AUDIX



注意事項:

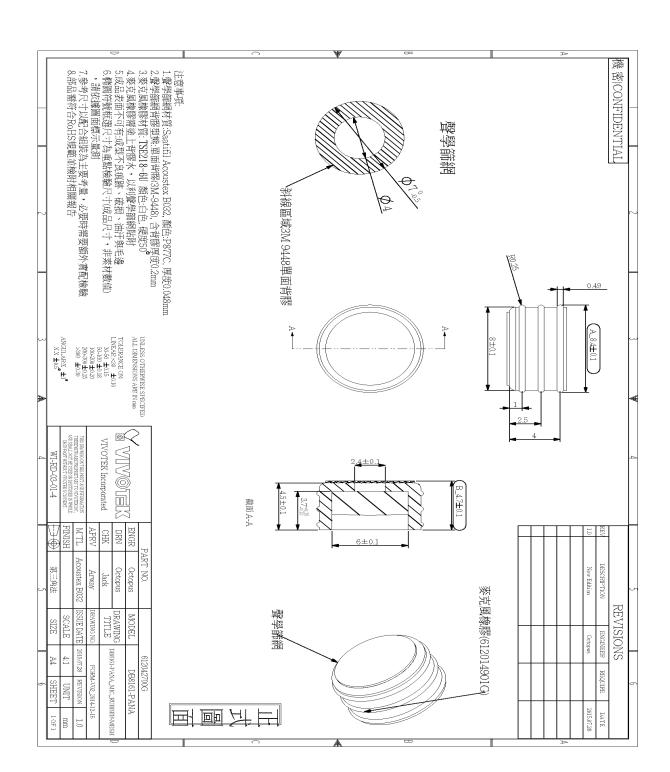
1.材質SILICON(TSE2186U),與UL防火等級(94V-0)與UL 60850-22戶外環境使用規範
2.顏色.異
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4.成品表面不可有或型不良痕跡、被損、髒汗與毛邊、外觀級別請參照圖面標示、
相關線驗細則。請依據型器機構類能數件表規範為標準
5.欄間符號框選尺寸均高質數接換尺寸成品尺寸,非素材較值。請依據圖面標示量測
6.參考尺寸以配合的程度方法更考量、必要時需要額外質配檢驗
ALL IMMENSIANS AGE N man
8.變形量請依園面標示或尺寸2.5%定義・主要<0.2mm
9.所有料件、組裝配件以及包裝之材質此處指會額投可成品出貨之包裝的都需符合RoT於框據的
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0.00 癜 的ICONFIDENTIAL ANGULARX ± 1° XX ± 05° VIVOTEK Incorporated WI-RD-03-01-4 **** M'TL DRN CHK PART NO. BLACK RUBBER DESCRIPTION New Edition Double Joy REVISIONS DRAWING TITLE DRAWING NO SCALE SIZE ENGINEER MD8565N_BOTTOM_ORING 03-Aug-16 Å REQUIRE MD8565-N REVISION DATE nm 1 OF 1

田里其田



Vol. X2

Issued: 2017-04-05



零 國螺絲工業有限公司 6.7±0.2 0.7±0.1 回回 90 定具 I頭M2X5機械牙+矽膠墊片1.9X5X0.9 505 505 $2^{+0}_{-0.15}$ 表面處理 П 回回 期 2016/09/12 器 跚 白 0.9 ± 0.1 |比例| 1:1

Test Report issued under the responsibility of:



TEST REPORT UL 60 950-22

Information technology equipment Safety – Part 22: Equipment to be installed outdoors

Report Reference No. : OFF- 47878403742

Date of issue : 2017-02-07

CB Testing Laboratory.....: UNDERWRITERS LABORATORIES TAIWAN CO LTD

TAIWAN 112

Applicant's name: VIVOTEK INC

TAIPEI 235, TAIWAN

Test specification:

UL 60950-22 - Edition 1 - Revision Date 2011/12/19

N/A Test procedure....: Non-standard test method..... N/A

Test Report Form No. IEC60950_22A

Test Report Form(s) Originator: The Standards Institution of Israel Ltd.

Master TRF.....: Dated 2007-03

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description....: Network Camera

Trade Mark: VIVOTEK

Manufacturer..... : VIVOTEK INC Model/Type reference...... MD8565-N

Ratings.....: (Optional)

44-57Vdc, 0.12-0.09A (for POE); 7.5-48Vdc, 0.82-0.13A (for

adapter)

Page 2 of 20 Report No. OFF- 47878403742 Testing procedure and testing location: □ CB Testing Laboratory: UNDERWRITERS LABORATORIES TAIWAN CO LTD TAIWAN 112 ☐ Associated CB Test Laboratory: Testing location/ address Tested by (name + signature): Daniel Hsueh / handler Daniel Hsuch Chriso Hao Approved by (name + signature).: Chris Kao / reviewer ☐ Testing procedure: TMP Tested by (name + signature): Approved by (+ signature): Testing location/ address: ☐ Testing procedure: WMT Tested by (name + signature): Witnessed by (+ signature)....: Approved by (+ signature)..... Testing location/ address: ☐ Testing procedure: SMT Tested by (name + signature): Approved by (+ signature): Supervised by (+ signature): Testing location/ address ☐ Testing procedure: RMT Tested by (name + signature): Approved by (+ signature): Supervised by (+ signature):

Testing location/ address

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Report No. OFF- 47878403742

Summary of testing:

- The manufacturer submitted representative production sample of Network Camera, model MD8565-N.
- The unit was considered exposed SELV circuit.
- The following tests were conducted according to CSA C22.2 NO. 60950-22-07 Edition 1, Revision Date 2011/12/01 & UL 60950-22 Edition 1, Revision Date 2011/12/19.

4.2.5, 4.2.1, PART 22 10.2 - IMPACT TEST

PART 22 9.1, ANNEX B - WATER SPRAY TEST

The following tests were waived:

Test	Rationale for Waiving
PART 22, 8.5, ANNEX D.2 – TENSILE STRENGTH AND ELONGATION	Refer E324690-A58

Tests performed (name of test and test clause): Testing location: 4.2.5, 4.2.1, PART 22 10.2 - IMPACT TEST UNDERWRITERS LABORATORIES TAIWAN CO LTD/ 1ST FI, 260 DA-YEH RD, PEI TOU PART 22 9.1, ANNEX B - WATER SPRAY TEST DISTRICT, TAIPEI CITY, TAIWAN 112.

Summary of compliance with National Differences:

Countries outside the CB Scheme membership may also accept this report.

List of countries addressed: CA, US, EU.

The product fulfils the requirements of: EN 60950-22:2006 +A11:2008.

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Report No. OFF- 47878403742

Test item particulars	
Temperature range	-25 to 55 degree C
Overvoltage category:	OVCI OVCII OVCIII OVCIV
IP protection class:	IPX0
Possible test case verdicts:	
- test case does not apply to the test object	N/A or N
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	2016-01-25
Date (s) of performance of tests	2016-02-06
General remarks:	
The test results presented in this report relate only to the This report shall not be reproduced, except in full, withon "(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to the Throughout this report a comma (point) is used as the This Test Report Form is intended for the investigation.	out the written approval of the Issuing testing laboratory. pended to the report. e report. decimal separator. tion of safety of equipment to be installed outdoors
in accordance with UL 60950-22. It can only be use	a together with the OL 60950-1 requirements.
Name and address of factory (ies):	
VIVOTEK INC 5F, No.168, LIEN CHENG RD CHUNG HO DISTRICT General product information:	, NEW TAIPEI 235, TAIWAN
Report Summary:	
All applicable tests according to the referenced standa Tests performed on Model MD8565-N were considered	
Product Description:	
The equipment is a Class III Network Camera. The Elcan be from POE.	JT installs to the ceiling or wall. The power source
Model Difference:	
N/A	

	Page 5 of 20	Report No. OFF- 4787840	03742
	UL 60950-22		
Clause	Requirement + Test	Result - Remark	Verdict
4	CONDITIONS FOR OUTDOOR EQUIPMENT		Р
4.1	Ambient air temperature		Р
	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	-25 to 55°C	Р
4.2	AC mains supply		Z
	Suitability for the highest Overvoltage Category expected in the installation location	Class III equipment.	Ν
	Components used to reduce the Overvoltage Category comply with IEC 61643-series		Z
	Reference to installation instructions		Z
4.3	Rise of earth potential		
	Special earthing conditions	Class III equipment.	Ν
	Reference to installation instructions		Ν
5	MARKING AND INSTRUCTIONS		Р
	Special installation features for protection from conditions in the OUTDOOR LOCATION (see 1.7.2 of UL 60950-1)	Precautions in the installation instruction.	Р
	OUTDOOR ENCLOSURE classification according to IEC 60529 (IP Code)	The unit is considered as outdoor equipment	2
6	PROTECTION FROM ELECTRICAL SHOCK IN AN		P _
6.1	Voltage limits of user-accessible parts in OUTDOOR LO (2.2.2 and 2.2.3 of UL 60950-1 with voltage limits of U		Р
	Voltages under normal conditions (V)	Accessible parts are less than 21.2 Vp or 30Vdc and are classified as SELV.	Р
	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.	Р
6.2	Limited current circuits in outdoor locations		7
	The requirements of 2.4 of UL60950-1 apply without change		Ν

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

7	WIRING TERMINALS FOR CONNECTION OF EXTERNAL CONDUCTORS		Ν
	The mains supply terminations powered via the normal building installation wiring are as specified in 3.3 of UL 60950-1	Not directly connected to mains.	7
	The mains supply terminations powered directly from the mains distribution system are as specified in IEC 60364	Not directly connected to mains.	7

8	CONSTRUCTION REQUIREMENTS FOR OURDOOR ENCLOSURES		Р
8.1	General		Р
	Protection against corrosion by use of suitable materials or by application of a protective coating	Metallic enclosure was made of aluminium.	Р
	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	Р
	Use of OUTDOOR ENCLOSURE to carry current during normal operation	Outdoor enclosure does not carry current during normal operation.	Р
	Connection of a conductive part of an OUTDOOR ENCLOSURE to protective earth for carrying fault currents (see 2.6 of UL 60950-1 and 8.3 of this standard)		N
8.2	Resistance to ultra-violet radiation		7
	Resistance of non-metallic parts of an outdoor enclosure to degradation by ultra-violet (UV) radiation		N
	Parts providing mechanical support:		Ν
	Tensile strength test (ISO 527)		Ν
	Flexural strength test (ISO 178)		Ν
	Parts providing impact resistance:		Ν
	Charpy impact test (ISO 179)		Ν
	Izod impact test (ISO 180)		Ν
	Tensile impact test (ISO 8256)		Ν
	All parts:		Ν
	Flammability classification (1.2.12 and annex A of UL 60950-1)		Ν
8.3	Resistance to corrosion		Р

TRF No. IEC60950_22A

	Page 7 of 20	Report No. OFF- 478784	03742	
	UL 60950-22			
Clause	Requirement + Test	Result - Remark	Verdict	
8.3.1	General	Metallic enclosure was made of aluminum and after evaluated/reviewed the data provided from manufacturer, the construction complied with requirements.	P	
	Resistance of metallic parts of an OUTDOOR ENCLOSURE to the effects of water-borne contaminants		Ν	
	Alternate method for 8.3.2-8.3.4 (IEC 61587-1)		Ν	
8.3.2	Test apparatus		Ν	
	Salt-spray test (IEC 60068-2-11)		N	
	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	
8.3.3	Test procedure		Ν	
8.3.4	Compliance criteria		Ν	
8.4	Bottoms of FIRE ENCLOSURES		Ν	
	Comply with 4.6.2 of UL 60950-1	No bottom opening.	Ν	
	Bottom of FIRE ENCLOSURE of OUTDOOR EQUIPMENT mounted directly and permanently on a non-combustible surface (e.g., concrete or metal)		Ν	
8.5	Gaskets		Р	
	If gaskets are used as the method for protection against the ingress of potential contaminants, requirements of 8.5.1 through 8.5.3 apply	Refer to Report No. E324690- A58 for test result in detail.	Р	
8.5.1	General		Ν	
8.5.2	Oil resistance		Ν	
8.5.3	Securing means	mechanical means used	Р	
9	PROTECTION OF EQUIPMENT WITHIN AN OUTE	DOOR ENCLOSURE	Р	
9.1	Protection from moisture (see Table 2)	After test, no water has entered to enclosure.	Р	
9.2	Protection from plants and vermin	No openings on the enclosure.	N	
9.3	Protection from excessive dust		Ν	

	Page 8 of 20	Report No. OFF- 478784	
	UL 60950-22	I	T
Clause	Requirement + Test	Result - Remark	Verdict
	_		,
10	MECHANICAL STRENGTH OF ENCLOSURES		Р
10.1	General		Р
10.2	Impact test (4.2.5 of UL 60950-1)	(see separate test report UL 60950-1)	Р
	Compliance criteria:		Р
	- after test the level of protection remains in accordance with 9.1of this standard		Р
	- after test the requirements of 4.2.1 of UL 60950-1 are met		Р
11	OUTDOOR EQUIPMENT CONTAINING VENTED BA	ATTERIES	N
	Adequate ventilation in the compartment housing a vented battery, where gassing is possible during normal usage or over-charging	No such battery was provided.	N
	Protection against the risk of ignition of local concentrations of hydrogen and oxygen in a compartment containing both a battery and electrical components		N
	Hydrogen gas concentration measurement test		N
	Measured hydrogen gas concentration (% by volume)		- Contractor
	Max. allowed gas concentration for the mixture location in proximity to an ignition source (% by volume)		_
	Max. allowed gas concentration for the mixture location not in proximity to an ignition source (% by volume)		
	Overcharging of rechargeable battery (see 4.3.8 of UL 60950-1)		N
A	ANNEX A, WATER-SATURATED SULPHUR DIOXID (see 8.3.2 and 8.3.3)	DE ATMOSPHERE	N
В	ANNEX B, WATER SPRAY TEST (see 9.1)		Р
С	ANNEX C, ULTRAVIOLET LIGHT CONDITIONING T	EST (see 8.2)	N
C.1	Test apparatus		N
C.2	Mounting of test samples		N
C.3	Carbon-arc light-exposure apparatus		N
C.4	Xenon-arc light-exposure apparatus		N

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

D	ANNEX D, GASKET TESTS (see 8.5)		Р
D.1	Gasket tests		Р
D.2	Tensile strength and elongation tests (for gaskets that can stretch)	Refer to Report No. E346792- A58 for test result in detail.	P
	Tensile strength (%)		Ν
	Elongation (%)		Ν
	Visible deterioration, deformation, melting, cracking or hardening of the material	There was no visible cracking or other adverse effect of the conditioned material.	Р
D.3	Compression test (for gaskets with closed cell construction)		N
	Initial thickness of the specimen (mm)		Ν
	Thickness of the specimen after test a) (mm), compression set after test a) (%)		N
	Thickness of the specimen after test b) (mm), compression set after test b) (%)		Ν
	Thickness of the specimen after test c) (mm), compression set after test c) (%)		Ν
	Visible cracks or deterioration		Ν
D.4	Oil immersion test		Ν
	Swelling (%)		Ν
	Shrinking (%)		Ν

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	

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

	IEC 60950-22:2005 - COMMON MODIFICATIONS	
Contents	Add the following annexes:	Ν
	Annex ZA (normative) Normative references to international publications with their corresponding European publications	
	Annex ZB (normative) Special national conditions	
General	Delete all the "country" notes in the reference document according to the following list:	7
	4.1 Note 3 4.3 Note 8.5 Note 10.2 Note D.3 Note	

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR	
	CORRESPONDING EUROPEAN PUBLICATIONS	

ZB	SPECIAL NATIONAL CONDITIONS		Ν
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- 22:2006 + A11:2008.	2
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- 22:2006 + A11:2008.	7
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- 22:2006 + A11:2008.	N

Clause	Requirement + Test		Result - Remark	Verdict
		UL 60950-22		
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8.2	TABLE	E: Resistance to ultra-violet rad	iation	
8.2a)	Tensile	strength test (ISO 527)		
Material ider (manufactur		n designation):		-
Shape and o	dimensio	ons of test samples		
Conditioning	for Set	1 of samples		-
		2 of samples		
Test condition	ons (T °	C, RH %)		-
(without .	Set 1 Annex C conditioning)	(after Ann	Set 2 nex C conditioning)
Test samp	ple#	Tensile strength (MPa)	Test sample #	Tensile strength (MPa
Arithmetic m	nean for	Set 1 (MPa)		
		Set 2 (MPa)		
	6)			
Retention (%				

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			UL 60950-22		
ſ	Clause	Requirement + Test		Result - Remark	Verdict

8.2	TABLE	: Resistance to ultra-violet rad	iation		
8.2b)	Flexura	l strength test (ISO 178)		N	
Material ide (manufactur		n designation)		_	•
Shape and	dimensic	ons of test samples			_
Conditioning	g for Set	1 of samples		-	
		2 of samples		-	
Test condition	ons (T °C	C, RH %)			_
(without A	Set 1 Annex C conditioning)	(after An	Set 2 nex C conditioning)	
Test sam	ple#	Flexural strength (MPa)	Test sample #	Flexural strength (MPa))
			4		
		Set 1 (MPa)			
Arithmetic n	nean for	Set 2 (MPa)			
Retention (9	6)				
Supplement	ary infor	mation:			

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	UL 609	50-22		
Clause	Requirement + Test	,	Result - Remark	Verdict

8.2	TABL	E: Resistance to ultra-violet rac	liation	
8.2c)	Char	oy impact test (ISO 179) - unnotch	ed	N
Material iden (manufacture		ion e designation)		_
Shape and d	imens	sions of test samples		
Conditioning	for S	et 1 of samples		-
		et 2 of samples		
Test method (according to	Tabl	es 2 and 3 of ISO 179):		
Test conditio	ns (T	°C, RH %)		
		·		
(wi	ithout	Set 1 Annex C conditioning)	(after /	Set 2 Annex C conditioning)
Test sample	e#	Charpy impact strength (kJ/m²)	Test sample #	Charpy impact strength (kJ/m²)
Arithmetic me	ean fo	or Set 1 (kJ/m²)		
Arithmetic me	ean fo	or Set 2 (kJ/m²)		
Retention (%)			
	5151515151515			
Supplementa	ary inf	ormation:		

		Page 14 of 20	Report No. OFF- 478784	103742
		UL 60950-22		
Clause	Requirement + Test		Result - Remark	Verdict

8.2	TABI	E: Resistance to ultra-violet ra	diation		
8.2d)	Char	oy impact test (ISO 179) - notched	k		N
Material ide (manufactur		ion re designation):			
Shape and	dimen	sions of test samples:			
Conditioning	g for S	et 1 of samples			
		et 2 of samples			-
Test method (according t		es 2 and 3 of ISO 179)			100000
Test condition	ons (T	°C, RH %)			
(v	vithout	Set 1 Annex C conditioning)	(after A	Set 2	
Test samp	le#	Charpy impact strength (kJ/m²)	Test sample #	Charpy impact strengt	:h (kJ/m²)
Arithmetic n	nean fo	or Set 1 (kJ/m²)			
Retention (9	6)				
		ormation:			

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

8.2	TABL	E: Resistance to ultra-violet ra	diation		
8.2e)	Izod i	mpact test (ISO 180) - unnotche	d		Ν
Material ider (manufacture		ion e designation)			_
Shape and c	dimens	sions of test samples:			
Conditioning	for Se	et 1 of samples			
		et 2 of samples			
Test method (according to		e 1 of ISO 180)			1111111
Test condition	ons (T	°C, RH %)			<u></u>
		•			<u> </u>
(v)	vithout	Set 1 Annex C conditioning)	(after A	Set 2 Innex C conditioning)	
Test samp	le#	Izod impact strength (kJ/m²)	Test sample #	Izod impact strength (kJ/m²)
Arithmetic m	iean fo	or Set 1 (kJ/m²)			
Arithmetic m	ean fo	or Set 2 (kJ/m²)			
Retention (%	6)				
Supplement	ary info	ormation:			

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	υ	L 60950-22			
Clause	Requirement + Test		Result -	- Remark	Verdict
8.2	TABLE: Resistance to ultra-violet	radiation			
8.2f)	Izod impact test (ISO 180) - notched	l			N
Material ide (manufactur	ntification er, type designation)				
Shape and dimensions of test samples					
Conditioning	for Set 1 of samples				
	g for Set 2 of samples nnex C)				
Test method (according t	d o Table 1 of ISO 180)				
Test condition	ons (T °C, RH %)				
(v	Set 1 vithout Annex C conditioning)		(after A	Set 2 nnex C conditioning)	
Test samp	ile# Izod impact strength (kJ/m²)	Test san	nple#	Izod impact strength	(kJ/m ²)
		'			
Arithmetic n	nean for Set 1 (kJ/m²)				
Arithmetic n	nean for Set 2 (kJ/m²)				
Retention (9	6)				
Supplement	ary information				

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

8.2	TAB	E: Resistance to ultra-violet ra	diation		
8.2g)	Tens	ile impact test (ISO 8256) - unnot	ched		N
Material ider (manufactur		ion e designation)			_
Shape and c	limen	sions of test samples			
Conditioning	for S	et 1 of samples			-
		et 2 of samples			
Test method	l (A or	B)			
Test conditio	ons (T	°C, RH %):			
(w	<i>r</i> ithout	Set 1 Annex C conditioning)	(after A	Set 2 Annex C conditioning)	
Test samp	le#	Tensile impact strength (kJ/m²)	Test sample #	Tensile impact strength	ı (kJ/m
		or Set 1 (kJ/m²)			
		or Set 2 (kJ/m²)			
Retention (%	6)				

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

8.2	TABI	E: Resistance to ultra-violet ra	diation		
8.2h)	Tens	ile impact test (ISO 8256) – notch	ed		N
Material ide (manufactur		ion e designation)			
Shape and	dimen	sions of test samples			
Conditioning	g for S	et 1 of samples			
		et 2 of samples			_
Test method	d (A or	B)			
Test condition	ons (T	°C, RH %)			
(v	without	Set 1 Annex C conditioning)	(after A	Set 2 nnex C conditioning)	
Test samp	ole#	Tensile impact strength (kJ/m²)	Test sample #	Tensile impact strengt	th (kJ/m²)
			_		
Arithmetic n	nean fo	or Set 1 (kJ/m²)			
Arithmetic m	nean fo	or Set 2 (kJ/m²)			
Retention (%	%)				
Supplement	Las pr. 7 (14	Taring Program			
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		UL 60950-22		
Clause	Requirement + Test		Result - Remark	Verdict

List of test equipment used: (Note: This is an example of the required attachment. Other forms with a different layout but containing similar information are also acceptable.)

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date
			·	

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UL 60950-22	

Clause Requirement + Test Result - Remark Verdict

ATTACHMENT

	A C B B A C COO B D K 7 5 REEDS H OF S		
US - UL609	950-22, First Edition - SPECIAL NATIONAL CONDITION	vs	
4	Applicable parts of Chapter 8 of the NEC may be applicable to ITE installed outdoors with connections to communication systems		Р
4.2	Power supply cords are to be suitable outdoor use type as required by Section 400-4 of the NEC, i.e., marked "water resistant," "outdoor," "W" or "W-A."		Z
4.2	Surge Arrestors and Transient Voltage Surge Suppressors installed external to the ITE are required to comply with the appropriate NEC requirements.		2
5	Outdoor Enclosures are required to be classified and marked in accordance with UL 50		7
7	Applicable parts of the NEC, NFPA 70; and the National Electrical Safety Code, ANSI/IEEE C2, are required, as appropriate.		Z
7	Wiring terminals intended to supply Class 2 outputs are required per Article 725 of the NEC to be marked.		2
11	Requires stationary installations of storage batteries external to the ITE to comply with Article 480 of the NEC		Z
OTHER DI	FERENCES		
1.2	For protection of ITE against direct lightning strikes, reference is made to NFPA 780 for additional requirements.		Р
2	All references to IEC 60950-1 in this standard are replaced by the equivalent UL 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.		Р

Issue Date: 2017-04-05 Page 1 of 3 Report Reference # E324690-A112-UL

Revision Date: 2017-10-02 Test Record

Test Record No. 1

- The manufacturer submitted representative production samples of Network Camera, Model MD8565-N.

- All tests except for Impact Test and Water Spray Test were conducted at Audix Technology Corp., located at Nei-Hu, Taipei under TPTDP program.
- Impact Test and Water Spray Test were conducted at UL lab in Taiwan.
- Test results reported relate only to the items tested.

The following tests were conducted:

Test	Testing Location/Comments
End Product Reference Page	
General Guidelines	
Input: Single-Phase (1.6.2)	
SELV Reliability Test Including Hazardous Voltage Measurements (2.2.2, 2.2.3, 2.2.4, Part 22 6.1)	
Limited Power Source Measurements (2.5)	
Steady Force (4.2.1 - 4.2.4)	
Impact (4.2.5, 4.2.1, Part 22 10.2)	"UL"
Stress Relief (4.2.7, 4.2.1)	
Loading - Wall and Ceiling Mounted Equipment (4.2.10)	
Heating (4.5.1, 1.4.12, 1.4.13)	
Electric Strength (5.2.2)	
Component Failure (5.3.1, 5.3.4, 5.3.7)	
Abnormal Operation (5.3.1 - 5.3.9)	
Overload of Operator Accessible Connector (5.3.7)	
Water Spray (Part 22 9.1, Annex B)	"UL"

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
Tensile Strength and Elongation (Part 22 8.5, Annex D.2)	Refer to E324690-A58

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

<u>Type</u>	Supplement Id	<u>Description</u>
Attachment	2-01	DataSheet
Attachment	2-02	CRD

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Test Record No. 2

- The manufacturer submitted representative production samples of Network Camera, Model MD8565-N, employing alternate IRLED board type B.

- All tests were conducted at Audix Technology Corp., located at Nei-Hu, Taipei under TPTDP program.
- Only limited tests were considered necessary based upon previous investigation.
- Test results reported relate only to the items tested.

The following tests were conducted:

Test	Testing Location/Comments
End Product Reference Page	
General Guidelines	
Input: Single-Phase (1.6.2)	
Heating (4.5.1, 1.4.12, 1.4.13)	

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

<u>Type</u>	Supplement Id	<u>Description</u>
Datasheet	2-03	DataSheet for 60950
Datasheet	2-04	DataSheet for 60950-22 (For Test Record No. 1)
Attachment	2-05	CRD