

235

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

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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	2020/08/31
2018/08/01	1	1	Cert of Compliance	
2018/08/01	1	1	Description Page(s)	

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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

## INDEX

Model Number	Section	Requirements Evaluated to (US and/or CN)
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1) IR Ball, 2MP 2.8mm; 2) IR Ball, 5MP 2.8mm; 3) Network Camera 1) HC30WE2R3, IT9360-HNWL; 2) HC30WE5R3, IT9380-HNWL; 3) IT9360-H, IT9380-H	2	US and CN
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IC9581-H	25	US and CN

# CERTIFICATE OF COMPLIANCE

**Certificate Number** E324690  
**Report Reference** E324690-20180801  
**Issue Date** 2020-SEPTEMBER-04

**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

Network Camera  
IP9165-HP, IP9165-LPC, IP9165-HT, IP9165-HPPM,  
IP9165-LPCTW, IP9165-LPR

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

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

**Additional Information:** See the UL Online Certifications Directory at  
<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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File E324690  
Project 4788485899

August 1, 2018

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>	[X] UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) [X] CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
<b>Certification Type:</b>	[X] Listing [ ] Recognized Component [ ] Unlisted Component [ ] Listed Accessory
<b>CCN:</b>	[X] AZOT, [X] AZOT7 (Information Technology Equipment)
<b>Product:</b> <b>Model:</b> <b>Rating:</b>	Network Camera IP9165-HP, IP9165-LPC, IP9165-HT, IP9165-HPPM, IP9165-LPCTW, <b>IP9165-LPR</b> I/P: 1) 12V , 0.75A 2) 24V~, 0.75A, 50-60 Hz 3) PoE 37~57V , 0.24~0.16A
<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.

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\*Prepared by: **Vivian Chen**

Reviewed by: **Bruce A. Mahrenholz**

**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 mounted on PWB, Lens module, stepper motor, houses within metal enclosure and provides AUDIO jacks x2, micro SD card slot, RJ-45 port and general I/O terminal block.

- Electronic components were mounted on PWB, then housed within metal enclosure.

**Model Differences**

- Models are similar except lens as table below and model designation.

Model	IP9165-HP, IP9165-HPPM	IP9165-LPC, IP9165-HPPM, IP9165-LPCTW, <b>IP9165-LPR</b>	IP9165-HT
Lens	Ricom 3.6-17mm P-iris	Leading 12-40mm P-iris	3.9-10mm iCS

**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  
     - ☒ ES1 ☐ ES2 ☐ ES3

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 50-60  
 Hz (for AC input)

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 .....	<input checked="" type="checkbox"/> IP X0	<input type="checkbox"/> 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. 1.05 kg (with stand); stand: 0.25 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: 55°C
- The product is intended for use on the following power systems: ☐ TN ☐ IT ☐ TT ☐ DC mains supply ☒ No direct connection
- Considered current rating of protective device as part of the building installation (A) : ☐ 15 ☐ 20 ☐ \_\_\_\_ ☒ N/A
- Mains supply tolerance (%) or absolute mains supply values : ☐ +10%, -10% ☐ DC Mains: +20%, -15% ☐ +\_\_\_\_%, -\_\_\_\_% ☒ No direct connection
- ☒ The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): All output ports.
- ☒ The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual.
- LEDs provided in the product are considered low power devices: Yes
- 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 12Vdc, 0.75A min.; or 24Vac, 0.75A min., 50-60 Hz; or PoE 37~57Vdc, 0.24~0.16A.
- The product is only to be connected to PoE network without routing to outside plant.

**Additional Information****\*Project 4789595907****Add new model IP9165-LPR which is identical to model IP9165-LPC.****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)				
<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 adaptor without listing manufacturer and model (Various/Interchangeable) in critical component table, the Field Representative should verify the Tma (maximum ambient temperature) is minimum 55 degree C from the updated version of power adaptor(s) UL Certification reports per the latest revision or report revision (UL 60950-1, 2nd Edition, dated 2014-10-14) (provided from customer).						
<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
S01. Label	Various	Various	60 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	V-2 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., 80 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., 80 degree C min.	DUXR	UL	
S05c. Interconnecting Cable (optional)	Various	Various	3.05 m long max., jacketed, VW-1 or FT-1, 30 V min., 80	AVLV2	UL	

(alternate)			degree C min.			
S06. Printed Wiring Boards	Various	Various	V-1 min., 105 degree C min.	ZPMV2	UL	
01. External Power Supply Source (optional)	Various	Various	O/P: 24 Vac, 50-60 Hz, 0.75 A or 12 Vdc, 0.75 A or PoE 37~57 Vdc, 0.24~0.16 A. Tma 55 degree C min, LPS, Class II.	QQGQ	UL	
02. Metal Enclosure	Various	Various	Aluminum. Think 1.0 mm min. See Illustration-1 for details.	--	--	
03. Plastic Decorative Part	Various	Various	HB min.	QMFZ2	UL	
04. Base Stand	Various	Various	Metallic, approx. 0.25 kg. See Illustration-3 for details.	--	--	
05. PoE Transformer (T1)	Various	Various	See Illustration-2 for details.	--	--	
05-01. Coil	Various	Various	105 degree C min.	OBMW2	UL	
06. Electric Double Layer Capacitors (BT2)	Various	Various	0.2 F, 3.3 Vdc.	--	--	
07. DC Motor	NEW ASIA OPTICAL INDUSTRY CO.,LTD.	N114DCP01-P4	3 Vdc. Stepper type.	--	--	
07a. DC Motor	NEW ASIA OPTICAL INDUSTRY CO.,LTD.	N105DCP01-P2	2.2 Vdc. Stepper type.	--	--	

## **ENCLOSURES**

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
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	Figure-2	External View with base stand
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