

CERTIFICATE OF COMPLIANCE

Certificate Number E140407
Report Reference E140407-A445-UL
Issue Date 2019-DECEMBER-16

Issued to: PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA
Product Safety & Compliance Dept
Two Riverfront Plaza
9th Fl, Newark NJ 07102-5490

This certificate confirms that representative samples of Information Technology Equipment Including Electrical Business Equipment
Network Camera
WV-U2132L, WV-U2142L

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


Standard(s) for Safety: UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07-Information Technology Equipment - Safety - Part 1: General 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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UL TEST REPORT AND PROCEDURE

| | |
|------------------------------------|---|
| Standard: | UL 60950-1, 2nd Edition, 2019-05-09 (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: | WV-U2132L, WV-U2142L |
| Rating: | WV-U2132L: 48Vdc, 120mA (PoE) (Class 2) WV-U2142L: 48Vdc, 135mA (PoE) (Class 0) |
| Applicant Name and Address: | PANASONIC CORPORATION OF NORTH AMERICA PRODUCT SAFETY & COMPLIANCE DEPT TWO RIVERFRONT PLAZA 9TH FL NEWARK NJ 07102-5490 UNITED STATES |

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.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: Satoru Ohnishi

Reviewed by: Yusuke Enokimura

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 Network Cameras are supplied from Power over Ethernet (PoE standard IEEE 802.3af or PoE+ standard IEEE 802.3at).

The product is intended for indoor use and has not been evaluated for use in burglary and theft applications.

Model Differences

WV-U2142L is basic model in this report.

WV-U2132L is similar to WV-U2142L except for model number and resolution.

Technical Considerations

- Equipment mobility : stationary
- Connection to the mains : not directly connected to the mains
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : N/A
- 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
- Altitude of test laboratory (m) : Approx. 10 to 20
- Mass of equipment (kg) : 331g (Models WV-U2132L, WV-U2142L)
- The product was submitted and evaluated for use at the maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification of: 50°C
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

- LEDs provided in the product are considered low power devices: Yes

Additional Information

PoE circuit was evaluated as SELV circuit, because this product is connected only to PoE networks without routing to the outside plant and suitable instruction is provided in the user manual. See sub-clause 1.7.2 for details.

The LED emission from Model WV-U2132L and WV-U2142L were determined to be Risk Group Exempt per IEC 62471.

Additional Standards

The product fulfills the requirements of: N/A

Markings and instructions

| Clause Title | Marking or Instruction Details |
|---------------------------------------|---|
| 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 |

Special Instructions to UL Representative

N/A

| Production-Line Testing Requirements | | | | | | |
|---|-----------|-----------------|---------------------|-----------|----------------|--------------|
| <u>Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.</u> | | | | | | |
| Model | Component | Removable Parts | Test probe location | V rms | V dc | Test Time, s |
| N/A | -- | -- | -- | -- | -- | -- |
| <u>Earthing Continuity Test Exemptions - This test is not required for the following models:</u> | | | | | | |
| N/A | | | | | | |
| <u>Electric Strength Test Exemptions - This test is not required for the following models:</u> | | | | | | |
| N/A | | | | | | |
| <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> | | | | | | |
| N/A | | | | | | |
| <u>Sample and Test Specifics for Follow-Up Tests at UL</u> | | | | | | |
| Model | Component | Material | Test | Sample(s) | Test Specifics | |
| N/A | -- | -- | -- | -- | -- | |