

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20180823-E140407  
**Report Reference** E140407-A414-UL  
**Issue Date** 2018-AUGUST-23

**Issued to:** PANASONIC CORPORATION OF NORTH AMERICA  
PRODUCT SAFETY & COMPLIANCE DEPT  
TWO RIVERFRONT PLAZA  
9TH FL  
NEWARK NJ 07102-5490

**This is to certify that  
representative samples of**

Information Technology Equipment Including Electrical  
Business Equipment

Network Camera

1) WV-X6511N, WV-X6531N, WV-X6531NS,  
WV-X6531NPJ

2) WV-S6530N, WV-S6530NS

3) WV-S6110, WV-S6111, WV-S6130, WV-S6131

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

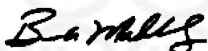
**Standard(s) for Safety:**  
**Additional Information:**

UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07

See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
Certification and Follow-Up Service.

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

|                                    |                                                                                                                                                                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>                   | UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements)<br>CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements) |
| <b>Certification Type:</b>         | Listing                                                                                                                                                                                                                                         |
| <b>CCN:</b>                        | NWGQ, NWGQ7 (Information Technology Equipment Including Electrical Business Equipment)                                                                                                                                                          |
| <b>Product:</b>                    | Network Camera                                                                                                                                                                                                                                  |
| <b>Model:</b>                      | 1) WV-X6511N, WV-X6531N, WV-X6531NS, WV-X6531NPJ<br>2) WV-S6530N, WV-S6530NS<br>3) WV-S6110, WV-S6111, WV-S6130, WV-S6131                                                                                                                       |
| <b>Rating:</b>                     | 1), 2) AC 24 V, 50/60 Hz, 1) 3.4 A, 2) 2.7 A<br>PoE+(Class 4) 1), 2) DC 54 V, 1) 470 mA, 2) 430 mA<br>Power over Ethernet 1) DC 54 V, 1.0 A<br>3) DC 12 V, 1 A<br>PoE (Class 0) DC 48 V, 250 mA                                                 |
| <b>Applicant Name and Address:</b> | PANASONIC CORPORATION OF NORTH AMERICA<br>PRODUCT SAFETY & COMPLIANCE DEPT<br>TWO RIVERFRONT PLAZA<br>9TH FL<br>NEWARK NJ 07102-5490<br>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.

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Prepared by: Ayano Matsumoto

Reviewed by: Tetsuo Iwasaki

### 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 products tested are Network Cameras for use outdoor or indoor environment.

Input/Output Connector is intended to connect in indoor location.

### Model Differences

See Enclosures, Id. 7-01 for Description of Differences.

Outdoor Models: WV-X6511N, WV-X6531N, WV-X6531NS, WV-S6530N, WV-S6530NS, WV-X6531NPJ

Indoor Models: WV-S6110, WV-S6111, WV-S6130, WV-S6131

WV-X6531NPJ is similar to WV-X6531N except for model number and manufacturing location (Vol. X28).

### Technical Considerations

- Equipment mobility : fixed
- Connection to the mains : not directly connected to the mains
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC I
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10% (for AC 24V supply as manufacturer's specification)
- 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) : Not connected to mains.
- Pollution degree (PD) : PD 2
- IP protection class : IP66 (Outdoor Models Only)
- Altitude of operation (m) : up to 2000
- Altitude of test laboratory (m) : less than 1000
- Mass of equipment (kg) : Approx. 5.0 kg (Outdoor Models), Approx. 2.0 kg (Indoor Models)
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma)

permitted by the manufacturer's specification of: 60°C (Outdoor Models Only)

- The product was investigated to the following additional standards: CSA/UL60950-22 1st edition - Equipment to be Installed Outdoors, IEC 60529, Edition 2.2 + Corr. 1:2013 + Corr. 2:2015, UL50E 2nd Edition, C22.2 No. 94.2 2nd Edition.
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
- The outdoor equipment/enclosure is: IP rated IP66
- The outdoor equipment/enclosure was evaluated for use in an ambient range of: -50/-40°C to 60°C

#### **Additional Information**

The network camera is only intended for a connection to an ethernet or PoE network without routing to the outside plant.

#### **Additional Standards**

The product fulfills the requirements of: The product fulfills the requirements of: UL 60950-22 1st Edition. Revised 2011-12-19, CSA C22.2 No. 60950-22-07 1st Edition, IEC 60529, Edition 2.2 + Corr. 1:2013 + Corr. 2:2015, UL50E 2nd Edition, issued 2015-10-16, C22.2 No. 94.2-15 2nd Edition.

#### **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                                                                        |
| Outdoor Enclosure Marking             | "Type 4 Enclosure" or "Type 4X Enclosure" on Rating Label (for outdoor models only) |
| IP Code                               | "IP66" on Rating Label (for outdoor models only)                                    |

#### **Special Instructions to UL Representative**

WV-X6531NPJ is manufactured in Vol. X28.  
Other models are manufactured in Vol. X195.

| <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 |
| N/A                                                                                                                                                                                           | --        | --              | --                  | --        | --             | --           |
| <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> |           |                 |                     |           |                |              |
| N/A                                                                                                                                                                                           |           |                 |                     |           |                |              |
| <b><u>Sample and Test Specifics for Follow-Up Tests at UL</u></b>                                                                                                                             |           |                 |                     |           |                |              |
| Model                                                                                                                                                                                         | Component | Material        | Test                | Sample(s) | Test Specifics |              |
| N/A                                                                                                                                                                                           | --        | --              | --                  | --        | --             |              |