

CERTIFICATE OF COMPLIANCE

Certificate Number R-E140407
Report Reference E140407-A438-UL
Date 2020-October-31

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

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

INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS EQUIPMENT

See Addendum Page for Product Designation(s).

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

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number R-E140407
Report Reference E140407-A438-UL
Date 2020-October-31

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Network Camera

WV-X6533LN, WV-S6532LN, WV-X6533LNS, WV-S6532LNS



Bruce Mahrenholz, Director North American Certification Program

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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)
Complementary CCN:	N/A
Product:	Network Camera
Model:	WV-X6533LN, WV-S6532LN, WV-X6533LNS, WV-S6532LNS
Rating:	24Vac, 50/60Hz, 3.4A; 54Vdc, 470mA (PoE+(Class4)) or 54Vdc, 1.0A (PoE)
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.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

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Prepared By: Yuta Iida / Project Handler

Reviewed By: Yusuke Enokimura / Reviewer

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 AC or Power over Ethernet (PoE standard IEEE 802.3af or PoE+ standard IEEE 802.3at).

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

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

Model Differences

WV-X6533LN is basic model in this report.

WV-S6532LN is similar to WV-X6533LN except for model number and maximum irradiation distance.

WV-X6533LNS is similar to WV-X6533LN except for model number, shape of Window Frame and shoulder screws for its fixing, and an additional painting for heavy salt damage resistance on the metal outer enclosure.

WV-S6532LNS is similar to WV-X6533LN except for model number, maximum irradiation distance, shape of Window Frame and shoulder screws for its fixing, and an additional painting for heavy salt damage resistance on the metal outer enclosure.

Test Item Particulars

Mass of equipment (kg)	Approx. 8.0 Kg
Equipment mobility	fixed
Connection to the mains	N/A
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 66
Altitude of operation (m)	Up to 2000
Altitude of test laboratory (m)	Approx. 10 to 20

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer’s specification of : 60°C
- The product was investigated to the following additional standards : CSA/UL60950-22 - Equipment to be Installed Outdoors, IEC 60529, Edition 2.1 + Corr. 1:2003 + Corr. 2:2007 + Corr. 3:2009, UL50E 1st Edition, Revised 2007-09-04, C22.2 No. 94.2 1st Edition.
- The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual
- The outdoor equipment/enclosure is : Type 4X Enclosure, IP rated IP66
- The outdoor equipment/enclosure was evaluated for use in an ambient range of : -50°C to 60°C (Model WV-X6533LN), -40°C to 60°C (Model WV-S6532LN)
- 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-X6533LN was determined to be Risk Group 2 per IEC 62471. IEC 60950-22, Equipment to be Installed Outdoor have been evaluated per UL 50E and IEC 60529.

Additional Standards

The product fulfills the requirements of: UL 60950-22 1st Ed. Revised 2011-12-19, CSA C22.2 No. 60950-22-07, IEC 60529, Edition 2.1 + Corr. 1:2003 + Corr. 2:2007 + Corr. 3:2009, UL50E 1st Edition, Revised 2007-09-04, C22.2 No. 94.2 1st 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 companys name, Trade Name, Trademark or File Number
Power rating - Model	Model Number
Outdoor Enclosure Marking	"TYPE 4X ENCLOSURE" on Rating Label
IP Code	"IP66" on Rating Label

Special Instructions to UL Representative

N/A