

CERTIFICATE OF COMPLIANCE

Certificate Number E140407
Report Reference E140407-A427-UL
Issue Date 2020-JUNE-26

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-S1550L, WV-S1570L, WV-X1535LN, WV-X1551LN, WV-X1571LN, WV-S1552L, WV-S1572L.

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

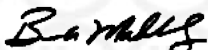
Standard(s) for Safety: UL 60950-1, (Information Technology Equipment - Safety - Part 1: General Requirements)
CAN/CSA C22.2 No. 60950-1-07, (Information Technology Equipment - Safety - Part 1: General Requirements)

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)
Complementary CCN:	N/A
Product:	Network Camera
Model:	WV-S1550L, WV-S1570L, WV-X1535LN, WV-X1551LN, WV-X1571LN, WV-S1552L, WV-S1572L
Rating:	WV-S1550L: DC12V, 810mA / PoE DC 48V, 210mA WV-S1570L: DC12V, 830mA / PoE DC 48V, 220mA WV-X1535LN, WV-X1551LN, WV-X1571LN, WV-S1552L, WV-S1572L: DC12V, 930mA / PoE DC 48V, 240mA
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: Yusuke Enokimura / Project Engineer

Reviewed By: Kosuke Kawamura / Engineer Project Associate

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.

For Outdoor Environment Model: WV-S1550L/WV-S1570L/WV-X1535LN/WV-X1551LN/WV-X1571LN/WV-S1552L/WV-S1572L

The Network Cameras are supplied from Power of Ethernet (PoE standard IEEE 802.3af) or by 12 Vdc from an optional Class 2 UL Listed AC adaptor.

Models WV-S1550L/WV-S1570L/WV-X1535LN/WV-X1551LN/WV-X1571LN/WV-S1552L/WV-S1572L are intended for outdoor use and have not been evaluated for use in burglary and theft applications.

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

Model Differences

WV-S1550L is basic model in this report.

WV-S1570L is similar to WV-S1550L except for model designation, ratings, internal camera module.

WV-X1535LN is similar to WV-S1550L except for model designation, ratings, internal camera module, dehumidifier, rain wash coating, Edge AI image processing.

WV-X1551LN is similar to WV-S1550L except for model designation, ratings, internal camera module, dehumidifier, rain wash coating, Edge AI image processing.

WV-X1571LN is similar to WV-S1550L except for model designation, ratings, internal camera module, dehumidifier, rain wash coating, Edge AI image processing.

WV-S1552L is similar to WV-S1550L except for model designation, ratings, internal camera module, digital signal processor.

WV-S1572L is similar to WV-S1550L except for model designation, ratings, internal camera module, digital signal processor.

Test Item Particulars

Equipment mobility	stationary
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	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)	Not connect to mains.
Pollution degree (PD)	PD 2
IP protection class	IP66
Altitude of operation (m)	less than 2000
Altitude of test laboratory (m)	less than 1000
Mass of equipment (kg)	2.1kg for Models WV-S1550/WV-S1570L; 2.2kg for Models WV-X1535LN/WV-X1551LN/WV-X1571LN/WV-S1552L/WV-S1572L

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification of : 60°C
- The product was investigated to the following additional standards : CSA/UL60950-22 2nd 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 : Type 4X Enclosure, IP rated IP66
- The outdoor equipment/enclosure was evaluated for use in an ambient range of : -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: UL 60950-22 2nd Edition, Revised 2007-04-23, CSA C22.2 No. 60950-22-07 1st Edition, IEC 60529, Edition 2.2 + Corr. 1:2013 + Corr. 2:2015

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	

BD1.0	TABLE: Production-Line Testing Requirements					
BD1.1	Electric Strength Test Special Constructions – Refer to Generic Inspection Instructions, Part AC for further information.					
Model	Component	Removable parts	Test probe location	Test V rms	Test V dc	Test Time, s
N/A	--	--	--	--	--	--
BD1.2	Earthing Continuity Test Exemptions – This test is not required for the following models:					
	All models.					
BD1.3	Electric Strength Test Exemptions – This test is not required for the following models:					
	All models.					
BD1.4	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:					
	N/A					

BE1.0	Sample and Test Specifics for Follow-Up Tests at UL				
Model	Component	Material	Test	Sample (s)	Test Specifics
N/A	--	--	--	--	--