

CERTIFICATE OF COMPLIANCE

Certificate Number R-E140407
Report Reference E140407-A6020-UL
Issue Date 2020-AUGUST-03

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

AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT
SEE ADDENDUM PAGE

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

Standard(s) for Safety:

UL 62368-1 and CAN/CSA C22.2 No. 62368-1:19, 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

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/>



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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-X5550LT, WV-X5550LTPJ



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 3rd Ed, Issued: 2019-12-13 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, Issued: 2019-12-13 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Listing
CCN:	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	Network Camera
Model:	WV-X5550LT, WV-X5550LTPJ
Rating:	24Vac, 50/60Hz, 3.8A
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: Takeshi Yamatani / 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 product is a Network Camera for use in an outdoor environment, used by skilled person and installed in the restricted area.

Radiation of this product shall be installed fully distance to be safety for ordinary person is not hazard due to this Lamp system is classified as RG2 based on IEC 62471.

Model Differences

The models are identical except for the model name and production factory.

If not stated otherwise, tests were conducted on model WV-X5550LT to represent the other similar model WV-X5550LTPJ.

Test Item Particulars

Product group	end product
Classification of use by	Skilled person
Supply Connection	not mains connected: ES1
Supply tolerance	+10%/-10%
Supply connection – type	External Power Supply
Considered current rating of protective device	N/A
Equipment mobility	wall/ceiling-mounted
Over voltage category (OVC)	OVC II
Class of equipment	Class III
Special installation location	restricted access area Outdoor location
Pollution degree (PD)	PD 2
Manufacturer's specified T _{ma} (°C)	60°C Outdoor: minimum -40°C
IP protection class	IP 66
Power systems	not AC mains
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	2000 m or less
Mass of equipment (kg)	16 kg (with TILT Bracket)

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 Risk Group of a lamp or lamp system (including LEDs) is : RG 2
- The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual

Additional Information

External Power Supply:

Only connect 24 V AC Class2 power supply (UL1310/CSA 223) or limited power source (UL/CSA60950-1 or UL/CSA 62368-1 Annex Q).

That External Power Supply itself is not evaluated in this report.

Insulation system:

- All circuits are separated from primary by double/reinforced insulation. (in External Power Supply)
- All output / interface voltages are at ES1 level.
- All accessible area / surface voltage are ES1 level.


<Lens Unit>

Lens Unit, Type DE005N0500 (PGOL1139YA/J1) is identical to Lens Unit, Type DE005N0300 (PGOL1128ZA/C1) except for grease for internal motors.

Additional Standards

The product fulfills the requirements of: IEC 62471:2006

Markings and Instructions

Clause Title	Marking or Instruction Details
Optical radiation from lamps – IR Radiation Symbol	IR radiation symbol  (60417-6151) for cornea/lens infrared hazard and retinal thermal hazard, weak visual stimulus Symbol on equipment is black on a yellow background. Reproduction in user manual is not required to be in color.
Optical radiation from lamps - Hazard-related risk group marking of equipment: Cornea/lens infrared hazard 780-3000 nm	"CAUTION - IR emitted from this product" for Risk Group 2. "ATTENTION - IR émis par ce produit" for Risk Group 2. Text on equipment is black on a yellow background. Reproduction in user manual is not required to be in color.

<p>Optical radiation from lamps - Hazard-related risk group marking of equipment:</p> <p>Retinal thermal hazard, weak visual stimulus 780-1400 nm</p>	<p>"CAUTION - IR emitted from this product" for Risk Group 2. "ATTENTION - IR émis par ce produit" for Risk Group 2.</p> <p>Text on equipment is black on a yellow background. Reproduction in user manual is not required to be in color.</p>
<p>Equipment identification marking – Manufacturer identification</p>	<p>Listee's or Recognized Company's name, Trade Name, Trademark or File Number</p>
<p>Equipment identification marking – model identification</p>	<p>Model Number</p>
<p>Equipment rating marking – ratings</p>	<p>Input Ratings (voltage, frequency/dc, current/power) Output Ratings (voltage, frequency/dc, current/power)</p>
<p>Outdoor enclosure type</p>	<p>Type 4X Enclosure</p>
<p>Equipment for use in location where children are not likely to be present</p>	<p>"This equipment is not suitable for use in locations where children are likely to be present" (Instruction)</p> <p>"Cet équipement ne convient pas à une utilisation dans des lieux susceptibles d'accueillir des enfants." (Instruction)</p>
<p>Special Instructions to UL Representative N/A</p>	