

CERTIFICATE OF COMPLIANCE

Certificate Number 20170113-E140407
Report Reference E140407-A406-UL
Issue Date 2017-JANUARY-13

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, Models WV-SUD638-x
(Note: "-x" can be blank or color code "-A" to "-Z");

WV-SUD638PJ, WV-SUD638B

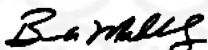
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 60950-1 and 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
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

Standard:	UL 60950-1, 2nd Edition, 2014-10-14 (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-SUD638-x (Note: "-x" can be blank or color code "-A" to "-Z")
Rating:	WV-SUD638PJ, WV-SUD638B 100V - 240V~, 50/60 Hz 1.6 A or 54Vdc (PoE) 1.0 A (PoE: Power over Ethernet)
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.

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Prepared by: Yusuke Enokimura

Reviewed by: Takaya Ishisue

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

This product is a Network Camera equipped with concentrated features necessary for a monitoring camera for Outdoor-use.

Model Differences

All models are identical except for model designation and color of Enclosures.
WV-SUD638PJ is manufactured in factory in Japan.
WV-SUD638B is added with SD memory card and its related control circuits.

Technical Considerations

- Equipment mobility : stationary
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class I (earthed)
- Considered current rating of protective device as part of the building installation (A) : 20A
- Pollution degree (PD) : PD 2
- IP protection class : IP66 and IP67
- Altitude of operation (m) : Up to 5000 m
- Altitude of test laboratory (m) : approximately 10 to 20 m
- Mass of equipment (kg) : 8.1 kg
- The product was submitted and evaluated for use at the maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification of: 55°C
- The means of connection to the mains supply is: Pluggable A, Detachable power cord
- The product is intended for use on the following power systems: TN

- The equipment disconnect device is considered to be: Appliance inlet
- The product was investigated to the following additional standards: UL60950-22 - Equipment to be Installed Outdoors, , IEC 62471-1
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: C2211 Secondary Circuit
- The outdoor equipment/enclosure is: Type 4X Enclosure, IP rated 66 and 67
- The outdoor equipment/enclosure was evaluated for use in an ambient range of: -50°C to 55°C
- 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.

Maximum Normal Condition: Continuous monitoring with Pan/Tilt moving and Optional IR LED "ON".

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
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.
Replaceable batteries	"CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions."
Outdoor Enclosure Marking	Type 4X Enclosure
IP Rating Marking	IP66/IP67

Special Instructions to UL Representative

N/A

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
N/A						

Earthing Continuity Test Exemptions - This test is not required for the following models:

Electric Strength Test Exemptions - This test is not required for the following models:

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:

Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
N/A					