

# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-2206892-3  
**Report Reference** E521573-20220113  
**Date** 20-Jul-2022

**Issued to:** i-PRO Co., Ltd.  
SHINAGAWA INTERCITY A (14F) 2-15-1 KONAN  
MINATO-KU, TOKYO 108-6014  
Japan

**This is to certify that representative samples of** AZOT - Audio/Video, Information and Communication Technology Equipment

See Addendum Page for Product Designation(s).

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

**Standard(s) for Safety:** UL 62368-1, 3rd Ed., Issue Date: 2019-12-13, Revision Date: 2021-10-22

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance 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 UL-US-2206892-3  
Report Reference E521573-20220113  
Date 20-Jul-2022

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

Model	Category Description
WV-S2536L	Network Camera
WV-S2536LN	Network Camera
WV-S2536LT	Network Camera
WV-S2536LTN	Network Camera



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/>



## UL TEST REPORT AND PROCEDURE

<b>Standard:</b>	UL 62368-1, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
<b>Certification Type:</b>	Listing
<b>CCN:</b>	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)
<b>Complementary CCN:</b>	N/A
<b>Product:</b>	Network Camera
<b>Model:</b>	WV-S2536LN, WV-S2536L, WV-S2536LTN, WV-S2536LT
<b>Rating:</b>	WV-S2536LN, WV-S2536L: 12Vdc, 730mA, 48Vdc (PoE), 190mA (Class 0) WV-S2536LTN, WV-S2536LT: 12Vdc, 860mA, 48Vdc (PoE), 210mA (Class 0)
<b>Applicant Name and Address:</b>	I-PRO CO., LTD. 7-9-66 HAKOZAKI HIGASHI-KU FUKUOKA-SHI FUKUOKA 812-0053 JAPAN

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.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared By: Nao Maede / Project Handler

Reviewed By: Tadao Nakayama / 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

This product is a Network Camera for use in an outdoor environment.

This equipment is supplied from the External Power Supply.

External Power Supply : The External Power Supply itself is not evaluated in this report.

### Model Differences

Model WV-S2536LN is basic model.

Model WV-S2536L is similar to Model WV-S2536LN except for model designation and excluded Clear Sight coating on Dome Cover.

Model WV-S2536LTN is similar to Model WV-S2536LN except for model designation, rating and Lens Unit.

Model WV-S2536LT is similar to Model WV-S2536LTN except for model designation and excluded Clear Sight coating on Dome Cover.

### Test Item Particulars

Product group	end product
Classification of use by	Instructed person Skilled person
Supply Connection	not mains connected: ES1
Supply tolerance	None
Supply connection – type	External Power Supply
Considered current rating of protective device	N/A
Equipment mobility	stationary wall/ceiling-mounted
Over voltage category (OVC)	OVC II
Class of equipment	Class III
Special installation location	Outdoor location
Pollution degree (PD)	PD 2
Manufacturer's specified T <sub>ma</sub> (°C)	50 °C (For using IR-LED mode) or 60 °C (For not using IR-LED mode)
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)	3.6
<b>Technical Considerations</b>	
<ul style="list-style-type: none"> <li><input type="checkbox"/> The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer’s specification of : 50 °C (For using IR-LED mode) or 60 °C (For not using IR-LED mode)</li> <li><input type="checkbox"/> The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual</li> <li><input type="checkbox"/> The LED emission were determined to be Risk Group Exempt per IEC 62471:2006.</li> </ul>	
<b>Additional Information</b>	
PoE circuit was evaluated as ES1/PS2 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.	
<b>Additional Standards</b>	
The product fulfills the requirements of:	
<b>Markings and Instructions</b>	
Clause Title	Marking or Instruction Details
Equipment identification marking – Manufacturer identification	Listee’s or Recognized Company’s name, Trade Name, Trademark or File Number
Equipment identification marking – model identification	Model Number
Equipment rating marking – ratings	Input Ratings (voltage, frequency/dc, current/power) Output Ratings (voltage, frequency/dc, current/power)
Equipment for use in location where children are not likely to be present	“This product is not suitable for use in locations where children are likely to be present” (Instruction)
Safety instructions	The following cautionary statement provided in the user manual. "The network camera is only intended for a connection to an ethernet or PoE network without routing to the outside plant."
<b>Special Instructions to UL Representative</b>	
N/A	

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

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

4.1.2	TABLE: List of critical components					Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Product Category CCN(s)	Mark(s) of conformity	Supplement ID
Lens Unit for WV-S2536LN, WV-S2536L	Tamron Co., Ltd.	DFC02N0100 (Marking: 0002N010)	--	--	--	
Focus motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	--	
Zoom motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	--	
Iris motor	Tamron Co., Ltd.	--	DC 0 - 5V, 90Ω/driving, 465Ω/braking	--	--	
IR switching motor	Tamron Co., Ltd.	--	DC 5V, 100Ω/phase	--	--	
Lens Unit for WV-S2536LTN, WV-S2536LT	RAYS Optics Inc.,	YC-356NA	--	--	--	
Focus motor	RAYS Optics Inc.,	--	DC 3.3V, 21Ω/phase	--	--	
Zoom motor	RAYS Optics Inc.,	--	DC 3.3V, 21Ω/phase	--	--	
Iris motor	RAYS Optics Inc.,	--	DC 3.5-5V, Drive coil: 190Ω, Damping coil: 465Ω/phase	--	--	
IR switching motor	RAYS Optics Inc.,	--	DC 3.5-5V, 190Ω/phase	--	--	
Multi-cable Connector (CN551)	Japan Solderless Terminal Mfg Co Ltd	Type H, Series GH (BM12B-GHS-TBT (LF)(SN))	AC/DC 100V, 1.0A	ECBT2	UL (E60389)	
LAN Connector (JK101)	YUQIU ELECTRONICS CO., LTD. (DONGGUAN YUQIU ELECTRONICS CO., LTD.)	RJ011-FD08S3B1G10	AC 150V, 0.5A Housing: V-0	QMFZ2	UL	

Lithium battery (B301)	Panasonic Corporation or Panasonic Corporation of North America	BR-1225 or BR-1225A	3.0V, 48mAh, Max. abnormal charging current: 3.0mA	BBCV2	UL (MH12210)	
Alternate	POWER GLORY BATTERY TECH (HK) CO., LTD.	BR1225	3.0V, 45mAh, Max. abnormal charging current: 10mA	BBCV2	UL (MH29853)	
IR LEDs (D911, D912)	OSRAM OPTO SEMICONDUCTOR S GMBH	SFH4715AS	3.15V, 1500mA, 5.8W.	--	--	
PCBs	Interchangeable	Interchangeable	Minimum V-1, minimum 130°C	ZPMV2	UL	
FPCs	Interchangeable	Interchangeable	Minimum V-1, Minimum 105°C	ZPKX2	UL	
Dome Cover	MITSUBISHI ENGINEERING-PLASTICS CORP	S-2000VUR(f1)	Min. 0.38mm thick, V-2	QMFZ2	UL (E41179)	
Alternate	Interchangeable	Interchangeable	Min. HB (Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL746C.)	QMFZ2	UL	
Inner Case	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	LN-1250G	Min. 1.0mm thick, V-0	QMFZ2	UL (E244324)	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
Lens Cover Mount	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	G-3420H	Min. 0.43mm thick, HB	QMFZ2	UL (E244324)	

Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
MOS Lower Case	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	L-1225L	Min. 0.40mm thick, min. V-2	QMFZ2	UL (E244324)	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
Lens Cover	CHANG CHUN PLASTICS CO., LTD.	4115	Min. 0.75mm thick, V-0	QMFZ2	UL (E59481)	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
IR-LED Shading Rubber	DOW TORAY CO., LTD.	RBB-6630-30	Min. 0.84mm thick, HB	QMFZ2	UL (E55519)	
Alternate	WYNCA TINYO SILICONE CO., LTD.	TY856 (Hardness: 30)	Min. 0.6mm thick	--	--	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
Top Cover	Interchangeable	ADC12	Aluminum, minimum 1.7 thickness.	--	--	
Base Cover	Interchangeable	ADC12	Aluminum	--	--	
Grommet	DOW TORAY CO., LTD.	RBB-6630-30	Min. 0.84mm thick, HB	QMFZ2	UL (E55519)	
Alternate	WYNCA TINYO SILICONE CO., LTD.	TY856 (Hardness: 30)	Min. 0.6mm thick	QMFZ2	UL (E207571)	
Alternate	WYNCA TINYO SILICONE CO., LTD.	TY856 (Hardness: 20)	Min. 0.6mm thick	QMFZ2	UL (E207571)	
Dome Seal Rubber	DOW TORAY CO., LTD.	RBB-6650-50	Min. 0.83mm thick, HB	QMFZ2	UL (E55519)	
Alternate	WYNCA TINYO SILICONE CO., LTD.	TY856 (Hardness: 50)	Min. 0.6mm thick, HB	QMFZ2	UL (E207571)	

Issue Date: 2022-01-13

Page 8 of 9

Report Reference #

E521573-A6028-UL

Revision Date: 2022-07-14

Case Seal Rubber	DOW TORAY CO., LTD.	RBB-6650-50	Min. 0.83mm thick, HB	QMFZ2	UL (E55519)	
Alternate	WYNCA TINYO SILICONE CO., LTD.	TY856 (Hardness: 50)	Min. 0.6mm thick, HB	QMFZ2	UL (E207571)	

## Enclosures

Type	Supplement Id	Description
Photographs	03-01	Overall View 1 for WV-S2536LN
Photographs	03-02	Overall View 2 for WV-S2536LN
Photographs	03-03	Overall View 3 for WV-S2536LN
Photographs	03-04	Internal View 1 for WV-S2536LN
Photographs	03-05	Internal View 2 for WV-S2536LN
Photographs	03-06	Internal View 3 for WV-S2536LN
Photographs	03-07	Lens Unit for WV-S2536LTN
Diagrams	04-01	Gasket Specifications
Manuals	06-01	Manual