

CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2209150-1
Report Reference E521573-20220225
Date 24-May-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**

AZOT7 - Audio/Video, Information and Communication
Technology Equipment Certified for Canada

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:

CSA C22.2 No. 62368-1:19, 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

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Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

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WV-S22500-F6L	AV, ITE, and AVICT Equipment
WV-S22500-V3L	AV, ITE, and AVICT Equipment
WV-S22600-V2L	AV, ITE, and AVICT Equipment
WV-S22700-V2L	AV, ITE, and AVICT Equipment



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WV-S22700-V2L	AV, ITE, and AVICT Equipment



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UL TEST REPORT AND PROCEDURE

Standard:	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)
Certification Type:	Listing
CCN:	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	Network Camera
Model:	1) WV-S22700-V2L, WV-S22600-V2L, WV-S22500-V3L 2) WV-S22500-F3L, WV-S22500-F6L
Rating:	1) 12 V d.c. 1.0 A, 48 V d.c.(PoE) 240 mA (Class0) 2) 12 V d.c. 880 mA, 48 V d.c.(PoE) 220 mA (Class0)
Applicant Name and Address:	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.

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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 indoor environment.

This equipment is supplied from the External Power Supply.

External Power Supply : Only connect 12 V DC Class 2 power supply (UL 1310/CSA 223) or limited power source (IEC/EN/UL/CSA 60950-1, IEC/EN/UL/CSA 62368-1 Annex Q).

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

For the IR LED and motors, they have already evaluated in other reports No. 50122677 001 and 50122677 003.

For the Clause 8.7, it has already evaluated in other report No. JP20WZ6Z 001.

Model Differences

Refer to Enclosure Id: 07-01 for details of model differences.

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	N/A
Pollution degree (PD)	PD 2
Manufacturer's specified T _{ma} (°C)	50
IP protection class	IPX0
Power systems	not AC mains
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	1000 m

Mass of equipment (kg)	0.8
Additional Information N/A	
Additional Standards The product fulfills the requirements of:	
Markings and Instructions	
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)
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
--	--	--	--	--	--

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 for WV-S22700- V2L, WV-22600-V2L	Tamron Co., Ltd.	DE011N00000 (Marking: 0090N000)	--	--	--	
Focus motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	(Tested in equipment)	
Zoom motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	(Tested in equipment)	
Iris motor	Tamron Co., Ltd.	--	DC 0 - 5V, 190Ω/driving, 465Ω/braking	--	(Tested in equipment)	
IR switching motor	Tamron Co., Ltd.	--	DC 5V, 100Ω/phase	--	(Tested in equipment)	
Lens Unit for WV-S22500- V3L	Tamron Co., Ltd.	DFC02N0100 (Marking: 0002N010)	--	--	--	
Focus motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	(Tested in equipment)	
Zoom motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	(Tested in equipment)	
Iris motor	Tamron Co., Ltd.	--	DC 0 - 5V, 190Ω/driving, 465Ω/braking	--	(Tested in equipment)	
IR switching motor	Tamron Co., Ltd.	--	DC 5V, 100Ω/phase	--	(Tested in equipment)	
Input Connector DC 12V (CN152)	SWITCH LAB INC. (SwichLab (ShangHai) Co., Ltd.)	ME040-350029401	AC 150V,12A (Specification ratings: AC300V, 10A)	XCFR2	UL	

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, PANASONIC CORPORATION OF NORTH AMERICA	BR-1225 or BR-1225A	3.0V, 48mAh Max. abnormal charging current: 3.0mA	BBCV2	UL	
Alternate	POWER GLORY BATTERY TECH (HK) CO., LTD.	BR1225	3.0V, 45mAh Max. abnormal charging current: 10mA	BBCV2	UL	
IR LEDs (D911, D912)	OSRAM OPTO SEMICONDUCTOR S GMBH	SFH4715AS	3.15V, 1500mA, 5.8W.	--	(Tested in TUV certified and test report.)	
PCBs	Interchangeable	Interchangeable	Minimum V-1, minimum 105°C	ZPMV2	UL	
FPCs	Interchangeable	Interchangeable	Minimum V-1 or VTM-1, Minimum 105°C	ZPXK2	UL	
Internal Cable	Interchangeable	Interchangeable	VW-1, Minimum 30V, Minimum 80°C	AVLV2	UL	
Dome Cover	MITSUBISHI ENGINEERING-PLASTICS CORP	S-2000VUR	Min. 0.38mm thick, V-2	QMFZ2	UL	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
Top Cover	Interchangeable	ADC12	Aluminum	--	(Tested in equipment)	
Inner Case	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD.	TN-7000	Min. 0.7mm thick, min. V-2	QMFZ2	UL	

Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
Base Cabinet	Interchangeable	ADC12	Aluminum	--	(Tested in equipment)	
IR-LED Shading Rubber	Dow Toray Co., Ltd.	RBB-6630-30	Min. 0.84mm thick, HB	QMFZ2	UL	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	Overall view_1
Photographs	03-02	Overall view_2
Photographs	03-03	Overall view_3
Photographs	03-04	Overall view_4
Photographs	03-05	Overall view_5
Photographs	03-06	Overall view_6
Photographs	03-07	Internal view_1
Photographs	03-08	Internal view_2
Photographs	03-09	PWB
Miscellaneous	07-01	Model Differences
Miscellaneous	07-02	Label
Miscellaneous	07-03	Label (for Models WV-S22500-F3L, WV-22500-F6L)

Item	Model	Basic model				Similar model	
		WV-S22700-V2L	WV-S22600-V2L	WV-S22500-V3L	WV-S22500-F3L *2)	WV-S22500-F6L *1) *2)	
Brand	i-PRO				i-PRO		
Resolution	8M	6M	5M	5M			
Optical zoom ratio	1.0x-2.0x		1.0x-3.1x		1x (Fixed)		
Lens type	Zoom Lens				Fixed Lens (Focus Length 3.2mm)	Fixed Lens (Focus Length 6.1mm)	
Destination	Worldwide				Worldwide		

*1) Tested model (Input test)

*2) Models without zoom and focus adjustment function

AUDIO OUT AUDIO IN

i-PRO
 Network Camera
 ネットワークカメラ
 Model No. WV-S22500-V3L
 POWER 12 V = 1.0 A
 PoE 48 V = 240 mA (Class0)
 i-PRO Co., Ltd. Engineered in Japan
 Made in China

CE c UL US LISTED
 L.T.E. E521573

EXT I/O 1 2 3 4
 1 ALARM IN1
 2 ALARM IN2
 3 ALARM IN3
 4 GND

i-PRO Co., Ltd. Fukuoka, Japan
 Authorized Representative in EU:
 i-PRO EMEA B.V.
 Laarderhoogtweg 25,
 1101 EB Amsterdam,
 Netherlands

CAN ICES-3 (A)/NMB-3(A)

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AUDIO OUT AUDIO IN

i-PRO
 Network Camera
 ネットワークカメラ
 Model No. WV-S22600-V2L
 POWER 12 V = 1.0 A
 PoE 48 V = 240 mA (Class0)
 i-PRO Co., Ltd. Engineered in Japan
 Made in China

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 1 ALARM IN1
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AUDIO OUT AUDIO IN

i-PRO
 Network Camera
 ネットワークカメラ
 Model No. WV-S22700-V2L
 POWER 12 V = 1.0 A
 PoE 48 V = 240 mA (Class0)
 i-PRO Co., Ltd. Engineered in Japan
 Made in China

CE c UL US LISTED
 L.T.E. E521573

EXT I/O 1 2 3 4
 1 ALARM IN1
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i-PRO
Network Camera
ネットワークカメラ
Model No. WV-S22500-F3L
POWER 12 V = 880 mA
PoE 48 V = 220 mA (Class0)
i-PRO Co., Ltd. Engineered in Japan
Made in China

AUDIO OUT / AUDIO IN

UL LISTED I.T.E. E521573

EXT I/O	1	2	3	4
	ALARM IN1	ALARM IN2	ALARM IN3	GND

CE

VCCI
FC

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Authorized Representative in EU:
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i-PRO
Network Camera
ネットワークカメラ
Model No. WV-S22500-F6L
POWER 12 V = 880 mA
PoE 48 V = 220 mA (Class0)
i-PRO Co., Ltd. Engineered in Japan
Made in China

AUDIO OUT / AUDIO IN

UL LISTED I.T.E. E521573

EXT I/O	1	2	3	4
	ALARM IN1	ALARM IN2	ALARM IN3	GND

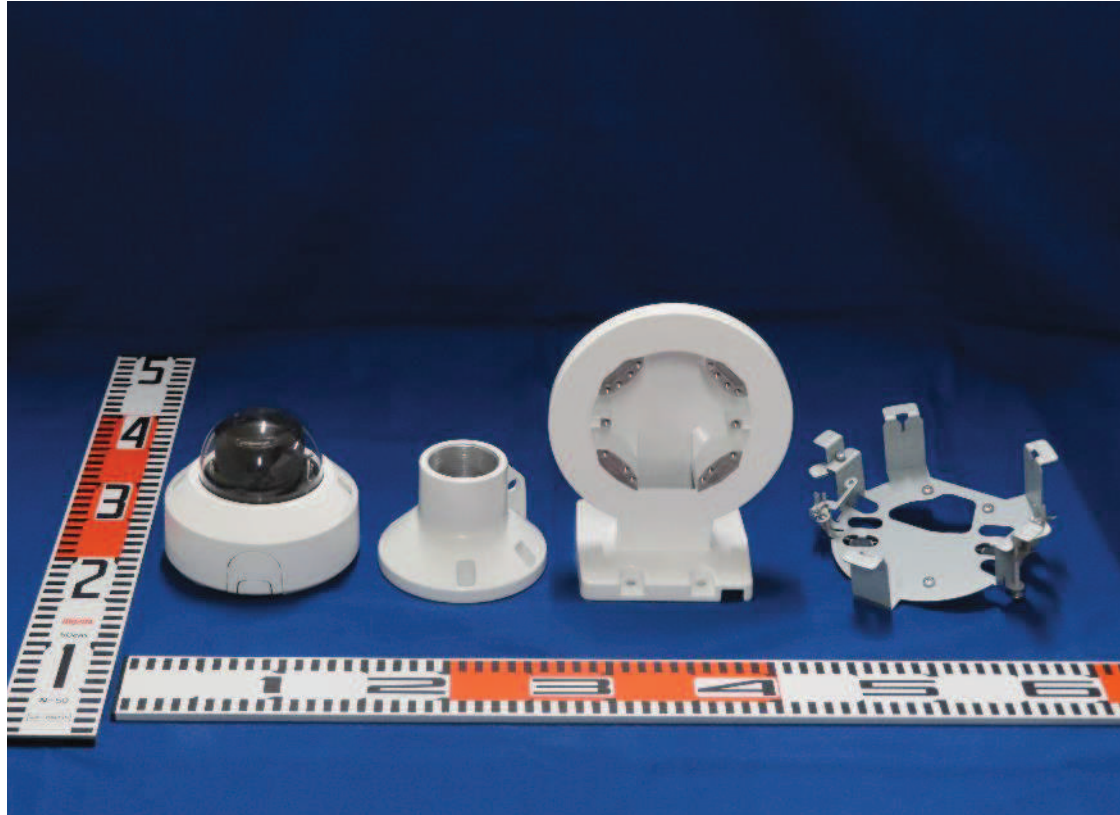
CE

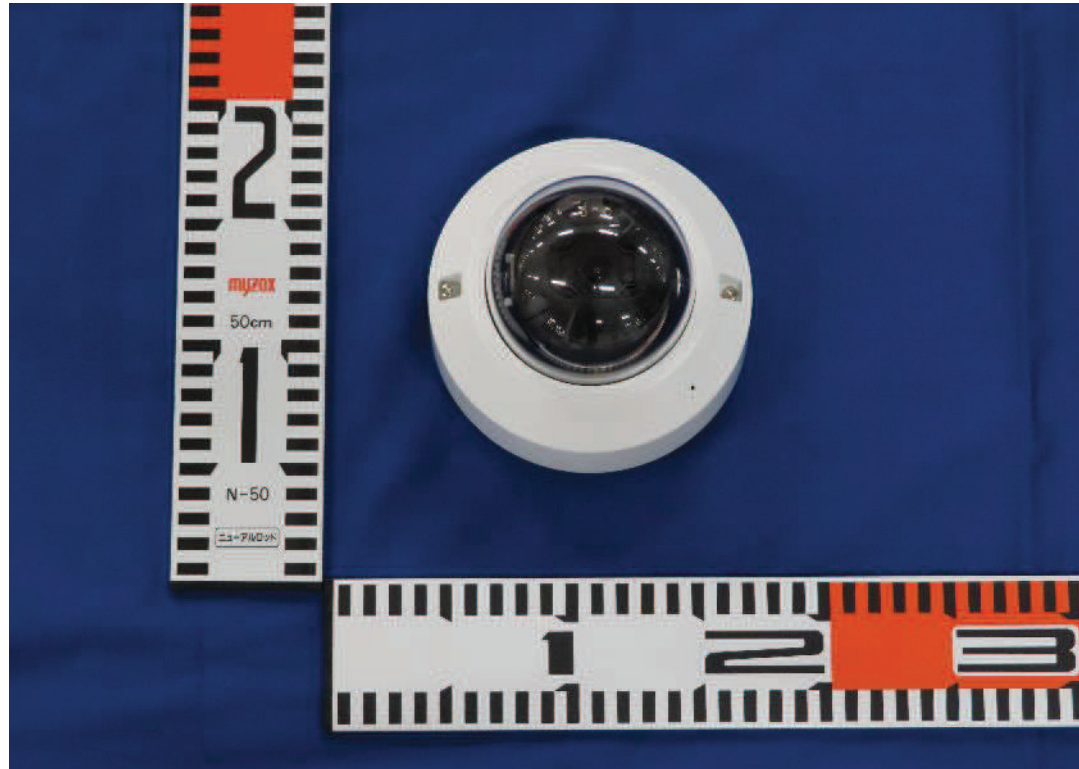
VCCI
FC

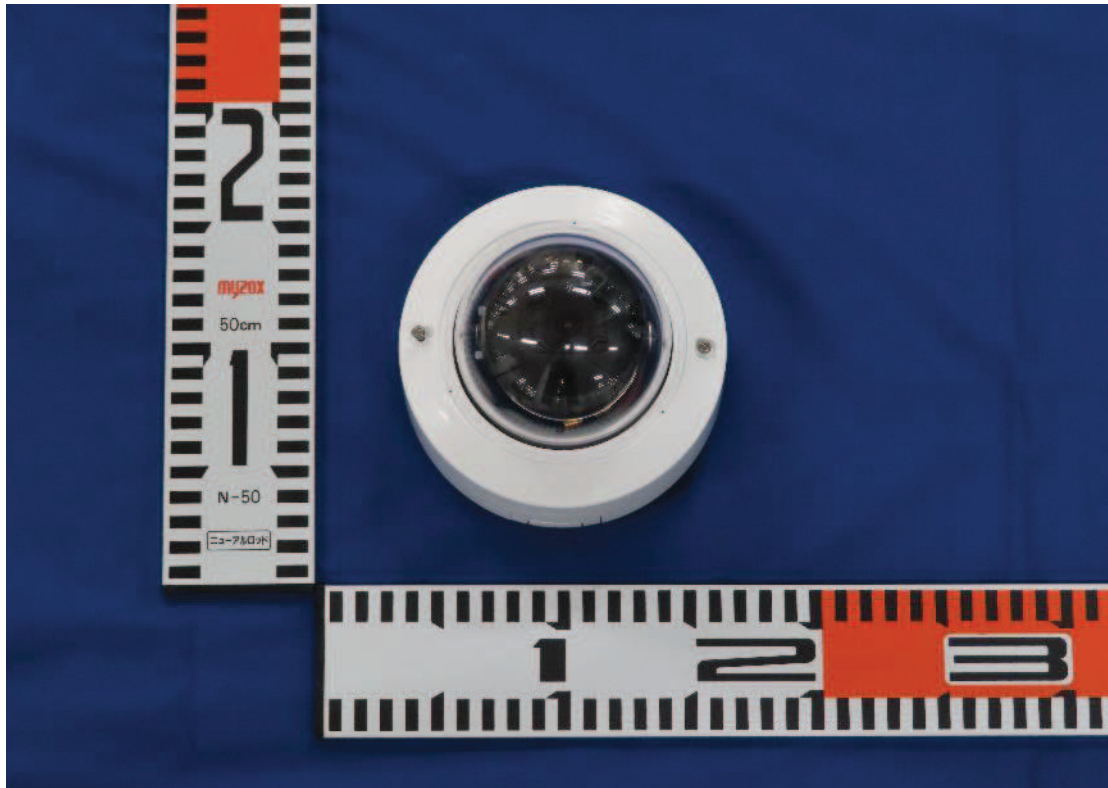
i-PRO Co., Ltd. Fukuoka, Japan
Authorized Representative in EU:
i-PRO EMEA B.V.
Laarderhoogtweg 25,
1101 EB Amsterdam,
Netherlands

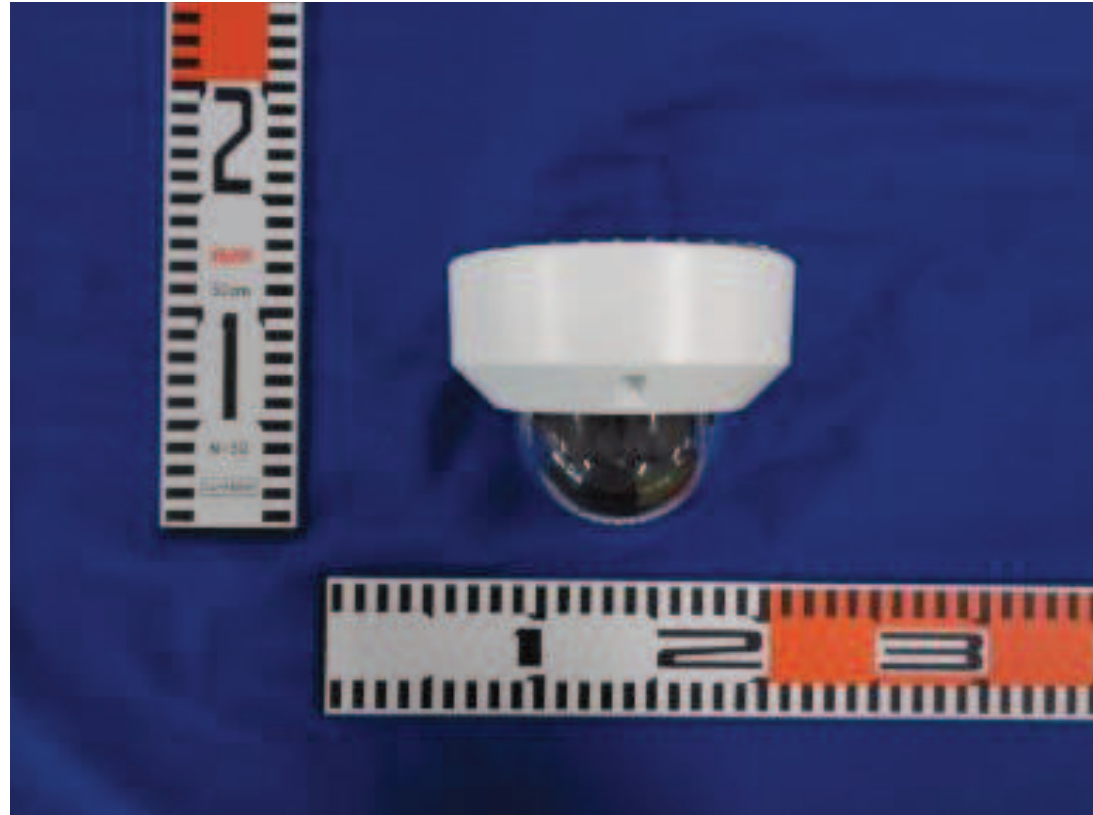
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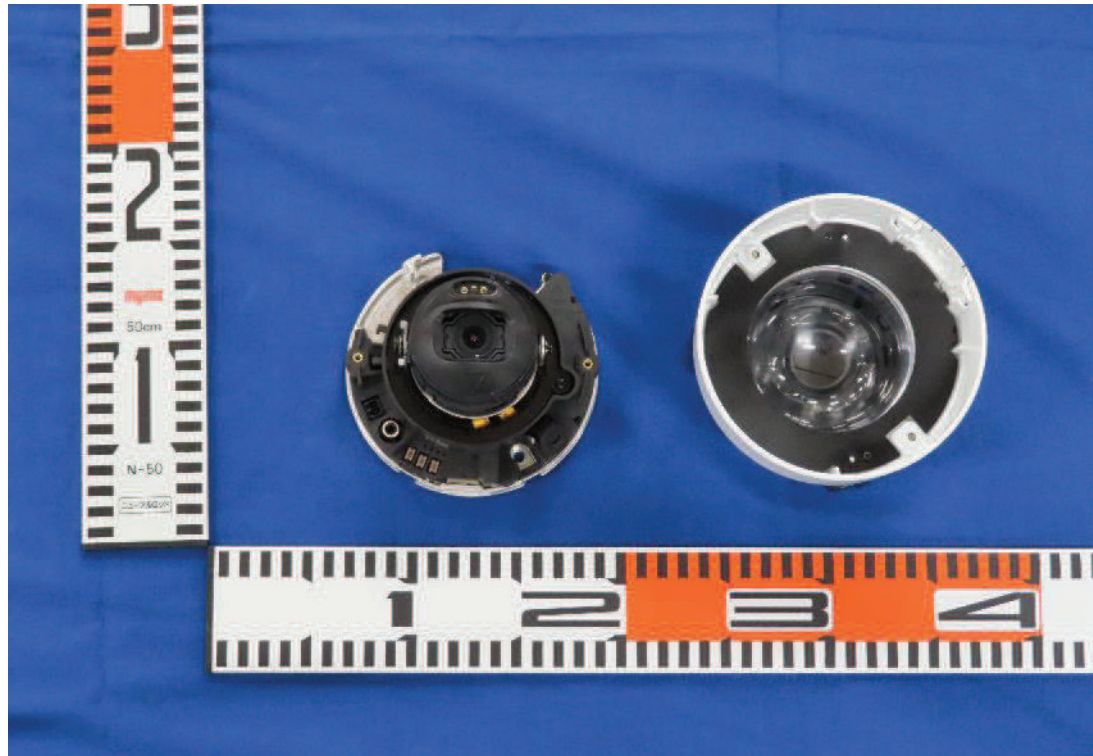


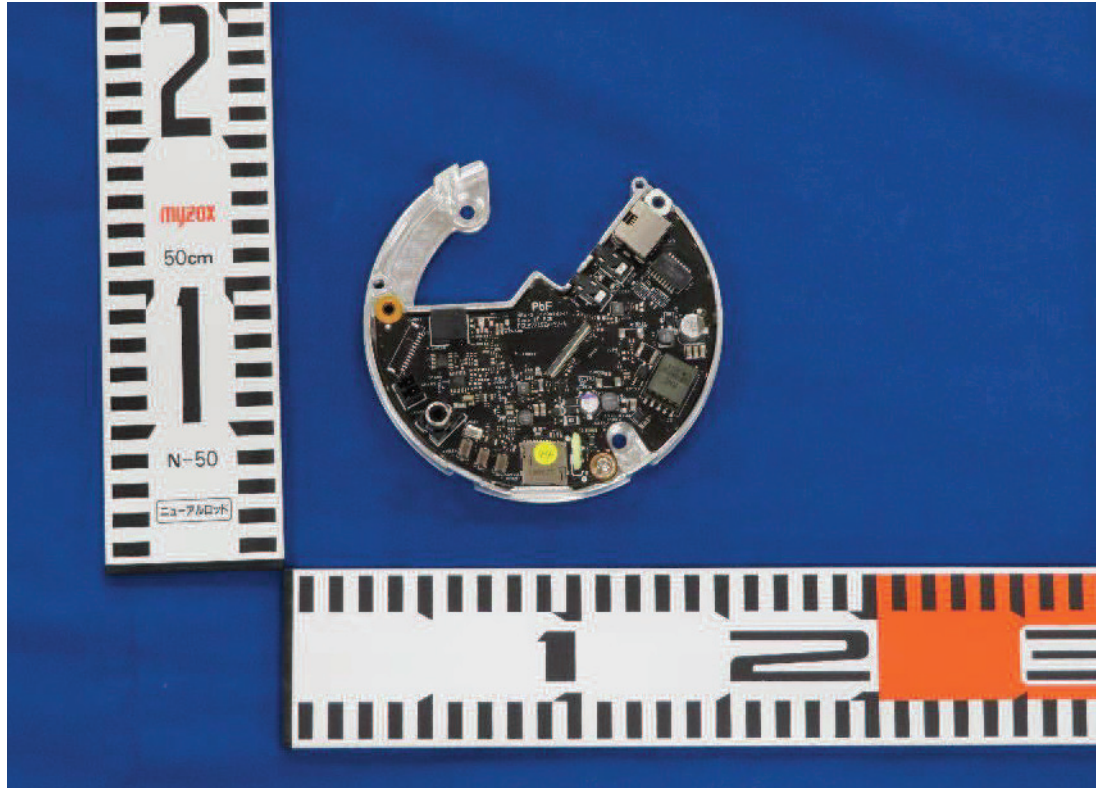


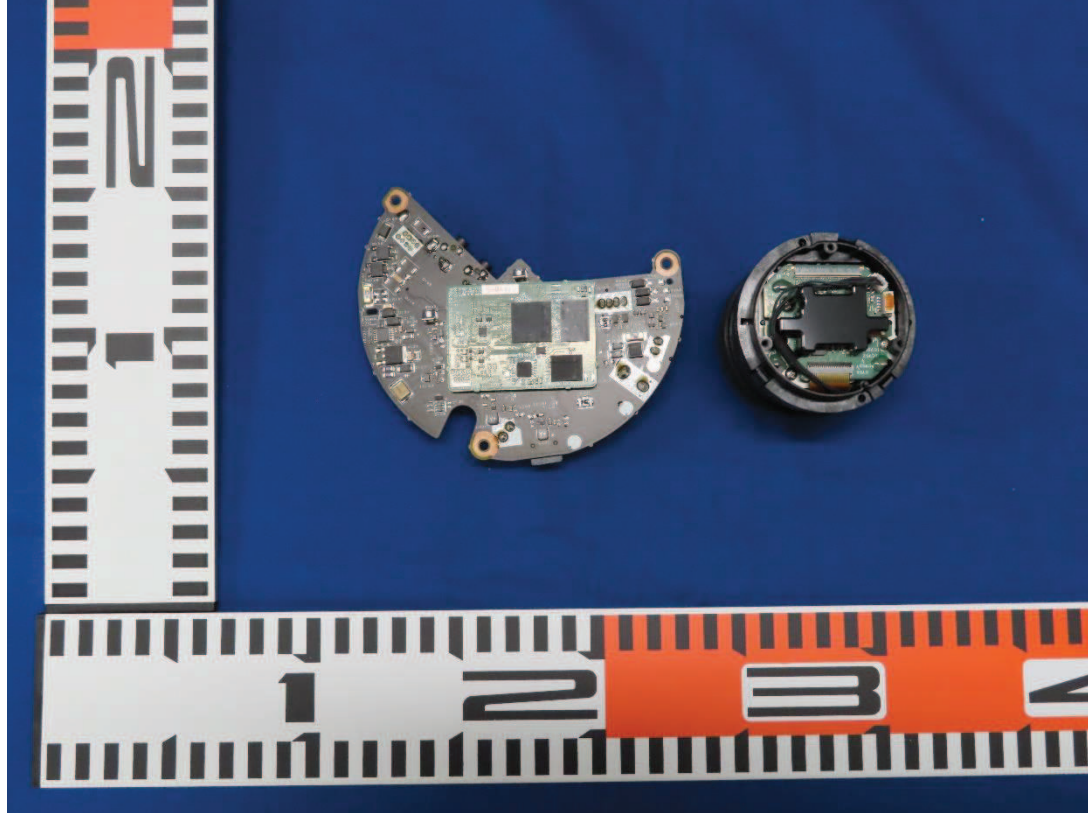












UL TEST REPORT AND PROCEDURE

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-S22700-V2L, WV-S22600-V2L, WV-S22500-V3L
Rating:	12 V d.c. 1.0 A, 48 V d.c.(PoE) 240 mA (Class0)
Applicant Name and Address:	Panasonic i-PRO Sensing Solutions Co., Ltd. 4-1-62 MINOSHIMA HAKATA-KU FUKUOKA-SHI FUKUOKA-KEN 812-8531 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: Kenshi Shimomura / 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 indoor environment.

This equipment is supplied from the External Power Supply.

External Power Supply : Only connect 12 V DC Class 2 power supply (UL 1310/CSA 223) or limited power source (IEC/EN/UL/CSA 60950-1, IEC/EN/UL/CSA 62368-1 Annex Q).

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

For the IR LED and motors, they have already evaluated in other reports No. 50122677 001 and 50122677 003.

For the Clause 8.7, it has already evaluated in other report No. JP20WZ6Z 001.

Model Differences

Refer to Enclosure Id: 07-01 for details of model differences.

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	N/A
Pollution degree (PD)	PD 2
Manufacturer's specified T _{ma} (°C)	50
IP protection class	IPX0
Power systems	not AC mains
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	1000 m
Mass of equipment (kg)	0.57

Additional Information

N/A

Additional Standards

The product fulfills the requirements of:

Markings and Instructions

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)

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
--	--	--	--	--	--

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 for WV-S22700- V2L, WV-22600-V2L	Tamron Co., Ltd.	DE011N00000 (Marking: 0090N000)	--	--	--	
Focus motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	(Tested in equipment)	
Zoom motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	(Tested in equipment)	
Iris motor	Tamron Co., Ltd.	--	DC 0 - 5V, 190Ω/driving, 465Ω/braking	--	(Tested in equipment)	
IR switching motor	Tamron Co., Ltd.	--	DC 5V, 100Ω/phase	--	(Tested in equipment)	
Lens Unit for WV-S22500- V3L	Tamron Co., Ltd.	DFC02N0100 (Marking: 0002N010)	--	--	--	
Focus motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	(Tested in equipment)	
Zoom motor	Tamron Co., Ltd.	--	DC 4.6V, 81Ω/phase	--	(Tested in equipment)	
Iris motor	Tamron Co., Ltd.	--	DC 0 - 5V, 190Ω/driving, 465Ω/braking	--	(Tested in equipment)	
IR switching motor	Tamron Co., Ltd.	--	DC 5V, 100Ω/phase	--	(Tested in equipment)	
Input Connector DC 12V (CN152)	SWITCH LAB INC. (SwichLab (ShangHai) Co., Ltd.)	ME040-350029401	AC 150V,12A (Specification ratings: AC300V, 10A)	XCFR2	UL	
LAN Connector (JK101)	YUQIU ELECTRONICS	RJ011- FD08S3B1G10	AC 150V, 0.5A, Housing: V-0	QMFZ2	UL	

	CO., LTD. (DONGGUAN YUQIU ELECTRONICS CO., LTD.)					
Lithium battery (B301)	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	BR-1225 or BR- 1225A	3.0V, 48mAh Max. abnormal charging current: 3.0mA	BBCV2	UL	
Alternate	POWER GLORY BATTERY TECH (HK) CO., LTD.	BR1225	3.0V, 45mAh Max. abnormal charging current: 10mA	BBCV2	UL	
IR LEDs (D911, D912)	OSRAM OPTO SEMICONDUCTOR S GMBH	SFH4715AS	3.15V, 1500mA, 5.8W.	--	(Tested in TUV certified and test report.)	
PCBs	Interchangeable	Interchangeable	Minimum V-1, minimum 105°C	ZPMV2	UL	
FPCs	Interchangeable	Interchangeable	Minimum V-1 or VTM- 1, Minimum 105°C	ZPXK2	UL	
Internal Cable	Interchangeable	Interchangeable	VW-1, Minimum 30V, Minimum 80°C	AVLV2	UL	
Dome Cover	mitsubishi ENGINEERING- PLASTICS CORP	S-2000VUR	Min. 0.38mm thick, V-2	QMFZ2	UL	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	
Top Cover	Interchangeable	ADC12	Aluminum	--	(Tested in equipment)	
Inner Case	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD.	TN-7000	Min. 0.7mm thick, min. V-2	QMFZ2	UL	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	

Base Cabinet	Interchangeable	ADC12	Aluminum	--	(Tested in equipment)	
IR-LED Shading Rubber	Dow Toray Co., Ltd.	RBB-6630-30	Min. 0.84mm thick, HB	QMFZ2	UL	
Alternate	Interchangeable	Interchangeable	Min. HB	QMFZ2	UL	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	Overall view_1
Photographs	03-02	Overall view_2
Photographs	03-03	Overall view_3
Photographs	03-04	Overall view_4
Photographs	03-05	Overall view_5
Photographs	03-06	Overall view_6
Photographs	03-07	Internal view_1
Photographs	03-08	Internal view_2
Photographs	03-09	PWB
Miscellaneous	07-01	Model Differences
Miscellaneous	07-02	Label

Item \ Model	Basic model		Similar model	
	WV-S22700-V2L *1)		WV-S22600-V2L	WV-S22500-V3L
Brand	i-PRO			
Resolution	8M	6M	5M	
Optical zoom ratio	1.0x-2.0x		1.0x-3.1x	
Destination	Worldwide			

*1) Tested model (All test items)

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 Made in China

CE c UL US LISTED
 L.T.E. E521573

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