





Report No.: HC70242/2019

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Date: August 8, 2019

VIVOTEK INC.

6F, NO. 192, LIEN-CHENG RD., CHUNG-HO, NEW TAIPEI CITY, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: IP CAMERA

Style/ Item No.: CC9381-HV/No.1

Manufacturer/ Vendor: Vivotek Inc.

Country of Origin: Taiwan

Quantity: Total 1 piece

Jul. 31, 2019 to Aug. 5, 2019 Testing Period:

We have tested the submitted sample(s) as requested and the following results were obtained: Test Required:

Test for Degrees of Protection Provided by Enclosures (IEC 60529 Edition 2.2: 2013)

IP Code IP66	
RIPSI Characteristic hilmerat	Degrees of protection against access to hazardous parts and against solid foreign objects
Second characteristic numeral	Degrees of protection against ingress of water

Test Results:

Conclusion

Submittals sample(s) comply with the requirement and acceptance conditions of IEC 60529 Edition 2.2: 2013 Degrees of Protection Provided by Enclosures -- IP66 The detailed description of test result, please see attached sheet(s).

> Signed for and on behalf of SGS TAIWAN Ltd.

Hank Chiou Sr. Supervisor

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Test for Degrees of Protection Provided by Enclosures:

Test Equipment:

Name	Brand	Model	Serial No.
1.0 mm Test Wire Probe	ED&D	TRP-02	L12470907
Digital Force Gauge	ALGOL	HF-50	HF-106764
Dust Tester	T-MACHINE	TMJ-9723S	T-23-110708
IPX6 Water Jet Hose Nozzle Set	PTL	P03.28	5040045

Lab Environmental Conditions:

Ambient temperature: (15 ~ 35)°C Ambient humidity: $(25 \sim 75)$ % RH

No.33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Test Location:

Taipei City, Taiwan

Test Method/ Specification:

Test method: IEC 60529 Edition 2.2: 2013 -- IP66 1. Test for protection against access to hazardous parts:

The test wire with 1.0 mm in diameter and 100 mm long is pushed against Test method:

> or inserted through any openings of the enclosure with designated force. Examine whether the test wire touches the hazardous live parts inside the

enclosure or not.

Test force: 1 N±10 %

2. Test for protection against solid foreign objects:

Test method: Dust test

Sample condition: Non-Operating Category of enclosure: Category 1 Type of dust: Talcum powder

The amount of dust: 2 kg per cubic meter of the chamber volume

The maximum depression: < 20 mbar Test duration: 8 hours

• Examine the protection against ingress dust of specimen(s) after this test.

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Test Method/ Specification--Continued:

3. Test for protection against water:

Sample condition: Non-Operating

Internal diameter

of the nozzle: 12.5 mm

Delivery rate: 100 ℓ /minute $\pm 5\%$

Distance from nozzle

to enclosure surface: between 2.5 m and 3 m

Core of the substantial

circle of approximately 120 mm diameter at 2.5 m distance from nozzle stream:

Test duration: Total 3 minutes

Examine the protection against ingress water of specimen after this test.

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Specimen:

Style/ Item No.: CC9381-HV/No.1

Quantity: Total 1 piece

Test Result:

A. Degrees of protection against access to hazardous parts and against solid foreign objects (IP6X)

A-1 Test for protection against access to hazardous parts (IP6X)

Test Result		
	Style/ Item No.	
Check Item	CC9381-HV/ No.1	
1 Does the test wire penetrate any openings of the enclosure?	No	
(followed check item 1) If the test wire penetrates any openings of the enclosure, does the test wire touch any hazardous live parts or any hazardous mechanical parts?	N/A	
(followed check item 2) Does adequate clearance be kept between the test wire and hazardous live parts or hazardous mechanical parts?	N/A	

Note 1: N/A means "Not Applicable".

Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.

A-2 Test for protection against solid foreign objects (IP6X)

Test Result		
Charle Harry	Style/ Item No. CC9381-HV/ No.1	
Check Item		
1 Does any dust deposit inside the enclosure?	No	

Note 1: N/A means "Not Applicable".

Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.

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Test Result--Continued:

B. Degree of protection against ingress of water (IPX6)

Test Result		
Check Item		Style/ Item No.
		CC9381-HV/ No.1
1	Does any water enter the enclosure?	No
2	(followed check item 1) If any water has entered, does the water accumulate near the cable end or live parts?	N/A
2.1	(followed check item 2) Does the water be sufficient to interfere with the correct operation of the equipment or impair safety?	N/A
2.2	(followed check item 2.1) Does the water deposit on insulation parts where it could lead to tracking along the creepage distances?	N/A
2.3	(followed check item 2.2) Does the water reach live parts or windings not designed to operate when wet?	N/A

Note 1: N/A means "Not Applicable".

Note 2:The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.

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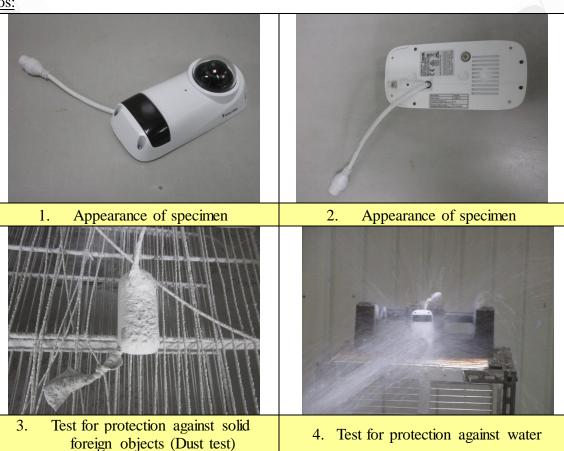
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Test Photos:



The End of Test Report -

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