TEST REPORT
IEC 60529
Degrees of protection provided by enclosures (IP code)

Application No.:	DNT2510220424S11871-14875
Applicant:	Shenzhen Houtian Network Communication Technology Co., Ltd
Address of Applicant:	Floor 3, Building B, No. 29, Longfeng Road, Longgang District, Shenzhen City
Manufacturer:	Shenzhen Houtian Network Communication Technology Co., Ltd
Address of manufacturer:	Floor 3, Building B, No. 29, Longfeng Road, Longgang District, Shenzhen City
Factory:	N/A
Address of factory:	N/A
EUT Description:	WiFi Bridge Repeater Router
Model No.:	VBGO-5G
Power Supply:	/
Trade Mark:	N/A
Standards:	IEC 60529:1989+A1:1999+A2:2013
Test procedure:	Test report
Non-standard test method:	N/A
Date of issue:	November 18, 2025
IP degrees:	IP6X
Date of receipt:	2025-10-23
Date of test:	2025-10-23 to 2025-11-17
Test Result:	Pass

Prepared By: Joe Huang

Reviewed By: Harry Long

Approved By: Andy Ye

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Possible test case verdicts: - test case does not apply to the test object : N (N/A) - test object does meet the requirement : P (Pass) - test object does not meet the requirement : F (Fail)
General remarks: Throughout this report a point is used as the decimal separator. The test results presented in this report relate only to the object tested.
Model difference description: /
Comments: 1. One sample were tested and the results complied with the requirement of the standard. 2. EUT checked for functionality after testing was completed. EUT can work normally.

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Clause	Requirement + Test	Result - Remark	Verdict
11	**General requirements for tests**		P
11.1	Atmospheric conditions for water or dust tests	25.6ºC,57%R.H, 100 kPa	P
11.2	Test samples	The tests specified in this standard are type tests.	P
11.3	Application of test requirements and interpretation of test results		P
11.4	Combination of test conditions for the first characteristic numeral		N/A
11.5	Empty enclosures	Test with equipment inside	N/A
12	**Test for protection against access to hazardous parts indicated by the fist characteristic numeral**		N/A
12.1	Access probes		N/A
12.2	Test conditions		N/A
12.3	Acceptance conditions		N/A
12.3.1	For low-voltage equipment. (Rated voltage not exceeding 1000V a.c. and 1500V d.c.)		N/A
12.3.2	For high-voltage equipment (Rated voltage exceeding 1000V a.c. and 1500V d.c.)		N/A
12.3.3	For equipment with hazardous mechanical parts		N/A
13	**Test for protection against solid foreign objects indicated by the first characteristic numeral**		P
13.1	Test means	IP6X	P
	Test means and the main test conditions are given in table 7		P
13.2	Test conditions for first characteristic numerals 1, 2, 3, 4		N/A
13.3	Acceptance conditions for first characteristic numerals 1, 2, 3, 4		N/A
13.4	Dust test for first characteristic numerals 5 and 6		P
13.5	Special conditions for first characteristic numeral 5		N/A
13.5.1	Test conditions for first characteristic numeral 5		N/A
13.5.2	Acceptance conditions for first characteristic numeral 5		N/A
13.6	Special conditions for first characteristic numeral 6		P
13.6.1	Test conditions for first characteristic numeral 6	Test duration: 8hrs	P

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Clause	Requirement + Test	Result - Remark	Verdict
13.6.2	Acceptance conditions for first characteristic numeral 6	No dust has entered.	P
14	**Test for protection against water indicated by the second characteristic numeral**		N/A
14.1	The test means and the main test conditions are given in table 8		N/A
14.2	Test conditions		N/A
	Test means and main test conditions are given in table 8		N/A
	During the tests for IPX1 TO IPX6 the water temperature should not differ by more than 5K from the temperature of the specimen under test		N/A
	For IPX7 details of the water temperature are given in 14.2.7		N/A
	Test for second characteristic numeral 8, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe than those prescribed in 14.2.7 and they shall take account of the condition than the enclosure will be continuously immersed in actual use		N/A
14.2.1	Test for second characteristic numeral 1 with the drip box		N/A
14.2.2	Test for second characteristic numeral 2 with the drip box		N/A
14.2.3	Test for second characteristic numeral 3 with oscillating tube or spray nozzle		N/A
14.2.4	Test for second characteristic numeral 4 with oscillating tube or spray nozzle		N/A
14.2.5	Test for second characteristic numeral 5 with the 6.3mm nozzle		N/A
14.2.6	Test for second characteristic numeral 6 with the 12.5mm nozzle		N/A
14.2.7	Test for second characteristic numeral 7: temporary immersion between 0.15m and 1m		N/A
	The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied		N/A
	a) the lowest point of enclosures with a height less than 850mm is located 1000mm below the surface of the water		N/A
	b) the highest point of enclosures with a height equal to or greater than 850mm is located 150mm below the surface of the water		N/A

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	c) the duration of the test is 30min		N/A
	d) the water temperature does not differ from that of the equipment by more 5K		N/A
14.2.8	Test for second characteristic numeral 8: continuous immersion subject to agreement		N/A
14.2.9	Test for second characteristic numeral 9 by high pressure and temperature water jetting		N/A
	The test is made by spraying the enclosure with a stream of water from a standard test nozzle as shown in Figures 7, 8 and 9.		N/A
	The set-up for measuring the impact force of the water jet is given in Figure 10.		N/A
	The distribution force shall be verified at upper and lower limits of distance tolerance range (see Figure 11).		N/A
	a) For small enclosures (largest dimension less than 250 mm), the enclosure shall be mounted on the test device shown in Figure 12.		N/A
	b) For large enclosures (largest dimension greater than or equal to 250 mm), the enclosure shall be mounted as per intended use. The entire exposed surface area of the enclosure shall be subjected to the spray at some point during the test procedure.		N/A
14.3	After testing in accordance with the appropriate requirements of 14.2.1 to 14.2.9 the enclosure shall be inspected for ingress of water	No water has entered.	N/A
	It is the responsibility of the relevant technical committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test		N/A
	In general, if any water has entered, it shall not:		N/A
	–be sufficient to interfere with the correct operation of the equipment or impair safety		N/A
	–deposit on insulation parts where it could lead to tracking along the creepage distances		N/A
	–reach live parts or windings not designed to operated when wet		N/A
	–accumulate near the cable end or enter the cable if any		N/A
	If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment		N/A

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	For enclosure without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts		N/A
15	**Test for protection against access to hazardous parts indicated by the additional letter**		N/A
15.1	Access probes	No additional letter	N/A
	The access probe are given in table 6		N/A
15.2	Test conditions		N/A
	The access probe is pushed against any openings of the enclosure with the force specified in table 6		N/A
15.3	Acceptance conditions		N/A
	Test for the additional letter B		N/A
	Test for the additional letter C and D		N/A

PHOTO

Figure 1: Before test

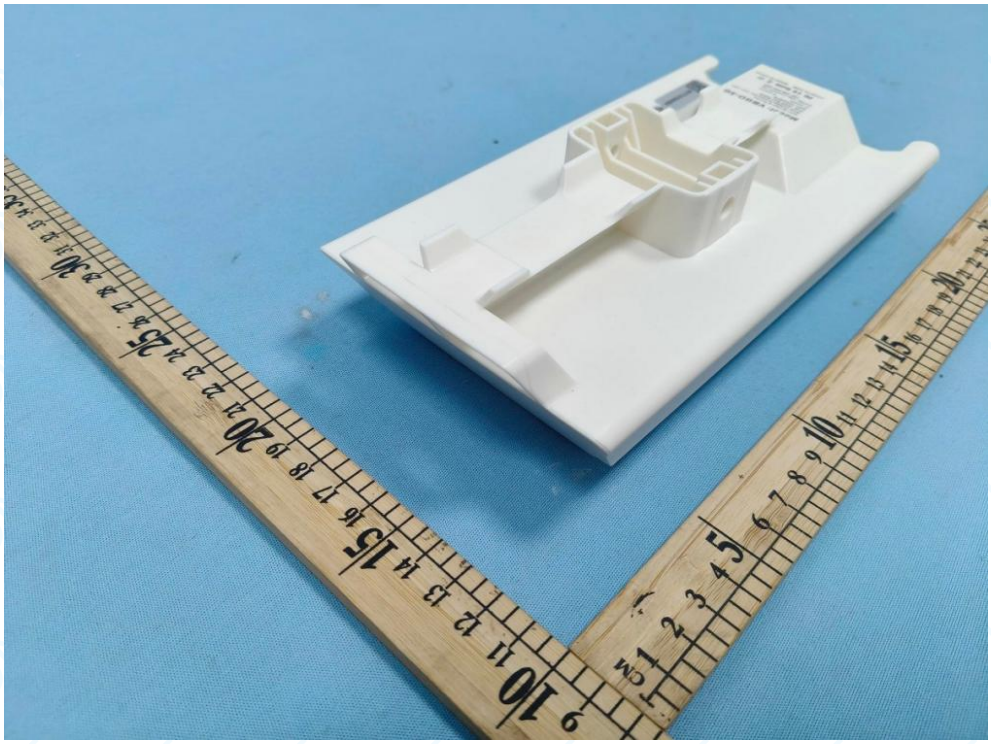

Figure 2: Before test

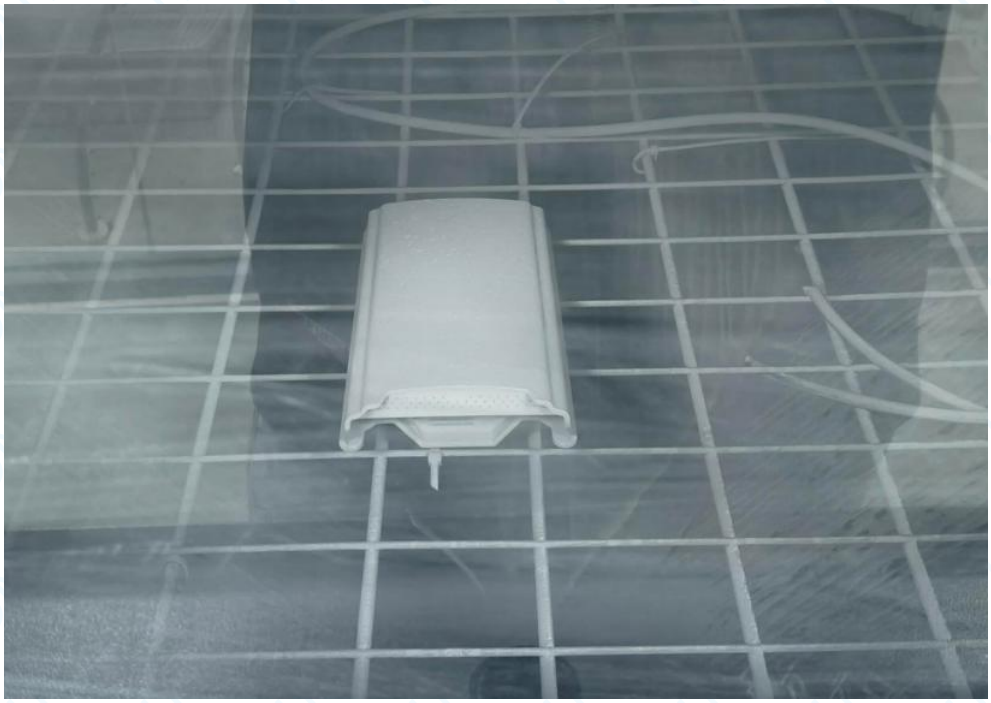

Figure 3: IP6X test on-going

Figure 4: After IP6X test

*** End of Report ***