



中国认可  
国际互认  
检测  
TESTING  
CNAS L0296

180009010947 (2018)国认监认字(179)号

# 检 验 报 告

## TEST REPORT



北京尊冠科技有限公司  
Beijing Zunguan Science & Technology Ltd.  
国家电子计算机质量监督检验中心  
China National Computer Quality Supervising Test Center



# TEST REPORT

No: A20181065

Product : DELiDAR

Model and specification : CE30-D

Client : Establishment of Benewake (Beijing) Co. Ltd.

Factory : Establishment of Benewake (Beijing) Co. Ltd.

Test sort : Commission Test



# China National Computer Quality Supervising Test Center

## TEST REPORT

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Product	DELIDAR	Model and specification	CE30-D
Client	Establishment of Benewake (Beijing) Co. Ltd.	Trade Mark	Benewake
Client Address	10/F, Block A, Keshi Building, No.28 Xinx Road, Haidian District, Beijing 100085, China	Test Sort	Commission Test
Factory	Establishment of Benewake (Beijing) Co. Ltd	Product Date	/
Sampler	/	Sample Date	/
Sender	Feng Yuzhi	Receipt Data	Aug.10th,2018
Place	/	Base	
Test Period	Aug.11th,2018	Number	1
Test Item	Degrees of protection provided by enclosure (IP code)		
Test Specifications	GB/T 4208-2017 Degrees of protection provided by enclosure (IP code)		
Test Conclusion	According to list Standards and Requirements, The test sample passed all test items.		
Remarks			



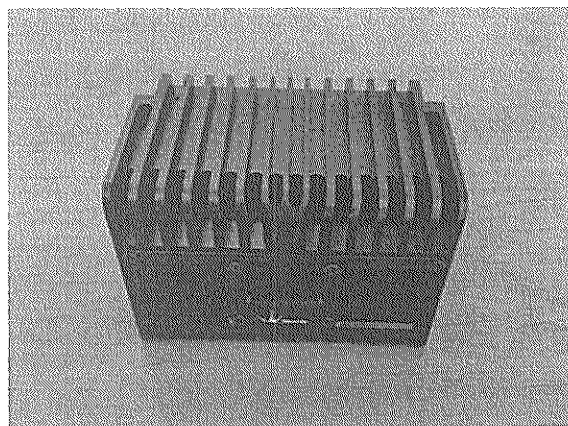
Approver:  Audit:

肖珊慧

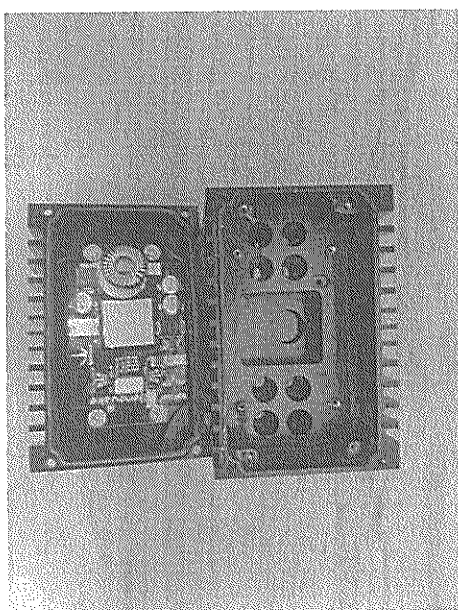
Checker: 

	Serial	Equipment Description	Model / Specification	To Use
	1	Sand dust test chamber	SC-010	✓
Mostly Apparatus and Equipment	2	IP1X-IP6X test tool	/	✓
	3	Rain test equipment	IPX1-IPX8	✓
	Mostly apparatus and equipment make use of “ ✓ ”			
Sample Number	Sample Status			
	Produce number		Test items	
001	/		Degrees of protection provided by enclosure (IP code)	

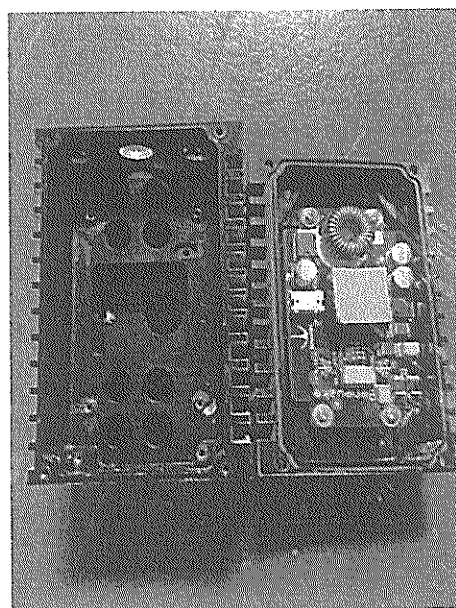
Test Item		Test Requirement	Test Result	
			001	
Degrees of protection provided by enclosure (IP code)	1. Dustproof sealing test	<p>Test requirements: Degrees of protection provided by enclosure (IP6X)</p> <p><b>1. Protection against dangerous parts</b></p> <p>Test conditions:</p> <p>Diameter: <math>\phi 1 + 0.05 - 0</math> mm</p> <p>Test tool: Rigid wire with insulated baffle for testing metal wire (<math>100 \pm 0.2</math>) mm</p> <p>Test force: <math>1N \pm 0.1N</math></p> <p>Decision requirements:</p> <p>Rigid test wires must not enter the shell. Adequate clearance should be kept with charged parts.</p> <p><b>2. Protection against entry of solid foreign matter</b></p> <p>Test conditions:</p> <p>talcum powder: (Sifted by metal square hole sieve which the wire diameter is <math>50 \mu m</math> and the sieve size is <math>75 \mu m</math>.)</p> <p>Talcum powder dosage: <math>2kg/m^3</math></p> <p>Enclosure species: The first type</p> <p>Pumping condition: If the maximum pressure difference is <math>2kPa</math>. And the pumping speed is <math>40 \sim 60</math> times enclosure volume per hour. Then the test finished until the pumping time is up to <math>2h</math>.</p> <p>Test time: <math>2h</math></p> <p>Test Status: No electricity</p> <p>Decision requirements: If there is no apparent dust deposition in the enclosure after the test, the test results conform to the requirements.</p>	Metal wires can not enter any openings. There is no dust in the enclosure after the test.	Pass
	2. Waterproof test	<p>Test requirements: Degrees of protection provided by enclosure (IPX5)</p> <p>Test conditions:</p> <ol style="list-style-type: none"> <li>Nozzle inner diameter</li> <li>water flow (<math>12.5 \pm 0.625</math>) L/min</li> <li>Water spraying time per square metre on shell surface</li> <li>Test time: At least <math>3min</math></li> <li>Distance from nozzle to shell surface: <math>2.5m \sim 3m</math></li> <li>The central part of the main stream: The circle with diameter of <math>40mm</math> from the nozzle <math>2.5m</math>.</li> <li>All possible directions for sprinkling water</li> </ol> <p>Test Status: No electricity</p> <p>Decision requirements: Check for water in the enclosure after the test. If there is water that it should not be enough to affect the normal operation or damage safety of the sample. Water does not accumulate on insulation parts that may cause creepage traces along creepage distances. Water does not enter into a charged part or Enter the windings that are not allowed to run in a wet state. Water does not accumulate near the head of the cable or into the cable.</p>	There is no water in the enclosure after the test.	Pass
<p>Test Specification:</p> <p>GB/T 4208-2017 Degrees of protection provided by enclosure (IP code)</p> <p>Test Status: Visual inspection.</p>				
Remarks: /				



Sample appearance photos



Photos after waterproofing test



Photos after dust-proof test

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**Note**

1. The test report have to attend appropriative of inspection, an official stamp and a seal on the perforation.
2. The copy reversion have to attend appropriative of inspection, an official stamp and a seal on the perforation.
3. The test report has to include Approver, Auditor and checker signed or appended.
4. Inspection items or standards which sign '☆' means that Not within the scope of authorization by CNAS.
5. The information about sample on home page of test report is statement by client.
6. The test report content modified or copy of part will invalidation.
7. If have any doubted of the test report, please immediately inform NCTC.
8. The inspection report is only applicable to the tested samples.

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