



Test Report issued under the responsibility of:



The following sample(s) was/were submitted and identified on behalf of the client as:

<b>TEST REPORT</b>	
<b>Road vertical signs - Variable message traffic signs Water penetration test and Dust penetration test in accordance with EN12966-1: 2005 + A1:2009</b>	
<b>Report Reference No.</b> .....	GZES231102107504
<b>Tested by (name + signature)</b> .....	Julian Zhang/Alex Tan <i>Julian Zhang Alex Tan</i>
<b>Approved by (+ signature)</b> .....	Ivory Lu <i>Ivory Lu</i>
<b>Date of issue</b> .....	2025-04-10; <b>Amendment 01: 2026-02-02</b>
<b>Total number of pages</b> .....	12
<b>Testing Laboratory</b> .....	<b>SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch</b>
<b>Address</b> .....	198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China
<b>Applicant's name</b> .....	Shenzhen Chip Optech Co., Ltd.
<b>Address</b> .....	5th Floor, Tower C, Baoshi Technological Park, Baoshi Road, Shiyuan Street, Bao'an District, Shenzhen, China
<b>Test specification:</b>	
<b>Test procedure</b> .....	EN12966-1: 2005 + A1:2009 EN 60529: 1991 + A1 :2000 + A2: 2013
<b>Non-standard test method</b> .....	None
<b>Test Report Form No.</b> .....	EN 12966-1_B_ IP-Level
<b>Test Report Form(s) Originator</b> .....	SGS-CSTC
<b>Master TRF</b> .....	2025-07-30



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<b>Test item description.....:</b>	LED Display Screen
<b>Model/Type reference.....:</b>	VMS16S-4535RGB, <b>VMS10S-4535RGB</b>
<b>Ratings .....</b>	100-240Va.c.; 50/60Hz; 1,5A Max
<b>Brand name .....</b>	—
<b>Manufacturer .....</b>	Same as applicant
<b>Factory.....:</b>	Huizhou Mepro Optech Co., Ltd. Tower 12, Xinhua Av. No 6, Chenjiang Street, Zhongkai Hi-Tech District, Huizhou, China
<b>Summary of testing:</b>	
<p>1. <b>This report is based on the original test report GZES231102107504, dated 2025-04-10 and all test data refer to this report except the following changes:</b></p> <ul style="list-style-type: none"> <li>- <b>Added 1 new model: VMS10S-4535RGB</b></li> <li>- <b>The new model has a similar construction to the original model VMS16S-4535RGB except for the LED module size and pitch.</b></li> <li>- <b>After review, no additional test was considered necessary.</b></li> </ul>	
<b>Tests performed:</b>	
<p>When determining the test conclusion, the Measurement Uncertainty of test has been considered.</p> <p>The sample(s) tested according to EN12966-1: 2005 + A1:2009 and EN 60529: 1991 + A1 :2000 + A2: 2013, and the result complied with Water penetration test and Dust penetration test (IP56).</p>	
<b>Dust Penetration test (IP5X)</b>	
<ol style="list-style-type: none"> <li>1. The enclosure is deemed category 2;</li> <li>2. Depression: 2 kPa;</li> <li>3. Extraction rate: 20 Volumes;</li> <li>4. Test time: 8 h.</li> <li>5. Test unit powered ON and functional test continuously repeated after the test.</li> </ol>	
<b>Water Penetration test (IPX6)</b>	
<ol style="list-style-type: none"> <li>1. The sample the sample was placed in the most unfavourable position according to normal using condition;</li> <li>2. Switched ON and immediately subjected to a water jet from all directions. The distance from the nozzle to the sample is 2.5 m Delivery rate: 100 l/min.</li> <li>3. Test duration: 3 min.</li> <li>4. Test unit powered ON and functional test continuously repeated during the test.</li> </ol>	



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**Possible test case verdicts:**

- test case does not apply to the test object .....: N (or N/A)
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

**Testing**.....:

Date of receipt of test item .....: 2023-11-28  
Date (s) of performance of tests .....: 2024-11-04 to 2024-11-06

**General remarks:**

The test results presented in this report relate only to the object tested.  
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"(see Enclosure #)" refers to additional information appended to the report.  
"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

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**General product information:**

The product VMS is an outdoor full-color LED display. Each element has three LED dies including red, green and blue. The other colors could be displayed by the driver and software. The equipment under test, consists of a Variable Message Sign (VMS), made of metal and plastic enclosure.

The main technical characteristics are stated as below.

Function	LED Display Screen
<b>Electrical Specifications</b>	
Nominal voltage (V)	AC 100-240
Nominal frequency (Hz)	50 / 60
Nominal full load current (A)	0,2
Max. power consumption (W)	40
<b>Physical Characteristics</b>	
Construction:	metal and plastic enclosure, fixed by screws
Working temperature (°C)	T1/T3
Pollution	D3
Mechanical protection	P3 (IP56)
<b>Structure Characteristics</b>	
Applications	Outdoor
Size of cabinet (mm) (H × W × D)	639 × 639 × 120
Weight of cabinet (kg)	18

The VMS module consists of Power Supply, Filter, Control System and LED panel.

<b>LED module specifications</b>	
Module size (mm) (H × W)	VMS16S-4535RGB: 256 x 256; <b>VMS10S-4535RGB: 320 x 160</b>
Dots per module (H × W)	VMS16S-4535RGB:16 x16; <b>VMS10S-4535RGB:32 x 16</b>
Pitch (mm)	VMS16S-4535RGB:16; <b>VMS10S-4535RGB:10</b>
Single LED parameters	physical dimension: 4,5 x 3,5 mm wavelength (nm): R:620-625 G:531-534 B:469-472



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**Appended table**

The test results for each test performed on the sample are shown in the table below.

/	IP 56	
Test	IP5X	IPX6
Results	P	P
Note	The visual examination showed no talcum inside the sample after test. Function check passed after test.	The visual examination showed no water inside the sample after test. Function check passed during and after test.



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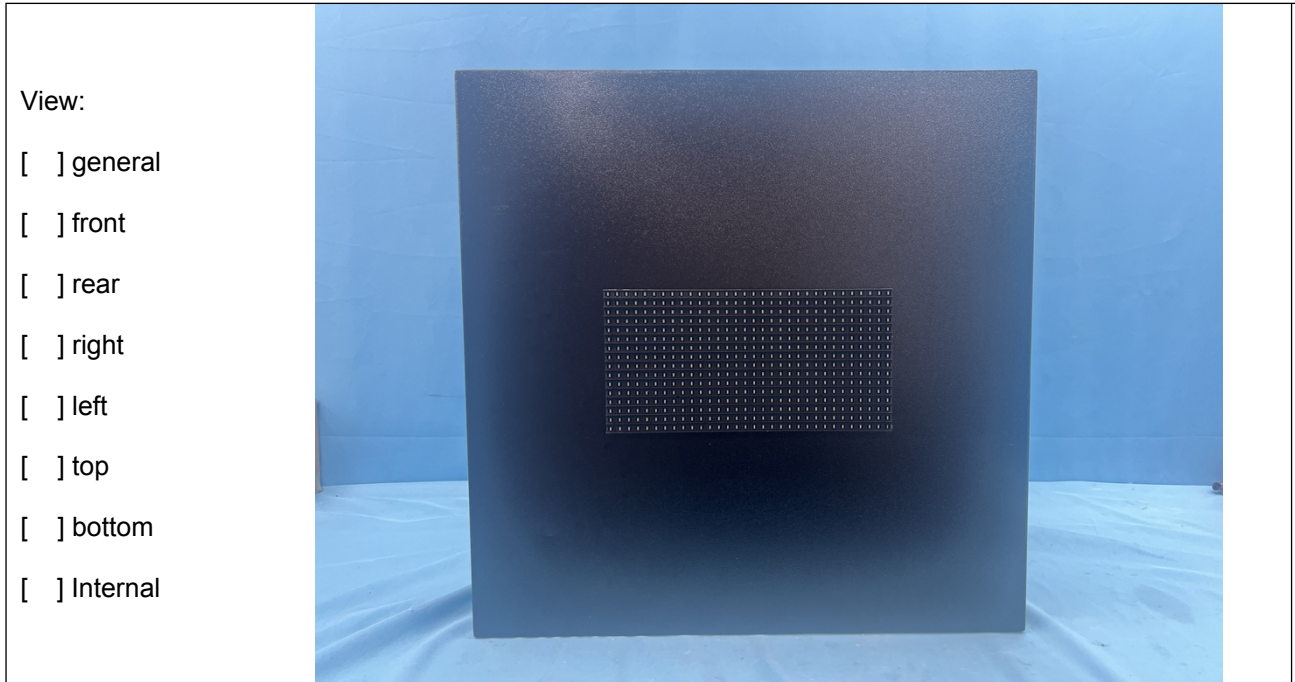
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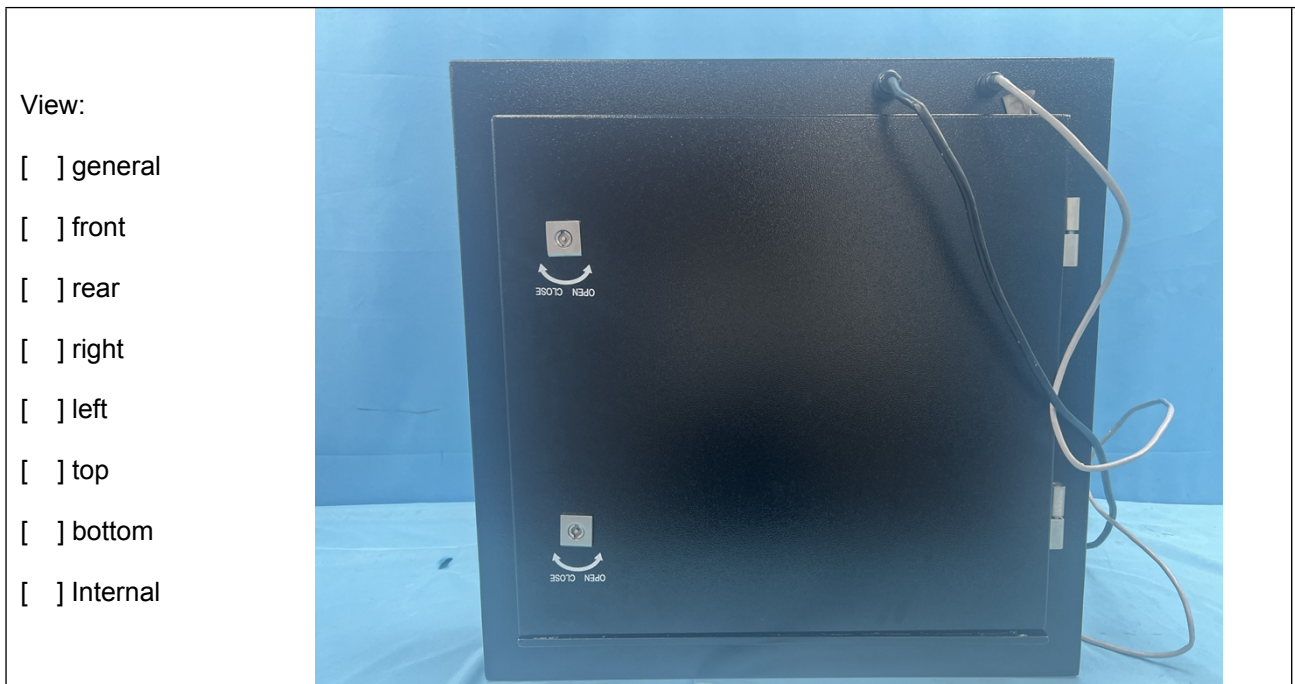
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**Photo documents:**

Details of: **General view of model VMS10S-4535RGB**



Details of: **General view of model VMS10S-4535RGB**



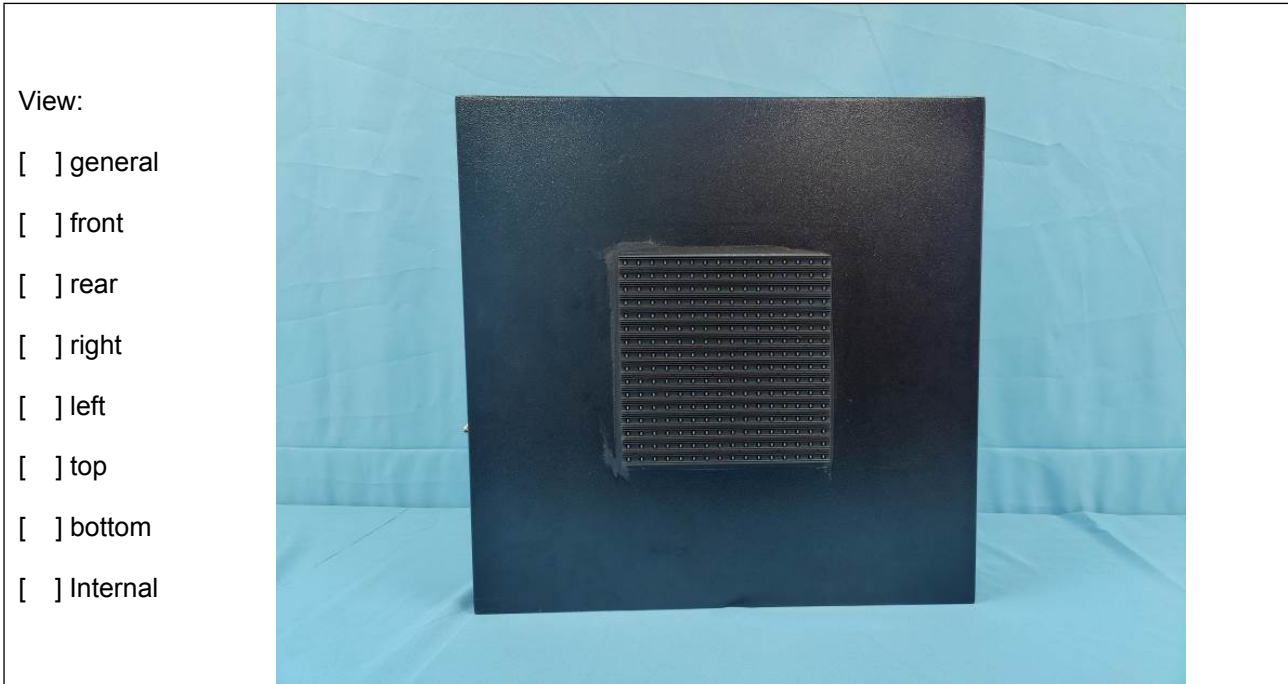
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Details of: General view of model VMS16S-4535RGB



Details of: General view of model VMS16S-4535RGB



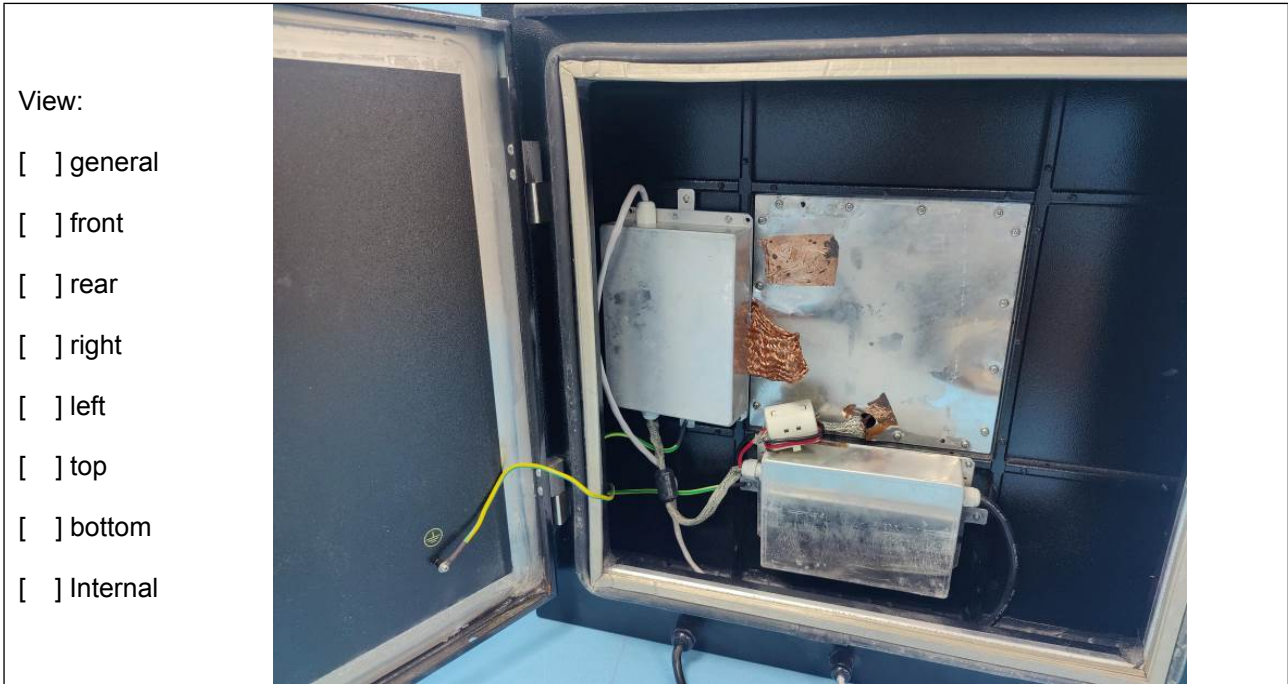
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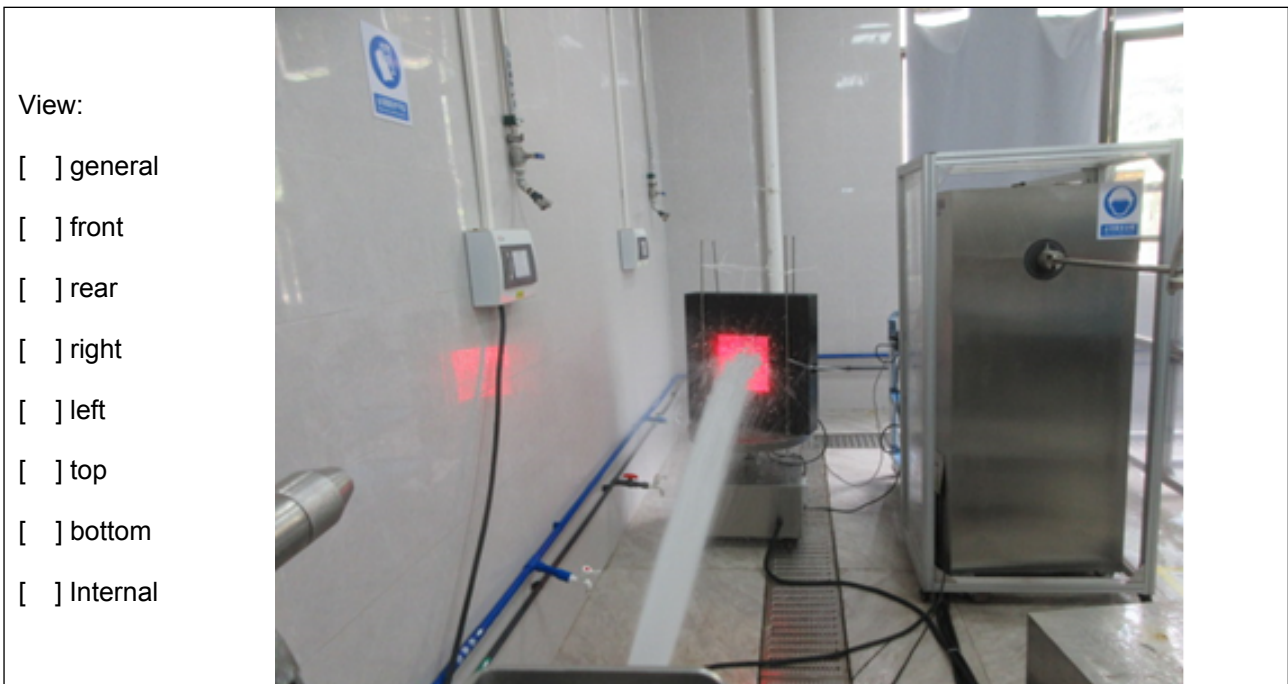
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Details of: Internal view of product



Details of: During IPX6 test



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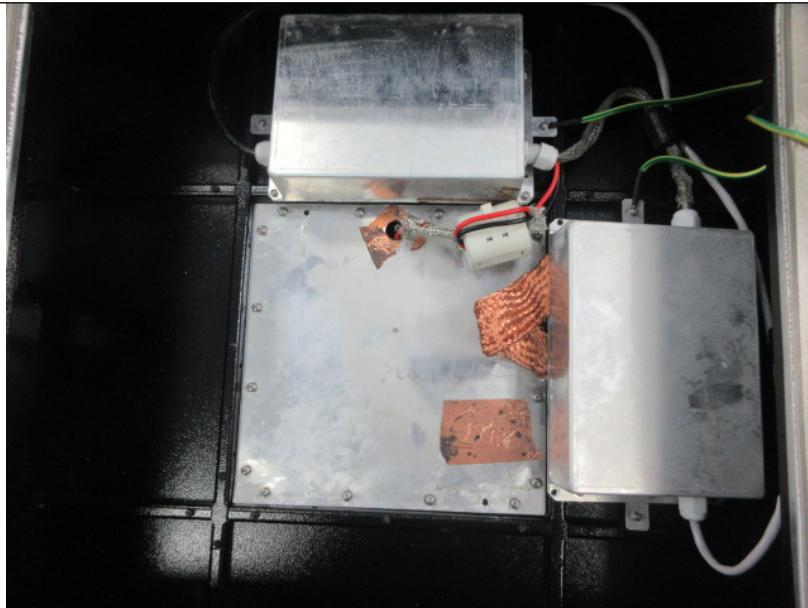
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Details of: After IPX6 test, no water ingress into sample

View:

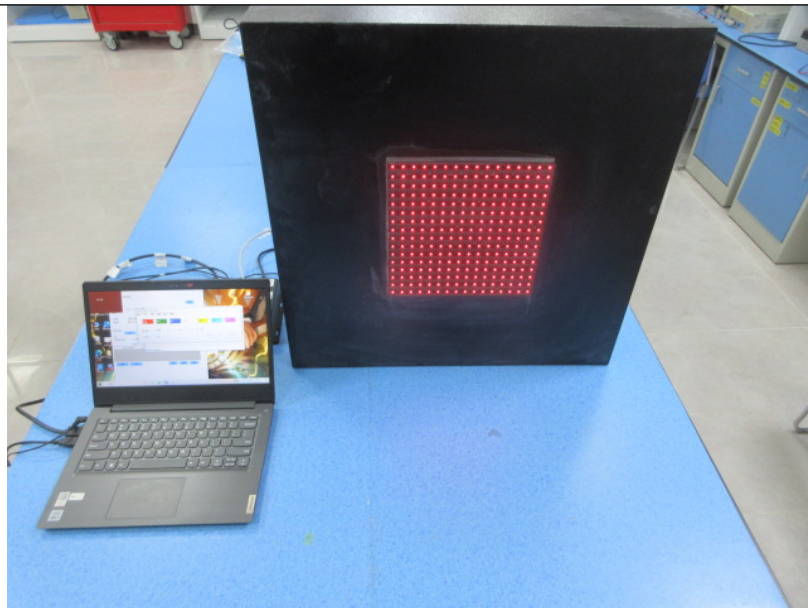
- general
- front
- rear
- right
- left
- top
- bottom
- Internal



Details of: Function check passed after test.

View:

- general
- front
- rear
- right
- left
- top
- bottom
- Internal




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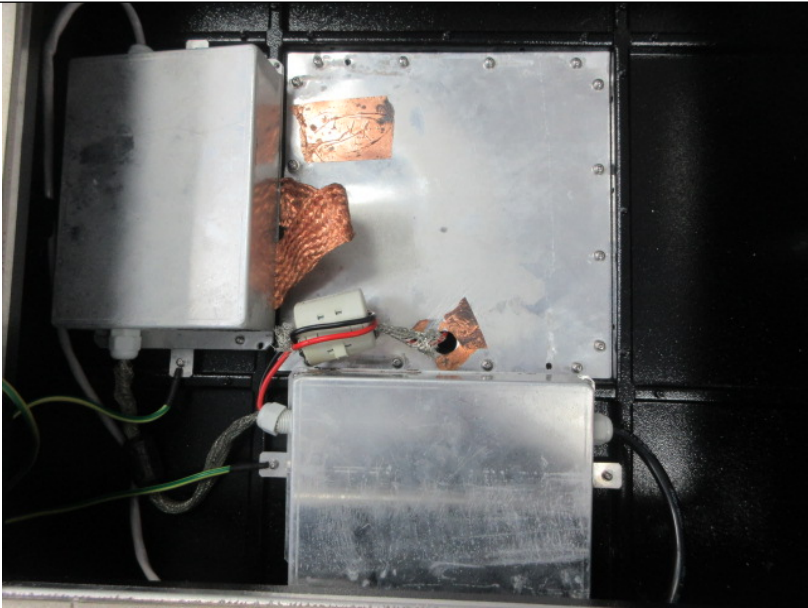
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Details of: During IP5X test

<p>View:</p> <p><input type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right</p> <p><input type="checkbox"/> left</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> Internal</p>	
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Details of: After IP5X test, no talcum ingress into sample

<p>View:</p> <p><input type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right</p> <p><input type="checkbox"/> left</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> Internal</p>	
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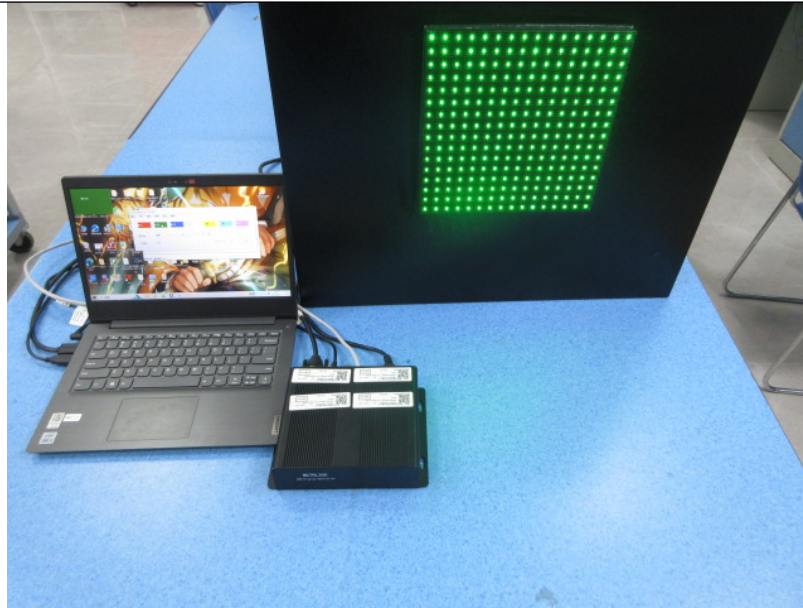
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Details of: Function check passed after test.

View:

- general
- front
- rear
- right
- left
- top
- bottom
- Internal



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