



Test Report issued under the responsibility of:



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

TEST REPORT	
Road vertical signs - Variable message traffic signs electrical safety type test and impact test in accordance with EN12966-1: 2005 + A1: 2009	
Report Reference No	GZES231102107501
Tested by (name + signature).....	Julian Zhang/Alex Tan <i>Julian Zhang Alex Tan</i>
Approved by (+ signature)	Ivory Lu <i>Ivory Lu</i>
Date of issue	2025-04-10; Amendment 01: 2026-02-02
Total number of pages.....	22
Testing Laboratory	SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
Address.....	198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China
Applicant's name	Shenzhen Chip Optech Co., Ltd.
Address.....	5th Floor, Tower C, Baoshi Technological Park, Baoshi Road, Shiyan Street, Bao'an District, Shenzhen, China
Test specification:	
Test procedure.....	<input checked="" type="checkbox"/> EN12966-1:2005 + A1:2009; <input checked="" type="checkbox"/> HD 60364-4-443:2006; <input checked="" type="checkbox"/> HD 638 S1:2001+A1:2006; <input checked="" type="checkbox"/> EN 60598-1:2015+A1:2018
Non-standard test method.....	None
Test Report Form No	EN 12966-1_B_Electrical safety type test and Impact test
Test Report Form(s) Originator	SGS-CSTC
Master TRF	2025-07-30



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EN 12966-1_B_Electrical safety type test and Impact test

Test item description:	LED Display Screen
Model/Type reference.....:	VMS16S-4535RGB, VMS10S-4535RGB
Ratings	100-240Va.c.; 50/60Hz; 1,5A Max
Brand name	/
Manufacturer	Same as applicant
Factory.....:	Huizhou Mepro Optech Co., Ltd. Tower 12, Xinhua Av. No 6, Chenjiang Street, Zhongkai Hi-Tech District, Huizhou, China
Summary of testing:	
<p>1. This report is based on the original test report GZES231102107501, dated 2025-04-10 and all tests refer to this report except for the following changes:</p> <ul style="list-style-type: none"> - Added 1 new model: VMS10S-4535RGB - The new model has a similar construction to the original model VMS16S-4535RGB except for the LED module size and pitch. - After review, additional tests of maximum power consumption and Impact test were considered necessary. 	
Tests performed:	
<p>When determining the test conclusion, the Measurement Uncertainty of test has been considered. The sample(s) are tested and complied relevant clauses of below standards, see test results for details.</p>	
Standard	Title
EN12966-1:2005 + A1:2009	Road vertical signs - Variable message traffic signs - Part 1: Product standard
EN 60598-1:2015+A1:2018	Luminaires - Part 1: General requirements and tests
HD 60364-4-443:2006	Electrical installation of buildings — Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances – Clause 443: Protection against overvoltages of atmospheric origin or due to switching
HD 638 S1:2001+A1:2006 (Electrical safety part)	Road traffic signal systems
Copy of marking plate: /	



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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, **2025-11-17**

Date (s) of performance of tests: 2024-07-26 to 2024-10-10
2025-11-17 to 2025-11-25

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
Electrical Specifications	
Nominal voltage (V)	AC 100-240



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Nominal frequency (Hz)	50 / 60
Nominal full load current (A)	0,2
Max. power consumption (W)	40
Physical Characteristics	
Construction:	metal and plastic enclosure, fixed by screws
Working temperature (°C)	T1/T3
Pollution	D3
Mechanical protection	P3 (IP56)
Structure Characteristics	
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.

LED module specifications	
Module size (mm) (H × W)	VMS16S-4535RGB: 256 x 256; VMS10S-4535RGB: 320 x 160
Dots per module (H × W)	VMS16S-4535RGB:16 x16; VMS10S-4535RGB:32 x 16
Pitch (mm)	VMS16S-4535RGB:16; VMS10S-4535RGB:10
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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Road vertical signs - Variable message traffic signs (EN12966-1:2005 + A1:2009)			
Cl.	Requirement-Test	Result-Remark	Verdict
8.3.4	Impact resistance	Compliance verified by test	P

Test method:

The test modules shall be capable of withstanding impact and shall be tested in accordance with 9.2.3 Table 13. After the test the test module front panel or parts of it shall show no damage other than small indentations in the front surface; it shall exhibit no cracking.

The test module shall continue to meet all the requirements of the standard.

Impact test (EN 60598-1:2015+A1:2018)	Impact tests shall be conducted on horizontally mounted test module front panel using a steel ball of 50 mm diameter with a mass of 0,51 kg dropped from a height h (1,3 m) to produce an impact energy of 6,5 Nm.
	The test module shall be conditioned at a temperature of 20 °C ± 2 °C and then be subject to three single impacts, at the weakest point on the front panel of the test module, this shall be determined by the Test-House in consultation with the manufacturer.
	The test module shall be cooled to a temperature of -5 °C ± 2 °C, which shall be maintained for three hours. Whilst the test module is at this temperature it shall be subjected to three single impacts at the weakest point on the front panel of the test module, this shall be determined by the Test-House in consultation with the manufacturer.
	After the test the test module front panel or parts of it shall show no damage other than small indentations in the front surface; it shall exhibit no cracking. The test module shall continue to meet all the requirements of the standard.

Test result: VMS16S-4535RGB

Test location	Temperature	Remark	Result
Front panel of the test module	20 °C	No visible damage or cracking and Function test passed.	P
Front panel of the test module	-5 °C	No visible damage or cracking and Function test passed.	P

Test result: VMS10S-4535RGB

Test location	Temperature	Remark	Result
Front panel of the test module	20 °C	No visible damage or cracking and Function test passed.	P
Front panel of the test module	-5 °C	No visible damage or cracking and Function test passed.	P

8.4 Electrical requirements



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Road vertical signs - Variable message traffic signs (EN12966-1:2005 + A1:2009)			
Cl.	Requirement-Test	Result-Remark	Verdict
8.4.1	Electrical supply and limits	See clauses from 8.4.1.1 to 8.4.1.7	P
8.4.1.1	Maximum power consumption	Max. rated power: VMS16S-4535RGB:19,78W VMS10S-4535RGB:11,95 W	P

Test result: VMS16S-4535RGB

TEST SETUP		
Colour: White		
Sign illuminance (lx)	Maximum level	
Input Rms voltage (V)	230	
Input Rms Current (A)	0,1683	
Power factor	0,5125	
Power (W)	19,78	
Colour: Red		
Sign illuminance (lx)	Maximum level	
Input Rms voltage (V)	230	
Input Rms Current (A)	0,1368	
Power factor	0,2823	
Power (W)	8,87	
Colour: Green		
Sign illuminance (lx)	Maximum level	
Input Rms voltage (V)	230	
Input Rms Current (A)	0,1401	
Power factor	0,3251	
Power (W)	10,43	
Colour: Blue		
Sign illuminance (lx)	Maximum level	
Input Rms voltage (V)	230	
Input Rms Current (A)	0,1387	
Power factor	0,2959	
Power (W)	9,41	
Colour: Yellow		
Sign illuminance (lx)	Maximum level	
Input Rms voltage (V)	230	
Input Rms Current (A)	0,1554	
Power factor	0,4225	
Power (W)	15,26	
WORST CASE (Maximum power consumption)	Colour	White



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Test result: **VMS10S-4535RGB**

TEST SETUP	
Colour: White	
Sign illuminance (lx)	Maximum level
Input Rms voltage (V)	230
Input Rms Current (A)	0,0972
Power factor	0,534
Power (W)	11,95
Colour: Red	
Sign illuminance (lx)	Maximum level
Input Rms voltage (V)	230
Input Rms Current (A)	0,0795
Power factor	0,401
Power (W)	7,32
Colour: Green	
Sign illuminance (lx)	Maximum level
Input Rms voltage (V)	230
Input Rms Current (A)	0,0797
Power factor	0,408
Power (W)	7,33
Colour: Blue	
Sign illuminance (lx)	Maximum level
Input Rms voltage (V)	230
Input Rms Current (A)	0,0661
Power factor	0,437
Power (W)	6,61
Colour: Yellow	
Sign illuminance (lx)	Maximum level
Input Rms voltage (V)	230
Input Rms Current (A)	0,0880
Power factor	0,488
Power (W)	8,88
WORST CASE (Maximum power consumption)	Colour: White

8.4.1.2	Nominal voltages	Compliance verified by inspection	P
8.4.1.3	Operating voltage range	Compliance verified by test	P



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TEST SETUP			
Test sequence	Test Voltage/ Frequency	Measurement/ Requirement	Remark
1: No power	0	No power supply.	EUT off
2: Nominal	230 V, 50Hz	Switch ON and Display check, shall no partial, incomplete or false display.	No effect
3-1: Nominal	230V, 49 Hz	Function test	Normal
3-2: Nominal	230V, 50 Hz	Function test	Normal
3-3: Nominal	230V, 51 Hz	Function test	Normal
4: Drop to min. Voltage (-13 % nominal voltage)	200V, 50Hz	Check that there is no partial, incomplete or false display.	No effect
5: Drop to 50 % of the nominal voltage	115V, 50 Hz	Check that there is no partial, incomplete or false display.	No effect
6: Nominal	230V, 50 Hz	Check that there is no partial, incomplete or false display	No effect
7-1: Nominal	230V, 49 Hz	Function test	Normal
7-2: Nominal	230V, 50 Hz	Function test	Normal
7-3: Nominal	230V, 51 Hz	Function test	Normal
8: Raise to the Max. Voltage (+10 % nominal voltage)	253 V, 50 Hz	Check that there is no partial, incomplete or false display.	No effect
9: Nominal	230V, 50 Hz	Check that there is no partial, incomplete or false display.	No effect
10-1: Nominal	230V, 49 Hz	Function test	Normal
10-2: Nominal	230V, 50 Hz	Function test	Normal
10-3: Nominal	230V, 51 Hz	Function test	Normal
11 a): Max. stated by the protection device		Check that there is no partial, incomplete or false display. No visual damage of the VMS / test module.	N/A
12 a): Nominal	230V, 50 Hz	Check that there is no partial, incomplete or false display.	N/A
13 a) -1	230V, 49 Hz	Function test	N/A
13 a) -2	230V, 50 Hz	Function test	N/A
13 a) -3	230V, 51 Hz	Function test	N/A

a) This test is done only if a protection device is incorporated.



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8.4.1.4	Mains frequency	Compliance verified by test	P																
8.4.1.5	Power up activation	Compliance verified by test	P																
8.4.1.6	Low voltage	See clauses from 8.4.1.6.1 to 8.4.1.6.2	P																
8.4.1.6.1	Switch off voltage response	Compliance verified by test. See clause 8.4.1.3	P																
8.4.1.6.2	Voltage interruption	Compliance verified by test	P																
<table border="1"> <thead> <tr> <th>Duration</th> <th>Requirement</th> <th>Measurement / Remark</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Interruption <50ms</td> <td><input checked="" type="checkbox"/> A No effect</td> <td><input checked="" type="checkbox"/> A</td> <td>P</td> </tr> <tr> <td>50<Interruption <100ms</td> <td><input checked="" type="checkbox"/> B The VMS shall continue displaying the current message. The VMS may be affected by a variation of luminance during the voltage interruption.</td> <td><input checked="" type="checkbox"/> A <input type="checkbox"/> B</td> <td>P</td> </tr> <tr> <td>Interruption ≥100ms</td> <td><input checked="" type="checkbox"/> C Shut down is allowed unless specified differently by the purchaser This shall not cause partial, incomplete or false messages to be displayed or cause damage to the VMS. When the power supply is restored, the VMS shall behave as described in 8.4.1.5 Power up activation.</td> <td><input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C</td> <td>P</td> </tr> </tbody> </table>				Duration	Requirement	Measurement / Remark	Result	Interruption <50ms	<input checked="" type="checkbox"/> A No effect	<input checked="" type="checkbox"/> A	P	50<Interruption <100ms	<input checked="" type="checkbox"/> B The VMS shall continue displaying the current message. The VMS may be affected by a variation of luminance during the voltage interruption.	<input checked="" type="checkbox"/> A <input type="checkbox"/> B	P	Interruption ≥100ms	<input checked="" type="checkbox"/> C Shut down is allowed unless specified differently by the purchaser This shall not cause partial, incomplete or false messages to be displayed or cause damage to the VMS. When the power supply is restored, the VMS shall behave as described in 8.4.1.5 Power up activation.	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	P
Duration	Requirement	Measurement / Remark	Result																
Interruption <50ms	<input checked="" type="checkbox"/> A No effect	<input checked="" type="checkbox"/> A	P																
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8.4.1.7	Temporary overvoltage		P																
8.4.2	Electrical safety	Compliance verified by test of HD 60364-4-443:2006 and HD 638 S1:2001+A1:2006 See clauses below.	P																



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Electrical installation of buildings (HD 60364-4-443:2006)			
Cl.	Requirement-Test	Result-Remark	Verdict
443	Protection against overvoltage of atmospheric origin or due to switching		
443.1	General		P
443.2	Classification of impulse withstand categories	EUT category: III	P
443.2.1	Purpose of classification of impulse withstand categories		P
443.2.2	Description of impulse withstand categories		P
443.3	Arrangements for overvoltage control	See clauses from 443.3.1 to 443.3.2.2	N/A
443.3.1	Inherent overvoltage control	EUT category: III	N/A
443.3.2	Protective overvoltage control	EUT category: III	N/A
443.3.2.1	Protective overvoltage control based on conditions of external influences	EUT category: III	N/A
443.3.2.2	Protective overvoltage control based on risk assessment	EUT category: III	N/A
443.4	Required impulse withstand voltage of equipment	Compliance verified by test	P

Impulse withstand category	Nominal voltage of the installation Impulse withstand Result (V _{AC})	Impulse withstand (kV _{AC})	Result / Remark
Category III	230	4	P
Category III	230	6	P



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Road traffic signal systems (HD 638 S1:2001+A1:2006)																																																																							
Cl.	Requirement-Test	Result-Remark					Verdict																																																																
5.1.7.3 Insulation paths																																																																							
5.1.7.3	For insulation paths EN 60950-1 applies, clearance and creepage distances and thickness of insulation see EN 60950-1, Subclause 2.10	Measured as in below					P																																																																
5.1.7.3.1	Live parts and bodies	Measured as below table					P																																																																
5.1.7.3.2	Live parts	L-N measured as in below table Terminals voltage not excess extra-low voltage range					P																																																																
<table border="1"> <thead> <tr> <th>Clearance (cl) and creepage distance (cr) at/of/between:</th> <th>overvoltage category</th> <th>U peak (V)</th> <th>U r.m.s. (V)</th> <th>Required cl (mm)</th> <th>cl (mm)</th> <th>Required cr (mm)</th> <th>cr (mm)</th> </tr> </thead> <tbody> <tr> <td colspan="8">Functional:</td> </tr> <tr> <td>L-N</td> <td>III</td> <td>326</td> <td>230</td> <td>2,5</td> <td>>3,3</td> <td>2,5</td> <td>>3,3</td> </tr> <tr> <td colspan="8">Basic/supplementary:</td> </tr> <tr> <td>L/N-PE/Metal enclosure</td> <td>III</td> <td>326</td> <td>230</td> <td>3,2</td> <td>>4,2</td> <td>3,2</td> <td>>4,2</td> </tr> <tr> <td colspan="8">Reinforced:</td> </tr> <tr> <td>Primary live part – Secondary circuit</td> <td>III</td> <td>326</td> <td>230</td> <td>6,4</td> <td>>8,4</td> <td>6,4</td> <td>>8,4</td> </tr> <tr> <td colspan="8">Supplementary information: /</td> </tr> </tbody> </table>								Clearance (cl) and creepage distance (cr) at/of/between:	overvoltage category	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	Functional:								L-N	III	326	230	2,5	>3,3	2,5	>3,3	Basic/supplementary:								L/N-PE/Metal enclosure	III	326	230	3,2	>4,2	3,2	>4,2	Reinforced:								Primary live part – Secondary circuit	III	326	230	6,4	>8,4	6,4	>8,4	Supplementary information: /							
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Supplementary information: /																																																																							
6.5 Electrical safety																																																																							
6.5.1	General	See clauses from 6.5.2 to 6.5.9					P																																																																
6.5.2	Typical test conditions	See previous clause 8.4 of standard EN12966-1:2005 + A1:2009					P																																																																
6.5.3	Protective conductors continuity test	See clauses 6.5.3.1 and 6.5.3.2					P																																																																
6.5.3.1	Inspection	Compliance verified by inspection					P																																																																
6.5.3.2	Measurement	Compliance verified by test					P																																																																



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Road traffic signal systems (HD 638 S1:2001+A1:2006)					
Cl.	Requirement-Test	Result-Remark		Verdict	
	Application points Between main earth terminal and:	Current test(A)	Duration(s)	Resistance(Ω)	Result / Remark
	Metal enclosure (internal, right)	25	60	0,077	P
6.5.4	Labelling	Compliance verified by visual inspection		P	
6.5.5	Access to hazardous voltages	Compliance verified by visual inspection		P	
6.5.6	Protection against fire risks	Compliance verified by inspection		P	
6.5.7	Test of residual current protection means for the installation			N/A	
6.5.8	Test of residual current protection means for maintenance supplies			N/A	
6.5.9	Electrical safety test	Compliance verified by test		P	
	Application points	Nominal voltage of the installation (V_{AC})	Voltage test Breakdown (V_{AC})	Result / Remark	
	L/N - PE	230	1460	No Breakdown and passed	
	L/N - Unearthed enclosure (LED module)	230	3460	No Breakdown and passed	
	LAN port – Metal enclosure	230	500	No Breakdown and passed	



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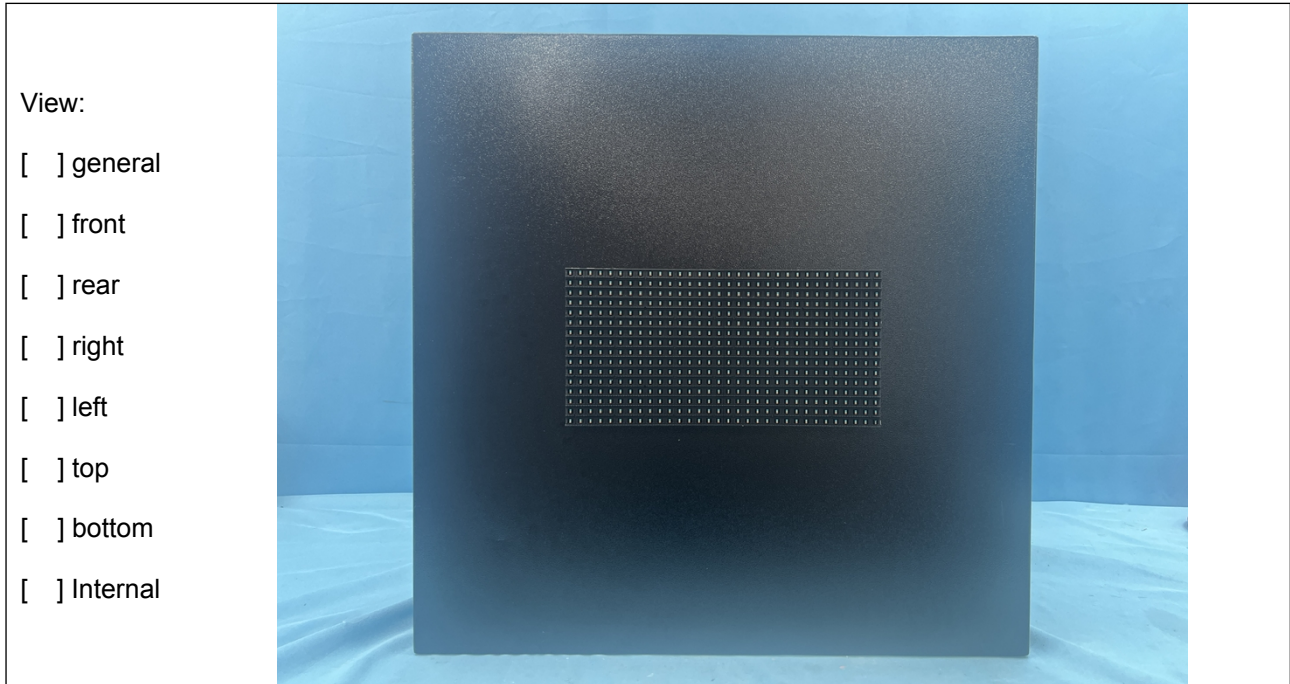
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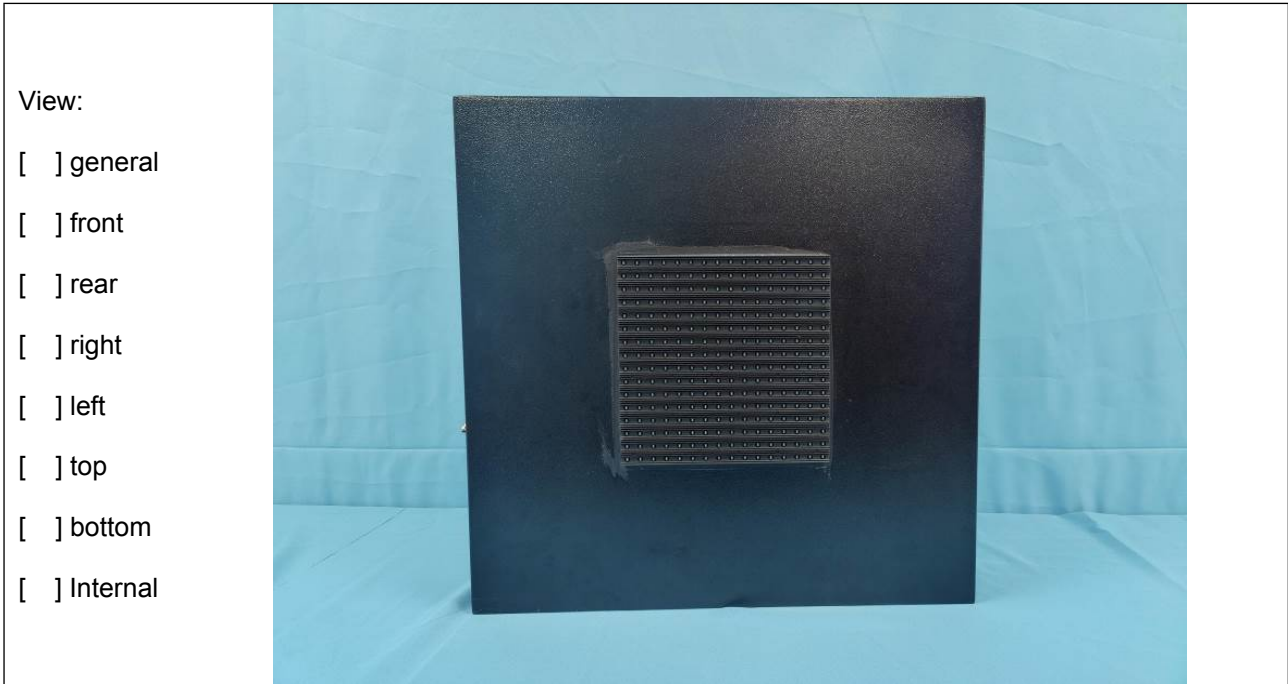
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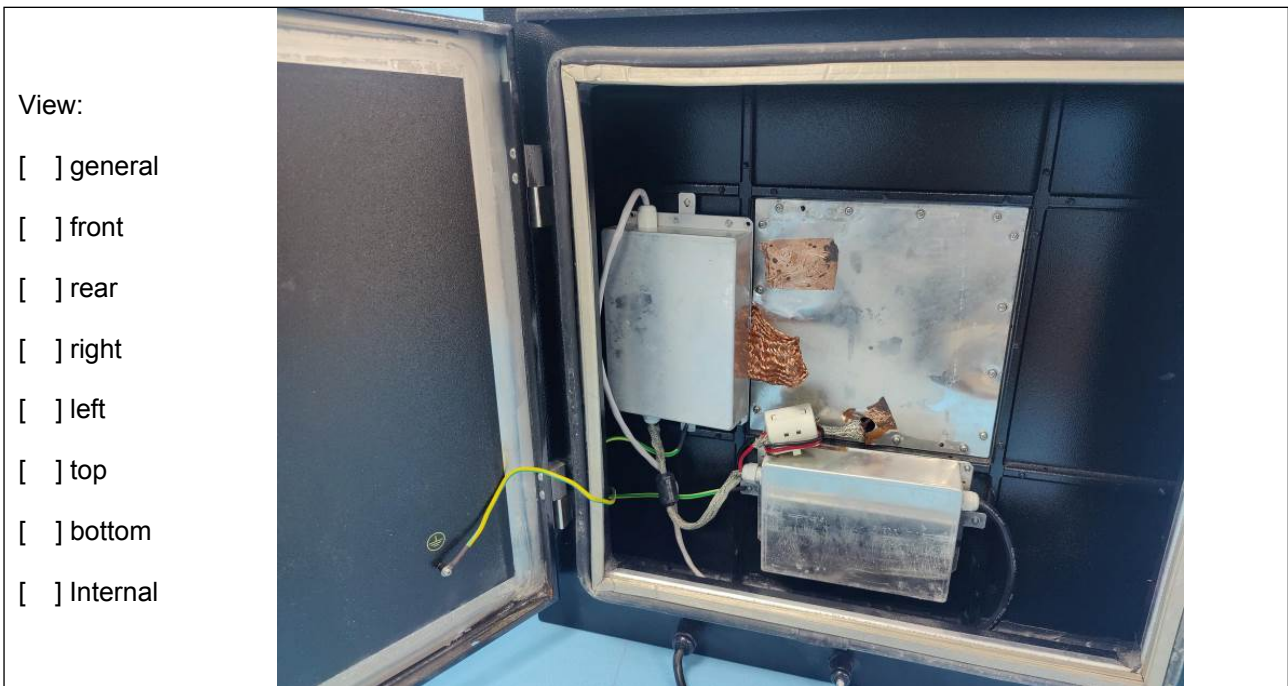
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Details of: Internal view of product



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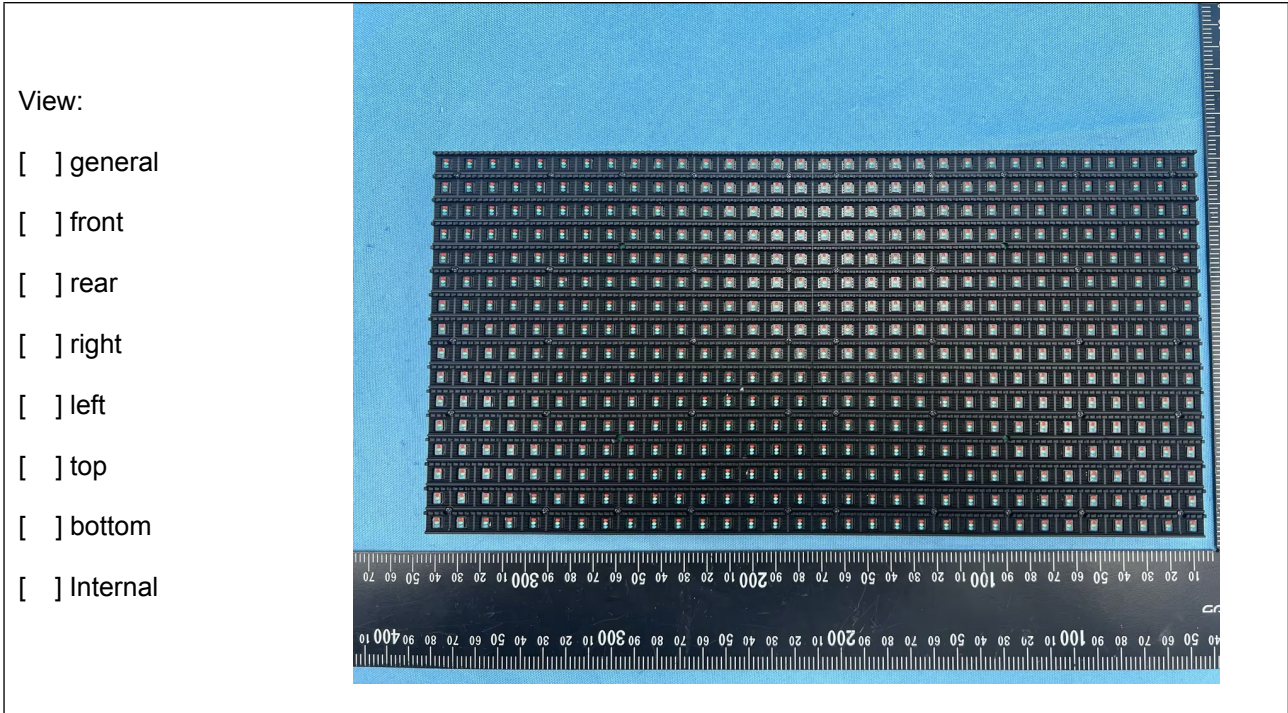
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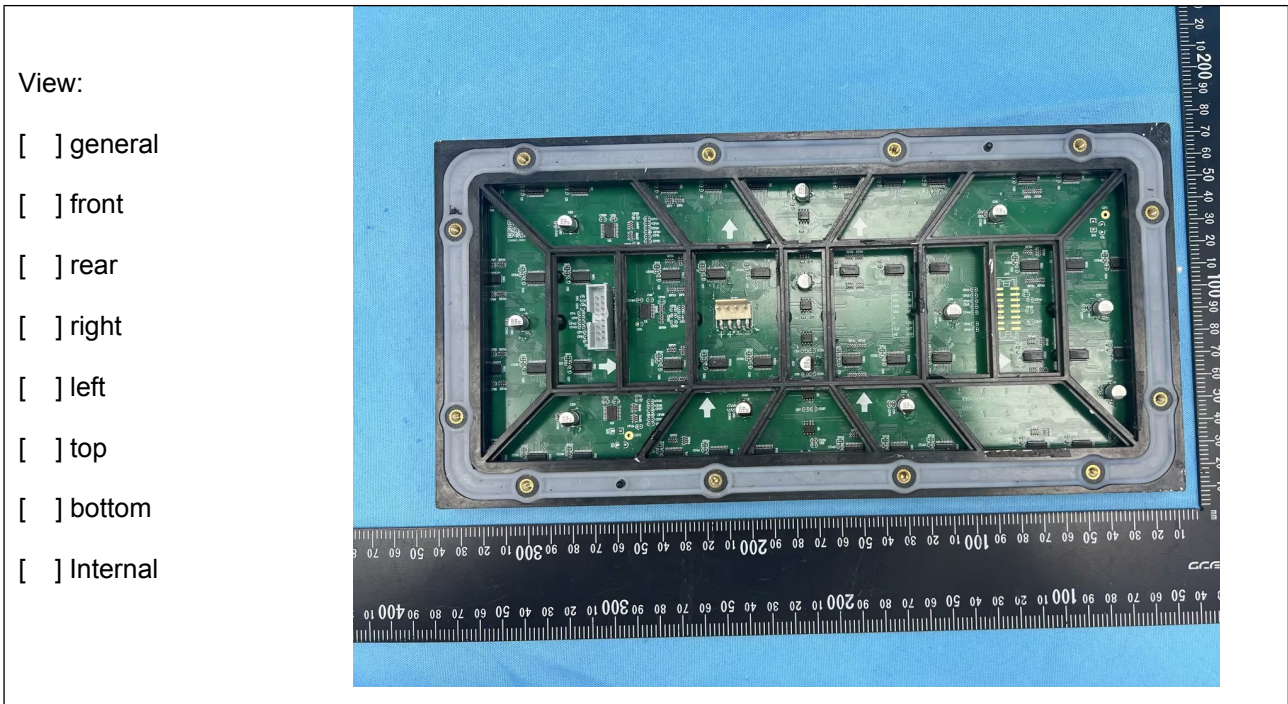
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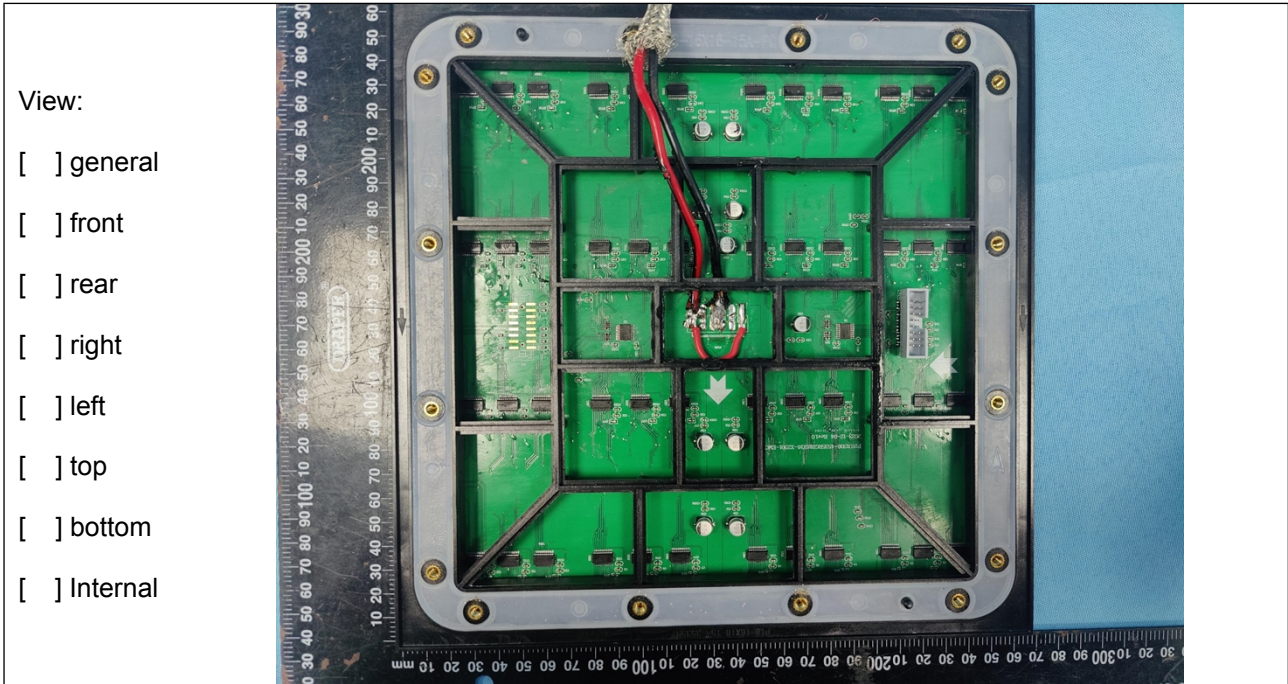
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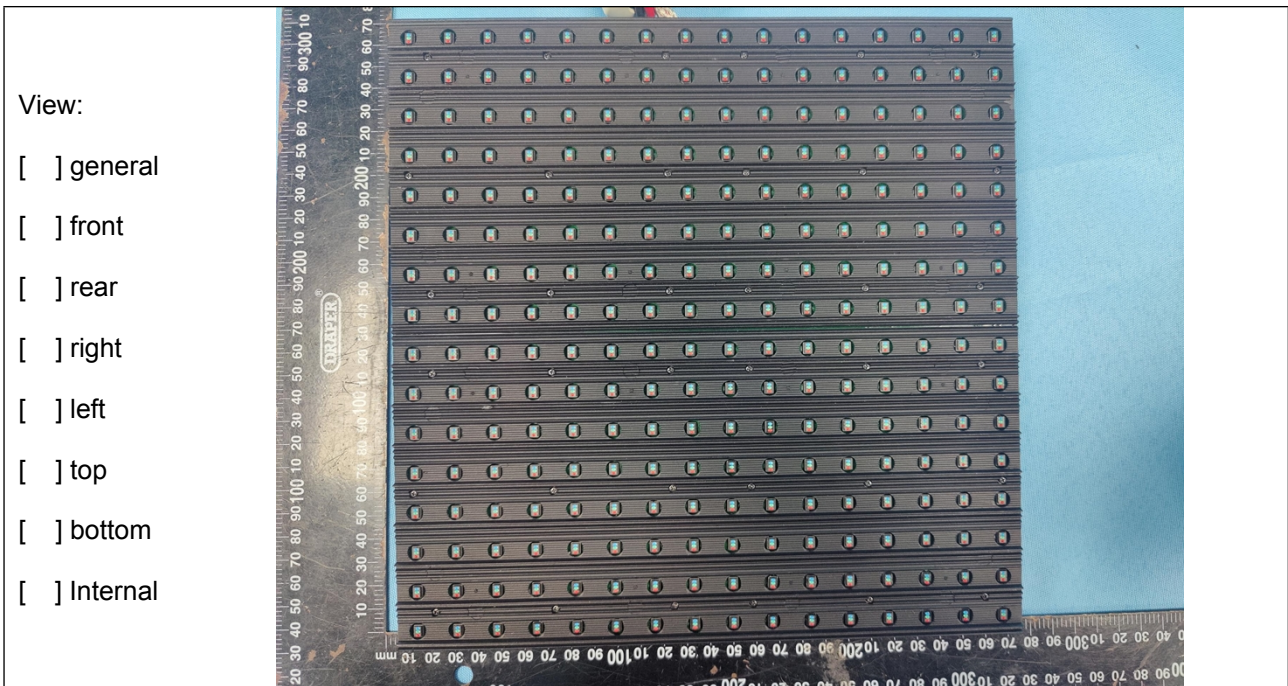
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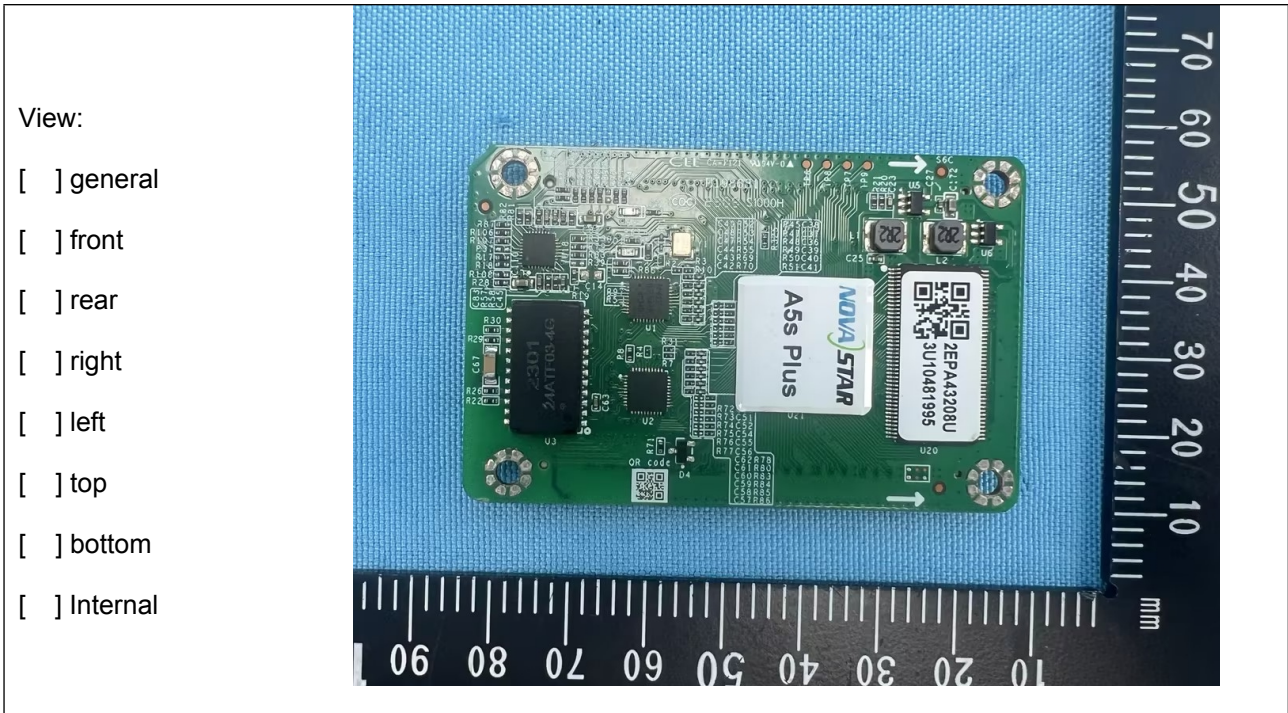
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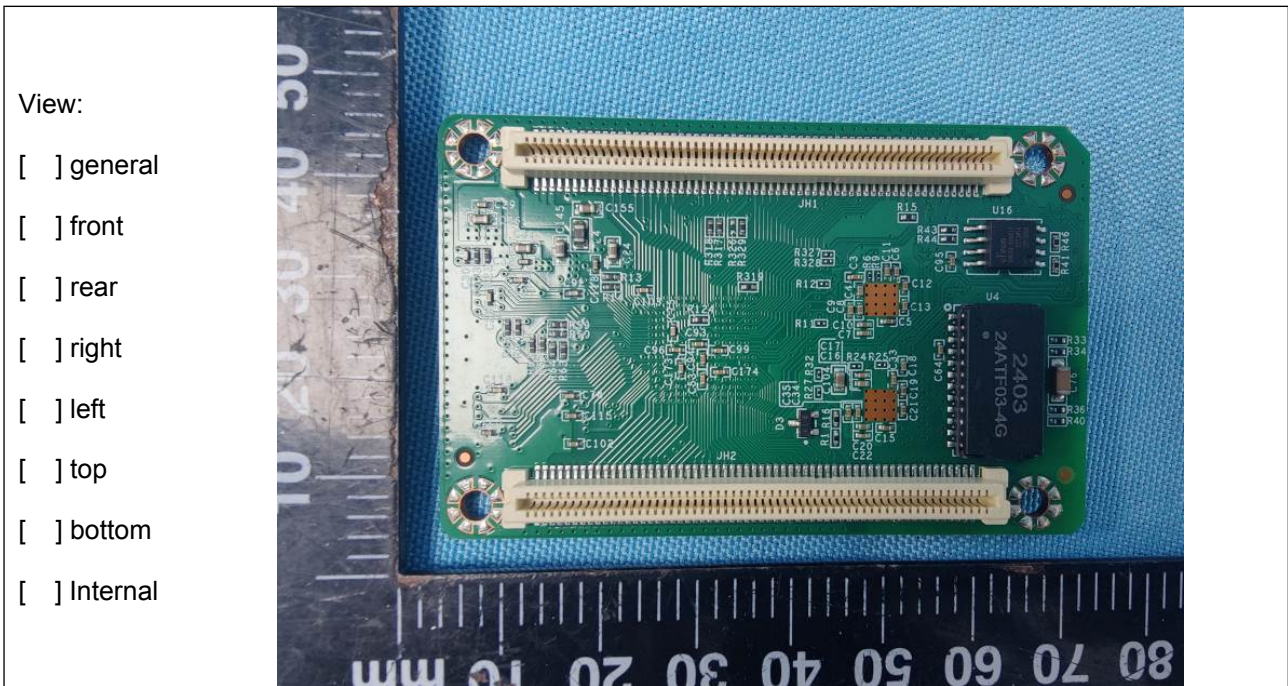
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