

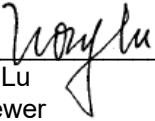


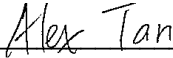
Test Report

Report No.: GZEE231100455301
Amendment 01 Date: 2026-02-27

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

- Applicant: Shenzhen Chip Optech Co., Ltd.
5th Floor, Tower C, Baoshi Technological Park, Baoshi Road, Shiyuan Street,
Bao'an District, Shenzhen City, China
- Manufacturer: Same as applicant
- Factory: Huizhou Mepro Optech Co., Ltd.
Tower 12, Xinhua Av., No. 6, Chenjiang Street, Zhongkai Hi-Tech District,
Huizhou, Guangdong, China
- Testing location/address: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
198 Kezhu Road, Science City, Economic & Technology Development Area,
Guangzhou, Guangdong, China
- Standard: EN 12966-1: 2005 + A1: 2009
Road vertical signs - Variable message traffic signs
- Test item description: VMS (Variable Message Sign)
LED display screen
- Trade Mark/Brand: —
- Model/Type reference: VMS16S-4535RGB, VMS10S-4535RGB
- Ratings: See page 4-5
- Test result: In the opinion of SGS – CSTC the presented appliance was found to be in
compliance with the test specification as indicated in the details on the following
pages.
- Remark: Throughout this report a comma is used as the decimal separator.


Ivory Lu
Reviewer
E&E Safety Laboratory


Alex Tan
Project Engineer



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Tests performed:

The samples tested comply with the requirements of EN 12966-1: 2005 + A1: 2009.

Copy of marking plate

Representative:

 2531 25	Certificate No.																																										
Company : Shenzhen Chip Optech Co., Ltd. Address: 5th Floor, Tower C, Baoshi Technological Park, Baoshi Road, Shiyan Street, Bao'an District, Shenzhen City, China DOP No. : VMS16S-4535RGB-DOP-01																																											
EN12966-1:2005+A1:2009 Variable message signs for the instruction and guidance of road users on public and private land, including tunnels Model: VMS16S-4535RGB Input: 230 V, 50 Hz Year of manufacture : 2025 Impact resistance Pass Durability T1/T3, D3, P3																																											
Chromaticity co-ordinates and optical performance																																											
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<p>EN12966-1:2005+A1:2009</p> <p>Variable message signs for the instruction and guidance of road users on public and private land, including tunnels</p> <p>Model: VMS10S-4535RGB Input: 100-240 V, 50 / 60 Hz Year of manufacture : 2026</p> <p>Impact resistance Pass Durability T1/T3, D3, P3</p>																																												
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<p>Possible test case verdicts:</p> <ul style="list-style-type: none"> – test case does not apply to the test object..... : N/A – test object does meet the requirement..... : P (Pass) – test object does not meet the requirement..... : F (Fail) 																																												
<p>Testing</p> <p>Date of receipt of test item..... : 2023-11-28, 2025-10-23</p> <p>Date (s) of performance of tests : 2023-11-28 to 2025-03-10 2025-10-23 to 2016-01-17</p>																																												



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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	Model	VMS16S-4535RGB	VMS10S-4535RGB
Photometric parameter			
Red, Green, Blue, Yellow & White Colour class:		C2	
Luminance (La):		L3, L3(*)	
Luminance ratio (LR):		R3	
Beam width:		B6	
Uniformity:		Pass	
Visible flicker:		Pass	
Physical environmental			
Working temperature (°C)		T1/T3	
Resistance to pollution:		D3	
Degrees of protection provided by enclosure:		P3 (IP56)	
Resistance to corrosion:		Pass	
Physical structural			
Passive safety:		Class 0	
Impact resistance:		Pass	
Vibration resistance:		Pass	
LED module specifications			
Module size (mm) (H × W)		256 x 256	320 x 160
Dots per module (H × W)		16 x 16	32 x 16
Pitch (mm)		16	10
Single LED parameters		physical dimension: 4,5 * 3,5 mm wavelength (nm): R:620-625 G:531-534 B:469-472	
LED module Specifications			
Nominal full load current (A)		6	
Max. power consumption (W)		30	
Weight (kg)		1,2	



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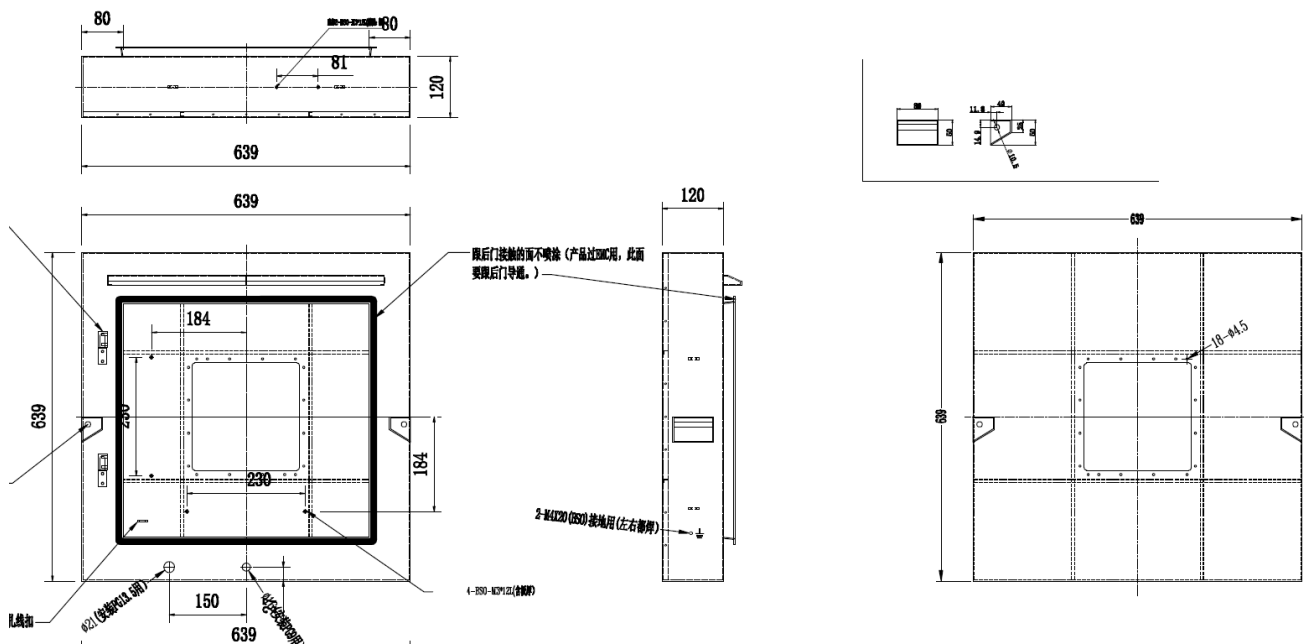
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Cabinet Specifications	
Nominal voltage (Va.c.)	100-240
Nominal frequency (Hz)	50 / 60
Nominal full load current (A)	0,2
Max. power consumption (W)	40
Size of cabinet (mm) (H × W × D)	639 × 639 × 120
Construction	Metal enclosure
Weight of cabinet (kg)	18

VMS16S-4535RGB:



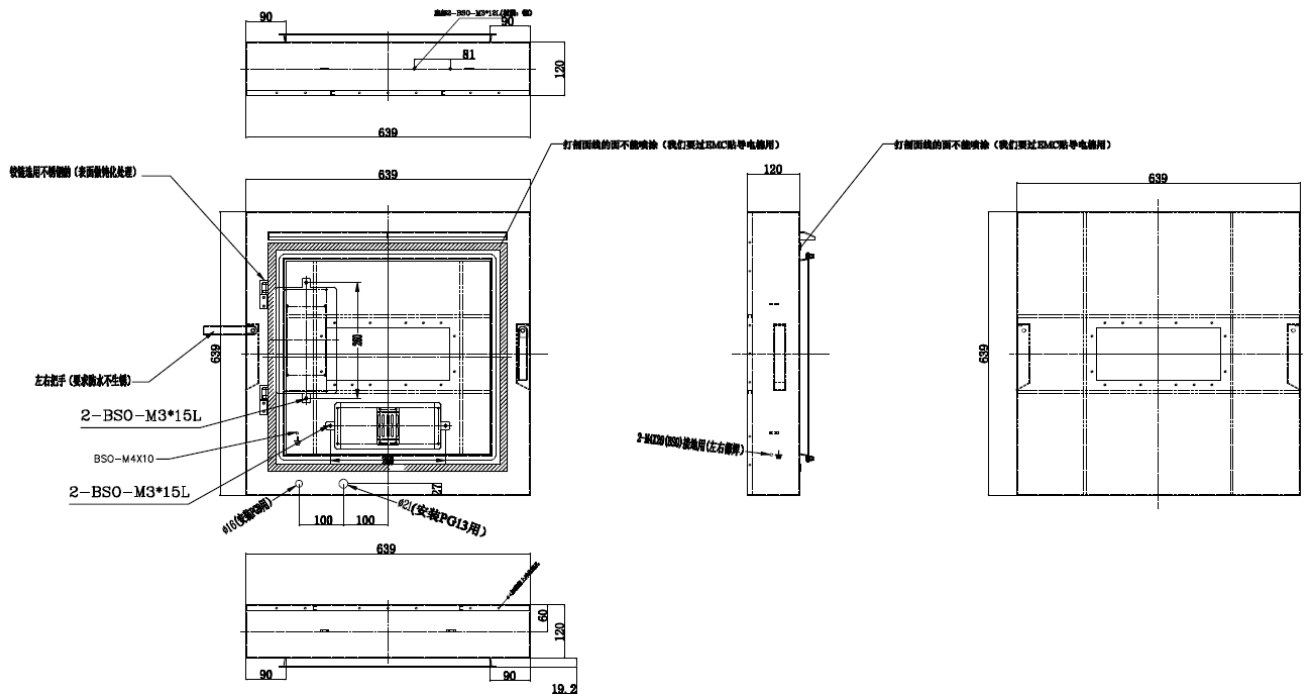
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Guangzhou Branch Testing Center EEC Laboratory

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VMS10S-4535RGB:



1st Reversion History:

Based on and superseded report GZEE231100455301, dated 2025-05-16, and including follow change:

- Added a VMS model VMS10S-4535RGB.

After reviewing, all amendment test report and information for VMS10S-4535RGB need to be considered.



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EN 12966-1

Clause	Requirement + Test	Result - Remark	Verdict
7	Visual performance	See test report GZEE231100455331 Amendment 01	P
8	Physical performance		P
8.2	Environmental requirements		P
8.2.1	Temperature	See test report GZES231102107502 Amendment 01	P
8.2.2	Resistance of electrical / electronic components to the effects of pollution		P
	The manufacturer shall declare the degree of resistance to pollution in accordance with EN 60664-1.		P
8.2.3	Resistance to corrosion	See test report GZES231102107505 Amendment 01	P
8.2.4	Degrees of protection provided by enclosures (IP-level)	See test report GZES231102107504 Amendment 01	P
8.3	Structural performance		P
8.3.2	Resistance to horizontal Loads		N/A
8.3.3	Passive safety for VMS support		P
	If the manufacturer is declaring passive safety, the VMS supports shall comply with one of the classes of EN 12767. If passive safety is not declared, the VMS supports shall be considered as Class 0 of EN 12767.	Class 0	P
8.3.4	Impact resistance	See test report GZES231102107501 Amendment 01	P
8.3.5	Vibration resistance	See test report GZES231102107503 Amendment 01	P
8.4	Electrical requirements	See test report GZES231102107501 Amendment 01	P
8.5	Electromagnetic compatibility	See test report GZEM231100642402	P
9	Test methods		P
10	Product classification codes		P
	The VMS classification will result from tests carried out on the Test Module and shall be included in the marking, labelling and product information (see Clause 11).		P
11	Marking, labelling and product information		P
11.1	General Marking and labelling to meet regulatory requirements are given in Annex ZA.		P



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EN 12966-1

Clause	Requirement + Test	Result - Remark	Verdict
11.2	Sign assemblies (with and without supports)		P
11.2.1	Marking and labelling		P
	Where specific marking is also a regulatory requirement it need not be repeated and is deemed to be compliant with this clause, however all non-regulatory marking shall be placed in such a position as to avoid confusion with regulatory marking. Finished VMS shall be clearly, durably and visibly marked with the following information:		P
	a) name or identifying mark of the manufacturer;		P
	b) name and registered address of the manufacturer;		P
	c) product name and its relevant characteristics;		P
	d) number and year of this document (EN12966:2005+A1:2009);		P
	e) electrical and physical ratings for the connection to the supplies e.g. rated or ranged voltage, current, frequency, wattage, air pressure etc.;		P
	f) year of manufacture.		P
	Additional markings shall be permitted, provided that they do not give rise to misunderstanding. Where symbols are used, they shall conform to ISO 7000 where appropriate symbols exist.		N/A
	The markings shall be in characters legible at a normal reading distance such that the total area of the marking is at least 100 cm ² and shall be sufficiently durable to last the expected life of the sign. Marking required by this document shall not be placed on the front face or any removable parts, which can be replaced in such a way that the marking would become misleading.		P
	In considering the durability of the marking, the effect of normal use shall be taken into account.		P
11.2.2	Product information		P
	The manufacturer shall make available the following information:		P
	a) instructions for the assembly and erection of the sign;		P
	b) details of any limitations on location or use;		P
	c) instructions for the handling, maintenance and cleaning of the sign, including component replacement;		P



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EN 12966-1

Clause	Requirement + Test	Result - Remark	Verdict
	d) safety and environmental instructions and their eventually derived precaution measures in regards to the operating, installing, servicing, transporting or storing of the product;		P
	e) details of luminance control device (if required).		P
	Product information related to safety shall be in a language, which is acceptable in the country in which the product is to be installed.		P
11.3	Components		P
	Full details of the component's specifications shall be supplied. Where a component conforms to a European Standard the marking shall be as specified in the relevant standard. The manufacturer shall make available the following information:		P
	a) where the component is not covered by and/or does not conform to a European Standard, a detailed technical specification of the component, which shall become part of the ITT for the VMS;		N/A
	b) instructions on the application of the component;		P
	c) details of any limitations on location or use, including potential incompatibility with other materials;		P
	d) instructions on the operation and maintenance of the component;		P
	e) safety and environmental information and their eventually derived protection measures in regards to the operating, installing, servicing, transporting or storing of the product.		P
12	Evaluation of conformity		P
12.1	<p>General</p> <p>This document contains a number of defined requirements, some of which can be demonstrated on the test module; others may be declared by the manufacturer and demonstrated by extrapolation of previous test results. In addition the manufacturer shall hold the technical documentation which demonstrates how the performance requirements are met on each sign produced.</p> <p>The compliance of a VMS with the requirements of this document and with the stated values (including classes) shall be demonstrated by initial type testing and factory production control.</p>		P



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EN 12966-1

Clause	Requirement + Test	Result - Remark	Verdict
12.2	Initial type testing (ITT) Shall be in accordance with EN 12966-2.		P
12.3	Factory production control (FPC) Shall be in accordance with EN 12966-3.	See FPC report	P
13	Dangerous substances		P
	Materials used in products shall not release any dangerous substances in excess of the maximum permitted levels specified in a relevant document for the material or permitted in the national regulations of the member state of destination.		P



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EN 12966-1

TABLE: Critical components information

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Power supply cord & internal wire & Earth wire	B	Shanghai Echu Wire & Cable Co., Ltd.	1015	AC 300 V, 105 °C, VW-1, 12 AWG	UL 758	UL E316005 Tested with appliance
Alternative	A	Interchangeable	1015	Min. rated AC 300 V, 105 °C, VW-1, 12 AWG	UL 758	UL
Heat-shrinkable tube	B	Shenzhen Wolida Trading Co Ltd	RSFR-H	125°C, 600V, VW-1	UL 224	UL E329530 Tested with appliance
	D	Shenzhen Woer Heat-Shrinkable Material Co Ltd	RSFR-H	125°C, 600V, VW-1	UL 224	UL E203950 Tested with appliance
PCB	B	Long Yan Jinshiyu Electronic Ltd	JSY-1	V-0, 130 °C	UL 796	UL E348782 Tested with appliance
Alternative	A	Interchangeable	Interchangeable	Min. rated V-0, 130 °C	UL 796	UL
Power supply	B	Shenzhen Powerld Enterprises Co., Ltd.	VAT-UP200S-4.5-55L	Input: 100-240 VAC; 50/60 Hz, 3 A Max. Output: 4,5-4,6 Vdc, 0-40 A	IEC 62368-1	DK-110293-UL Tested with appliance
Plastic enclosure of LED module	B	Kingfa Sci & Tech Co Ltd	JH960 HT (M1) (sr), JH960 HT (M1) (ccc) (##)(sr), JH960-HT (M1) (ccc) (##)(sr)	5VB, 80 °C, thickness: min. 3,0	UL 94	UL E171666 Tested with appliance
LED	B	Shenzhen Hongzheng Optoelectronic Co., Ltd.	HD-4DS10	Red: 1,8-2,4V, IF=20 mA, 620-625 nm; Green: 2,6-3,2 V, IF=20 mA, 531-534 nm; Blue: 2,6-3,2 V, IF=20 mA, 469-472 nm	EN 12966-1	Tested with appliance



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Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Supplementary information:						
<p>1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.</p> <p>The codes above have the following meaning:</p> <p>A - The component is replaceable with another one, also certified, with equivalent characteristics</p> <p>B - The component is replaceable if authorised by the test house</p> <p>C - Integrated component tested together with the appliance</p> <p>D - Alternative component</p>						



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Annex 1

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch	GZEE231100455331 Amendment 01	2026-02-10
	GZES231102107501 Amendment 01	2026-02-02
	GZES231102107502 Amendment 01	2026-02-02
	GZES231102107503 Amendment 01	2026-02-02
	GZES231102107504 Amendment 01	2026-02-02
	GZES231102107505 Amendment 01	2026-02-02
	GZEM231100642402	2026-02-26

Annex 2

TECHNICAL BASIS

VMS16S-4535RGB:

Title	Date / Version
PCB layout	2023-12-04, V1.0
Circuit diagram	2023-12-04, V1.0
User Manual	2024-02-02, V1.0
Dimension drawing	Version A0
BOM	2025-05-13
Assembly drawing	Version A0
VMS16S-4535RGB-DOP-01	2025-04-01
Component lifetime declaration	2025-04-01
No structure performance declaration	2025-03-28



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VMS10S-4535RGB:

Title	Date / Version
PCB layout	2025-03-10
Circuit diagram	2025-12-19
User Manual	2024-02-02, V1.0
Dimension drawing	Version A0
BOM	2025-12-13
Assembly drawing	Version A0
VMS10S-4535RGB-DOP-01	2026-02-06
Declaration	2026-02-06



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Annex 3:

BOM of Cabinet (VMS16S-4535RGB)

NAME	exponent	material code	name	specifications	Process code	Unit usage	unit	supplier
1	finished product		Waterproof finished product box	VMS P16S-4535RGB SA640x640 Waterproof finished product box		1	PCS	\
2	1	107041446	Fully enclosed aluminum box	640*640*120MM/Pn Aluminum box	Z	1	PCS	SHenzhen Chantai
3	1		P16 outdoor full-color module	P16U1S06-4535RGB16X16-X2301-EMC Finished module	Z	1	PCS	Huizhou Mepro Optech Co.,Ltd
4	1	114103003	P16Wire inside the standard box	VMS P16SA640x640 Wiring inside the box V1.0	X	1	cover	Huizhou Mepro Optech Co.,Ltd
5	.2	114030101	DC power line	BVR2.5Square red black power cord (multi-core)	X	1.2	m	Shenzhen Biaoding
6	.2	114040033	Finished power cord	VH4P Finished power cord, L=22CM	X	1.0	PCS	Shenzhen Yuanpu
7	.2	114030104	DC power line	RVB2*1.5Red black dual stranded power cord	X	0.3	m	Shenzhen Yuanpu
8	.2	114070001	AC power line	RVV3*2.5 Cable line	X	2.5	m	Shenzhen Biaoding
9	.2	114050401	AC ground wire	1.5 Square grounding wire	X	1.0	m	Shenzhen Yuanpu
10	.2	110050104	connecting terminal	RV3.5-4 (Black)	X	5.0	PCS	Shenzhen Yuanpu
11	.2	110050110	connecting terminal	RV3.5-4 (Blue)	X	2.0	PCS	Shenzhen Yuanpu



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NAME	exponent	material code	name	specifications	Process code	Unit usage	unit	supplier
12	.2	110050111	connecting terminal	RV3.5-4 (Yellow)	X	2.0	PCS	Shenzhen Yuanpu
13	.2	110050113	connecting terminal	SV2-4 Red	X	2	PCS	Shenzhen Yuanpu
14	.2	110050114	connecting terminal	SV2-4 Black	X	2	PCS	Shenzhen Yuanpu
15	.2	114080001	HDPE	Wrapped tube (black)	X	1.0	wrap	Shenzhen Xingda
16	.2	113030401	screw	4*8 Combination screw	Z	16	PCS	Shenzhen Feitai
17	.2	114010002	Flat Cable	16P Flat Cable	X	0.3	m	Shenzhen Yuanpu
18	.2	110070201	Pressure head	16P Grey indenter with a spacing of 2.54	X	2	PCS	Shenzhen Xinshilian
19	.2	110070203	Pressure head	16P Grey butterfly mount	X	2	PCS	Shenzhen Xinshilian
20	1		Standard finished box accessories	VMS P16SA640x640 Finished box accessories V1.0	Z	1	cover	Huizhou Mepro Optech Co.,Ltd
21	.2	109020803	switch power supply	VAT-UP200S-X-55L	Z	2	PCS	Powerld Enterprises Co.,Ltd.
22	.2	106031401	Synchronous receiving card	NW A5S PLUS Synchronous receiving card	Z	1	PCS	Novastar-led
23	.2	106071311	HUB	QP-HUB75(AXS)-EMC	Z	1	PCS	Huizhou Mepro Optech Co.,Ltd
24	.2	115051201	shielding case	Receiving card shielding box	Z	1	PCS	Shenzhen Chantai
25	.2	115051201	shielding case	Power shielding box	Z	1	PCS	Shenzhen Chantai



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NAME	exponent	material code	name	specifications	Process code	Unit usage	unit	supplier
26	.2	113030302	screw	3*6 Combination screw	Z	24	PCS	Shenzhen Feitai
27	.2	108040119	screw	3*6 Combination screw	Z	4	PCS	Shenzhen Feitai
28	.2	113014016	screw	KM4X12 Flat iron white machine tooth screw	Z	16	PCS	Shenzhen Feitai

BOM of Single module (VMS16S-4535RGB)

Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	supplier
1	.1		Finished module	P16U1S06-4535RGB16X16-X2301-EMC Finished module	Z	1	PCS	Huizhou Mepro Optech Co.,Ltd
2	.2		PCBA	P16U1S06-4535RGB16X16-X2301-EMC PCBA	Z	1	PCS	meproled
3	..3		PCB	P16U1S06-4535RGB16X16-X2301-EMC	S	1	PCS	new light
4	..3	101180052	4535LED	HD-4DS10(30°)	D	256	PCS	Shenzhen Hongzheng Optoelectronics Co., Ltd
5	..3	103082159	IC	ICND1069AP SSOP24-0.635	S	48	PCS	Chipone Technology (Beijing) Co., Ltd
6	..3	103050230	IC	74HC245 TSSOP20	S	2	PCS	Shenzhen Xinhongzhen
7	..3	104030701	resistance	R Adjustable resistor 0603 1%	S	16	PCS	Shenzhen Jinchengwei
8	..3	104030702	resistance	G Adjustable resistor 0603 1%	S	16	PCS	Shenzhen Jinchengwei



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Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	supplier
9	..3	104030703	resistance	B Adjustable resistor 0603 1%	S	16	PCS	Shenzhen Jinchengwei
10	..3	104080153	capacitance	104capacitance/100nF 0603 50V X7R 10%	S	60	PCS	Shenzhen Jinchengwei
11	..3	104080113	capacitance	102capacitance/1nF 0603 50V X7R 10%	S	60	PCS	Shenzhen Jinchengwei
12	..3	104080154	capacitance	47pFcapacitance 0603 50V COG 5%	S	30	PCS	Shenzhen Jinchengwei
13	..3	104120509	Electrolytic capacitor	220uF/10V φ6.3*5.4	S	10	PCS	Shenzhen Jinchengwei
14	..3	110010702	SMD box header	2*8P 2.54 Spacing SMT/Grey Patch Jianniu (High Temperature Resistant)	S	2	PCS	Shenzhen Xinshilian
15	..3	110040623	SMD Power socket	VH6P Surface mount power socket with a spacing of 3.96mm, beige color (with positioning column, high temperature resistance)	S	1	PCS	Shenzhen Xinshilian
16	..3	120040856	Bottom shell	P16-16X16-15A-3535HT	Z	1	PCS	new light
17	..3	120040857	face shield	P16-16X16-15A-3535MZ	Z	1	PCS	new light
18	..3	120040858	Waterproof Rubber Ring	XG P16-16x16-15A-3535PQ Waterproof Rubber Ring	Z	1	PCS	new light
19	..3	113021007	Self tapping screws	KA1.2*6 Flat head pointed tail iron white self tapping screw	Z	24	PCS	Shenzhen Feitai



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Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	supplier
20	..3	113021009	Self tapping screws	PA1.2*6 Round headed pointed tail stainless steel black self tapping screw	Z	72	PCS	SHenzhen Feitai
21	..3	401030208	Potting & Encapsulation	S2095 fire-proof potting compound	Z	0.15	kg	Beijing Siruiman
22	..3	401030301	Quick Adhesive	S3350 Quick Adhesive	Z	0.05	kg	Beijing Siruiman

BOM of Cabinet (VMS10S-4535RGB):

Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	Position Number	supplier
1	.1		Finished module	P10U2S06-4535RGB32X16-X2501-EMC Finished module	Z	1	PCS		Huizhou Mepro Optech Co.,Ltd
2	.2		PCBA	P16U1S06-4535RGB16X16-X2301-EMC PCBA	Z	1	PCS		meproled
3	..3		PCB	P10U2S06-4535RGB32X16-X2501-EMC (Size: 317.16x157.16mm, 6Layer, Thickness: 1.6mm) PCB	S	1	PCS		new light
4	..3	101180052	4535LED	HD-4DS10(30°)	D	256	PCS		Shenzhen Hongzheng Optoelectronics Co., Ltd
5	..3	103082167	IC	ICND2153S SSOP24	S	48	PCS	UR1-16 UG1-16 UB1-16	Chipone Technology (Beijing) Co., Ltd



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Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	Position Number	supplier
6	..3	103050230	IC	74HC245 TSSOP20	S	3	PCS	U1-U3	Shenzhen Xinhongzhen
7	..3	104030701	resistance	R Adjustable resistor 0603 1%	S	16	PCS	RV1-RV16	Shenzhen Jinchengwei
8	..3	104030702	resistance	G Adjustable resistor 0603 1%	S	16	PCS	GV1-GV16	Shenzhen Jinchengwei
9	..3	104030703	resistance	B Adjustable resistor 0603 1%	S	16	PCS	BV1-BV16	Shenzhen Jinchengwei
10	..3	104080153	capacitance	104capacitance/100nF 0603 50V X7R 10%	S	71	PCS	C1-C71	Shenzhen Jinchengwei
11	..3	104080113	capacitance	102capacitance/1nF 0603 50V X7R 10%	S	71	PCS	CU1-CU71	Shenzhen Jinchengwei
12	..3	104080154	capacitance	47pFcapacitance 0603 50V COG 5%	S	45	PCS	CP1-CP45	Shenzhen Jinchengwei
13	..3	104120509	Electrolytic capacitor	220uF/10V φ6.3*5.4	S	12	PCS	CD1-12	Shenzhen Jinchengwei
14	..3	110010702	SMD box header	2*8P 2.54 Spacing SMT/Grey Patch Jianniu (High Temperature Resistant)	S	2	PCS	JPIN,JPOUT	Shenzhen Xinshilian
15	..3	110040623	SMD Power socket	VH6P Surface mount power socket with a spacing of 3.96mm, beige color (with positioning column, high temperature resistance)	S	1	PCS	POW	Shenzhen Xinshilian
16	..3	120040856	Bottom shell	XG P10-16X32-16B-3535HT	Z	1	PCS		new light



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Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	Position Number	supplier
17	..3	120040857	face shield	XG P10-16X16-20C-3535MZ	Z	1	PCS		new light
18	..3	120040858	Waterproof Rubber Ring	XG P6.667-24x48-17A-3535PQ Waterproof Rubber Ring	Z	1	PCS		new light
19	..3	113021007	Self tapping screws	CA1.7*6 Round headed tail iron white self tapping screw	Z	18	PCS		Shenzhen Feitai
20	..3	113021009	Self tapping screws	PA1.7*8 Round headed pointed tail stainless steel black self tapping screw	Z	44	PCS		Shenzhen Feitai
21	..3	401030208	Potting & Encapsulation	S2095 fire-proof potting compound	Z	0.15	kg		Beijing Siruiman
22	..3	401030301	Quick Adhesive	S3350 Quick Adhesive	Z	0.05	kg		Beijing Siruiman

BOM of Single module (VMS16S-4535RGB):

Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	Position Number	supplier
1	.1		Finished module	P10U2S06-4535RGB32X16-X2501-EMC Finished module	Z	1	PCS		Huizhou Mepro Optech Co., Ltd
2	.2		PCBA	P16U1S06-4535RGB16X16-X2301-EMC PCBA	Z	1	PCS		meproled
3	..3		PCB	P10U2S06-4535RGB32X16-X2501-EMC (Size: 317.16 x	S	1	PCS		new light



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Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	Position Number	supplier
				157.16 mm, 6 Layer, Thickness: 1.6mm) PCB					
4	..3	101180052	4535LED	HD-4DS10(30°)	D	256	PCS		Shenzhen Hongzheng Optoelectronics Co., Ltd
5	..3	103082167	IC	ICND2153S SSOP24	S	48	PCS	UR1-16 UB1-16 UG1-16	Chipone Technology (Beijing) Co., Ltd
6	..3	103050230	IC	74HC245 TSSOP20	S	3	PCS	U1-U3	Shenzhen Xinhongzhen
7	..3	104030701	resistance	R Adjustable resistor 0603 1%	S	16	PCS	RV1-RV16	Shenzhen Jinchengwei
8	..3	104030702	resistance	G Adjustable resistor 0603 1%	S	16	PCS	GV1-GV16	Shenzhen Jinchengwei
9	..3	104030703	resistance	B Adjustable resistor 0603 1%	S	16	PCS	BV1-BV16	Shenzhen Jinchengwei
10	..3	104080153	capacitance	104capacitance/100nF 0603 50V X7R 10%	S	71	PCS	C1-C71	Shenzhen Jinchengwei
11	..3	104080113	capacitance	102capacitance/1nF 0603 50V X7R 10%	S	71	PCS	CU1-CU71	Shenzhen Jinchengwei
12	..3	104080154	capacitance	47pFcapacitance 0603 50V COG 5%	S	45	PCS	CP1-CP45	Shenzhen Jinchengwei
13	..3	104120509	Electrolytic capacitor	220uF/10V φ6.3*5.4	S	12	PCS	CD1-12	Shenzhen Jinchengwei



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Serial Number	exponent	material code	name	specifications	Process code	Unit usage	unit	Position Number	supplier
14	..3	110010702	SMD box header	2*8P 2.54 Spacing SMT/Grey Patch Jianniu (High Temperature Resistant)	S	2	PCS	JPIN,JPOUT	Shenzhen Xinshilian
15	..3	110040623	SMD Power socket	VH6P Surface mount power socket with a spacing of 3.96mm, beige color (with positioning column, high temperature resistance)	S	1	PCS	POW	Shenzhen Xinshilian
16	..3	120040856	Bottom shell	XG P10-16X32-16B-3535HT	Z	1	PCS		new light
17	..3	120040857	face shield	XG P10-16X16-20C-3535MZ	Z	1	PCS		new light
18	..3	120040858	Waterproof Rubber Ring	XG P6.667-24x48-17A-3535PQ Waterproof Rubber Ring	Z	1	PCS		new light
19	..3	113021007	Self tapping screws	CA1.7*6 Round headed tail iron white self tapping screw	Z	18	PCS		Shenzhen Feitai
20	..3	113021009	Self tapping screws	PA1.7*8 Round headed pointed tail stainless steel black self tapping screw	Z	44	PCS		Shenzhen Feitai
21	..3	401030208	Potting & Encapsulation	S2095 fire-proof potting compound	Z	0.15	kg		Beijing Siruiman
22	..3	401030301	Quick Adhesive	S3350 Quick Adhesive	Z	0.05	kg		Beijing Siruiman

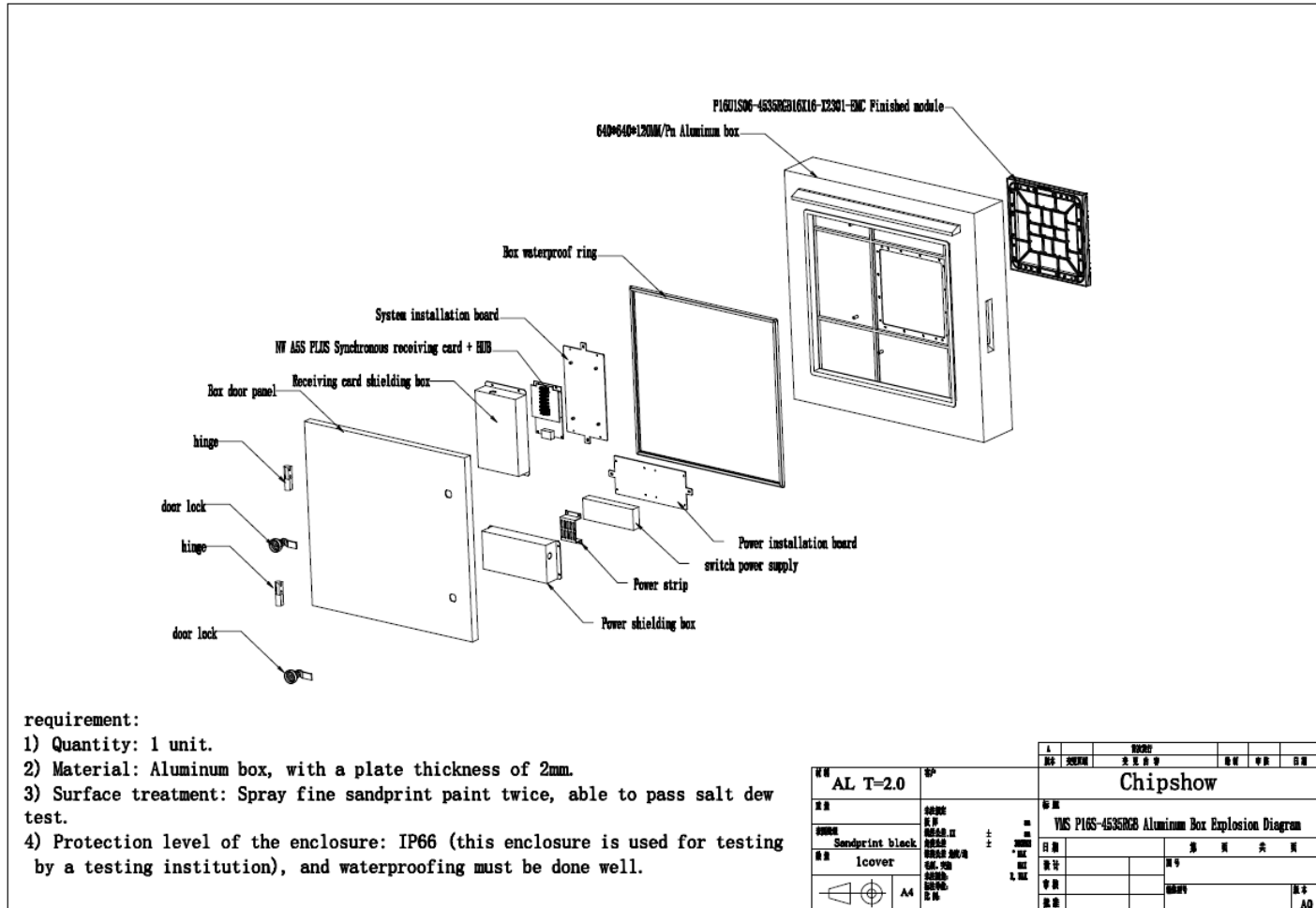


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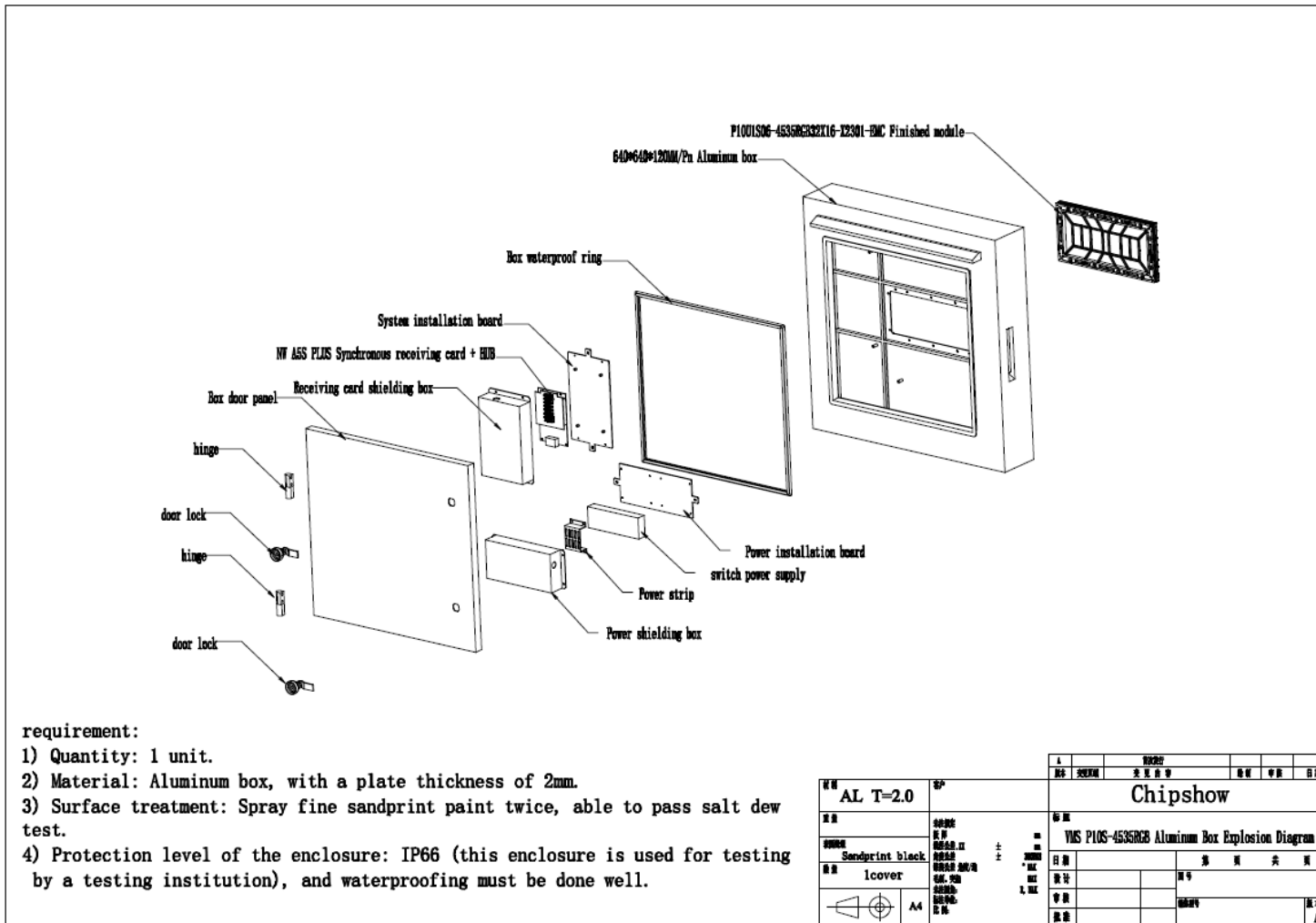
Annex 4: assembly drawing



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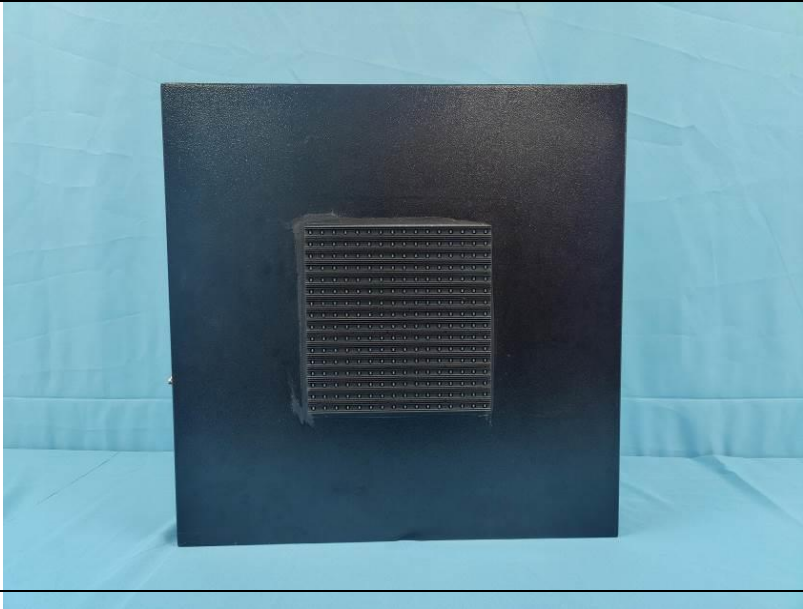
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Attachment 1: Photo documentation

Details of: Product view of VMS16S-4535RGB

<p>View:</p> <p><input type="checkbox"/> general</p> <p><input checked="" 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: Product view of VMS16S-4535RGB

<p>View:</p> <p><input type="checkbox"/> general</p> <p><input type="checkbox"/> front</p> <p><input checked="" 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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Attachment 1: Photo documentation

Details of: LED module

View:

general

front

rear

right

left

top

bottom

internal

Details of: LED module

View:

general

front

rear

right

left

top

bottom

internal



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Attachment 1: Photo documentation

Details of: Product view of VMS10S-4535RGB

View:

general

front

rear

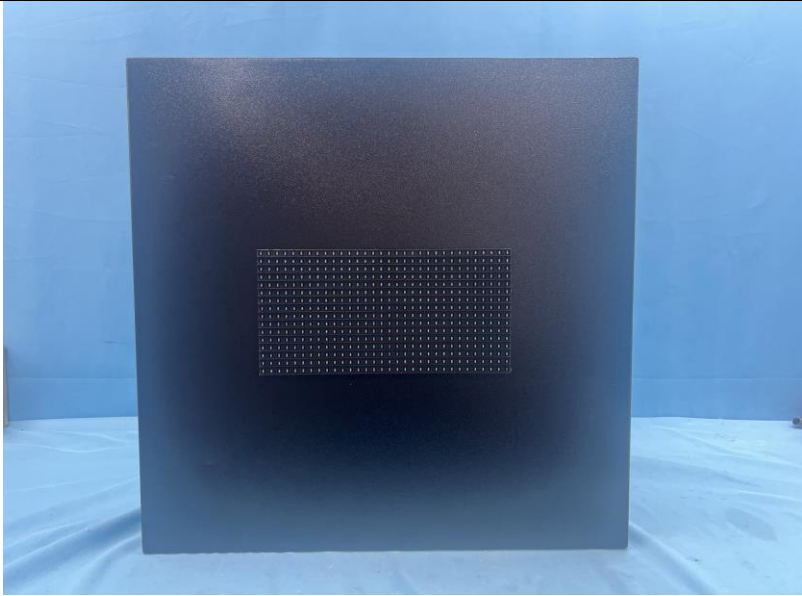
right

left

top

bottom

internal



Details of: Product view of VMS10S-4535RGB

View:

general

front

rear

right

left

top

bottom

internal





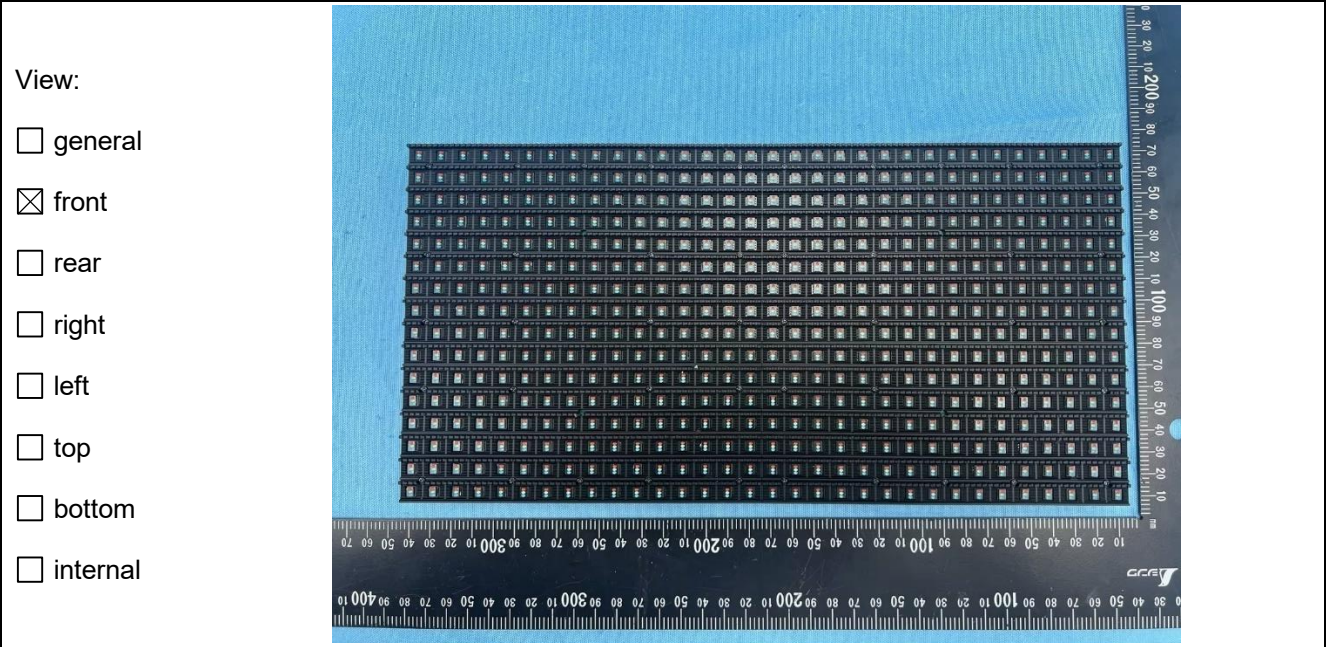
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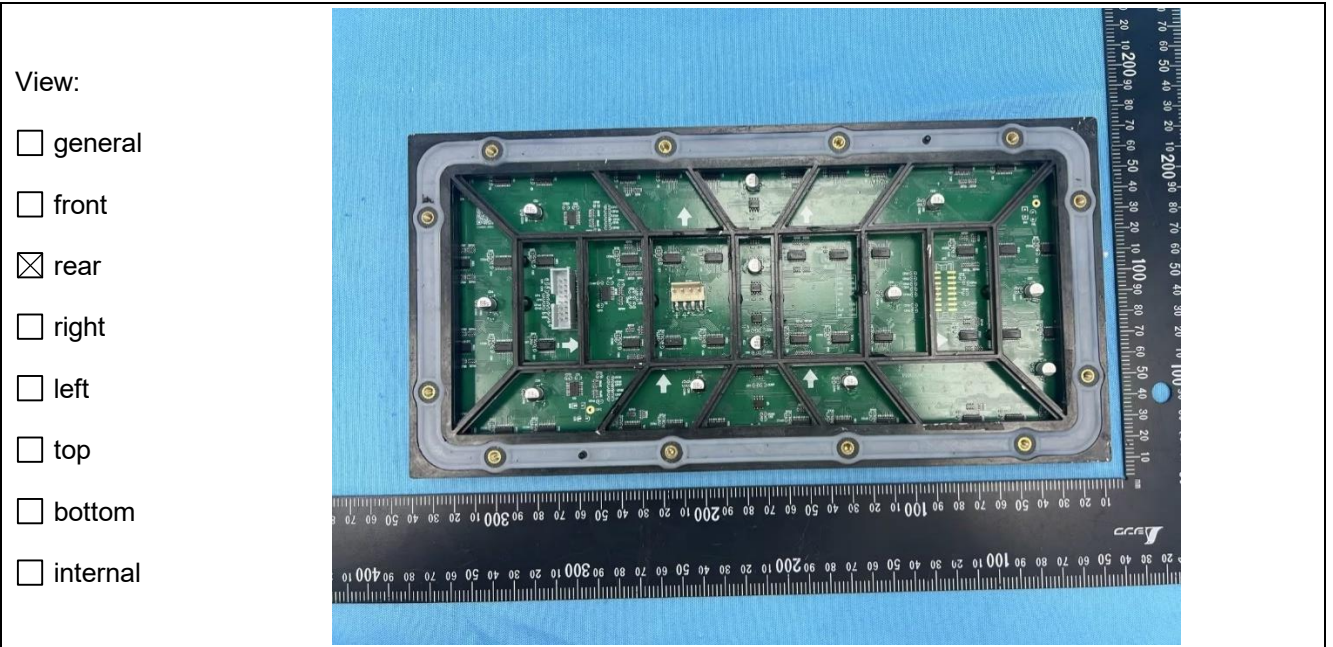
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Attachment 1: Photo documentation

Details of: LED module



Details of: LED module



- - - End of Report - - -



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