

Product Brief

YZ550MBU10-V1

2026-01-01

Doc Version 1.0



Issued by : Sam Wu

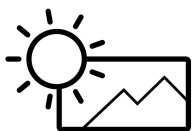
Approved by : Boen Liu

Document History

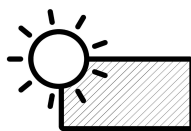
Doc Version	Date	Description	Issued by
1.0	2026-01-01	Standard model / PD02	Sam Wu

Product Features

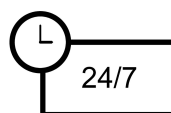
- It is one of ultra-bright LCD modules with outdoor usage
- 55 inch 4K & 1000 nits
- Series: MD & outdoor aluminum structure & landscape / portrait mode
- Suitable for most application scenarios, including commercial displays, industrial use, signage, and exhibitions
- Customized LCD are required to meet the needs of military and medical application scenarios.



Sunlight readable



Haze 3%



Operation
Long lifetime



Built in Speaker
Not equipped



Multi touch
Not equipped



AD Board
Not equipped



68°C Standard



2H



IP65
Not support

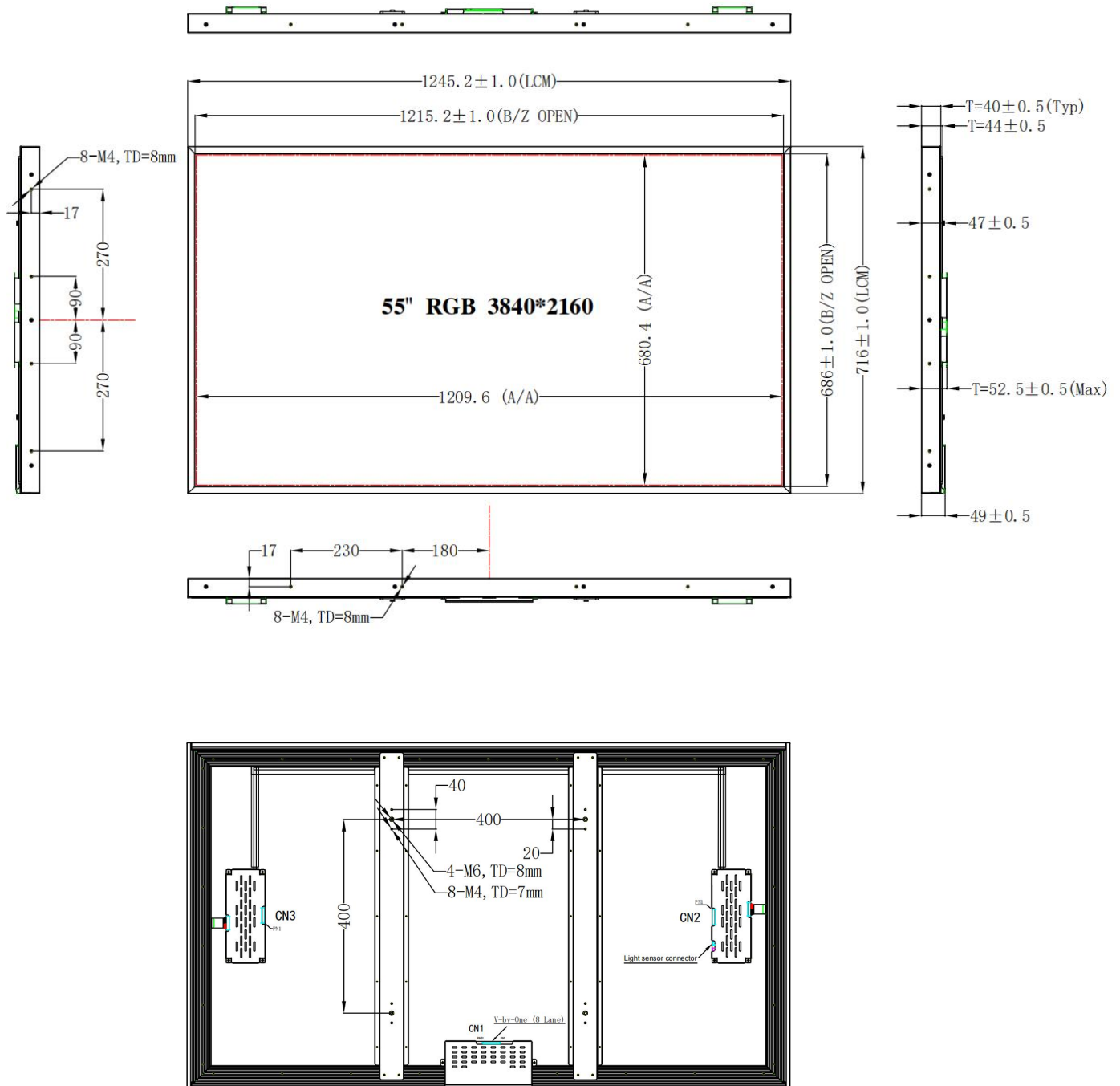


Mini-Led 30% - 50%
Energy savings
Not support

General Features

Item content		Specifications
Display Parameters	Resolution	3840(RGB) * 2160(FHD)
	Active area	1209.6mm(H) * 680.4mm(V)
	Pixel pitch	0.315mm(H) * 0.315mm(V)
	Display colors	10-bit(D) & 1.07 Billion
	Backlight type	DLED
	Response time	8ms (G to G) (Typ.)
	Luminance	1000cd/m ² (Typ.) ±5%
	Contrast ratio	1,300 : 1 (Typ.) & 67% (NTSC) (Est.)
	Refresh rate	60Hz (Best)
	Dimming mode	Manual / Automatic & 30% - 100%
	Viewing angle	+89/-89(H) & +89/-89(V) (Typ.) (CR≥10)
	MTBF	50,000 Hours
Touch panel & cover glass	Touch scheme	/
	Touch type	/
	Support points	/
	Transmittance	/
	Function	/
	Thickness	/
	Impact protection	/
	Fitting method	/
Required parameters	Open cell	LC550EQC-SMA4 & 68°C (Surface)
	Casing color	White aluminum
	Power supply	/
	Fans	/
	Power consumption	197W (Typ.) ±5%
	Overall dimensions	1245.20mm(H) * 716.00mm(V) * 52.50mm(D) (Typ.)
	Weight	17.5kg ±0.2
	Motherboard	/
	Board connectivity	/
	OS	/
	IP rating front/rear	None / None
	TEMP operating/storage	0°C~50°C / -20°C~60°C
	Humidity	≤90%
	Warranty	24 months

Drawing



Definition

V-By-One (CN1):

Connector specifications: FI-RE51S-HF(manufactured by JAE) or GT05P-51S-H38(manufactured by LSM) or ISO50-C51B-C39(manufactured by UJU).

Corresponding connector specifications: FI-R51HL(manufactured by JAE) or compatible.

NO	Definition	Description
1	VCC	Power Supply +12.0V
2	VCC	Power Supply +12.0V
3	VCC	Power Supply +12.0V
4	VCC	Power Supply +12.0V
5	VCC	Power Supply +12.0V
6	VCC	Power Supply +12.0V
7	VCC	Power Supply +12.0V
8	VCC	Power Supply +12.0V
9		N0 Connection
10	GND	Ground
11	GND	Ground
12	GND	Ground
13	GND	Ground
14		N0 Connection
15		N0 Connection
16		N0 Connection
17		N0 Connection
18		N0 Connection
19	RX_12C_SDA	RX_12C_SDA
20	RX_12C_SCL	RX_12C_SCL
21		N0 Connection
22		N0 Connection
23		N0 Connection
24		N0 Connection
25	RX_HTPD	Hot plug detect output,Open drain
26	RX_LOCK	Lock detect output,Open drain
27	GND	Ground
28	V-By-One_RX_0N1	V-By-One Data Lane 0
29	V-By-One_RX_0P1	V-By-One Data Lane 0
30	GND	Ground
31	V-By-One_RX_1N1	V-By-One Data Lane 1
32	V-By-One_RX_1P1	V-By-One Data Lane 1
33	GND	Ground
34	V-By-One_RX_2N1	V-By-One Data Lane 2
35	V-By-One_RX_2P1	V-By-One Data Lane 2
36	GND	Ground

37	V-By-One_RX_3N1	V-By-One Data Lane 3
38	V-By-One_RX_3P1	V-By-One Data Lane 3
39	GND	Ground
40	V-By-One_RX_4N1	V-By-One Data Lane 4
41	V-By-One_RX_4P1	V-By-One Data Lane 4
42	GND	Ground
43	V-By-One_RX_5N1	V-By-One Data Lane 5
44	V-By-One_RX_5P1	V-By-One Data Lane 5
45	GND	Ground
46	V-By-One_RX_6N1	V-By-One Data Lane 6
47	V-By-One_RX_6P1	V-By-One Data Lane 6
48	GND	Ground
49	V-By-One_RX_7N1	V-By-One Data Lane 7
50	V-By-One_RX_7P1	V-By-One Data Lane 7
51	GND	Ground

CN2 (PH2. 0X14)

PIN	Symbol	Description	note
1	VCC	Power supply voltage +24V	
2	VCC	Power supply voltage +24V	
3	VCC	Power supply voltage +24V	
4	VCC	Power supply voltage +24V	
5	VCC	Power supply voltage +24V	
6	GND	Power ground	
7	GND	Power ground	
8	GND	Power ground	
9	GND	Power ground	
10	GND	Power ground	
11	NC		
12	ON/OFF	Output enable signal	
13	DIM	Dimming signal	
14	PWM	Dimming signal	

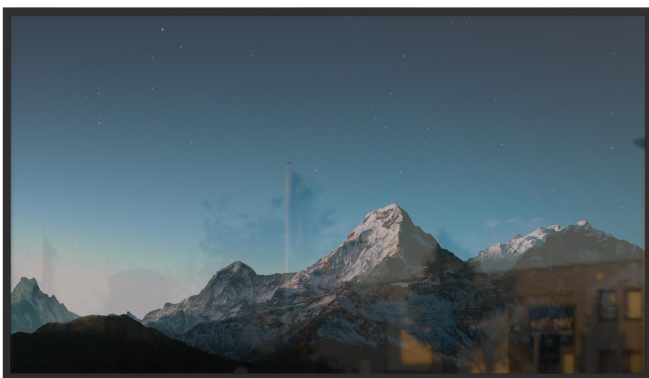
CN3 (PH2. 0X14)

PIN	Symbol	Description	note
1	VCC	Power supply voltage +24V	
2	VCC	Power supply voltage +24V	
3	VCC	Power supply voltage +24V	
4	VCC	Power supply voltage +24V	
5	VCC	Power supply voltage +24V	
6	GND	Power ground	
7	GND	Power ground	
8	GND	Power ground	
9	GND	Power ground	
10	GND	Power ground	
11	NC		
12	NC		
13	NC		
14	NC		

Packing Details

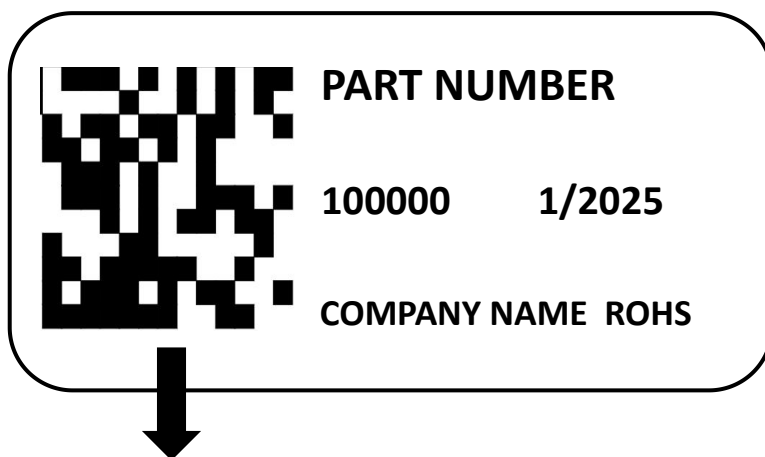
Item content		Specifications
Sample Eco-friendly Wooden	Package dimensions	1400.00mm(H) * 970.00mm(V) * 340.00mm(D) (Typ.)
	Packaging quantity	1pcs / 3pcs
	Gross weight	60.8kg / 95.8kg ±5%
12pcs / A Pallet Eco-friendly Corrugated Cardboard Box	Package dimensions	1340.00mm(H) * 810.00mm(V) * 1120.00mm(D) (Typ.)
	Packaging quantity	12pcs
	Gross weight	223.2kg
	Pallet dimensions	1345.00mm(H) * 120.00mm(V) * 1135.00mm(D) (Typ.)
	Pallet weight	20kg
	Totally dimensions	1345.00mm(H) * 930.00mm(V) * 1135.00mm(D) (Typ.)
	Totally weight	243.2kg ±5%
24pcs / A Pallet Eco-friendly Corrugated Cardboard Box	Package dimensions	1340.00mm(H) * 1620.00mm(V) * 1120.00mm(D) (Typ.)
	Packaging quantity	24pcs
	Gross weight	446.4kg
	Pallet dimensions	1345.00mm(H) * 120.00mm(V) * 1135.00mm(D) (Typ.)
	Pallet weight	20kg
	Totally dimensions	1345.00mm(H) * 1740.00mm(V) * 1135.00mm(D) (Typ.)
	Totally weight	466.4kg ±5%

More Image

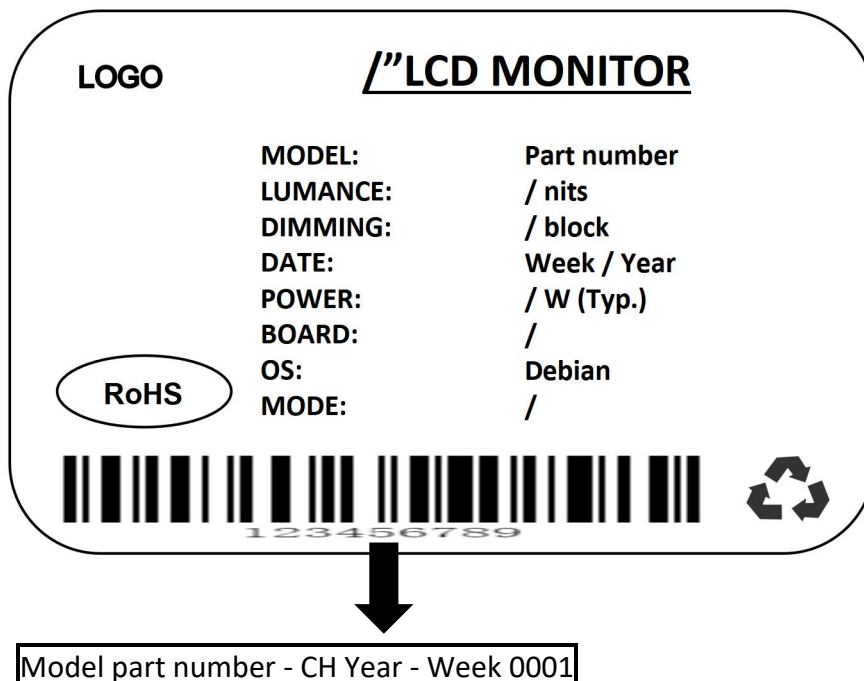


Appendix

Serial Label



Field N°1 12 digits	Field N°2 P/N	Field N°3 EMS code	Field N°4 N°OF
Sxxxx1000001	Part number	CN518115	OF100000



Model part number - CH Year - Week 0001