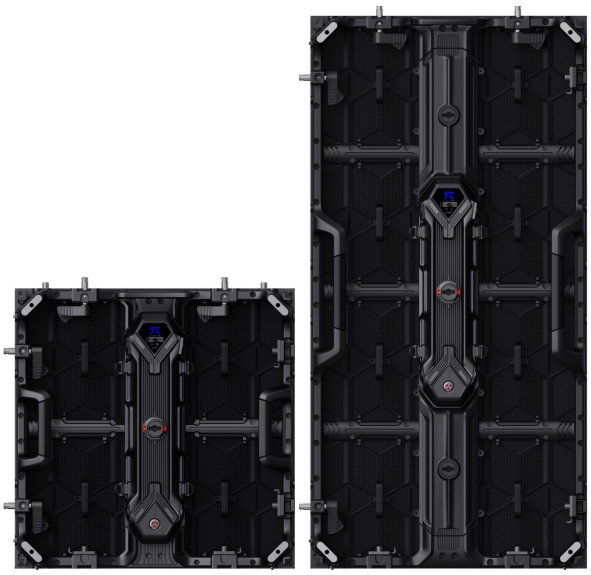
Product Specification

Datasheet



AV-EP Series

Product Version：V1.0

Date：20250529

Declaration

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The EP series indoor rental LED display from features standard cabinet sizes of 500mm*500mm and 500mm*1000mm. It comes equipped with ICN driver chips from Chipone and offers a high refresh rate of up to 7680Hz. Optional curved cabinets are available, allowing for adjustable inner and outer arcs ranging from -10° to +15°. Designed with structural stability to prevent deformation, the cabinet surface undergoes anodic oxidation treatment, ensuring resistance to impact and friction. This durability makes it well-suited for repeated assembly and disassembly in rental applications.

1.1 Application Scope

This technical specification is only applicable to EP series 250mm*250mm modules and corresponding die-cast aluminum cabinets.

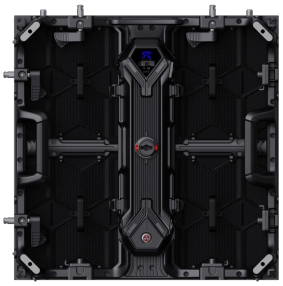
1.2 Product Features

- Optional pitch: EP2.60mm, Module size: 250mm*250mm;
- Cabinet size: Flat Screen: 500mm*500mm/500mm*1000mm, Right-Angle Screen: 500mm*500mm, Curved Screen: 500mm*500mm, Arc Screen: 250mm*500mm;
- Detachable power box, designed with a hard-connection plug-in system for easy replacement;
- The cabinet features foldable corner guards for effective edge LED and module protection;
- Optional curved cabinets support ±22.5° curvature for seamless splicing and versatile installations;
- The adjustable arc lock for flat cabinets allows angle adjustments from -10° to +15°;
- Four curved cabinets can form a complete cylinder, and a single curved cabinet supports right-angle splicing;

2. 250mm*250mm Module Specification

Item	Specification	Module Picture
Series	EP Series Module	
Material	plastic	
Pixel Pitch	2.60mm	
Resolution	96*96(W*H)dot	
Module Size	250*250（W*H）mm	
Module Weight	0.63kg	

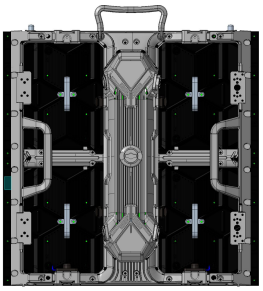
3. 500mm*500mm Flat Screen Cabinet Specification

Item	Specification	Cabinet Picture
Series	EP Series Cabinet	
Material	Die-casting aluminum	
Pixel Pitch	2.60mm	
Resolution	192*192(W*H)dot	
Cabinet Size	500*500*86（W*H*D）mm	
Cabinet Weight	7.57kg	

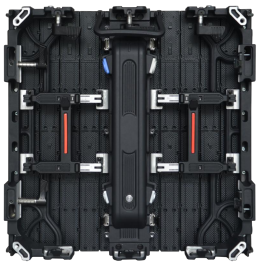
4. 500mm*1000mm Flat Screen Cabinet Specification

Item	Specification	Cabinet Picture
Series	EP Series Cabinet	
Material	Die-casting aluminum	
Pixel Pitch	2.60mm	
Resolution	192*384(W*H)dot	
Cabinet Size	500*1000*86（W*H*D）mm	
Cabinet Weight	12.75kg	

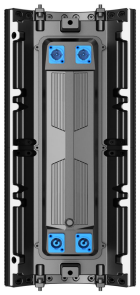
5. 500mm*500mm Right-Angle Cabinet Specification

Item	Specification	Cabinet Picture
Series	EP Series Cabinet	
Material	Die-casting aluminum	
Pixel Pitch	2.60mm	
Resolution	192*192(W*H)dot	
Cabinet Size	500*500*86（W*H*D）mm	
Cabinet Weight	6.67kg	

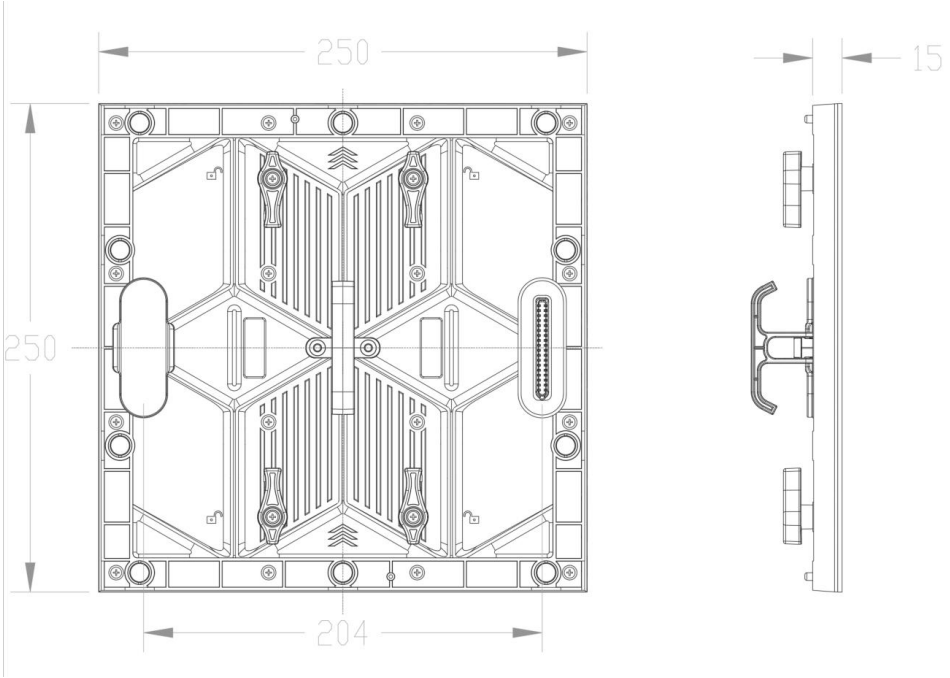
6. 500mm*500mm Curved Cabinet Specification

Item	Specification	Cabinet Picture
Series	EP Series Cabinet	
Material	Die-casting aluminum	
Pixel Pitch	2.60mm	
Resolution	192*192(W*H)dot	
Cabinet Size	500*500*86（W*H*D）mm	
Cabinet Weight	7.4kg	

0mm*500mm Arc Cabinet Specification

Item	Specification	Cabinet Picture
Series	EP Series Cabinet	
Material	Die-casting aluminum	
Pixel Pitch	2.60mm	
Resolution	96*192(W*H)dot	
Cabinet Size	250*500（W*H*D）mm	
Cabinet Weight	3.5kg	

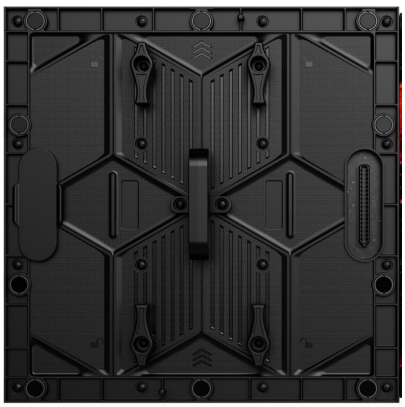
8. Module Dimension Structure



9. Module Picture

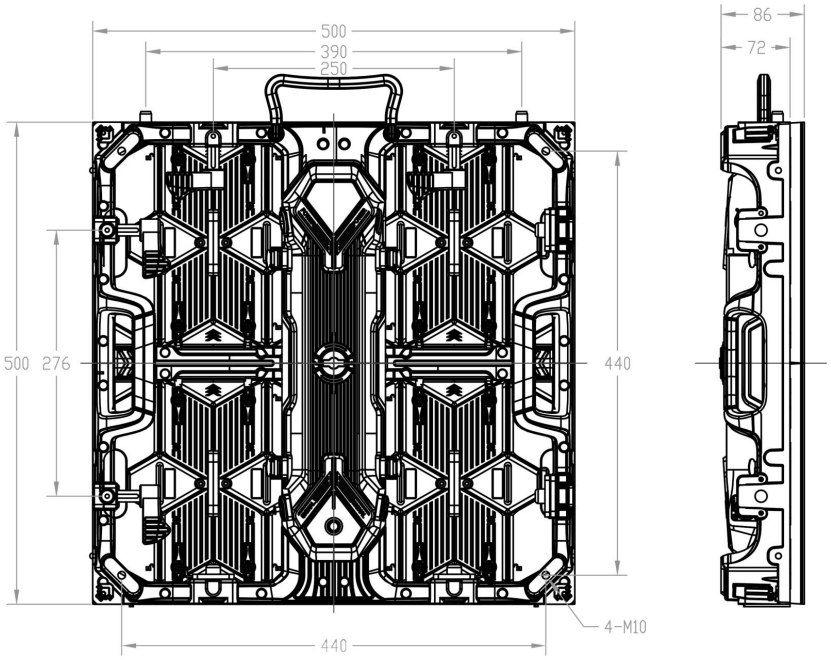


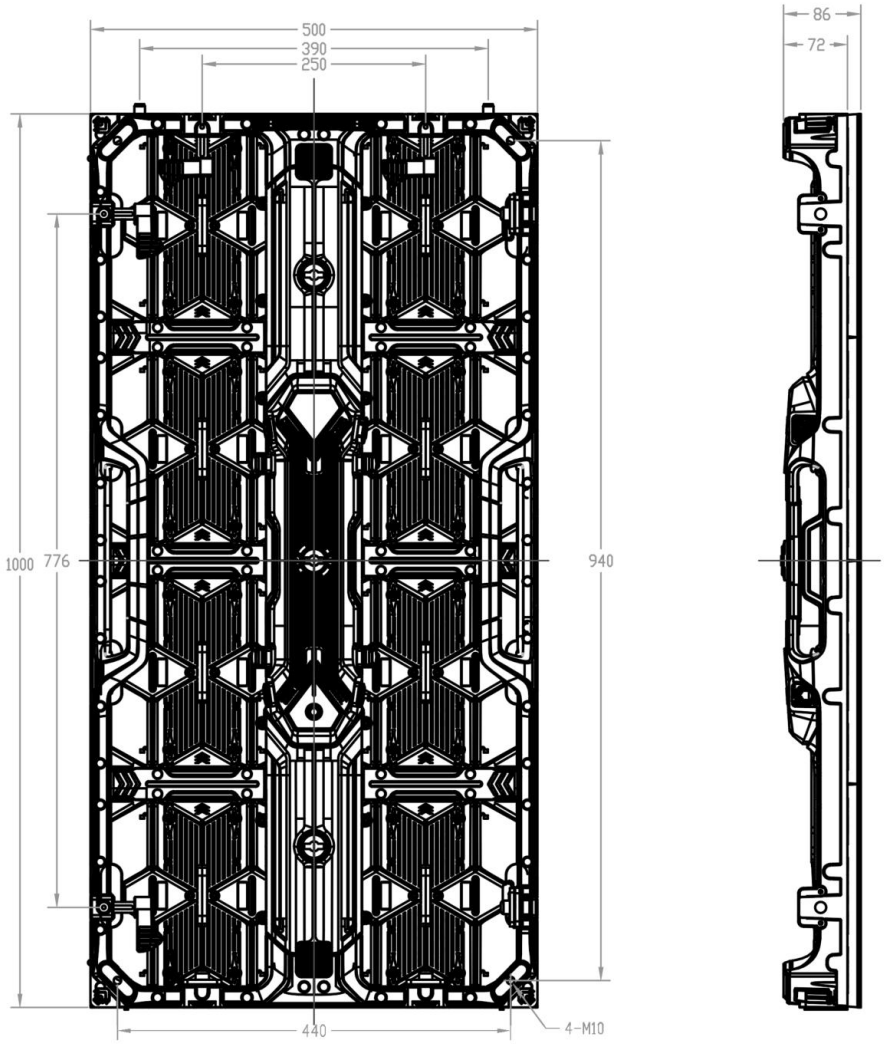
Front view



Back View

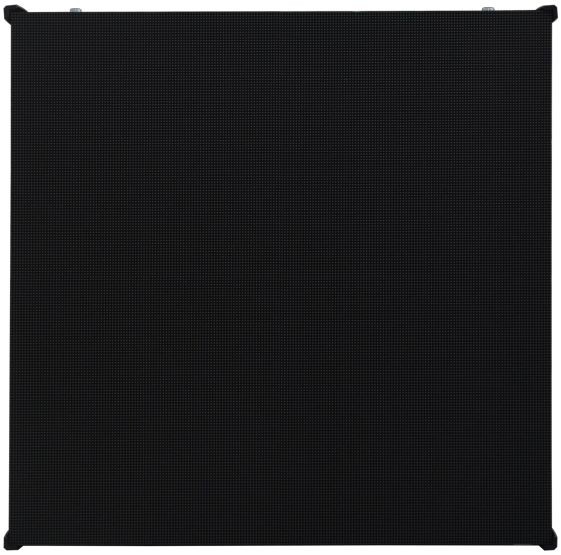
lat Screen Cabinet Dimension Structur





abinet Picture

11.1 500mm*500mm Flat Screen Cabinet Picture



Front view



Back View



Front side view



Back side view

500mm*1000mm Flat Screen Cabinet Picture



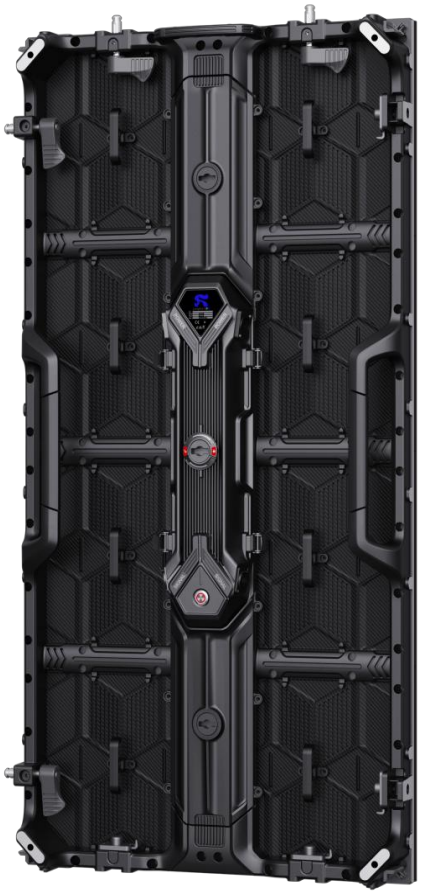
Front view



Back View



Front side view



Back side View

urved Cabinet Picture

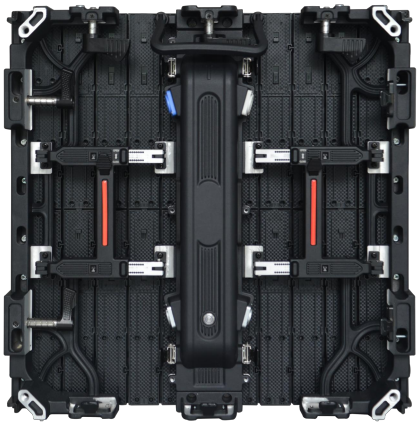


后视图



后视立体图

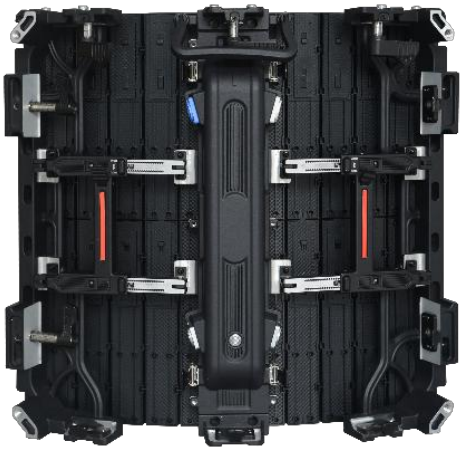
13.Curved Cabinet Picture



Back view



Back side view

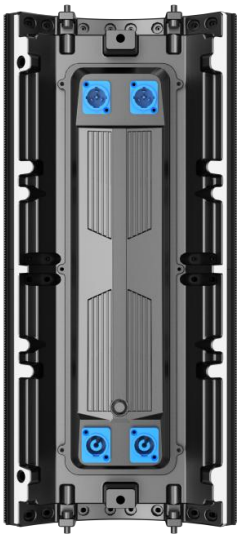


Convex Arc 22.5°

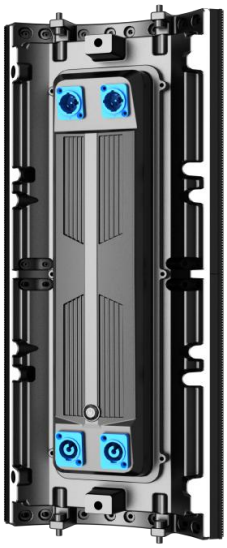


Concave Arc 22.5°

rc Cabinet Picture



Back view



Back side view

14. Flat Screen + Curved Screen Cabinet assembly





lat / Right-Angle Screen Technical Par

Item	Specification	EP2.6
Module Parameter	**Pixel Pitch (mm)**	2.6
	Pixel Structure	SMD 1R1G1B
	Pixel Density(dot//m²)	147,456
	Module Size(WxH)(mm)	250*250
	Backshell Material	Plastic
	Module Resolution(W*H)(dot)	96*96
	Maximum Current(A）	8.5
	Supply Voltage(V)	5
	Scanning Method	1/24
	Refresh Frequency(Hz)	≥7680
	Illumination(cd//m²)	600
	Driver IC	Constant Current Drive
	Contrast Ratio	≥5000:1
Cabinet Parameter	**Cabinet Size(W*H*D)**	500*500*86/500*1000*86
	Cabinet Material	Die Casting Aluminum
	Cabinet Weight(kg)	7.57/12.75
	Enclosure Connection Method	Quick Lock
	Installation/Maintenance Methods	Front or back Installation/Maintenance
	Color Temperature /Luminance Uniformity	3200-12000K Adjustable; ≥98%
	Chromatic Uniformity	±0.003Cx, Cy
	Horizontal/Vertical View	≥140°/≥120°
	Single-point Color Correction	Optional
	Single Point Brightness Correction	Optional
	Standard Receiver Card	A5S-PLUS
	Frame Rate(Hz)	50/60
	Protection Level	IP45
	Signal Interface Mode	Custom Interface
	Power Interface Method	Connector
	Input Voltage Range AC(V)	100-240
	Peak Power Consumption(W/m²)	≤650
	Average Power Consumption(W//m²)	≤200
	Working Temperature and Humidity Range	-20℃～+50℃,10%～95%RH
	Storage Temperature and Humidity Range	-40～+70℃,10%～95%RH
	Service Life(H)	≥100000
	Mean Time Between Failure(H)	≥10000

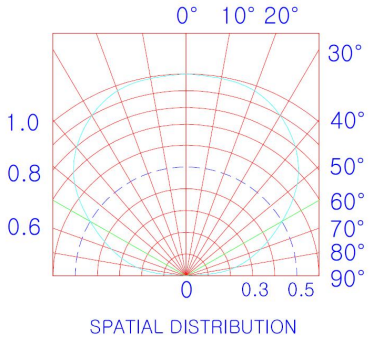
urved Screen Technical Parameter

Item	Specification	ER2.6
Module Parameter	**Pixel Pitch (mm)**	2.6
	Pixel Structure	SMD 1R1G1B
	Pixel Density(dot//m²)	147,456
	Module Size(WxH)(mm)	250*250
	Backshell Material	Plastic
	Module Resolution(W*H)(dot)	96*96
	Maximum Current(A)	8.5
	Supply Voltage(V)	5
	Scanning Method	1/24
	Refresh Frequency(Hz)	≥7680
	Illumination(cd//m²)	600
	Driver IC	Constant Current Drive
	Contrast Ratio	≥5000:1
Cabinet Parameter	**Cabinet Size(W*H*D)**	500*500*86
	Cabinet Material	Die Casting Aluminum
	Cabinet Weight(kg)	7.4
	Enclosure Connection Method	Quick Lock
	Single Cabinet radian range	±22.5°
	Installation/Maintenance Methods	Front or back Installation/Maintenance
	Color Temperature /Luminance Uniformity	3200-12000KAdjustable; ≥98%
	Chromatic Uniformity	±0.003Cx, Cy
	Horizontal/Vertical View	≥140°/≥120°
	Single-point Color Correction	Optional
	Single Point Brightness Correction	Optional
	Standard Receiver Card	A5S-PLUS
	Frame Rate(Hz)	50/60
	Protection Level	IP45
	Signal Interface Mode	Custom Interface
	Power Interface Method	Connector
	Input Voltage Range AC(V)	100-240
	Peak Power Consumption(W/m²)	≤650
	Average Power Consumption(W//m²)	≤200
	Working Temperature and Humidity Range	-20℃～+50℃,10%～95%RH
	Storage Temperature and Humidity Range	-40～+70℃,10%～95%RH
	Service Life(H)	≥100000
	Mean Time Between Failure(H)	≥10000

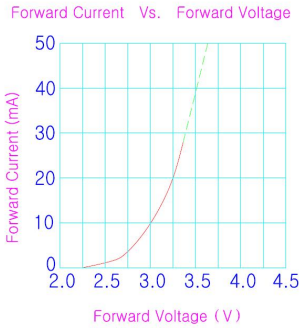
16. Arc Screen Technical Parameter

Item	Specification	EA2.6
Module Parameter	**Pixel Pitch (mm)**	2.6
	Pixel Structure	SMD 1R1G1B
	Pixel Density(dot//m²)	147,456
	Module Size(WxH)(mm)	250*250
	Backshell Material	Plastic
	Module Resolution(W*H)(dot)	96*96
	Maximum Current(A)	8.5
	Supply Voltage(V)	5
	Scanning Method	1/24
	Refresh Frequency(Hz)	≥7680
	Illumination(cd//m²)	600
	Driver IC	Constant Current Drive
	Contrast Ratio	≥5000:1
Cabinet Parameter	**Cabinet Size(W*H*D)**	250*500
	Cabinet Material	Die Casting Aluminum
	Cabinet Weight(kg)	7.2
	Enclosure Connection Method	Screw+Connector
	Cabinet Radian	45°
	Installation/Maintenance Methods	Front and back Maintenance
	Color Temperature /Luminance Uniformity	3200-12000KAdjustable；≥98%
	Chromatic Uniformity	±0.003Cx, Cy
	Horizontal/Vertical View	≥140°/≥120°
	Single-point Color Correction	Optional
	Single Point Brightness Correction	Optional
	Standard Receiver Card	A5S-PLUS
	Frame Rate(Hz)	50/60
	Protection Level	IP45
	Signal Interface Mode	Custom Interface
	Power Interface Method	Connector
	Input Voltage Range AC(V)	100-240
	Peak Power Consumption(W/m²)	≤650
	Average Power Consumption(W//m²)	≤200
	Working Temperature and Humidity Range	-20℃～+50℃,10%～95%RH
	Storage Temperature and Humidity Range	-40～+70℃,10%～95%RH
	Service Life(H)	≥100000
	Mean Time Between Failure(H)	≥10000

ptical Feature

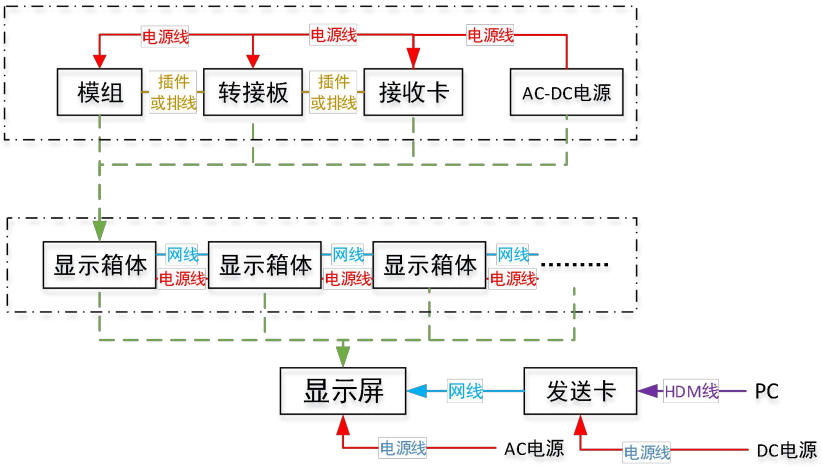


Luminescence diagram



Lamp bead voltage and current curve

18. Connecting Diagram



19. Packing and After-sale Service

19.1 Packing

Plywood case/Honeycomb carton/Flight case option



19.2 After-sale Service

If need any help during using display, pleas contact your salesman.