Product Specification

KMT EH1.56-PRO COB SERIES

Content

1. Product Description

The product is outdoor rental of KMT EH1.56-PRO series, this product adopts COB encapsulation technology, which is different from the traditional SMD surface-mount encapsulation. It integrates the light-emitting RGB chip on the PCB board instead of soldering LED lamp to the PCB one by one. This technology effectively improves the reliability, light color and protection performance of LED display. The standard cabinet size is 500mm*500mm .

With up to 3840Hz refresh frequencyOptional with radian locks and can achieve arc splicing. The die casting cabinet with anodic oxidation which is resistant to collision and friction, it's suitable for multiple set up and disassembly in the leasing process.

1.1 Application Scope

This technical specification is just applicable to KMT outdoor COB series product. Module size:250*250mm and its die cast aluminum cabinet size is: 500*500mm.

1.2 Product Features

- Standardized 500mm*500mm die-casting aluminum cabinet, module adopts die-casting aluminum bottom shell, higher screen splicing flatness;
- Flip chip COB technology , low consumption, and more stable;
- Hard-wired power box, no wiring, more beautiful;
- The up and down connect with the big magnetic screw,within automatic suction function;
- Optional right-angle splicing to satisfy a variety of rental scenarios;
- Big high-quality chip, pure gold bonding wires , and pads are immersed gold technology, which is more reliable ;
- Flip Chip COB with common cathode solution , excellent heat dissipation and low light decay.

2. 250mm*250mm Module Specification

Item	Specification	Module Picture
Series	Outdoor COB EH-PRO Series	
Material	Die-cast aluminum	
Pixel Pitch	1.56mm	
Resolution	160*160(W*H)dot	
Module Size	250*250(W*H)mm	
Module Weight	720g±10g	

3. 500mm*500mm Cabinet Specification

Item	Specification	Cabinet Picture
Series	Outdoor COB E-PRO Series	
Material	Die-casting aluminum	
Pixel Pitch	1.56mm, 1.984mm	
Resolution	320*320(W*H)dot	
Cabinet Size	500*500*90(W*H*D)mm	
Cabinet Weight	9.5kg	

4. Module Picture
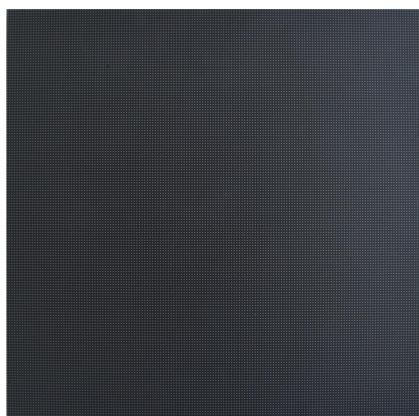
Front View

Back View

5. Cabinet Dimension Structure

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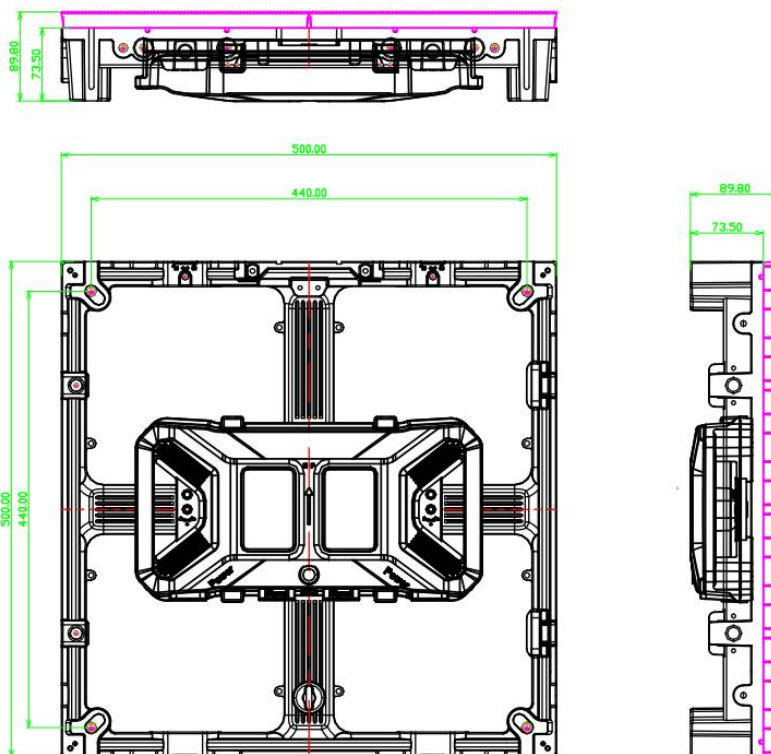
6. Cabinet Picture
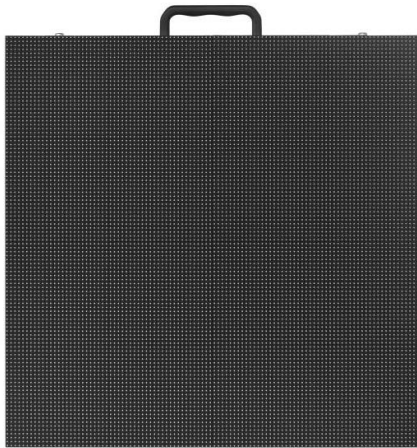
Front View

Back View

Front Side View

Back Side View

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7.Technical Parameter

Item	Specification	EH1.56-PRO
Module Parameter	Pixel Pitch (mm)	1.56
	Pixel Structure	COB 1RG1B
	Pixel Density(dot/m²)	409,600
	Module Size(W*H)(mm)	250*250
	Backshell Material	Die Casting Aluminum
	Module Resolution(W*H)(dot)	160*160
	Maximum Current(A）	3.5/4.5
	Supply Voltage(V)	3.2/4.2
	Scanning Method	1/20
	Refresh Frequency(Hz)	≥3840
	Brightness(cd/m²)	3000
	Driver IC	Constant Current Drive
	Contrast Ratio	≥10000:1
Cabinet Parameter	Cabinet Size(W*H*D)(mm)	500*500*90
	Cabinet Material	Die-cast aluminum
	Cabinet Weight(kg)	9.5
	Enclosure Connection Method	Quick Lock
	Installation/Maintenance Methods	Front or Back Installation/Front or Back Maintenance
	Color Temperature /Luminance Uniformity	3000-12000KAdjustable，≥98%
	Chromatic Uniformity	±0.003Cx，Cy
	Horizontal/Vertical View	≤140°
	Single-point Color Correction	Yes
	Single Point Brightness Correction	Yes
	Standard Receiver Card	A8S-N
	Frame Rate(Hz)	50/60
	Protection Level	IP65
	Signal Interface Mode	RJ45
	Power Interface Method	Connectors
	Input Voltage Range AC(V)	100-240
	Peak Power Consumption(W/m²)	≤680
	Average Power Consumption(W//m²)	≤260
	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

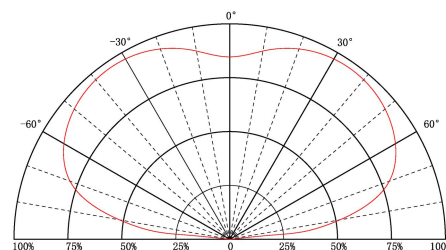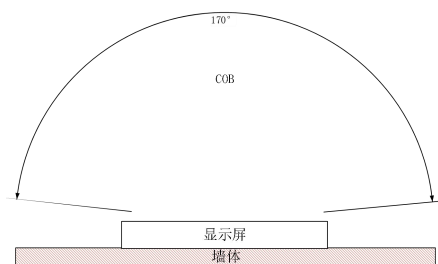## 7.1 Package Comparison
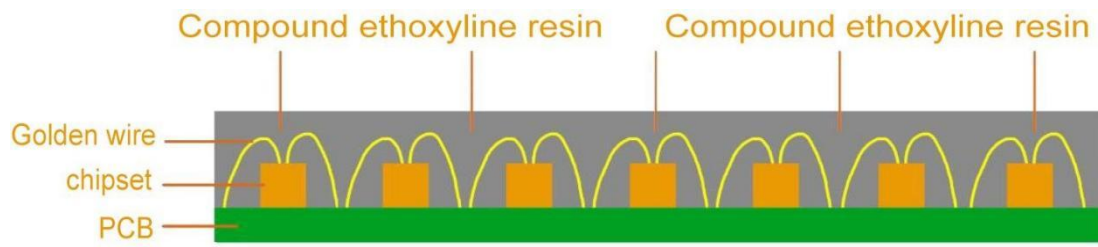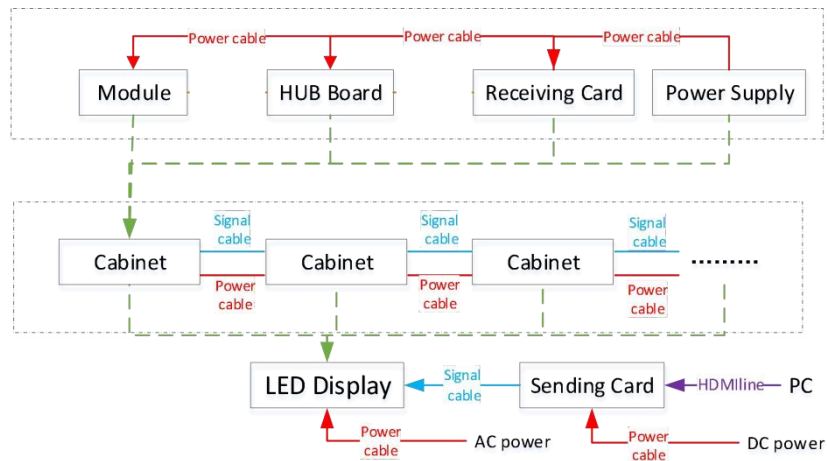

COB （regular technology)
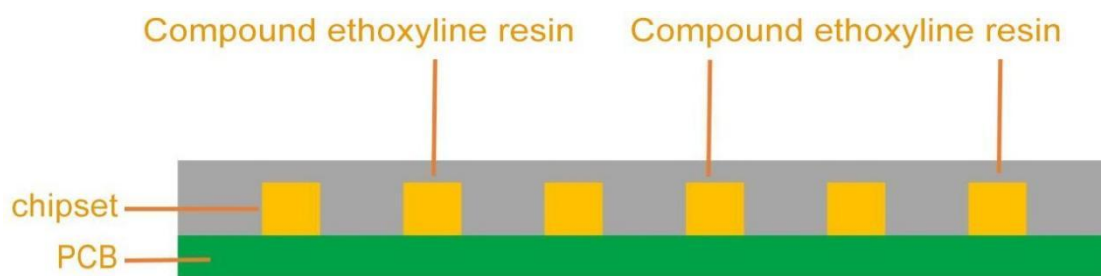
Flip Chip COB（Customized）

7.2 Optical Feature

Light Angle and Schematic Diagram

8. Connecting Diagram

9. Packing and After-sale Service

9.1 Packing

Plywood case/Honeycomb carton/Flight case option

9.2 After-sale Service

If need any help during using KMT display, please for free to contact with your salesman.