



SHENZHEN KMTEKLED PHOTOELECTRICITY CO. , LTD

Product Specification



KMT EH-PRO COB SERIES

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1. Product Description

The product is outdoor rental of KMT EH-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.

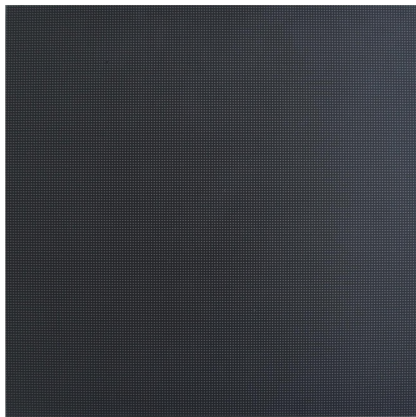
2. 250mm*250mm Module Specification

Item	Specification	Module Picture
Series	Outdoor COB EH-PRO Series	
Material	Die-cast aluminum	
Pixel Pitch	1.56mm, 1.984mm	
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

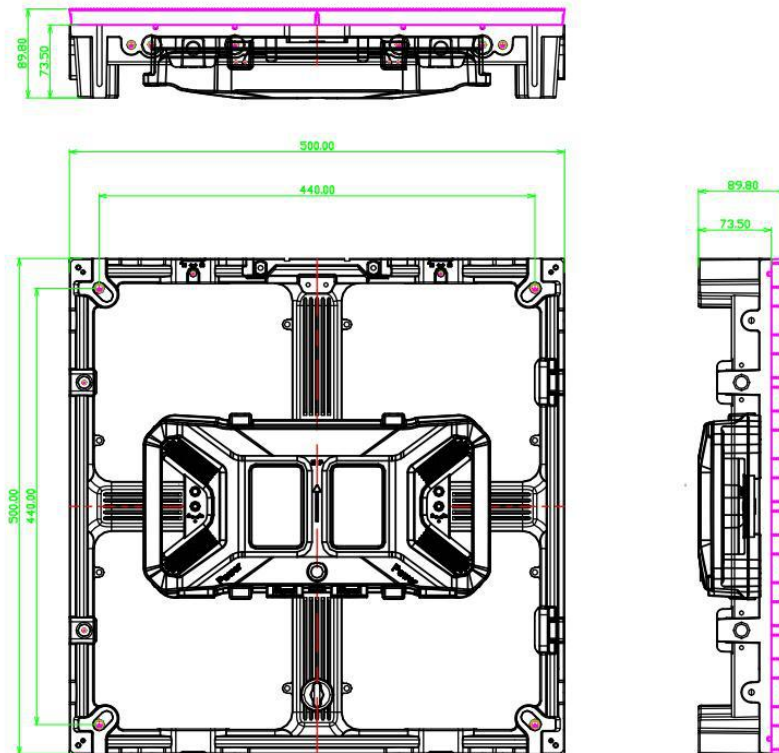


Front View

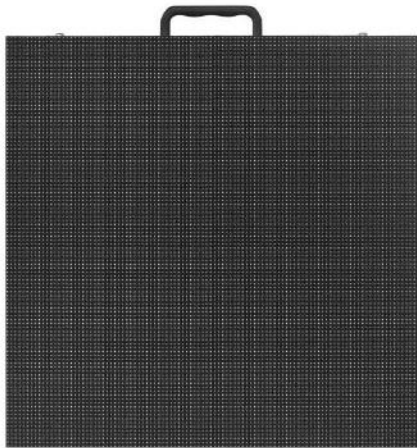


Back View

5. Cabinet Dimension Structure



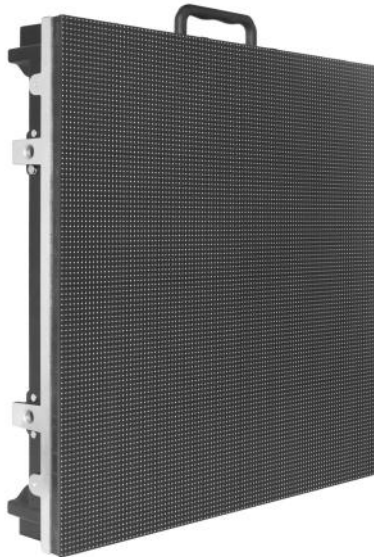
6. Cabinet Picture



Front View



Back View



Front Side View



Back Side View

7. Technical Parameter

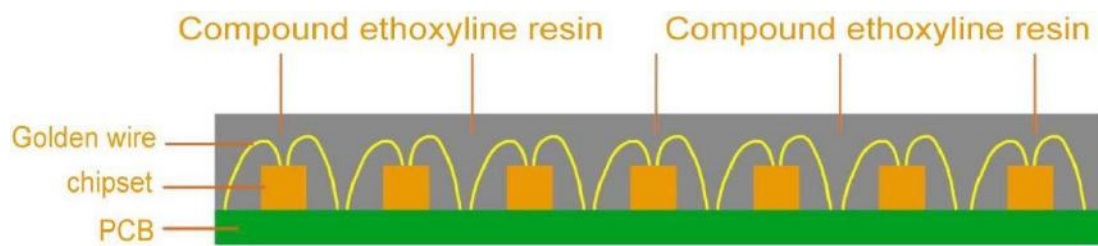
Item	Specification	EH1. 56-PR0
Module Parameter	Pixel Pitch (mm)	1.56
	Pixel Structure	COB 1RG1B
	Pixel Density(dot/m ²)	409,600
	Module Size(W*H)(mm)	250*250
	Backshell Material	Die Casting Aluminum
	Module Resolution(W*H)(dot)	160*160
	Maximum Current(A)	3.5/4.5
	Supply Voltage(V)	3.2/4.2
	Scanning Method	1/20
	Refresh Frequency(Hz)	≥3840
	Brightness(cd/m ²)	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	3000-12000K Adjustable, ≥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/m ²)	≤680
	Average Power Consumption(W//m ²)	≤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



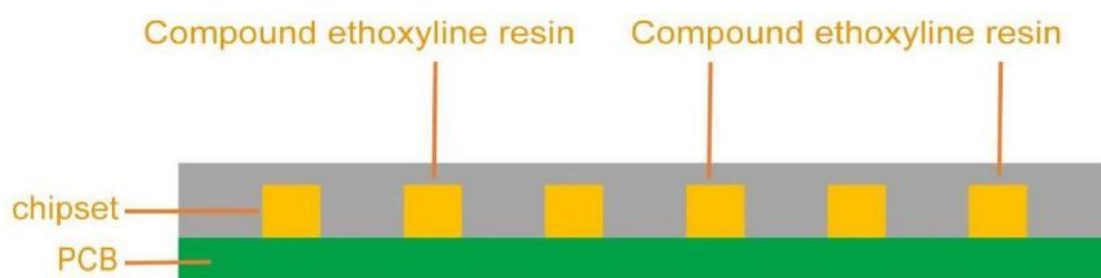
Technical Parameter

Item	EH1.98-Pro Standard configuration	EH1.98-Pro Advanced configuration	EH1.98-Pro Standard configuration	EH1.98-Pro Advanced configuration
Power supply method	Common anode		Common cathode	
Pixel Pitch (mm)	1.984		1.984	
Receiving Card	A10s PLUS-N	A10s PRO	A10s PLUS-N	A10s PRO
Module Calibration	General calibration	Full grey-scale calibration	General calibration	Full grey-scale calibration
Dynamic engine	No	Yes	No	Yes
Physical Density(dot/m²)	254016		254016	
LED Configuration	1R1G1B		1R1G1B	
Module Resolution(PX*PX)	126X126		126X126	
Scanning mode	21S		21S	
Brightness	3000	3000	3000	3000
Grey Scale (Bit)	13	13	13	13
Refresh Rate(HZ)	3840	3840	3840	3840
Module Kit Material	Plastic		Plastic	
Horizontal View Angle(Deg)	160 (±10)		160 (±10)	
Vertical View Angle (Deg)	160 (±10)		160 (±10)	
Driving IC	ICN2165+ICN2018	MBI5264+ICN2018	ICN2169+ICN2019	
Module Size (W ×H ×D)mm	250X250X15		250X250X15	
Module Weight	650±10g		650±10g	
Module Flatness (mm)	≤0.1 mm		≤0.1 mm	
Structural features	LED and Drive IC all -in -one		LED and Drive IC all -in -one	
Input voltage(DC)	5V		3.2V+4.2V	
Max.Rated Current	9 A		4A+5A	
Module Max Power Consumption	45 W		34W	
MBTF	≥10000 hours		≥10000 hours	
Life time	≥50000 hours		≥50000 hours	
Malfunction Dot rate	< 1/100000		< 1/100000	
Interface Definition	HUB320		HUB320	
Working Environment	Outdoor		Outdoor	
Working Temperature	-20 ~+50		-20 ~+50	
Working Humidity	10%~90%		10%~90%	

7.1 Package Comparison

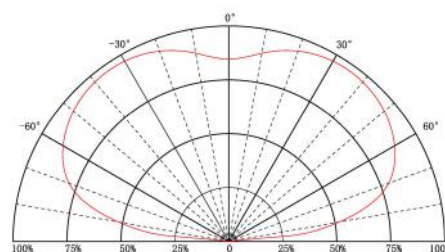
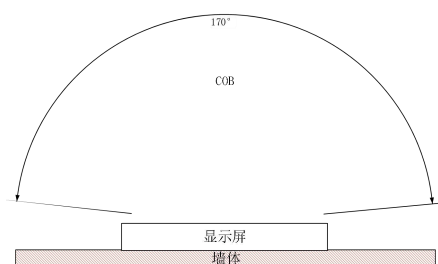


COB (regular technology)



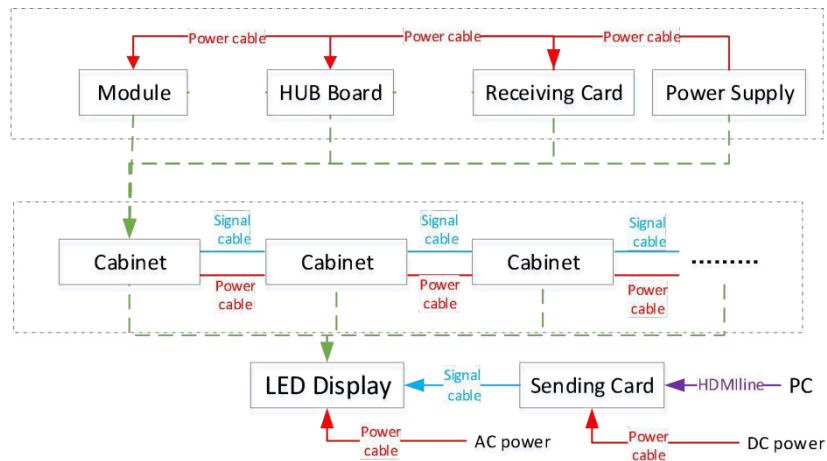
Flip Chip COB (Customized)

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.